ORS 2021 Annual Meeting All Access – February 12-16, 2021
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Joel Gagnier
3B - Johnson & Johnson, Sanofi; 8 - Editor/Editorial Board: World Journal of Orthopaedics, BMC Musculoskeletal Medicine, BMC Trials, BMC Med Res MEthodology, SAGE Research Methods in Medicine & Health Sciences, Translational Sports Medicine, Sports Medicine – Open; 9 - ORS

Karl Jepsen
Nothing to disclose

Rita Kandel
8 – Member, Editorial Board, OAC Open; Member, Editorial Board, Journal of Experimental Orthopedics; Member, Editorial Board, Osteoarthritis and Cartilage; 9 – Secretary, Executive Board Committee, Osteoarthritis Research Society International

John Martin
3b - I am a paid consultant for DiscGenics, Inc. in Salt Lake City, UT

William Mihalko
1- Royalties received for the Vega total knee system and the CoreHip Femoral Total Hip stem from Aesculap Inc; 2- Pacira Biosciences; 5 - Clinical Trial PI for Iovera Myoscience Inc Co-PI DOD grant VALOR Study Research support in kind resources from Stryker Inc, Aesculap inc NIH grant support from NIAMS R34; 7A - Royalties received for the Vega total knee system and the CoreHip Femoral Total Hip stem from Aesculap Inc; 7B - Royalties from Elsevier; 8 - Journal of Arthroplasty-Editorial Board; Journal of Long Term Effects of Medical Implants-Editorial Board; Orthopaedic Clinics of North America -Associate Editor; Journal of Orthopaedic Research-Editorial Review Board; 9 - Executive Committee ASTM International F04 Committee on Medical and Surgical Devices and Materials; Sub Committee Officer F04-39 Clinical Trials ASTM International; Campbell Foundation Board of Trustees

Karin Payne
3A - Spouse is an employee of Taiga Biotechnologies, Inc. (not related to orthopedics); 4 – Spouse – Pfizer stock; 9 – ORS member Program Committee

Amarjit Virdi
Nothing to disclose

ORS Staff

Brenda Frederick
Nothing to disclose

Amber Blake
Nothing to disclose

Kelly Bauer
Nothing to disclose

Shari Centrone
Nothing to disclose

Karen Danca
Nothing to disclose

Clare McKeown
Nothing to disclose

Bailey McMurray
Nothing to disclose

Camille Petrick
Nothing to disclose

Cindy Schneider
Nothing to disclose

Matt Zuleg
Nothing to disclose

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Aaron, Roy.....*Disclosed no conflict of interest.*

Aaron, Roy K.....*Disclosed no conflict of interest.*

Abbasi, Pooyan.....*Disclosed no conflict of interest.*

Abbondandolo, Angelica.....*Disclosed no conflict of interest.*

Abbruzzese, Kevin.....*3A*: Stryker; *4*: Stryker.

Abdellatif, Engy.....*Disclosed no conflict of interest.*

Abdolcader, Sabira.....*Disclosed no conflict of interest.*

Abe, Koki .....*Disclosed no conflict of interest.*

Abe, Yuichiro .....*Disclosed no conflict of interest.*

Abeskaron, David E.....*3A*: Stryker; *4*: Stryker.

Aboytes, Donald A .....*Disclosed no conflict of interest.*

Abraham, Adam.....*Disclosed no conflict of interest.*

Abraham, Jerrold L.....*Disclosed no conflict of interest.*

Abraham, Lovell.....*Disclosed no conflict of interest.*

Abraham, Lovell B.....*Disclosed no conflict of interest.*

Abraham, Paul F.....*Disclosed no conflict of interest.*

Abramo, Antonio .....*Disclosed no conflict of interest.*

Accardi, Mario Alberto.....*3A*: Orthonika; *4*: Orthonika.

Acevedo, Claire .....*Disclosed no conflict of interest.*

Ackerman, Jess .....*Disclosed no conflict of interest.*

Ackerman, Jessica .....*Disclosed no conflict of interest.*

Ackerman, Jessica E. .....*Disclosed no conflict of interest.*

Ackermann, Paul W .....*Disclosed no conflict of interest.*

Ackert-Bicknell, Cheryl L .....*Disclosed no conflict of interest.*

Ackland, David .....*Disclosed no conflict of interest.*

Acosta, Ashley .....*Disclosed no conflict of interest.*

Adachi, Nobuo .....*Disclosed no conflict of interest.*

Adachi, Stephanie Y .....*Disclosed no conflict of interest.*

Adams, Douglas J .....*Disclosed no conflict of interest.*

Adams, Erik S .....*Disclosed no conflict of interest.*

Adams, Mark .....*Disclosed no conflict of interest.*

Adams, Sheila M .....*Disclosed no conflict of interest.*

Adelzadeh, Kaya .....*Disclosed no conflict of interest.*

Adouni, Malek .....*Disclosed no conflict of interest.*

Afetse, Eddie.....*Disclosed no conflict of interest.*

Afetse, Komi E......*Disclosed no conflict of interest.*

Afsari, Alan .....*Disclosed no conflict of interest.*

Afzal, Najiba.....*Disclosed no conflict of interest.*

Agarwal, Alisha .....*Disclosed no conflict of interest.*

Agarwal, Amil R .....*Disclosed no conflict of interest.*

Agarwal, Jayant .....*Disclosed no conflict of interest.*

Agarwal, Puja.....*Disclosed no conflict of interest.*

Agarwal, Sanchita .....*Disclosed no conflict of interest.*

Agarwal, Sujit.....*Disclosed no conflict of interest.*

Agel, Julie.....*Disclosed no conflict of interest.*

Aghazadeh, Mahdieh .....*3A*: DePuy Synthes.

Agres, Alison N.....*Disclosed no conflict of interest.*

Ahmed, Aisha.....*Disclosed no conflict of interest.*

Ahmed, Saima.....*Disclosed no conflict of interest.*

Ahmed, Sonya S .....*Disclosed no conflict of interest.*

Ahn, Jaimo .....*Disclosed no conflict of interest.*

Ahrens, Sonia R.....*Disclosed no conflict of interest.*

Ai, Emily.....*Disclosed no conflict of interest.*

Aiken, Sean.....*3A*: Biocomposites Ltd.

Aiping, Lu .....*Disclosed no conflict of interest.*

Ajalik, Raquel.....*Disclosed no conflict of interest.*

Ajiki, Takashi.....*Disclosed no conflict of interest.*

Akabane, Takeru.....*Disclosed no conflict of interest.*

Akabudike, Ngozi.....*8*: Editorial Board member for journal; *9*: Board member of Maryland Orthopedic Association.

Akaike, Keisuke.....*Disclosed no conflict of interest.*

Akamine, Naori.....*Disclosed no conflict of interest.*

Akashi, Yuki .....*Disclosed no conflict of interest.*

Akeda, Koji.....*Disclosed no conflict of interest.*

Akens, Margarete K .....*Disclosed no conflict of interest.*

Akhbari, Bardiya .....*Disclosed no conflict of interest.*

Akinfosile, Oba .....*Disclosed no conflict of interest.*

Akisue, Toshihiro .....*Disclosed no conflict of interest.*

Akkouch, Adil.....*Disclosed no conflict of interest.*

Akkus, Ozan .....*3A*: Collamedix.

Akoh, Craig C.....*Disclosed no conflict of interest.*

Akoh, Craig C......*Disclosed no conflict of interest.*

Al Barghouthi, Abeer .....*Disclosed no conflict of interest.*

Al Khatib, Fadi.....*Disclosed no conflict of interest.*

Alaa, Terkawi .....*Disclosed no conflict of interest.*

Alatassi, Raheef .....*Disclosed no conflict of interest.*

Al-Atawneh, Ihab.....*Disclosed no conflict of interest.*

Albanese, Matthew A .....*Disclosed no conflict of interest.*

Albarghouthi, Abeer .....*Disclosed no conflict of interest.*

Albers, Christoph .....*Disclosed no conflict of interest.*

Albro, Michael .....*Disclosed no conflict of interest.*

Albro, Michael B .....*Disclosed no conflict of interest.*

Albro, Michael B. .....*Disclosed no conflict of interest.*

Aldrich, Jessica.....*Disclosed no conflict of interest.*

Aldridge, John.....*1*: Exactech Inc; *3B*: Exactech Inc; *4*: Nanovis, Renovis.

Alejo, Andrew Lorenzo.....*Disclosed no conflict of interest.*

Alemi, Mohammad Mehdi.....*Disclosed no conflict of interest.*

Alenchery, Rahul.....*Disclosed no conflict of interest.*

Alexander, Peter.....*Disclosed no conflict of interest.*

Alexander, Peter G.....*Disclosed no conflict of interest.*

Alfayyadh, Abdulmajeed .....*Disclosed no conflict of interest.*

Alfonso Guzman, Roberto.....*Disclosed no conflict of interest.*

Alhaj, Moh .....*Disclosed no conflict of interest.*

Alhasan, Hend.....*Disclosed no conflict of interest.*

Al-Humadi, Samer M.....*Disclosed no conflict of interest.*

Ali, Azhar A .....*3A*: Stryker Orthopaedics.

Aliaj, Klevis .....*Disclosed no conflict of interest.*

Alini, Mauro.....*Disclosed no conflict of interest.*

Allen, Kyle.....*Disclosed no conflict of interest.*

Allen, Kyle D.....*Disclosed no conflict of interest.*

Allen, Matthew R.....*Disclosed no conflict of interest.*

Alliston, Tamara.....*Disclosed no conflict of interest.*

Allu, Sai.....*Disclosed no conflict of interest.*

Alman, Benjamin A .....*Disclosed no conflict of interest.*

Alon, Lai.....*Disclosed no conflict of interest.*

Alsafar, Farah.....*Disclosed no conflict of interest.*

AlSumadi, Mutaz .....*Disclosed no conflict of interest.*

Altahawi, Faysal.....*Disclosed no conflict of interest.*

Alter, Thomas .....*Disclosed no conflict of interest.*

Alter, Thomas D .....*Disclosed no conflict of interest.*

Alter, Thomas D. .....*Disclosed no conflict of interest.*

Altiok, Haluk .....*Disclosed no conflict of interest.*

Altman, Daniel T .....*Disclosed no conflict of interest.*

Altman, Gregory T.....*Disclosed no conflict of interest.*

Altmann, Nadine N .....*Disclosed no conflict of interest.*

Altman-Singles, Allison R .....*Disclosed no conflict of interest.*

Aluthge, Dilum.....*Disclosed no conflict of interest.*

Alvarez, Jonathan .....*Disclosed no conflict of interest.*

Alvarez, Luis.....*3A*: Theradaptive, Inc.; *4*: Theradaptive, Inc.

Alvarez, Oliver .....*Disclosed no conflict of interest.*

Alves, Joel .....*Disclosed no conflict of interest.*

Alvey, Cory.....*Disclosed no conflict of interest.*

Amadio, J M.....*Disclosed no conflict of interest.*

Amadio, Peter.....*4*: Stock in Merck and Johnson and Johnson; *7B*: Book Royalties from Elsevier; *9*: Board of the ORS.

Amadio, Peter C.....*Disclosed no conflict of interest.*

Amadio, Peter C. .....*4*: Stocks Merck, Stocks Johnson&Johnson; *7B*: Book royalties Elsevier; *9*: Board ORS.

Amadio, Peter C. .....*4*: Stock Merck, Stock Johnson&Johnson; *7B*: Book royalties Elsevier; *9*: Board Member ORS.

Amanatullah, Derek F .....*1*: Exactech; *3B*: Stryker, DePuy, Zimmer-Biomet; *4*: QT Ultrasound, Recoup Fitness, Radial Medical; *5*: Stryker, NIH, OREF, OTCF, Zimmer-Biomet; *7B*: Medscape.

Ambrose, Catherine .....*5*: Ossio; *9*: Biomaterials Topic Chair, ORS Annual Meetings 2020, 2021; member of the Communications Committee for the Preclinical Models Section.

Amen, Troy B .....*Disclosed no conflict of interest.*

Amero, Jessica .....*Disclosed no conflict of interest.*

Amis, Andrew .....*Disclosed no conflict of interest.*

Amis, Andrew A .....*4*: Orthonika; *5*: Orthonika; *7A*: Orthonika.

Amis, James .....*1*: Arthrex; *3A*: Johnson & Johnson; *4*: Johnson & Johnson; *7A*: Innomed.

Amorosa, Louis F.....*Disclosed no conflict of interest.*

Ampadi Ramachandran, Remya*Disclosed no conflict of interest.*

An, Howard S .....*1*: U&I Inc; *3B*: Bioventus Inc, BioPharma; *4*: Medyssey Inc; *5*: Spinalcyte LLC; *6*: ChemoCentryx.

An, Howard S. .....*1*: U&I Inc; *3B*: Bioventus Inc, BioPharma; *4*: Medyssey Inc; *5*: Spinalcyte LLC; *6*: ChemoCentryx.

An, Jae-Sung .....*Disclosed no conflict of interest.*

An, Qiang .....*Disclosed no conflict of interest.*

Anabaraonye, Nancy.....*Disclosed no conflict of interest.*

Ana-Maria, Trunfio-Sfarghiu .....*Disclosed no conflict of interest.*

Anastopolous, Sarah .....*Disclosed no conflict of interest.*

Anastopolous, Sotiria.....*Disclosed no conflict of interest.*

Andarawis-Puri, Nelly .....*Disclosed no conflict of interest.*

Anders, Mark J .....*Disclosed no conflict of interest.*

Anderson, Abigail M .....*Disclosed no conflict of interest.*

Anderson, Andrew E .....*Disclosed no conflict of interest.*

Anderson, Andrew E. .....*Disclosed no conflict of interest.*

Anderson, David E.....*Disclosed no conflict of interest.*

Anderson, Donald .....*Disclosed no conflict of interest.*

Anderson, Donald D.....*8*: Editorial Review Board, Journal of Orthopaedic Research.

Anderson, Donald D......*Disclosed no conflict of interest.*

Anderson, James.....*Disclosed no conflict of interest.*

Anderson, Kirsten M.....*Disclosed no conflict of interest.*

Anderson, Kyle D .....*Disclosed no conflict of interest.*

Anderson, Shannon .....*Disclosed no conflict of interest.*

Anderst, William.....*5*: Smith&Nephew; *8*: JOR, J. Biomechanics; *9*: CSRS.

Anderst, William.....*8*: JOR, J.Biomech.

Anderst, William.....*8*: JOR, J. Biomechanics; *9*: CSRS Grants Committee.

Anderst, William.....*8*: JOR, J. Biomechanics; *9*: CSRS.

Anderst, William.....*8*: JOR; *9*: CSRS.

Anderst, William.....*8*: JOR, J Biomechanics.

Anderst, William J.....*8*: JOR; J Biomechanics; *9*: CSRS.

Anderst, William J.....*8*: JOR; *9*: CSRS.

Anderst, William J.....*8*: JOR, J Biomechanics; *9*: CSRS.

Anderst, William J.....*8*: JOR, JBiomech; *9*: CSRS.

Ando, Wataru .....*Disclosed no conflict of interest.*

Andre, Graham .....*Disclosed no conflict of interest.*

Andrechak, Jason.....*Disclosed no conflict of interest.*

Andrews, Frank M.....*Disclosed no conflict of interest.*

Andriacchi, Thomas .....*4*: SomaTX Design, Inc.

Andriacchi, Thomas P.....*1*: Zimmer-Biomet.

Andriacchi, Thomas P.....*4*: SomaTX Design, Inc.

Andriotis, Orestis G.....*Disclosed no conflict of interest.*

Andriotis, Orestis G......*Disclosed no conflict of interest.*

Angibaud, Laurent .....*3A*: Exactech Inc.

Anjiki, Kensuke .....*Disclosed no conflict of interest.*

Anjum, Muhammad AR .....*Disclosed no conflict of interest.*

Ankersen, Jordan.....*Disclosed no conflict of interest.*

Anno, Chusiki.....*Disclosed no conflict of interest.*

Ansari, Mohammad Y .....*Disclosed no conflict of interest.*

Anthony, Christopher A .....*3B*: McKinsey & Co.

Antoci, Valentin .....*Disclosed no conflict of interest.*

Antoinette, Adrien Yannick.....*Disclosed no conflict of interest.*

Antonacci, Christopher .....*Disclosed no conflict of interest.*

Antoniou, John .....*Disclosed no conflict of interest.*

Ao, Yingfang.....*Disclosed no conflict of interest.*

Aoi, Michiyo K.....*Disclosed no conflict of interest.*

Aoi, Takashi .....*Disclosed no conflict of interest.*

Aoki, Hayato .....*Disclosed no conflict of interest.*

Aparicio, Conrado .....*5*: 3M Oral Care and Mozo Grau Dental Implants.

Apostolakos, John.....*Disclosed no conflict of interest.*

Arai, Yuji .....*Disclosed no conflict of interest.*

Arakaki, Kazunobu.....*Disclosed no conflict of interest.*

Arakawa, Kohei.....*Disclosed no conflict of interest.*

Araki, Daisuke.....*Disclosed no conflict of interest.*

Arant, Lesley R .....*Disclosed no conflict of interest.*

Archer, Marilyn.....*Disclosed no conflict of interest.*

Arciero, Robert .....*4*: Biorez.

Arciniaga, Louis F .....*Disclosed no conflict of interest.*

Arena, Sara L.....*1*: Spouse, Christopher Arena, VoltMed Inc.; *3A*: Spouse, Christopher Arena, VoltMed Inc.; *4*: Spouse, Christopher Arena, VoltMed Inc.

Argarwal, Jay .....*Disclosed no conflict of interest.*

Argentieri, Erin C.....*Disclosed no conflict of interest.*

Argentieri, Erin C......*5*: GE Healthcare.

Arhos, Elanna K.....*Disclosed no conflict of interest.*

Ari, Yoshinori .....*Disclosed no conflict of interest.*

Arimoto, Natsuko .....*Disclosed no conflict of interest.*

Arizono, Takeshi .....*Disclosed no conflict of interest.*

Arlt, Heike.....*3A*: Radius Health Inc; *4*: Radius Health Inc.

Armstrong, Alexandra R......*Disclosed no conflict of interest.*

Arner, Justin W. .....*Disclosed no conflict of interest.*

Arnoczky, Steven .....*4*: Biorez.

Arnold, Michael .....*Disclosed no conflict of interest.*

Aronson, Mark.....*3B*: Biorez.

Artandi, Steven.....*Disclosed no conflict of interest.*

Arteaga, Alexandra.....*Disclosed no conflict of interest.*

Arvidsson, Linnea.....*Disclosed no conflict of interest.*

Arvind, Varun.....*Disclosed no conflict of interest.*

Asai, Shuji .....*Disclosed no conflict of interest.*

Asano, Tsuyoshi.....*Disclosed no conflict of interest.*

Asay, Jessica.....*4*: SomaTX Design, Inc.

Asay, Jessica L.....*4*: SomaTx.

Asay, Jessica L.....*4*: SomaTX Design, Inc.

Ashinsky, Beth G......*Disclosed no conflict of interest.*

Ashkani-Esfahani, Soheil.....*Disclosed no conflict of interest.*

Ashraf, Asad.....*Disclosed no conflict of interest.*

Ashraf, Asad M .....*Disclosed no conflict of interest.*

Ashton, Anthony W .....*Disclosed no conflict of interest.*

Ashton, Dylan M.....*Disclosed no conflict of interest.*

Ashton-Miller, James A.....*5*: Hologic.

Aso, Koji.....*Disclosed no conflict of interest.*

Asou, Yoshinori.....*Disclosed no conflict of interest.*

Assad, Michel.....*Disclosed no conflict of interest.*

Atasoy-Zeybek, Aysegul.....*Disclosed no conflict of interest.*

Ateshian, Gerard A. .....*1*: Allosource.

Athwal, George.....*1*: Conmed, Exactech, Imascap, Orthospace, Wright Medical; *3B*: DePuy; *4*: Imascap, Wright Medical; *5*: Wright Medical, Smith & Nephew; *8*: JSEA, JSES; *9*: ASES.

Athwal, George.....*1*: Conmed, Imascap, Exactech, Orthospace, Wright Medical; *3B*: Depuy; *4*: Imascap, Wright Medical; *5*: Wright Medical; *8*: JSES, JSEA; *9*: ASES.

Athwal, George S .....*1*: Wright Medical, Conmed Linvatec, Exactech; *4*: Precision OS Technology.

Atkins, Gerald J .....*Disclosed no conflict of interest.*

Atrey, Amit .....*3B*: Stryker, S&N, Zimmer-Biomet, Biocomposites and DePuy; *6*: Stryker, S&N, Zimmer-Biomet and DePuy.

Au, Jeffrey.....*Disclosed no conflict of interest.*

Aubin, Patrick M .....*Disclosed no conflict of interest.*

Augi, Tyler.....*Disclosed no conflict of interest.*

Aung, Mya S.....*Disclosed no conflict of interest.*

Austin, Brooke .....*Disclosed no conflict of interest.*

Avalos, Pablo .....*Disclosed no conflict of interest.*

Avila, Jose DeJesus.....*Disclosed no conflict of interest.*

Avila, Joshua J.....*Disclosed no conflict of interest.*

Avram, Victoria.....*Disclosed no conflict of interest.*

Awad, Hani .....*Disclosed no conflict of interest.*

Awad, Hani A .....*Disclosed no conflict of interest.*

Awad, Hani A. .....*Disclosed no conflict of interest.*

Awad, Mohamed .....*Disclosed no conflict of interest.*

Awan, Hisham.....*Disclosed no conflict of interest.*

Ayala, Jose C .....*Disclosed no conflict of interest.*

Aydemir, Burcu .....*Disclosed no conflict of interest.*

Ayinon, Caroline Murielle .....*Disclosed no conflict of interest.*

Aynardi, Michael.....*3B*: Paid Consultant for Arthrex Inc.

Ayres, Jack M. .....*Disclosed no conflict of interest.*

Ayton, Scott.....*Disclosed no conflict of interest.*

Azar, Tala.....*Disclosed no conflict of interest.*

Azoug, Aurelie.....*Disclosed no conflict of interest.*

Azuma, Chinatsu.....*Disclosed no conflict of interest.*

Baba, Rikiya .....*Disclosed no conflict of interest.*

Babmatee, Roland R .....*Disclosed no conflict of interest.*

Backstein, David .....*1*: Microport Orthopaedics; *3B*: Microport Orthopaedics; *8*: Journal of Arthroplasty.

Bacon, BS, Adam.....*Disclosed no conflict of interest.*

Badalamente, Marie A.....*1*: Endo Pharmaceuticals, Acetlion Pharmaceuticals, Asahi-Kasei Pharmaceuticals, Biospecifics Technology Corp.; *3B*: Endo Pharmaceuticals, Acetlion Pharmaceuticals, Asahi-Kasei Pharmaceuticals, Biospecifics Technology Corp.

Baddour, Talia.....*Disclosed no conflict of interest.*

Badhe, Ravindra.....*Disclosed no conflict of interest.*

Badhe, Ravindra Vijaykumar.....*Disclosed no conflict of interest.*

Bae, Hyun .....*1*: Biomet, DePuy, LDR Spine, Nuvasive, Prosidyan, Stryker, Zimmer; *2*: DePuy, LDR Spine, Medtronic, Nuvasive, Stryker, Zimmer; *3B*: Synthes, Zimmer; *4*: Medtronic, Stryker; *5*: Bioness, Isotis Orthobiologics, LDR Spine, Medtronic, Mesoblast, Relievan.

Bae, Hyun Cheol.....*Disclosed no conflict of interest.*

Baek, Dawoon.....*Disclosed no conflict of interest.*

Bahador, Mason .....*Disclosed no conflict of interest.*

Bahk, Ji Hoon .....*Disclosed no conflict of interest.*

Bahney, Chelsea S.....*9*: TERMIS.

Bahney, Chelsea S......*9*: ORS, TERMIS, OTA.

Bai, Yan.....*Disclosed no conflict of interest.*

Bailey, Jeannie.....*Disclosed no conflict of interest.*

Bailey, Jeannie F .....*4*: Bioniks, LLC.

Bailey, Jeannie F .....*4*: Stock Options with Bioniks, LLC.

Baillargeon, Emma.....*Disclosed no conflict of interest.*

Bain, Ryan A.....*Disclosed no conflict of interest.*

Baird, Samuel.....*Disclosed no conflict of interest.*

Baker, Breanne S.....*Disclosed no conflict of interest.*

Baker, Daniel .....*4*: GTX.

Baker, Erin .....*5*: Arthrex, Inc, DePuy, A Johnson & Johnson Company, Stryker, Synthes; *8*: Journal of Shoulder and Elbow Arthroplasty, Journal of the American Academy of Orthopaedic Surgeons; *9*: AAOS.

Baker, Jordan.....*Disclosed no conflict of interest.*

Bakker, Astrid Diana .....*Disclosed no conflict of interest.*

Balaji, Venkatesh .....*Disclosed no conflict of interest.*

Balasubramanian, Ravi .....*Disclosed no conflict of interest.*

Balayan, Vanshika.....*Disclosed no conflict of interest.*

Ball, Scott T.....*Disclosed no conflict of interest.*

Ban, Ga I .....*Disclosed no conflict of interest.*

Bandaralage, Harsha.....*Disclosed no conflict of interest.*

Bandi, Marc .....*3A*: Zimmer Biomet.

Bandi, Marc .....*3A*: Zimmer GMBH; *4*: Zimmer Biomet.

Bandyopadhyay, Amit .....*Disclosed no conflict of interest.*

Banim, Ronan .....*Disclosed no conflict of interest.*

Bankes, Marcus J.K. .....*4*: Fortius Clinic.

Bao, Xianchao.....*Disclosed no conflict of interest.*

Bao, Zhengyuan .....*Disclosed no conflict of interest.*

Baral, Elexis.....*Disclosed no conflict of interest.*

Barati, Danial.....*Disclosed no conflict of interest.*

Barba, Adriana.....*Disclosed no conflict of interest.*

Barba, Mark.....*Disclosed no conflict of interest.*

Bardonova, Liudmila A.....*Disclosed no conflict of interest.*

Bare, Aaron A......*Disclosed no conflict of interest.*

Bare, Topher.....*3A*: Arthrex, Inc.

Barg, Alexej.....*Disclosed no conflict of interest.*

Barkley, Morgan .....*Disclosed no conflict of interest.*

Barnagian, Derrick .....*Disclosed no conflict of interest.*

Barnes, C. Lowry .....*Disclosed no conflict of interest.*

Barnett, Samuel.....*Disclosed no conflict of interest.*

Barocas, Victor.....*Disclosed no conflict of interest.*

Baron, Roland .....*4*: Radius Health Inc.

Barp, Thayller W. .....*Disclosed no conflict of interest.*

Barragan Trejo, Analucia.....*Disclosed no conflict of interest.*

Barrett, Caitlin .....*Disclosed no conflict of interest.*

Barrett, Myra F. .....*Disclosed no conflict of interest.*

Barrett, Thomas.....*Disclosed no conflict of interest.*

Barrios-Rediles, Miriam .....*Disclosed no conflict of interest.*

Barron Villalobos, Efren .....*Disclosed no conflict of interest.*

Barron, Sarah.....*Disclosed no conflict of interest.*

Barros, Sebastiao.....*Disclosed no conflict of interest.*

Barrow, Brooke.....*Disclosed no conflict of interest.*

Bartell, Lena R.....*Disclosed no conflict of interest.*

Bartolo, Maria Kristina.....*3A*: Orthonika; *4*: Orthonika; *5*: Orthonika.

Bartolomei, Chris .....*Disclosed no conflict of interest.*

Bartolomei, Christopher .....*Disclosed no conflict of interest.*

Barton, Kristen.....*Disclosed no conflict of interest.*

Barton, R Shane .....*Disclosed no conflict of interest.*

Barton, R. Shane .....*Disclosed no conflict of interest.*

Basatvat, Shaghayegh.....*Disclosed no conflict of interest.*

Basgul, Cemile .....*Disclosed no conflict of interest.*

Basile, Eric.....*Disclosed no conflict of interest.*

Basoli, Valentina.....*Disclosed no conflict of interest.*

Basta-Pljakic, Jelena.....*Disclosed no conflict of interest.*

Bastiaansen-Jenniskens, Yvonne M……..*Disclosed no conflict of interest.*

Bastidas Coral, Angela P .....*Disclosed no conflict of interest.*

Bastin, Nikita .....*Disclosed no conflict of interest.*

Batchelor, Wyndham.....*Disclosed no conflict of interest.*

Bateman, Ted.....*Disclosed no conflict of interest.*

Bates, Peter .....*Disclosed no conflict of interest.*

Batko, Brian .....*Disclosed no conflict of interest.*

Batko, Brian D.....*Disclosed no conflict of interest.*

Battle, Lauren .....*Disclosed no conflict of interest.*

Batus, Marta.....*Disclosed no conflict of interest.*

Batushansky, Albert.....*Disclosed no conflict of interest.*

Baudo, Gherardo .....*Disclosed no conflict of interest.*

Bauer, Matthew A .....*Disclosed no conflict of interest.*

Bautista, Catherine A.....*Disclosed no conflict of interest.*

Baxter, Luke A.....*Disclosed no conflict of interest.*

Bayers-Thering, Mary .....*Disclosed no conflict of interest.*

Bayers-Thering, Mary T.....*Disclosed no conflict of interest.*

Baylon, Eva G.....*Disclosed no conflict of interest.*

Beall, Douglas.....*Disclosed no conflict of interest.*

Beals, Caitlyn .....*3A*: MedShape.

Beaudry, Diane .....*Disclosed no conflict of interest.*

Beaulieu, Melanie L .....*Disclosed no conflict of interest.*

Bechtold, Joan E......*3C*: SI Bone; *5*: Medtronic; *7B*: JBJS; *8*: JBJS; *9*: ASB.

Beck, Christopher A .....*Disclosed no conflict of interest.*

Beck, Christopher A. .....*Disclosed no conflict of interest.*

Beck, James .....*Disclosed no conflict of interest.*

Beck, James Peter .....*Disclosed no conflict of interest.*

Beck, Peter.....*Disclosed no conflict of interest.*

Beckman, Lorne .....*Disclosed no conflict of interest.*

Bedair, Hany .....*Disclosed no conflict of interest.*

Bedard, Nicholas A.....*3B*: DePuy; *8*: Journal of Arthroplasty; *9*: American Association of Hip and Knee Surgeons.

Bedard, Nicolas A.....*3B*: DePuy; *8*: Journal of Arthroplasty; *9*: American Association of Hip and Knee Surgeons.

Bedi, Meena.....*Disclosed no conflict of interest.*

Bedingfield, Sean K.....*Disclosed no conflict of interest.*

Begum, Laila .....*Disclosed no conflict of interest.*

Behrens, Phillip.....*Disclosed no conflict of interest.*

Beier, Frank.....*Disclosed no conflict of interest.*

Bejarano-Pineda, Lorena .....*Disclosed no conflict of interest.*

Bekki, Hirofumi.....*Disclosed no conflict of interest.*

Bell, Kevin M.....*Disclosed no conflict of interest.*

Bell, Rebecca.....*Disclosed no conflict of interest.*

Bell, Richard D .....*Disclosed no conflict of interest.*

Beltran, Luis S .....*Disclosed no conflict of interest.*

Benage, Lindsay G......*Disclosed no conflict of interest.*

Bendigo, Justin.....*3A*: Biorez.

Benes, Gregory .....*Disclosed no conflict of interest.*

Beneveia, Joseph .....*3A*: Co-founder of CreOsso, a company focused on bone healing adjuncts.

Benevenia, Joseph .....*Disclosed no conflict of interest.*

Beninatto, Riccardo .....*Disclosed no conflict of interest.*

Benn, Andreas .....*Disclosed no conflict of interest.*

Benneker, Lorin M .....*Disclosed no conflict of interest.*

Benneker, Lorin M. .....*Disclosed no conflict of interest.*

Bensadoun, Julian.....*Disclosed no conflict of interest.*

Bensusan, Jay.....*Disclosed no conflict of interest.*

Berger, Andrew.....*Disclosed no conflict of interest.*

Bergeron, Stephane.....*Disclosed no conflict of interest.*

Bergholt, Mads S.....*Disclosed no conflict of interest.*

Bergholt, Mads S......*Disclosed no conflict of interest.*

Bergman, Rachel F .....*Disclosed no conflict of interest.*

Berke, Ian M .....*Disclosed no conflict of interest.*

Berken, David .....*Disclosed no conflict of interest.*

Bernard, Fabrice .....*Disclosed no conflict of interest.*

Bernas, Geoffrey.....*Disclosed no conflict of interest.*

Berns, Ellis.....*Disclosed no conflict of interest.*

Berns, Ellis M .....*Disclosed no conflict of interest.*

Bernstein, Zachary.....*Disclosed no conflict of interest.*

Bernthal, Nicholas M .....*Disclosed no conflict of interest.*

Bernthal, Nicholas M. .....*3B*: Daiichi Sankyo Inc., Zimmer Biomet, ONKOS Surgical, Bone Support, Deciphera; *5*: Trellis Bioscience, Biocomposites.

Bertels, Josh.....*Disclosed no conflict of interest.*

Bertels, Joshua.....*Disclosed no conflict of interest.*

Bertrand, Fabrice .....*3A*: Blue Ortho.

Berube, Erin .....*Disclosed no conflict of interest.*

Besler, Bryce A .....*Disclosed no conflict of interest.*

Besler, Bryce A. .....*Disclosed no conflict of interest.*

Besschetnova, Tatiana .....*3A*: Radius Health Inc; *4*: Radius Health Inc.

Best, Benjamin.....*Disclosed no conflict of interest.*

Best, Katherine .....*Disclosed no conflict of interest.*

Best, Thomas M .....*Disclosed no conflict of interest.*

Betech, Alex.....*Disclosed no conflict of interest.*

Betsch, Kevin .....*Disclosed no conflict of interest.*

Beveridge, Jillian E. .....*Disclosed no conflict of interest.*

Bevins, Nicholas.....*Disclosed no conflict of interest.*

Bey, Michael J .....*Disclosed no conflict of interest.*

Beynnnon, Bruce D .....*Disclosed no conflict of interest.*

Beynnon, Bruce D .....*8*: Journal of Orthopaedic Research.

Beynnon, Bruce D. .....*Disclosed no conflict of interest.*

Bezold, Will.....*Disclosed no conflict of interest.*

Bhadouria, Neharika.....*Disclosed no conflict of interest.*

Bharadwaj, Upasana.....*Disclosed no conflict of interest.*

Bhatia, Sanjeev .....*Disclosed no conflict of interest.*

Bhattacharjee, Arjak.....*Disclosed no conflict of interest.*

Bhattacharjee, Sarah .....*Disclosed no conflict of interest.*

Bhattacharyya, Subha.....*3A*: mtf biologics; *6*: ConMed.

Bhattaram, Pallavi .....*Disclosed no conflict of interest.*

Bhave, Sampada .....*Disclosed no conflict of interest.*

Bhimani, Rohan .....*Disclosed no conflict of interest.*

Bhogal, Sumail .....*Disclosed no conflict of interest.*

Bhowmik-Stoker, Manoshi .....*3A*: Stryker; *4*: Stryker.

Bhowmik-Stoker, Manoshi .....*3A*: Stryker.

Bi, Yufei.....*Disclosed no conflict of interest.*

Bice, Ryan .....*Disclosed no conflict of interest.*

Bicknell, Ryan T.....*3B*: DePuy Synthes, Zimmer Biomet; *5*: Zimmer Biomet, ConMed Linvatec.

Biermann, J. Sybil.....*Disclosed no conflict of interest.*

Bijukumar, Divya.....*Disclosed no conflict of interest.*

Billi, Fabrizio .....*Disclosed no conflict of interest.*

Billings, Caroline .....*Disclosed no conflict of interest.*

Biltz, Nicole.....*Disclosed no conflict of interest.*

Binch, Abbie.....*Disclosed no conflict of interest.*

Binch, Abbie LA.....*Disclosed no conflict of interest.*

Bingham, Justin.....*3A*: DiscGenics; *4*: DiscGenics.

Birchmeier, Thomas.....*Disclosed no conflict of interest.*

Bird, Alyssa .....*Disclosed no conflict of interest.*

Birk, David E.....*Disclosed no conflict of interest.*

Birman, Victor.....*Disclosed no conflict of interest.*

Bisazza, Katie T .....*Disclosed no conflict of interest.*

Bischoff, Jeffrey E.....*3A*: Zimmer Biomet; *4*: Zimmer Biomet.

Bisson, Leslie.....*Disclosed no conflict of interest.*

Bisson, Leslie J. .....*Disclosed no conflict of interest.*

Bisson, Rian .....*Disclosed no conflict of interest.*

Bitar, Rogerio.....*Disclosed no conflict of interest.*

Bitter, Thom.....*Disclosed no conflict of interest.*

Blache, Ulrich.....*Disclosed no conflict of interest.*

Black, Marianne S .....*4*: Arbutus Medical.

Black, Marianne S .....*4*: Arbutus Medical Inc.

Black, Rebecca .....*Disclosed no conflict of interest.*

Blair, Matthew.....*Disclosed no conflict of interest.*

Blake, Ryan.....*Disclosed no conflict of interest.*

Blaker, Carina .....*Disclosed no conflict of interest.*

Blaker, Carina L.....*Disclosed no conflict of interest.*

Blank, Alan T.....*1*: exparel/pacira; *2*: Onkos Surgical; *5*: Swim Across America Cancer Research Grant.

Blank, Jonathan L.....*Disclosed no conflict of interest.*

Blank, Jonathon .....*Disclosed no conflict of interest.*

Blank, Kenneth .....*Disclosed no conflict of interest.*

Blatter, Iris.....*3A*: Zimmer GMBH; *4*: Zimmer Biomet.

Blomquist, Matthew B.....*Disclosed no conflict of interest.*

Bloomfield, Riley A .....*Disclosed no conflict of interest.*

Boden, Allison.....*Disclosed no conflict of interest.*

Boelter, Kaitlyn.....*Disclosed no conflict of interest.*

Boerckel, Joel D. .....*Disclosed no conflict of interest.*

Bogosian, Claire .....*Disclosed no conflict of interest.*

Bohner, Ariel.....*Disclosed no conflict of interest.*

Boinpally, Neha.....*Disclosed no conflict of interest.*

Bois, Aaron .....*Disclosed no conflict of interest.*

Boiwka, Alexander V.....*Disclosed no conflict of interest.*

Bolam, Scott M .....*Disclosed no conflict of interest.*

Bolia-Kavouklis, Ioanna.....*Disclosed no conflict of interest.*

Bolte, Julia .....*Disclosed no conflict of interest.*

Bomar, James .....*Disclosed no conflict of interest.*

Bonassar, Lawrence.....*4*: 3DBio Corp.

Bonassar, Lawrence.....*4*: 3DBio.

Bonassar, Lawrence J.....*3B*: 3DBio Corp.

Bonassar, Lawrence J.....*4*: 3D Bio Corp.

Bondy, Jedediah.....*Disclosed no conflict of interest.*

Bonnet, Cleo S.....*Disclosed no conflict of interest.*

Bonnheim, Noah B......*Disclosed no conflict of interest.*

Bonthius, Daniel .....*Disclosed no conflict of interest.*

Boone, Kyle.....*Disclosed no conflict of interest.*

Boorman, Sophie .....*Disclosed no conflict of interest.*

Boorman-Padgett, James.....*Disclosed no conflict of interest.*

Borjali, Alireza.....*Disclosed no conflict of interest.*

Born, Christopher .....*4*: BI Medical.

Born, Christopher .....*4*: BI Medical LLC.

Born, Christopher .....*3B*: Stryker; *3C*: BI Medical, Biointraface; *4*: BI Medical, Biointraface; *7A*: Stryker.

Born, Christopher T.....*3B*: Stryker Trauma.

Borowik, Agnieszka.....*Disclosed no conflict of interest.*

Borrero, Camilo.....*Disclosed no conflict of interest.*

Borst, Johanna .....*Disclosed no conflict of interest.*

Borukhov, Ilya.....*3A*: Stryker; *4*: Stryker.

Bosch, Patrick P .....*Disclosed no conflict of interest.*

Bose, Susmita .....*Disclosed no conflict of interest.*

Bostrom, Mathias .....*1*: Smith & Nephew; *3B*: Smith & Nephew; *5*: Smith & Nephew; *8*: HSS Journal, Journal of Orthopedic Research; *9*: American Austrian Foundation, Hip Society.

Bostrom, Mathias .....*3B*: Smith and Nephew; *5*: Smith and Nephew; *7A*: Smith and Nephew; *8*: HSS Journal, Journal of Orthopaedic Research; *9*: American Austrian Foundation, Hip Society.

Bostrom, Mathias P .....*3B*: Smith & Nephew; *5*: Smith & Nephew; *7A*: Smith & Nephew.

Bostrom, Mathias P .....*3B*: Smith & Nephew.

Bostrom, Mathias P.G......*3B*: Smith & Nephew.

Bostrom, Mathias PG.....*3B*: Smith & Nephew.

Bostrom, Matthias.....*1*: Smith and Nephew; *6*: Smith and Nephew, NIH, Ines Mandl Research Foundation.

Bou-Akl, Therese.....*Disclosed no conflict of interest.*

Bouchareychas, Laura.....*Disclosed no conflict of interest.*

Bourgine, Paul .....*Disclosed no conflict of interest.*

Bouz, Gabriel J .....*Disclosed no conflict of interest.*

Bovonratwet, Patawut.....*Disclosed no conflict of interest.*

Bowen, Edward.....*Disclosed no conflict of interest.*

Bowen, Stephen N .....*Disclosed no conflict of interest.*

Bowles, Robby .....*Disclosed no conflict of interest.*

Bowles, Robby D.....*Disclosed no conflict of interest.*

Bowman, Fred.....*3A*: MicroPort Orthopedics.

Bowman, Fred.....*3A*: Fred Bowman.

Box, Kasheena .....*Disclosed no conflict of interest.*

Boyan, Barbara .....*2*: Medtronic/Titan Spine; *3B*: Medtronic/Titan Spine; *3C*: Spineology Inc, Institut Straumann AG; *4*: SpherIngenics Inc; *5*: Medtronic/Titan Spine, Spineology Inc; *6*: Medtronic/TitanSpine, Institut Straumann AG, Musculoskeletal Transplant Foundation; *9*: SpherIngenic Inc.

Boyan, Barbara D.....*2*: Medtronic/TitanSpine; *3B*: Medtronic/TitanSpine; *3C*: Spineology Inc, Institut Straumann AG; *4*: Spheringenics Inc; *5*: Medtronic/TitanSpine, Spineology Inc; *6*: Medtronic/TitanSpine, Institut Straumann AG, MTF Biologics; *9*: Spheringenics Inc.

Boyce, Brendan F .....*Disclosed no conflict of interest.*

Boyd, Jonathan .....*Disclosed no conflict of interest.*

Boyd, Steven K.....*Disclosed no conflict of interest.*

Boyd, Steven K......*Disclosed no conflict of interest.*

Boyer, Philip .....*Disclosed no conflict of interest.*

Boyle, K Keely .....*Disclosed no conflict of interest.*

Boys, Alexander J.....*Disclosed no conflict of interest.*

Bozynski, Chantelle.....*Disclosed no conflict of interest.*

Bozynski, Chantelle C.....*Disclosed no conflict of interest.*

Bradley, Elizabeth .....*Disclosed no conflict of interest.*

Bradley, Elizabeth W.....*Disclosed no conflict of interest.*

Brady, Alex.....*Disclosed no conflict of interest.*

Brady, Alex W. .....*Disclosed no conflict of interest.*

Braender-Carr, Olivia .....*Disclosed no conflict of interest.*

Bragdon, Beth.....*Disclosed no conflict of interest.*

Brahmachary, Priyanka.....*Disclosed no conflict of interest.*

Braithwaite, Gavin.....*3A*: Cambridge Polymer Group; *4*: Cambridge Polymer Group.

Bral, Elexis .....*Disclosed no conflict of interest.*

Braly, Houston .....*Disclosed no conflict of interest.*

Branche, Katherine .....*Disclosed no conflict of interest.*

Brantner, Collin.....*Disclosed no conflict of interest.*

Brashear, Sarah E.....*Disclosed no conflict of interest.*

Breakwell, Lee .....*Disclosed no conflict of interest.*

Bredbenner, Todd L .....*Disclosed no conflict of interest.*

Brenner, Rolf E.....*Disclosed no conflict of interest.*

Brett, Owens D. .....*Disclosed no conflict of interest.*

Brewer, Erik .....*3B*: ReGelTec Inc; *4*: ReGelTec Inc; *5*: ReGelTec Inc; *6*: ReGelTec Inc.

Brisson, Becky K......*Disclosed no conflict of interest.*

Britton, Joshua.....*Disclosed no conflict of interest.*

Broberg, Jordan .....*Disclosed no conflict of interest.*

Broberg, Jordan S.....*Disclosed no conflict of interest.*

Brock, Marissa .....*Disclosed no conflict of interest.*

Brockbank, Kelvin .....*3A*: PAID EMPLOYEE of Tissue Testing Technologies LLC.

Brockett, Claire L.....*Disclosed no conflict of interest.*

Broderick, Kristen .....*Disclosed no conflict of interest.*

Brodeur, Peter .....*Disclosed no conflict of interest.*

Brokken, Matthew T. .....*Disclosed no conflict of interest.*

Brolinson, P Gunnar.....*Disclosed no conflict of interest.*

Bronstone, Amy .....*Disclosed no conflict of interest.*

Brooks, Jacob.....*Disclosed no conflict of interest.*

Brooks, Margaret.....*Disclosed no conflict of interest.*

Brooks, Myya.....*Disclosed no conflict of interest.*

Brophy, Robert .....*3B*: Arthrex, Sanofi.

Brophy, Robert H .....*8*: AJSM; *9*: AAOS, AOA, AOSSM.

Brothers, Kimberly M.....*Disclosed no conflict of interest.*

Brothers, Kimberly M......*Disclosed no conflict of interest.*

Brown, Alexander E. .....*Disclosed no conflict of interest.*

Brown, Brigid .....*Disclosed no conflict of interest.*

Brown, Edward .....*Disclosed no conflict of interest.*

Brown, Emma .....*Disclosed no conflict of interest.*

Brown, Kelsey .....*Disclosed no conflict of interest.*

Brown, Lauryn G .....*Disclosed no conflict of interest.*

Brown, Michael Ethan.....*Disclosed no conflict of interest.*

Brown, Roshawn.....*Disclosed no conflict of interest.*

Brown, Scot .....*Disclosed no conflict of interest.*

Brown, Stephen HM.....*Disclosed no conflict of interest.*

Brown, Symone.....*Disclosed no conflict of interest.*

Brown, Tammy .....*Disclosed no conflict of interest.*

Brown, Timothy S .....*8*: American Journal of Orthopedics, Journal of Arthroplasty; *9*: American Association of Hip and Knee Surgeons.

Brown, Timothy S .....*8*: Journal of Arthroplasty, American Journal of Orthopedics; *9*: American Association of Hip and Knee Surgeons.

Brown, Timothy S .....*8*: Journal of Arthroplasty; *9*: American Association of Hip and Knee Surgeons.

Brown, Tyler N .....*Disclosed no conflict of interest.*

Brown, Zachary.....*3A*: ReGelTec Inc; *6*: ReGelTec Inc.

Browne, Kevin D .....*Disclosed no conflict of interest.*

Browne, Shane.....*Disclosed no conflict of interest.*

Broz, Kaitlyn S.....*Disclosed no conflict of interest.*

Brozovich, Ava A.....*Disclosed no conflict of interest.*

Brubacher, Jacob .....*Disclosed no conflict of interest.*

Brusalis, Christopher M .....*Disclosed no conflict of interest.*

Bryant, John T.....*Disclosed no conflict of interest.*

Bryniarski, Anna.....*Disclosed no conflict of interest.*

Bryniarski, Anna R......*Disclosed no conflict of interest.*

Buchanan, Thomas S.....*Disclosed no conflict of interest.*

Buchanan, Thomas S......*Disclosed no conflict of interest.*

Buckley, Mark.....*Disclosed no conflict of interest.*

Buckley, Richard .....*Disclosed no conflict of interest.*

Buckley, Simon C.....*Disclosed no conflict of interest.*

Bucovsky, Mariana.....*Disclosed no conflict of interest.*

Budden, Theodore .....*Disclosed no conflict of interest.*

Bue, Mats.....*Disclosed no conflict of interest.*

Buettmann, Evan .....*Disclosed no conflict of interest.*

Buettmann, Evan G.....*Disclosed no conflict of interest.*

Buettner, Garry R.....*Disclosed no conflict of interest.*

Bugbee, William D. .....*3B*: JRF Ortho, Arthrex.

Bull, Anthony MJ.....*Disclosed no conflict of interest.*

Bullen, Jennifer.....*Disclosed no conflict of interest.*

Bumgardner, Joel D.....*1*: Bionova Medical Inc.; *5*: Austin Medical Ventures, Triad Life Sciences; *7B*: Elsevier; *8*: Journal of Biomedical Materials Research Part B; *9*: Society for Biomaterials.

Bumgardner, Joel D. .....*1*: Bionova Medical Inc; *5*: Austin Medical Ventures, Triad Life Sciences; *7B*: Elsevier; *8*: Journal of Biomedical Materials Research Part B.; *9*: Society for Biomaterials.

Bunnell, Bruce.....*Disclosed no conflict of interest.*

Bunnell, Bruce A .....*Disclosed no conflict of interest.*

Bunnell, Bruce A. .....*Disclosed no conflict of interest.*

Burdick, Jason.....*Disclosed no conflict of interest.*

Burdick, Jason A.....*Disclosed no conflict of interest.*

Burge, Alissa J. .....*Disclosed no conflict of interest.*

Burger-Van Der Walt, Evalina ...*Disclosed no conflict of interest.*

Burkhead, Katie .....*3A*: DePuy Synthes.

Burkus, John Kenneth .....*3B*: VIVEX Biologics Inc.

Burns, David M. .....*4*: Halterix.

Bursac, Zoran.....*Disclosed no conflict of interest.*

Burt, Kevin .....*Disclosed no conflict of interest.*

Burt, Kevin G.....*Disclosed no conflict of interest.*

Burton, Bryce.....*Disclosed no conflict of interest.*

Burton, William.....*Disclosed no conflict of interest.*

Bush, Ashley .....*Disclosed no conflict of interest.*

Bushelow, Michael.....*3A*: DePuy Synthes; *4*: Johnson & Johnson.

Butler, Samuel C. .....*Disclosed no conflict of interest.*

Butsenko, Dmitriy.....*Disclosed no conflict of interest.*

Buttgereit, Frank.....*Disclosed no conflict of interest.*

Buys, Willem.....*Disclosed no conflict of interest.*

Bydon, Mohamad .....*Disclosed no conflict of interest.*

Bylski-Austrow, Donita I .....*9*: Scoliosis Research Society, Orthopaedic Research Society.

Byrapogu, Venkata .....*Disclosed no conflict of interest.*

Byrapogu, Venkata Kalyan C.....*Disclosed no conflict of interest.*

Byrne, Kevin.....*Disclosed no conflict of interest.*

Byvaltsev, Vadim A .....*Disclosed no conflict of interest.*

Caballero, José de E .....*Disclosed no conflict of interest.*

Caceres, Manuel D .....*Disclosed no conflict of interest.*

Cafri, Guy .....*3A*: Johnson & Johnson; *4*: ABBVIE, BRISTOL-MYERS SQUIBB, GILEAD SCIENCES, GLAXOSMITHKLINE.

Cahill, Patrick J.....*Disclosed no conflict of interest.*

Cai, Lei .....*Disclosed no conflict of interest.*

Cai, Xiaoyu .....*Disclosed no conflict of interest.*

Cai, Zhuochang .....*Disclosed no conflict of interest.*

Caicedo, Marco S. .....*3A*: Orthopedic Analysis LLC.

Cain, Jarrett D. .....*3B*: CareStream Health, Kinos Medical; *8*: Journal of Foot & Ankle Surgery.

Caird, Michelle S. .....*Disclosed no conflict of interest.*

Caisley, Allyson B .....*Disclosed no conflict of interest.*

Caldwell, Christopher.....*Disclosed no conflict of interest.*

Caldwell, Lauren .....*Disclosed no conflict of interest.*

Call, Jarrod .....*Disclosed no conflict of interest.*

Callon, Karen E.....*Disclosed no conflict of interest.*

Cameron, Emily G .....*Disclosed no conflict of interest.*

Cameron, James.....*Disclosed no conflict of interest.*

Caminha, Ieda M.V. .....*Disclosed no conflict of interest.*

Cammisa, Frank .....*Disclosed no conflict of interest.*

Cammisa, Frank P .....*Disclosed no conflict of interest.*

Campagne, Mikayla .....*Disclosed no conflict of interest.*

Campbell, Lia .....*3A*: PAID EMPLOYEE of Tissue Testing Technologies LLC.

Can, Nejat Yigit .....*Disclosed no conflict of interest.*

Cannada, Lisa K .....*Disclosed no conflict of interest.*

Cannon, Paul.....*Disclosed no conflict of interest.*

Canton, Stephen .....*Disclosed no conflict of interest.*

Cao, Can.....*Disclosed no conflict of interest.*

Cao, Wentao .....*Disclosed no conflict of interest.*

Cao, Xu.....*Disclosed no conflict of interest.*

Capar, Serdar .....*Disclosed no conflict of interest.*

Capin, Jacob J.....*Disclosed no conflict of interest.*

Capogna, Elizabeth .....*Disclosed no conflict of interest.*

Cappellini, Alex .....*Disclosed no conflict of interest.*

Cappellini, Alex J. .....*Disclosed no conflict of interest.*

Carballo, Camila B.....*Disclosed no conflict of interest.*

Carbone, Andrew.....*Disclosed no conflict of interest.*

Carder, Seth .....*Disclosed no conflict of interest.*

Cardona-Ramirez, Sebastian .....*Disclosed no conflict of interest.*

Carender, Christopher N .....*8*: Journal of Arthroplasty, Iowa Orthopedic Journal.

Carender, Christopher N .....*8*: Journal of Arthroplasty.

Carey, James L.....*3C*: Vericel.

Carey, James L.....*3C*: Vericel; *5*: Vericel; *8*: AJSM.

Carli, Alberto.....*3B*: KCI.

Carli, Alberto V .....*3B*: KCI.

CarlLee, Tyler .....*Disclosed no conflict of interest.*

Carlson, Cathy S .....*Disclosed no conflict of interest.*

Carlson, Cathy S. .....*Disclosed no conflict of interest.*

Carlson, Greg .....*Disclosed no conflict of interest.*

Carlson, Jaclyn A .....*Disclosed no conflict of interest.*

Carniel, Thiago Andre .....*Disclosed no conflict of interest.*

Carpenter, Dana.....*5*: Applied Medical Technology, Inc.

Carriero, Alessandra .....*Disclosed no conflict of interest.*

Carrino, John.....*Disclosed no conflict of interest.*

Carroll, Colin .....*Disclosed no conflict of interest.*

Carroll, Kaitlin M.....*Disclosed no conflict of interest.*

Carroll, Sean K.....*Disclosed no conflict of interest.*

Carswell, Tess .....*Disclosed no conflict of interest.*

Carter, Andrew .....*3B*: Biorez.

Carter, Jennifer .....*Disclosed no conflict of interest.*

Casagranda, Bethany .....*Disclosed no conflict of interest.*

Casal, Margret .....*Disclosed no conflict of interest.*

Cascia, Nicole.....*Disclosed no conflict of interest.*

Casden, Michael.....*Disclosed no conflict of interest.*

Casebier, Justin C. .....*Disclosed no conflict of interest.*

Castellon, Alexis.....*Disclosed no conflict of interest.*

Castile, Ryan .....*Disclosed no conflict of interest.*

Castile, Ryan M .....*Disclosed no conflict of interest.*

Castillo, Francine.....*Disclosed no conflict of interest.*

Castillo, Wilfrido Javier .....*Disclosed no conflict of interest.*

Catelli, Danilo S.....*Disclosed no conflict of interest.*

Cates, Harold .....*1*: Smith & Nephew royalties; *2*: Smith & Nephew; *3B*: Smith & Nephew; *4*: Smith & Nephew, ZimmerBiomet.

Cauble, Meagan A......*Disclosed no conflict of interest.*

Causey, Greg C .....*3B*: Applied Medical Technology, Inc.

Cederna, Paul S.....*Disclosed no conflict of interest.*

Cegla, Frederic .....*Disclosed no conflict of interest.*

Cercone, Marta.....*Disclosed no conflict of interest.*

Cesarovic, Nikola .....*Disclosed no conflict of interest.*

Cevallos, Nicolas .....*Disclosed no conflict of interest.*

Cha, Thomas .....*3B*: Bio2, GE Healthcare, K2M.; *5*: K2M, Nuvasive.

Cha, Thomas .....*3B*: Bio2, GE Healthcare, K2M; *5*: K2M, Nuvasive.

Cha, Thomas .....*3B*: Bio 2, GE Healthcare, K2M; *5*: K2M, Nuvasive.

Chae, Sudong.....*Disclosed no conflict of interest.*

Chahine, Nadeen .....*Disclosed no conflict of interest.*

Chahine, Nadeen O.....*Disclosed no conflict of interest.*

Chahine, Nadeen O......*Disclosed no conflict of interest.*

Chahla, Jorge .....*5*: CONMED Linvatec, OSSUR and Smith & Nephew.

Chahla, Jorge .....*3B*: Arthrex, Inc, CONMED Linvatec, Ossur, Smith & Nephew; *9*: American Orthopaedic Society for Sports Medicine, Arthroscopy Association of North America, International Society of Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine.

Chahla, Jorge .....*5*: Össur, Arthrex, CONMED, and Smith & Nephew.

Chakka, Anish B .....*Disclosed no conflict of interest.*

Chakraborty, Debabrata .....*Disclosed no conflict of interest.*

Chalmers, Brian.....*Disclosed no conflict of interest.*

Chamberlain, Aaron.....*2*: DePuy Synthes Mitek, Arthrex; *3B*: DePuy Synthes Mitek; *5*: Zimmer Biomet.

Chamberlain, Aaron M.....*Disclosed no conflict of interest.*

Chambre, Laura.....*Disclosed no conflict of interest.*

Chan, Calvin .....*Disclosed no conflict of interest.*

Chan, Calvin K .....*Disclosed no conflict of interest.*

Chan, Kang.....*Disclosed no conflict of interest.*

Chan, Kiara.....*Disclosed no conflict of interest.*

Chan, Kiara M .....*Disclosed no conflict of interest.*

Chan, Stephen.....*Disclosed no conflict of interest.*

Chan, Yu Kiu Victor .....*Disclosed no conflict of interest.*

Chancellor, Ann .....*Disclosed no conflict of interest.*

Chanda, Souptick.....*Disclosed no conflict of interest.*

Chandran, Uma.....*Disclosed no conflict of interest.*

Chandrasekaran, Ramya .....*Disclosed no conflict of interest.*

Chang, Douglas .....*Disclosed no conflict of interest.*

Chang, Iou-Ren .....*Disclosed no conflict of interest.*

Chang, Je-Ken .....*Disclosed no conflict of interest.*

Chang, Ling-Hua.....*Disclosed no conflict of interest.*

Chang, Peter S.....*Disclosed no conflict of interest.*

Chang, Solomon.....*Disclosed no conflict of interest.*

Chao, Richard.....*Disclosed no conflict of interest.*

Chapman, Graham J.....*Disclosed no conflict of interest.*

Chapman, Ryan M.....*Disclosed no conflict of interest.*

Chapman, Savita .....*3A*: MedShape.

Chapple, Andrew .....*Disclosed no conflict of interest.*

Chapple, Andrew G .....*Disclosed no conflict of interest.*

Charbonneau, Cherie .....*Disclosed no conflict of interest.*

Charles, Shaquille .....*Disclosed no conflict of interest.*

Chase, Kayla L. .....*Disclosed no conflict of interest.*

Chase, Kevin .....*Disclosed no conflict of interest.*

Chastain II, Paul .....*Disclosed no conflict of interest.*

Chatterjee, Monideepa.....*Disclosed no conflict of interest.*

Chatterji, Rishi .....*Disclosed no conflict of interest.*

Chatzistavrou, Xanthippi.....*Disclosed no conflict of interest.*

Chaudhari, Abhijit J.....*Disclosed no conflict of interest.*

Chaudhari, Akshay.....*3A*: SkopeMR, Inc, Subtle Medical, Chondrometrics GmbH, Image Analysis Group, Edge Analytics, Culvert Engineering; *3B*: Subtle Medical, LVIS, Brain Key; *4*: Subtle Medical; *5*: GE Healthcare.

Chaudhari, Akshay S .....*3A*: Skope MR Inc., Subtle Medical, Chondrometrics GmbH, Image Analysis Group, Edge Analytics, Culvert Engineering; *3B*: Subtle Medical, LVIS, Brain Key; *4*: Subtle Medical; *5*: GE Healthcare.

Chaudhuri, Soumilee.....*Disclosed no conflict of interest.*

Chausse, Daniel L .....*Disclosed no conflict of interest.*

Chauvin, Hannah.....*Disclosed no conflict of interest.*

Chawla, Dipul.....*Disclosed no conflict of interest.*

Checa, Sara .....*Disclosed no conflict of interest.*

Chee, Ana.....*Disclosed no conflict of interest.*

Chen, Aaron Z. .....*Disclosed no conflict of interest.*

Chen, Angel.....*Disclosed no conflict of interest.*

Chen, An-min .....*Disclosed no conflict of interest.*

Chen, Antonia .....*3B*: Stryker.

Chen, Changhong.....*Disclosed no conflict of interest.*

Chen, Christopher.....*Disclosed no conflict of interest.*

Chen, Chung-Hwan .....*Disclosed no conflict of interest.*

Chen, Daoyun .....*Disclosed no conflict of interest.*

Chen, David.....*Disclosed no conflict of interest.*

Chen, Elizabeth S. .....*Disclosed no conflict of interest.*

Chen, Hsin Huei.....*Disclosed no conflict of interest.*

Chen, Jhen-Wei.....*Disclosed no conflict of interest.*

Chen, Ji .....*3A*: University of Houston.

Chen, Ji .....*3B*: Ji Chen.

Chen, Jie.....*Disclosed no conflict of interest.*

Chen, Junyu .....*Disclosed no conflict of interest.*

Chen, Keren .....*Disclosed no conflict of interest.*

Chen, Liang .....*Disclosed no conflict of interest.*

Chen, Matthew.....*Disclosed no conflict of interest.*

Chen, Meng.....*Disclosed no conflict of interest.*

Chen, Ningrong.....*Disclosed no conflict of interest.*

Chen, Peng.....*Disclosed no conflict of interest.*

Chen, Qian .....*Disclosed no conflict of interest.*

Chen, Raymond E.....*Disclosed no conflict of interest.*

Chen, Roy J.....*Disclosed no conflict of interest.*

Chen, Shih-Chieh.....*Disclosed no conflict of interest.*

Chen, Stephen R.....*Disclosed no conflict of interest.*

Chen, Stephen R. .....*Disclosed no conflict of interest.*

Chen, Ting.....*Disclosed no conflict of interest.*

Chen, Tony.....*Disclosed no conflict of interest.*

Chen, Wei Cheng.....*Disclosed no conflict of interest.*

Chen, Weitong .....*Disclosed no conflict of interest.*

Chen, Xiang.....*Disclosed no conflict of interest.*

Chen, Yicong .....*Disclosed no conflict of interest.*

Chen, Yinwei.....*Disclosed no conflict of interest.*

Chen, Yumei.....*Disclosed no conflict of interest.*

Chen, Zhen.....*3A*: PAID EMPLOYEE of Tissue Testing Technologies LLC.

Cheng, Alexandre.....*Disclosed no conflict of interest.*

Cheng, Christina W .....*Disclosed no conflict of interest.*

Cheng, Haizi .....*Disclosed no conflict of interest.*

Cheng, Huan .....*Disclosed no conflict of interest.*

Cheng, Jack Chun-Yiu .....*Disclosed no conflict of interest.*

Cheng, Jack CY .....*Disclosed no conflict of interest.*

Cheng, Kai-yuan.....*7A*: MicroPort Orthopedic Inc.

Cheng, Mei-Hsin.....*Disclosed no conflict of interest.*

Cheng, Zhiliang .....*Disclosed no conflict of interest.*

Chenoweth, David .....*Disclosed no conflict of interest.*

Chenshuang, Li.....*Disclosed no conflict of interest.*

Cherief, Masnsen .....*Disclosed no conflict of interest.*

Cherif, Hosni .....*Disclosed no conflict of interest.*

Chesnais, Helene.....*Disclosed no conflict of interest.*

Cheung, Ambrose L.....*Disclosed no conflict of interest.*

Cheung, Carrie .....*Disclosed no conflict of interest.*

Cheung, Kenneth .....*Disclosed no conflict of interest.*

Cheung, Wing Hoi .....*Disclosed no conflict of interest.*

Cheung, Wing-hoi .....*Disclosed no conflict of interest.*

Chevalier, Jacqueline .....*Disclosed no conflict of interest.*

Chevrier, Anik .....*4*: Ortho Regenerative Technologies Inc.

Chhabra, Avneesh.....*Disclosed no conflict of interest.*

Chi, Ruimin .....*Disclosed no conflict of interest.*

Chi, Sheng-Wei.....*Disclosed no conflict of interest.*

Chiapparelli, Erika.....*Disclosed no conflict of interest.*

Chiapparelli, Erika A.....*Disclosed no conflict of interest.*

Chiba, Kazuhiro.....*Disclosed no conflict of interest.*

Chicco, Adam .....*Disclosed no conflict of interest.*

Chida, Shuya .....*Disclosed no conflict of interest.*

Chieh Hsu, Yung .....*Disclosed no conflict of interest.*

Chijimatsu, Ryota.....*Disclosed no conflict of interest.*

Childs, Hannah R.....*Disclosed no conflict of interest.*

Chimento, George.....*Disclosed no conflict of interest.*

Chin, Cynthia.....*Disclosed no conflict of interest.*

Chin, Cynthia T.....*Disclosed no conflict of interest.*

Chin, Joseph.....*Disclosed no conflict of interest.*

Chines, Arkadi.....*3A*: AC is employed by Amgen Inc.; *4*: AC holds stocks with Amgen Inc.

Chionuma, Henry N.....*Disclosed no conflict of interest.*

Chirokikh, Alexander .....*Disclosed no conflict of interest.*

Chisari, Emanuele .....*Disclosed no conflict of interest.*

Chiverton, Neil.....*Disclosed no conflict of interest.*

Chlebek, Carolyn.....*Disclosed no conflict of interest.*

Cho, Ho Jung.....*Disclosed no conflict of interest.*

Cho, Samuel K.....*Disclosed no conflict of interest.*

Cho, Sankyun .....*Disclosed no conflict of interest.*

Choe, Hyonmin .....*Disclosed no conflict of interest.*

Choi, Aaron.....*Disclosed no conflict of interest.*

Choi, Jae Hyuk.....*Disclosed no conflict of interest.*

Choi, Jae-Young .....*Disclosed no conflict of interest.*

Choi, Jong Hyun .....*Disclosed no conflict of interest.*

Choi, Keun Young.....*Disclosed no conflict of interest.*

Choi, Stephen.....*Disclosed no conflict of interest.*

Choi, Yongwon.....*Disclosed no conflict of interest.*

Choi, Yoonjung.....*Disclosed no conflict of interest.*

Choi, Yun-rak .....*Disclosed no conflict of interest.*

Choma, Nicholas .....*Disclosed no conflict of interest.*

Choma, Theodore .....*4*: Gentis, Inc.; *9*: AO Spine NA, North American Spine Society, Scoliosis Research Society.

Choma, Theodore J .....*4*: Gentis, Inc.; *9*: AO Spine North America, North American Spine Society, Scoliosis Research Society.

Chopra, Ahab.....*Disclosed no conflict of interest.*

Chou, Liang-Yin.....*Disclosed no conflict of interest.*

Chou, Ya-Shuan.....*Disclosed no conflict of interest.*

Choueka, Jack .....*Disclosed no conflict of interest.*

Chow, Kwoon-ho .....*Disclosed no conflict of interest.*

Chow, Lyndah .....*Disclosed no conflict of interest.*

Chow, Simon Kwoon Ho .....*Disclosed no conflict of interest.*

Chow, Simon Kwoon-ho.....*Disclosed no conflict of interest.*

Chowdhury, Adiba .....*3A*: MTF Biologics; *6*: OrthoFix Medical, Inc.

Chowdhury, Naisha.....*Disclosed no conflict of interest.*

Christ, George .....*Disclosed no conflict of interest.*

Christensen, Kyle .....*3A*: Embody Inc; *4*: Embody Inc.

Christiansen, Blaine A .....*Disclosed no conflict of interest.*

Christolias, George.....*Disclosed no conflict of interest.*

Christou, Chris .....*Disclosed no conflict of interest.*

Chu, Alice.....*Disclosed no conflict of interest.*

Chu, Constance .....*Disclosed no conflict of interest.*

Chu, Constance R .....*Disclosed no conflict of interest.*

Chuang, Shu-Chun.....*Disclosed no conflict of interest.*

Chubinskaya, Susan .....*Disclosed no conflict of interest.*

Chubinskaya, Susanna .....*5*: Jointechlabs, Inc, Novartis Institute for Functional Genomics; *9*: President - Orthopaedic Research Society.

Chubinskaya, Susanna .....*5*: Jointech Labs, Novartis; *9*: AAMC, ICRS, ORS, OsteoArthritis Research Society International.

Chung, Rebecca.....*Disclosed no conflict of interest.*

Cinelli, Paolo.....*Disclosed no conflict of interest.*

Cisneros, Karla .....*Disclosed no conflict of interest.*

Clanton, Thomas O .....*1*: Arthrex, Inc., Stryker; *2*: Arthrex, Inc., Stryker; *3B*: Arthrex, Inc., Stryker; *3C*: Wright Medical Technology, Inc.; *5*: Arthrex, Inc.; *6*: Arthrex, Inc., DJO, MLB, Ossur, Siemens, Smith & Nephew, XTRE.

Clapp, Ian M.....*Disclosed no conflict of interest.*

Clark, Andrea .....*Disclosed no conflict of interest.*

Clark, Daniel.....*Disclosed no conflict of interest.*

Clark, Karen L.....*Disclosed no conflict of interest.*

Clarke, Amelia.....*Disclosed no conflict of interest.*

Clarke, Elizabeth .....*Disclosed no conflict of interest.*

Clarke, Elizabeth C .....*5*: Bone Ligament Tendon.

Clarkson, Samuel .....*Disclosed no conflict of interest.*

Clary, Chadd.....*5*: Depuy Synthes.

Clary, Chadd W .....*5*: Depuy Synthes.

Clauw, Daniel.....*3C*: Pfizer, Forest, Eli Lilly, Pierre Fabre, Cypress Biosciences, Wyeth, UCB, Astra Zeneca, Merck, J & J, Nuvo, Jazz, Abbott, Cerephex, Iroko, Tonix, Theravance, IMC, Zynerba, Sammumed, Astellas, Aptinyx.; *5*: Pfizer, Cypress Biosciences, Forest, Merck, Nuvo, Cerephex.

Clayton, Ahsia.....*Disclosed no conflict of interest.*

Clayton, Bishir.....*Disclosed no conflict of interest.*

Clayton, Sade W.....*Disclosed no conflict of interest.*

Clemens, Thomas.....*8*: Editor-in-chief, Bone Research.

Clinton, Kailey.....*Disclosed no conflict of interest.*

Clohisy, John C.....*3B*: Microport Orthopedics, Inc., Zimmer; *5*: Zimmer; *7A*: Microport; *7B*: Wolters Kluwer Health-Lippincott Williams & Wilkins.

Clohisy, John C.....*3B*: Microport Orthopedics, Inc., Zimmer; *5*: Zimmer; *7A*: Microport; *7B*: Wolters Kluwer Health - Lippincott Williams & Wilkins.

Clohisy, John C. .....*Disclosed no conflict of interest.*

Co, Megan.....*Disclosed no conflict of interest.*

Coathup, Melanie .....*Disclosed no conflict of interest.*

Coathup, Melanie J .....*Disclosed no conflict of interest.*

Coats-Thomas, Margaret .....*Disclosed no conflict of interest.*

Cobb, Justin .....*Disclosed no conflict of interest.*

Cobb, Justin P. .....*3A*: Embody; *4*: Embody.

Cobelli, Neil J .....*Disclosed no conflict of interest.*

Coda, Reed.....*Disclosed no conflict of interest.*

Coen, MD, Paul .....*Disclosed no conflict of interest.*

Coenen, Michael.....*Disclosed no conflict of interest.*

Coenen, Michael J.....*Disclosed no conflict of interest.*

Coghlan, Ryan.....*Disclosed no conflict of interest.*

Cohen, David.....*3B*: SpherIngenics Inc; *5*: SpherIngenics Inc; *8*: Pre-clinical Research Committee, Orthopaedic Research Society.

Cohen, Eric M.....*Disclosed no conflict of interest.*

Cohen, Itai .....*Disclosed no conflict of interest.*

Cohen, Landon E .....*Disclosed no conflict of interest.*

Cohen, Landone E .....*Disclosed no conflict of interest.*

Cohen, Samuel A.....*Disclosed no conflict of interest.*

Cohen, Sarah C.....*Disclosed no conflict of interest.*

Cohen-Levy, Wayne .....*Disclosed no conflict of interest.*

Cohn, Dan .....*Disclosed no conflict of interest.*

Colak, Ceylan .....*Disclosed no conflict of interest.*

Colazo, Juan M.....*Disclosed no conflict of interest.*

Colditz, Graham A.....*Disclosed no conflict of interest.*

Cole, Ashley .....*Disclosed no conflict of interest.*

Cole, Brian .....*3B*: Arthrex, Inc; *4*: Bandgrip Inc, Regentis; *5*: Aesculap/B.Braun, Arthrex, Inc, Regentis; *7A*: Arthrex, Inc; *7B*: Athletico, Elsevier Publishing, Smith & Nephew; *8*: American Journal of Orthopedics, American Journal of Sports Medicine, Cartilage; *9*: Arthroscopy Association of North America.

Cole, Brian J .....*1*: Arthrex Inc, Operative Techniques in Sports Medicine, Elsevier Publishing; *3B*: Arthrex Inc; *4*: Bandigrip Inc, Ossio, Regentis; *5*: Aesculap/B.Braun, Arthrex Inc, NIH, Regentis; *6*: Athletico, JRF Ortho, Operative Techniques in Sports Medicine, Smith&Nephew; *7A*: , Arthrex Inc; *7B*: , Elsevier, Operative Techniques in Sports Medicine; *8*: , American Journal of Orthopedics, AJSM, Cartilage, JSES, JAAOS; *9*: , AANA, ICRS.

Cole, Ross Frederick.....*Disclosed no conflict of interest.*

Coleman, Brendan .....*Disclosed no conflict of interest.*

Coleman, Emily .....*Disclosed no conflict of interest.*

Coleman, Mitchell C.....*Disclosed no conflict of interest.*

Coleman, Rhima.....*Disclosed no conflict of interest.*

Collier, Christopher D.....*Disclosed no conflict of interest.*

Collins, Amber .....*Disclosed no conflict of interest.*

Collins, Amber T.....*Disclosed no conflict of interest.*

Collins, Caitlyn. J .....*Disclosed no conflict of interest.*

Collins, Jamie E .....*Disclosed no conflict of interest.*

Collins, Katherine A.....*Disclosed no conflict of interest.*

Collins, Kelsey .....*Disclosed no conflict of interest.*

Collins, Kelsey H.....*Disclosed no conflict of interest.*

Collins, Kelsey H......*Disclosed no conflict of interest.*

Collins, Lacee .....*Disclosed no conflict of interest.*

Collins, Shannon .....*3A*: Stryker.

Collins, Simon .....*3A*: MatOrtho Ltd.

Colman, Matthew.....*1*: Alphatec Spine, Spinal Elements; *2*: AO Spine North America; *3B*: DePuy, A Johnson & Johnson Company, K2M, Orthofix, Inc; *5*: CSRS.

Columbus, Melanie.....*Disclosed no conflict of interest.*

Comer, Brendan.....*Disclosed no conflict of interest.*

Como, Christopher.....*Disclosed no conflict of interest.*

Como, Christopher J......*Disclosed no conflict of interest.*

Compton, Robert .....*3A*: dba Cornerloc; *4*: dba Cornerloc.

Compton, Tyler .....*Disclosed no conflict of interest.*

Condello, Vincenzo .....*3B*: Active Implants LLC, 6060 Primacy Parkway, Suite 460, Memphis, TN, USA.

Conditt, Michael .....*3A*: OrthoSensor, Inc.

Condron, Nolan.....*Disclosed no conflict of interest.*

Cone, Stephanie G .....*Disclosed no conflict of interest.*

Conley, Caitlin EW.....*Disclosed no conflict of interest.*

Conley, Caitlin E-W .....*9*: International Cartilage Regeneration and Joint Preservation Society Patient Registry.

Connaughton, Alexander.....*Disclosed no conflict of interest.*

Connizzo, Brianne K.....*Disclosed no conflict of interest.*

Connizzo, Brianne K. .....*Disclosed no conflict of interest.*

Contag, Christopher.....*4*: BioEclipse, EXOForce, PixelGear; *5*: Gladiator Pharma; *7A*: Stanford Patents licensed to BioEclipse.

Conteh, Etta.....*Disclosed no conflict of interest.*

Contreras, Marcos Emilio Kuschnaroff *Disclosed no conflict of interest.*

Conway, Sheila .....*Disclosed no conflict of interest.*

Cook, Cristi R.....*1*: Arthrex, CONMED Linvatec, Musculoskeletal Transplant Foundation; *2*: Arthrex, CONMED Linvatec, Musculoskeletal Transplant Foundation; *3B*: Arthrex, Inc, CONMED Linvatec; *5*: Arthrex, Inc, Zimmer.

Cook, Harold A.....*Disclosed no conflict of interest.*

Cook, James .....*1*: Arthrex, Inc., Musculoskeletal Transplant Foundation, AthleteIQ; *2*: Arthrex, Inc.; *3B*: Artelon, Arthrex, Inc., Eli Lilly, Schwartz Biomedical, CONMED Linvatec, Trupanion; *5*: Arthrex, Inc., ConforMIS, Coulter Foundation, DePuy Synthes, Eli Lilly, , Merial, Musculoskeletal Transplant Foundation, National Institutes of Health, Purina, U.S. Department of Defense, Zimmer-Biomet, Sites Medical, TissueGen Inc.; *7B*: , Thieme; *8*: , Journal of Knee Surgery; *9*: , Midwest Transplant Network, Musculoskeletal Transplant Foundation.

Cook, James L.....*1*: Arthrex, AthleteIQ, Musculoskeletal Transplant Foundation; *2*: Arthrex; *3B*: Artelon, Arthrex, CONMED Linvatec, Eli Lilly, Schwartz Biomedical, Trupanion; *5*: Arthrex, Inc, ConforMIS, Coulter Foundation, DePuy, A Johnson & Johnson Company, Eli Lilly, , Merial, Musculoskeletal Transplant Foundation, National Institutes of Health, Purina, Sites Medical, TissueGen Inc., U.S. Department of Defense; *7B*: , Thieme; *8*: , Journal of Knee Surgery; *9*: , Midwest Transplant Network, Musculoskeletal Transplant Foundation.

Cooley, Marion .....*Disclosed no conflict of interest.*

Coombs, Dana J.....*3A*: DePuy Synthes; *4*: Johnson & Johnson.

Coon, Allison T .....*Disclosed no conflict of interest.*

Coon, Craig N .....*5*: Lonza Ltd.

Coon, Matthew.....*Disclosed no conflict of interest.*

Cooper, Benjamin G.....*3A*: Articulate Biosciences.

Cooper, H. John.....*1*: Corin U.S.A; *2*: KCI; *3B*: Corin U.S.A; KCI Medical Canada Inc; KCI USA Inc; Zimmer Biomet; *5*: KCI; *8*: JOA, JBJS - America; *9*: AAOS.

Cooper, Herbert J......*Disclosed no conflict of interest.*

Cooper, Joe.....*Disclosed no conflict of interest.*

Cooper, Vaughn .....*Disclosed no conflict of interest.*

Coplan, Paul.....*3A*: Johnson & Johnson; *4*: Johnson & Johnson.

Copp, Michaela E .....*Disclosed no conflict of interest.*

Coppock, James Avery .....*Disclosed no conflict of interest.*

Coppolecchia, Andrea B .....*3A*: Stryker; *4*: Stryker.

Cordle, Andrew.....*Disclosed no conflict of interest.*

Coric, Domagoj .....*Disclosed no conflict of interest.*

Corlett, Molly A.....*Disclosed no conflict of interest.*

Cormier, Aidan G .....*Disclosed no conflict of interest.*

Cornish, Jillian.....*Disclosed no conflict of interest.*

Cornwall, Roger .....*7B*: Oakstone Publishing; *9*: ORS, ASSH.

Correa, Diego.....*3B*: Lipogems USA, LLC.

Cotney, Justin .....*Disclosed no conflict of interest.*

Cotter, Brendan .....*Disclosed no conflict of interest.*

Cotter, Eric J......*Disclosed no conflict of interest.*

Cottrell, Jessica .....*Disclosed no conflict of interest.*

Coughenour, Kelly.....*3A*: Embody Inc; *4*: Embody Inc.

Coulombe, Jennifer C.....*Disclosed no conflict of interest.*

Coultrup, Oliver .....*3A*: DePuy Synthes.

Courtis, Pat .....*3A*: Depuy Synthes.

Courtis, Pat .....*3B*: Depuy Synthes.

Cowman, Mary K .....*Disclosed no conflict of interest.*

Cowman, Trevin.....*Disclosed no conflict of interest.*

Cox, Ryan.....*Disclosed no conflict of interest.*

Crane, John K.....*Disclosed no conflict of interest.*

Crawford, Mallory.....*Disclosed no conflict of interest.*

Crecelius, Cory .....*Disclosed no conflict of interest.*

Criscione, Jaynie .....*Disclosed no conflict of interest.*

Crisco, Joseph (Trey) .....*3B*: Extremity Medical; *7A*: Extremity Medical; *8*: Journal of Biomechanics.

Crisco, Joseph J .....*8*: J Biomechanics, JOR.

Crisco, Joseph J. .....*8*: Biomechanics, JOR.

Crisco, Joseph J. .....*8*: J Biomechanics, JOR.

Crist, Brett D .....*2*: Kinetic Concepts, Inc.; *3B*: Globus Medical, Pacira; *3C*: Orthocentric; *4*: Orthopaedic Implant Company; *5*: KCI, Synthes; *8*: Journal of Hip Surgery, Journal of Orthopaedic Trauma, SLACK Incorporated; *9*: AO Trauma North America, International Geriatric Fracture Society, Orthopaedic Trauma Association.

Crocker, Dylan B .....*Disclosed no conflict of interest.*

Crockett, Rowena .....*Disclosed no conflict of interest.*

Croen, Brett .....*Disclosed no conflict of interest.*

Crook, Bryan S .....*Disclosed no conflict of interest.*

Cross, Michael.....*2*: Flexion Therapeutics, KCI; *3B*: DePuy, A Johnson & Johnson Company, Flexion Therapeutics, Intellijoint, Smith & Nephew, KCI; *4*: Imagen, Insight Medical, Intellijoint, Parvizi Surgical Innovation; *5*: Exactech, Inc, Intellijoint, Smith & Nephew; *8*: Bone and Joint Journal 360, , Techniques in Orthopaedics, Journal of Orthopaedics and Traumatology.

Crotzenburg, Michael.....*Disclosed no conflict of interest.*

Crouch, Dustin L.....*Disclosed no conflict of interest.*

Crowder, Hollis A .....*Disclosed no conflict of interest.*

Crowley, James .....*Disclosed no conflict of interest.*

Cruz, Maria .....*Disclosed no conflict of interest.*

Cubillos, Patricia O......*Disclosed no conflict of interest.*

Cubillos, Patricia Ortega .....*Disclosed no conflict of interest.*

Cucchiarini, Magali .....*Disclosed no conflict of interest.*

Cui, Can.....*Disclosed no conflict of interest.*

Cui, Min .....*Disclosed no conflict of interest.*

Cui, Quanjun .....*Disclosed no conflict of interest.*

Cui, Shangbin .....*Disclosed no conflict of interest.*

Cunha, Carla.....*Disclosed no conflict of interest.*

Cunningham, Daniel J .....*Disclosed no conflict of interest.*

Cunningham, Matthew E. .....*5*: Radius Health.

Curtin, Caroline M.....*Disclosed no conflict of interest.*

Cushner, Fred.....*1*: Canary Medical, Smith & Nephew; *2*: Smith & Nephew; *3B*: OrthoAlign, Smith & Nephew, Acelity; *4*: Canary Medical; *6*: Smith & Nephew; *7A*: Canary Medical, Smith & Nephew; *7B*: thieme, Elsevier; *8*: American Journal of Orthopaedics, Knee, CORR, , Orthopaedics.

Cutcliffe, Hattie C......*Disclosed no conflict of interest.*

Cutter, Brenden .....*Disclosed no conflict of interest.*

Cuylear, Darnell .....*Disclosed no conflict of interest.*

Czerwonka, Natalia.....*Disclosed no conflict of interest.*

Da, Xiaoyu.....*Disclosed no conflict of interest.*

Daffinee, Kathryn.....*Disclosed no conflict of interest.*

Dahia, Chitra L .....*Disclosed no conflict of interest.*

Dahlgren, Linda A.....*Disclosed no conflict of interest.*

Dai, Yifei .....*3A*: Exactech Inc.

Dai, Zhonghao.....*Disclosed no conflict of interest.*

Daichi, Hayashi .....*Disclosed no conflict of interest.*

Dailey, Hannah .....*4*: OrthoXel; *5*: OrthoXel; *6*: OrthoXel; *9*: ORS.

Dailey, Hannah L.....*4*: OrthoXel; *5*: OrthoXel; *6*: OrthoXel; *9*: ORS.

Dailey, Hannah L.....*4*: OrthoXel DAC; *5*: OrthoXel DAC; *6*: OrthoXel DAC; *9*: ORS ISFR.

Daiss, John L.....*4*: MicroB-plex, Inc.

Daiss, John L......*Disclosed no conflict of interest.*

Daji, Akshay.....*Disclosed no conflict of interest.*

Dalbeth, Nicola .....*Disclosed no conflict of interest.*

Daley, Alton B.....*Disclosed no conflict of interest.*

Dalgren, Linda A.....*Disclosed no conflict of interest.*

Daly-Seiler, Connor.....*Disclosed no conflict of interest.*

Damerau, Alexandra.....*Disclosed no conflict of interest.*

Damon, Bruce.....*Disclosed no conflict of interest.*

Damron, Timothy.....*3B*: Cerement; *5*: Stryker, Wright Medical Technology; *7A*: Up To Date; *8*: J Surgical Oncology.

Damron, Timothy A .....*3B*: BoneSupport; *5*: Stryker Inc.; *8*: JAAOS, BMC-MSK, The Online Orthopedic Journal, Journal of Surgical Oncology, PLOS-One, Journal of Orthopaedic Research, Medicina.

Damron, Timothy A .....*3B*: BONE SUPPORT (Cerament); *5*: Stryker, Inc (Research Support); *7B*: Up To Date, Lippincott; *8*: Journal of Surgical Oncology, Journal of Orthopaedic Research, PLoS ONE, The Online Orthopedic Journal, JAAOS, Medicina, BMC-Musculoskeletal Diseases.

Damron, Timothy A .....*3B*: Cerement; *5*: Stryker, Wright Medical Technology; *7A*: UpToDate; *8*: J Surgical Oncology.

Damron, Timothy A. .....*1*: Stryker, Inc., Orthovita, Inc., Wright Medical, Inc.; *3C*: Cerament, Inc.; *7B*: eMedicine (author), UpToDate (author), Lippincott, Williams and Wilkins (book author).

Dandridge, Oliver.....*Disclosed no conflict of interest.*

Dandu, Navya .....*Disclosed no conflict of interest.*

Danelson, Kerry A .....*Disclosed no conflict of interest.*

Danelson, Kerry A. .....*Disclosed no conflict of interest.*

Danias, George.....*Disclosed no conflict of interest.*

Daniels, Alan H.....*3B*: EOS, Medicrea, Medtronic Sofamor Danek, Novabone, Orthofix, Inc., Spineart, Stryker; *5*: Orthofix, Inc.; *6*: Springer; *7A*: Southern Spine, Spineart.

Daniels, Alan H.....*3B*: EOS, Medicrea, Medtronic Sofamor Danek, Novabone, Orthofix, Inc., Spineart, Stryker; *5*: Orthofix, Inc.; *6*: Springer; *7A*: Southern Spine, Spineart; *7B*: Springer.

Daniels, Alan H.....*3B*: EOS, Medicrea, Medtronic Sofamor Danek, Novabone, Orthofix, Inc, Spineart, Stryker; *5*: Orthofix, Inc.; *6*: Springer; *7A*: Southern Spine, Spineart; *7B*: Springer.

Daniels, Alan H.....*3B*: EOS, Medicrea, Medtronic Sofamor Danek, Novabone, Orthofix, Inc., Spineart, Stryker; *5*: Orthofix, Inc.; *7A*: Southern Spine, Spineart; *7B*: Springer.

Daniels, Alan H......*3B*: Stryker, Orthofix, Spineart, and EOS.

Daniels, Josh .....*Disclosed no conflict of interest.*

Daniels, Ryan .....*Disclosed no conflict of interest.*

Danyluk, Stephanie T .....*Disclosed no conflict of interest.*

Danyluk, Stephanie T. .....*Disclosed no conflict of interest.*

Daphne Diloretto, Daphne.....*Disclosed no conflict of interest.*

Daquinag, Alexes .....*Disclosed no conflict of interest.*

Darche, Jean-Philippe .....*Disclosed no conflict of interest.*

Darwiche, Salim .....*Disclosed no conflict of interest.*

Daryoush, Joshua R.....*Disclosed no conflict of interest.*

Das, Abhirup .....*Disclosed no conflict of interest.*

Das, Moumita .....*Disclosed no conflict of interest.*

Dasa, MD, Vinod .....*2*: Bioventus, Swiftpath/Pacira; *3B*: Bioventus, Myoscience; *4*: Myoscience, SIGHT Medical; *5*: SKK, Caritheal, KCI; *7A*: Flexion Therapeutics.

Dasa, Vinod.....*2*: Bioventus, Swiftpath, Pacira; *3B*: Bioventus, Pacira; *4*: SIGHT Medical, My Medical Images, Goldfinch; *5*: SKK, Cartiheal, KCI, Cymedica, OREF, NIH; *8*: J of ortho experience and innovation.

Dasa, Vinod.....*2*: Bioventus, Swiftpath/Pacira; *3B*: Bioventus, Myoscience; *4*: Myoscience, SIGHT Medical; *5*: SKK, Caritheal, KCI; *7A*: Flexion Therapeutics.

Dasgupta, Anouska .....*3A*: mtf biologics; *6*: ConMed.

Dasgupta, Anouska .....*3A*: MTF Biologics; *6*: OrthoFix Medical, Inc.

David, Justin .....*Disclosed no conflict of interest.*

David, Michael A.....*Disclosed no conflict of interest.*

Davidson, Anthony .....*Disclosed no conflict of interest.*

Davies, Michael.....*Disclosed no conflict of interest.*

Davies, Michael R.....*Disclosed no conflict of interest.*

Davis, Alexandra L .....*Disclosed no conflict of interest.*

Davis, Brian.....*Disclosed no conflict of interest.*

Davis, Brian M.....*Disclosed no conflict of interest.*

Davis, MD, Jacob.....*Disclosed no conflict of interest.*

Davis, Noah.....*3A*: Exactech, Inc.

Davis, Thomas A .....*Disclosed no conflict of interest.*

Day, Jonathan .....*Disclosed no conflict of interest.*

de Azambuja, Lucas Kurth.....*Disclosed no conflict of interest.*

de Bakker, Chantal.....*Disclosed no conflict of interest.*

de Bakker, Chantal M.J. .....*Disclosed no conflict of interest.*

de Bruijn, Joost .....*3A*: Kuros Biosciences BV; *4*: Kuros Biosciences AG.

de Bruijn, Joost D......*3A*: Kuros Biosciences; *4*: Kuros Biosciences.

De Cecco, Marco .....*Disclosed no conflict of interest.*

De Cesar Netto, Cesar .....*Disclosed no conflict of interest.*

de Groot, Florence .....*3A*: Kuros Biosciences BV.

de Groot, Florence .....*3A*: Kuros Biosciences.

De La Vega Amador, Rodolfo E. *Disclosed no conflict of interest.*

De la Vega, Rodolfo .....*Disclosed no conflict of interest.*

De la Vega, Rodolfo E......*Disclosed no conflict of interest.*

de Mello Roesler, Carlos Rodrigo *5*: Víncula indústria comércio importacao e exportação de implantes s.a.

de Mesy Bentley, Karen L.....*Disclosed no conflict of interest.*

de Mesy Bentley, Karen L. .....*Disclosed no conflict of interest.*

De Rosa, Enrica .....*Disclosed no conflict of interest.*

De Rosa, Enrico .....*Disclosed no conflict of interest.*

De, Chiranjit.....*Disclosed no conflict of interest.*

Deadwiler, Brittney C......*Disclosed no conflict of interest.*

Dear, Kayley.....*Disclosed no conflict of interest.*

DeBaun, Malcolm R .....*Disclosed no conflict of interest.*

Debski, Richard E .....*Disclosed no conflict of interest.*

DeClercq, Madeleine G .....*Disclosed no conflict of interest.*

Decuzzi, Paolo.....*Disclosed no conflict of interest.*

DeFrate, Louis.....*8*: Journal of Orthopaedic Research, Journal of Biomechanics, American Journal of Sports Medicine.

DeFrate, Louis E .....*8*: Journal of Biomechanics, Journal of Orthopedic Research.

DeFrate, Louis E .....*8*: Editorial Board - Journal of Orthopaedic Research; Associate Editor - Journal of Biomechanics, Editorial Board - American Journal of Sports Medicine.

DeFrate, Louis E .....*8*: American Journal of Sports Medicine, Journal of Biomechanics, Journal of Orthopaedic Research.

DeFrate, Louis E .....*8*: Journal of Biomechanics, Journal of Orthopaedic Research, American Journal of Sports Medicine.

DeFrate, Louis E. .....*Disclosed no conflict of interest.*

DeFroda, Steven .....*9*: AAOS.

Degen, Ryan.....*5*: Conmed.

Deguchi, Toru.....*Disclosed no conflict of interest.*

Del Prince, Clayton L. .....*Disclosed no conflict of interest.*

Delagrammaticas, Dimitri .....*Disclosed no conflict of interest.*

Deland, Jonathan.....*4*: Wright Medical; *7A*: Zimmer, Arthrex.

Deland, Jonathan.....*1*: Arthrex; *2*: Lima Cop; *3B*: Wright Medical.

Deland, Jonathan.....*1*: Arthrex; *2*: Lima Corp; *3B*: Wright Medical.

Deland, Jonathan.....*1*: Anthrex Inc., Zimmer; *3C*: Lima Corporation; *4*: Wright Medical Technology, Inc.

Delaney, Lauren J.....*Disclosed no conflict of interest.*

Delanois, Ronald E. .....*5*: Flexion Therapeutics, Orthofix Inc, Stryker, Tissue Gene, United Orthopedics; *9*: Baltimore City Medical Society.

Delco, Michelle L.....*Disclosed no conflict of interest.*

Delman, Connor.....*Disclosed no conflict of interest.*

Delman, MD, Connor M.....*Disclosed no conflict of interest.*

Delp, Michael D .....*Disclosed no conflict of interest.*

Delserro, Sean.....*Disclosed no conflict of interest.*

DeLucia, Spencer E.....*Disclosed no conflict of interest.*

Delury, Craig P .....*3A*: Biocomposites Ltd.

Demetracopoulos, Constantine *1*: Exactech; *3B*: Exactech, Integra, Paragon 28, Royal Biologics, RTI Surgical, Stryker, Wright Medical.

Demetracopoulos, Constantine *1*: Exactech; *2*: Integra, Paragon 28; *4*: Royal Biologics; *5*: RTI Surgical; *6*: Stryker; *7A*: Wright Medical.

Demetracopoulos, Constantine *3B*: Wright Medical, Integra, Stryker, Exactech; *7A*: Exactech.

DeMik, David E .....*8*: Journal of Arthroplasty.

DeMik, David E .....*8*: Editorial Board for Journal of Arthroplasty.

DeMik, David E .....*8*: Journal of Arthroplasty, Iowa Orthopedic Journal.

DeMoya, Christian D......*Disclosed no conflict of interest.*

Deng, Cheri .....*Disclosed no conflict of interest.*

Deng, Jingyao.....*Disclosed no conflict of interest.*

Deng, Xianghua.....*Disclosed no conflict of interest.*

Deng, Xiang-Hua .....*Disclosed no conflict of interest.*

Deng, Ye.....*Disclosed no conflict of interest.*

Derefinko, Karen J.....*Disclosed no conflict of interest.*

D'Erminio, Danielle N......*Disclosed no conflict of interest.*

Dernell, William .....*Disclosed no conflict of interest.*

DeRosa, Massimiliano.....*Disclosed no conflict of interest.*

Derr, Tabitha L. .....*Disclosed no conflict of interest.*

Dervin, Geoffrey .....*3B*: MicroPort Orthopedics Inc.

Desai, Bhumit .....*Disclosed no conflict of interest.*

Desai, Parth .....*Disclosed no conflict of interest.*

Desai, Salomi .....*Disclosed no conflict of interest.*

Desai, Tejal .....*Disclosed no conflict of interest.*

DeSantis, Paul.....*Disclosed no conflict of interest.*

Deshmukh, Sumeet R.....*Disclosed no conflict of interest.*

Deshmukh, Vishal .....*3A*: All authors are employees and shareholders of Samumed, LLC; *4*: All authors are employees and shareholders of Samumed, LLC.

DeWall, Ryan .....*3A*: DePuy Synthes.

Dey, Devaveena.....*Disclosed no conflict of interest.*

Deymier, Alix .....*Disclosed no conflict of interest.*

Dhara, Santanu.....*Disclosed no conflict of interest.*

Di Francesco, Martina.....*Disclosed no conflict of interest.*

Di Francesco, Valentina .....*Disclosed no conflict of interest.*

Di Lucia, Alba .....*3A*: Fidia Farmaceutici.

Di Mascolo, Daniele.....*Disclosed no conflict of interest.*

Di Pauli von Treuheim, Theodor *Disclosed no conflict of interest.*

Diab, Mohamed.....*Disclosed no conflict of interest.*

Diamond, Keith.....*Disclosed no conflict of interest.*

Diaz, Agustin.....*Disclosed no conflict of interest.*

Dibbern, Kevin .....*Disclosed no conflict of interest.*

Dibbern, Kevin N.....*Disclosed no conflict of interest.*

DiCarlo, Edward F .....*Disclosed no conflict of interest.*

Dicks, Amanda .....*Disclosed no conflict of interest.*

Diedring, Ben .....*Disclosed no conflict of interest.*

Diedring, Benjamin .....*Disclosed no conflict of interest.*

Diekman, Brian O.....*Disclosed no conflict of interest.*

Diermeier, Theresa A .....*Disclosed no conflict of interest.*

Diesing, Karoline.....*Disclosed no conflict of interest.*

Dietz, Matthew.....*3B*: Heraeus Medical; *4*: Synotrac, Graftworx; *9*: AAOS Board/Committee Member.

Dietz, Paula.....*Disclosed no conflict of interest.*

DiGioia, Anthony .....*Disclosed no conflict of interest.*

DiGioia, Anthony M .....*Disclosed no conflict of interest.*

DiGiovanni, Christopher.....*8*: FAO, FAI, Eur J FAS; *9*: AOFAS.

DiGiovanni, Christopher.....*8*: FAI, FAO, EUR J FAS; *9*: AOFAS.

DiGiovanni, Christopher W .....*8*: The American Orthopaedic Foot & Ankle Society; *9*: The American Orthopaedic Foot & Ankle Society.

DiGiovanni, Christopher W .....*9*: Vice President, American Orthopaedic Foot and Ankle Society.

DiGiovanni, Christopher W. .....*5*: Research Support from Butterfly Network.

Dillstrom, Diana .....*Disclosed no conflict of interest.*

DiNenna, Michael .....*Disclosed no conflict of interest.*

DiNenna, Michael A .....*Disclosed no conflict of interest.*

DiNenna, Michael A. .....*Disclosed no conflict of interest.*

DiNenna, Micheal A .....*Disclosed no conflict of interest.*

Dines, David M.....*3B*: Biomet.

Dinescu, A.Teodora.....*Disclosed no conflict of interest.*

Dinescu, Teodora A......*Disclosed no conflict of interest.*

Ding, Jing .....*Disclosed no conflict of interest.*

Ding, Kehong.....*Disclosed no conflict of interest.*

Ding, Yuanjing.....*Disclosed no conflict of interest.*

Dini, Daniele .....*4*: Orthonika.

Disch, Alexander C. .....*Disclosed no conflict of interest.*

Discher, Dennis .....*Disclosed no conflict of interest.*

DiStefano, Michael S.....*Disclosed no conflict of interest.*

DiStefano, Tyler J .....*Disclosed no conflict of interest.*

Distler, Oliver.....*3B*: Abbvie, Actelion, Acceleron Pharma, Amgen, AnaMar, Baecon Discovery, Blade Therapeutics, Bayer, Boehringer Ingelheim, Catenion, Competitive Corpus, Drug Development International Ltd, CSL Behring, ChemomAb, Ergonex, Galapagos NV, Glenmark Pharmaceuticals, GSK, Horizon (Curzion) Pharmaceuticals, Inventiva, Italfarmaco, iQone, iQvia, Kymera Therapeutics, Lilly, medac, Medscape, Mitsubishi Tanabe Pharma, MSD, Novartis, Pfizer, Roche, Sanofi, Target Bio Science and UCB.

Dittberner, Sophie .....*Disclosed no conflict of interest.*

Divaris, Nicholas .....*Disclosed no conflict of interest.*

Diwan, Ashish .....*Disclosed no conflict of interest.*

Dixon, Andrew R.....*Disclosed no conflict of interest.*

Dixon, Brandon.....*Disclosed no conflict of interest.*

Dixon, James E .....*3B*: LocateBio.

Doan, Gary.....*Disclosed no conflict of interest.*

Dobitsch, Andrew ……. *Disclosed no conflict of interest.*

Docaj, Anxhela.....*Disclosed no conflict of interest.*

Docheva, Denitsa.....*Disclosed no conflict of interest.*

Dockery, Dominique M.....*Disclosed no conflict of interest.*

Dodd, Andrew E......*Disclosed no conflict of interest.*

Dodds, Seth.....*Disclosed no conflict of interest.*

Dodge, George R.....*3B*: Fidia Farmaceutici s.p.a., CytoSorbents Corp.; *4*: Dupont, Bristol-Myers Squibb, Mechano-Therapeutics LLC; *6*: Flexion; *8*: Matrix Biology, Matrix Biology Plus, OA & Cartilage Open.

Doege, Joshua.....*Disclosed no conflict of interest.*

Doehrmann, Ross.....*Disclosed no conflict of interest.*

Dogru, Sedat.....*Disclosed no conflict of interest.*

Doherty, Laura.....*Disclosed no conflict of interest.*

Dolan, Lori A. .....*6*: Green Sun Medical; *9*: Society On Scoliosis Orthopaedic and Rehabilitation Treatment.

Dold, Michael J. .....*Disclosed no conflict of interest.*

Donahue, Henry J.....*Disclosed no conflict of interest.*

Donaldson, William .....*Disclosed no conflict of interest.*

Donaldson, William F.....*Disclosed no conflict of interest.*

Donaldson, William F......*Disclosed no conflict of interest.*

Donde, Sonia .....*3A*: Stryker.

Donegan, Niles P.....*Disclosed no conflict of interest.*

Dong, Qing.....*Disclosed no conflict of interest.*

Dongzhu, Ma.....*Disclosed no conflict of interest.*

Donlin, Laura .....*2*: Stryker; *3B*: Stryker; *5*: Karius, Inc.

Donnally, III, Chester J .....*Disclosed no conflict of interest.*

Donnelly, Emma.....*Disclosed no conflict of interest.*

Donnelly, Eve.....*Disclosed no conflict of interest.*

Donohue, Kenneth.....*Disclosed no conflict of interest.*

Donovan, Chantal .....*Disclosed no conflict of interest.*

Dooling, Lawrence .....*Disclosed no conflict of interest.*

Dorn, Jennifer .....*Disclosed no conflict of interest.*

Dornan, Grant.....*Disclosed no conflict of interest.*

Dornan, Grant J......*Disclosed no conflict of interest.*

dos Santos, Cláudio T......*Disclosed no conflict of interest.*

dos Santos, Vinícius O. .....*Disclosed no conflict of interest.*

Doshi, Panth .....*Disclosed no conflict of interest.*

Doty, Stephen B .....*Disclosed no conflict of interest.*

Dou, Qi.....*Disclosed no conflict of interest.*

Douglas, Brooke.....*3A*: NuVasive.

Douglas, Hope.....*Disclosed no conflict of interest.*

Douglas, Scott J......*Disclosed no conflict of interest.*

Douglass, Brenton W .....*Disclosed no conflict of interest.*

Douglass, Brenton W. .....*Disclosed no conflict of interest.*

Dovlatyan, Ruben .....*Disclosed no conflict of interest.*

Dow, Steven.....*Disclosed no conflict of interest.*

Downing, Justin .....*Disclosed no conflict of interest.*

Dragoo, Jason L.....*Disclosed no conflict of interest.*

Drakos, Mark .....*1*: Extremity Medical; *3B*: Fast Form, PItusan 360; *9*: American Orthopaedic Foot and Ankle Society.

Dreyer, Michael J .....*Disclosed no conflict of interest.*

Driscoll, Daniel.....*Disclosed no conflict of interest.*

Driscoll, Daniel Alexander.....*Disclosed no conflict of interest.*

Drissi, Hicham .....*Disclosed no conflict of interest.*

Drost, Joshua .....*Disclosed no conflict of interest.*

Duan, Wei.....*Disclosed no conflict of interest.*

Duan, Xin .....*Disclosed no conflict of interest.*

DuBose, Matthew.....*Disclosed no conflict of interest.*

Dubyak, George .....*Disclosed no conflict of interest.*

Duclos, Steven J .....*Disclosed no conflict of interest.*

Duda, Georg N. .....*Disclosed no conflict of interest.*

Dudli, Stefan .....*Disclosed no conflict of interest.*

Duemmler, Marc.....*Disclosed no conflict of interest.*

Duffy, Paul .....*Disclosed no conflict of interest.*

Dulatova, Gala .....*3A*: DiscGenics; *4*: DiscGenics.

Dum, Shouchen.....*3A*: DePuy Synthes.

Dun, Shouchen.....*3B*: DePuy Synthes.

Dun, Shouchen.....*3A*: DePuy Synthes.

Dunbar, Michael .....*1*: Stryker; *3B*: Stryker.

Dunbar, Michael J .....*2*: Stryker Orthopaedics; *3B*: Stryker Orthopaedics.

Duncan, William .....*Disclosed no conflict of interest.*

Dunham, Chelsey L .....*Disclosed no conflict of interest.*

Dunkle, Zachary .....*Disclosed no conflict of interest.*

Dunn, Andrew.....*4*: Have equity interest in GenAssist.

Dunn, Robin Hall.....*Disclosed no conflict of interest.*

Duquin, Thomas R.....*Disclosed no conflict of interest.*

Durgam, Sushmitha S......*Disclosed no conflict of interest.*

Dürselen, Lutz .....*Disclosed no conflict of interest.*

Dusane, Devendra H .....*3B*: Biocomposites Ltd.

Duss, Anja .....*Disclosed no conflict of interest.*

Dutta, Abir .....*Disclosed no conflict of interest.*

Dutta, Kaushik .....*Disclosed no conflict of interest.*

Duvall, Craig.....*Disclosed no conflict of interest.*

Dwivedi, Garima .....*Disclosed no conflict of interest.*

Dwyer, Roisin M .....*Disclosed no conflict of interest.*

Dyment, Nathaniel.....*Disclosed no conflict of interest.*

Dyment, Nathaniel A .....*Disclosed no conflict of interest.*

Dziesinski, Lucas K .....*Disclosed no conflict of interest.*

Easley, Jeremiah .....*Disclosed no conflict of interest.*

Easson, Garrett W .....*Disclosed no conflict of interest.*

Eastell, Richard .....*Disclosed no conflict of interest.*

Eastman, Jonathan .....*3B*: Depuy Synthes; *9*: AO North America.

Ebata, Taku .....*Disclosed no conflict of interest.*

Ebinger, Kathrin .....*Disclosed no conflict of interest.*

Eble, Stephanie .....*Disclosed no conflict of interest.*

Ebrahimian, Tala .....*Disclosed no conflict of interest.*

Ebramzadeh, Edward .....*5*: OrthoFix, Sunnyvale.

Ebramzadeh, Edward .....*5*: DePuy Orthopaedics, Orthofix, Microport, Nuvasive, NIH.

Echternacht, Scott R.....*Disclosed no conflict of interest.*

Eck, Andrew .....*Disclosed no conflict of interest.*

Eck, Brendan L .....*Disclosed no conflict of interest.*

Eckardt, Jeffrey J .....*Disclosed no conflict of interest.*

Eckstein, Kendra .....*Disclosed no conflict of interest.*

Edalati, Masoud.....*3A*: United Healthcare Imaging.

Edgar, David J.....*Disclosed no conflict of interest.*

Edmonds, Eric W .....*9*: AAOS, Pediatric Orthopaedic Society of North America.

Edobor-Osula, Folorunsho .....*Disclosed no conflict of interest.*

Edobor-Osula, O. Folorunsho....*Disclosed no conflict of interest.*

Edwards, David .....*Disclosed no conflict of interest.*

Edwards, Nicole J .....*Disclosed no conflict of interest.*

Edwards, W Brent .....*Disclosed no conflict of interest.*

Edwards, W. Brent .....*Disclosed no conflict of interest.*

Eekhoff, Jeremy D .....*Disclosed no conflict of interest.*

Eghan-Acquah, Emma nuel .....*Disclosed no conflict of interest.*

Eghan-Acquah, Emmanuel .....*Disclosed no conflict of interest.*

Eglauf, Janick .....*Disclosed no conflict of interest.*

Eglin, David .....*Disclosed no conflict of interest.*

Ehrensberger, Mark .....*Disclosed no conflict of interest.*

Eibel, Adam.....*Disclosed no conflict of interest.*

Eichaker, Lauren R .....*5*: Foundation Fusion Solutions, LLC, dba CornerLoc.

Eichinger, Josef .....*Disclosed no conflict of interest.*

Eichinger, Josef K. .....*3B*: Exactech; *4*: JPS; *5*: Johnson & Johnson, PCORI.

Eijansantos, Mando L.....*Disclosed no conflict of interest.*

Einhorn, Thomas A......*Disclosed no conflict of interest.*

Eisenstein, Avraham .....*Disclosed no conflict of interest.*

Ekhtiari, Seper .....*Disclosed no conflict of interest.*

Ekkerlein, Andreas.....*Disclosed no conflict of interest.*

El Shatanofy, Muhammad .....*Disclosed no conflict of interest.*

Elahi, Anissa.....*Disclosed no conflict of interest.*

Elakkari, Sherif.....*Disclosed no conflict of interest.*

Elenes, Egleide .....*3A*: Smith + Nephew; *4*: Smith + Nephew.

Elfar, John.....*Disclosed no conflict of interest.*

El-Gabalawy, Hani.....*Disclosed no conflict of interest.*

Elhance, Ajit.....*Disclosed no conflict of interest.*

Elias, John J.....*Disclosed no conflict of interest.*

Eliseev, Roman.....*5*: research contract from Sanabit Technologies.

Elkins, Jacob M .....*8*: Editorial Board for Journal of Arthroplasty.

Ellermann, Jutta.....*Disclosed no conflict of interest.*

Ellermann, Jutta M......*Disclosed no conflict of interest.*

Ellingson, Arin M.....*Disclosed no conflict of interest.*

Elliott, Dawn .....*Disclosed no conflict of interest.*

Elliott, Melanie .....*Disclosed no conflict of interest.*

Ellis, Scott .....*3B*: Paragon 28, Wright medical; *8*: FAO; *9*: AOFAS.

Ellis, Scott .....*3B*: Paragon 28, Wright Medical Technology Inc; *8*: Foot and Ankle Orthopaedics; *9*: American Orthopaedic Foot and Ankle Society.

Elmasry, Shady.....*Disclosed no conflict of interest.*

El-Sheikh Ali, Hossam.....*Disclosed no conflict of interest.*

El-Sheikh, Ali H.....*Disclosed no conflict of interest.*

Elutilo-Ayoola, Temitope .....*Disclosed no conflict of interest.*

Emami, Alireza.....*Disclosed no conflict of interest.*

Emami, Koroush.....*Disclosed no conflict of interest.*

Emanuel, Kaj.....*Disclosed no conflict of interest.*

Emmanuel, Eghan-Acquah.....*Disclosed no conflict of interest.*

Enami, Hideaki.....*Disclosed no conflict of interest.*

Endo....., Kaori *Disclosed no conflict of interest.*

Endo, Takeshi.....*Disclosed no conflict of interest.*

Engebretsen, Lars.....*3B*: Arthrex; *4*: iBalance; *5*: Arthrex, Biomet, Smith and Nephew; *7A*: Arthrex; *7B*: British Journal of Sports Medicine; *8*: Acta Orthopaedica, Journal of Bone and Joint Surgery, Knee, Knee Surgery, Sports Traumatology, Arthroscopy; *9*: ESSKA, AOSSM, ISAKOS.

Engiles, Julie.....*Disclosed no conflict of interest.*

Engiles, Julie B.....*Disclosed no conflict of interest.*

Englander, Zoë A.....*Disclosed no conflict of interest.*

Engler, Adam J .....*Disclosed no conflict of interest.*

Englies, Julie B.....*Disclosed no conflict of interest.*

English, Brett .....*Disclosed no conflict of interest.*

Enomoto-Iwamoto, Motomi.....*8*: editorial borad member for American journal of Pathology.

Epure, Laura.....*Disclosed no conflict of interest.*

Erdogan, Ebru .....*Disclosed no conflict of interest.*

Erhart-Hledik, Jennifer.....*4*: SomaTX Design, Inc.

Erhart-Hledik, Jennifer C.....*4*: SomaTx.

Erhart-Hledik, Jennifer C.....*4*: SomaTX Design, Inc.

Erickson, Isaac.....*3A*: DiscGenics; *4*: DiscGenics.

Eriten, Melih .....*Disclosed no conflict of interest.*

Erno, Daniel .....*Disclosed no conflict of interest.*

Ernst, Sara.....*Disclosed no conflict of interest.*

Erwin, Daniel.....*Disclosed no conflict of interest.*

Escott, Benjamin.....*Disclosed no conflict of interest.*

Eskelinen, Atte.....*Disclosed no conflict of interest.*

Eskelinen, Atte S .....*Disclosed no conflict of interest.*

Esper, Garrett .....*Disclosed no conflict of interest.*

Espinoza Orias, Alejandro A.....*Disclosed no conflict of interest.*

Espinoza Orías, Alejandro A. .....*Disclosed no conflict of interest.*

Esposito, Alessandra .....*Disclosed no conflict of interest.*

Esposito, John .....*Disclosed no conflict of interest.*

Estroff, Lara A .....*Disclosed no conflict of interest.*

Etchels, Lee W.....*6*: DePuy Synthes.

Etienne, Massardier.....*Disclosed no conflict of interest.*

Etzel, Christine .....*Disclosed no conflict of interest.*

Evanoff, Bradley A .....*Disclosed no conflict of interest.*

Evans, Chris.....*Disclosed no conflict of interest.*

Evans, Chris H. .....*Disclosed no conflict of interest.*

Evans, Christopher H.....*Disclosed no conflict of interest.*

Evans, Mary Kate .....*Disclosed no conflict of interest.*

Everitt, Leah A.....*Disclosed no conflict of interest.*

Evseenko, Denis.....*4*: Carthronix Inc.

Evuarherhe, Aghogho .....*Disclosed no conflict of interest.*

Ewing, April.....*Disclosed no conflict of interest.*

Eyre, David.....*Disclosed no conflict of interest.*

Eyre, David R.....*Disclosed no conflict of interest.*

Ezuma, Chimere O.....*Disclosed no conflict of interest.*

Ezura, Yoichi .....*Disclosed no conflict of interest.*

Ezzat, Bishoy .....*Disclosed no conflict of interest.*

Faber, Kenneth J .....*3B*: Exactech.

Faber, Kenneth J .....*1*: Exactech Inc.; *3B*: Exactech Inc.

Fagotti, Lorenzo .....*Disclosed no conflict of interest.*

Faizan, Ahmad .....*3A*: Stryker; *4*: Stryker.

Fajardo, Jesse.....*Disclosed no conflict of interest.*

Falck, Alyssa.....*Disclosed no conflict of interest.*

Falentin-Daudré, Céline .....*Disclosed no conflict of interest.*

Falgout, David.....*Disclosed no conflict of interest.*

Falowski, Steven .....*6*: Thermaquil, SPR Therapeutics, Saluda, Foundation Fusion Solutions, LLC, dba CornerLoc; *7A*: Thermaquil, SPR Therapeutics, Saluda, Foundation Fusion Solutions, LLC, dba CornerLoc.

Fan, Hongming.....*Disclosed no conflict of interest.*

Fan, Mingyue .....*Disclosed no conflict of interest.*

Fan, Wen.....*3A*: Exactech, Inc.

Fan, Wen.....*3A*: Exactech Inc.

Fan, Yingfang .....*Disclosed no conflict of interest.*

Fancello, Eduardo Alberto .....*Disclosed no conflict of interest.*

Fancher, Andrew.....*Disclosed no conflict of interest.*

Fancher, Drew J .....*Disclosed no conflict of interest.*

Fang, Elisa C .....*Disclosed no conflict of interest.*

Fang, Elisa C. .....*Disclosed no conflict of interest.*

Fang, Fei.....*Disclosed no conflict of interest.*

Fano, Adam …… *Disclosed no conflict of interest.*

Farah, Hassan-Galaydh .....*Disclosed no conflict of interest.*

Farhang, Niloofar.....*3A*: DiscGenics; *4*: DiscGenics.

Farjardo, Roberto J .....*Disclosed no conflict of interest.*

Farnsworth, Christine .....*Disclosed no conflict of interest.*

Farrow, Emily.....*Disclosed no conflict of interest.*

Farrow, Lutul .....*Disclosed no conflict of interest.*

Farrow, Lutul D .....*Disclosed no conflict of interest.*

Faschingbauer, Martin.....*Disclosed no conflict of interest.*

Fava, Enrico.....*Disclosed no conflict of interest.*

Favre, Philippe.....*3A*: Zimmer Biomet, Winterthur, Switzerland; *4*: Zimmer Biomet, Winterthur, Switzerland.

Favre, Philippe.....*3A*: 4.

Fay, Brian.....*3A*: Stryker.

Fayed, Aly M......*Disclosed no conflict of interest.*

Fearing, Bailey V. .....*Disclosed no conflict of interest.*

Feeley, Brian .....*Disclosed no conflict of interest.*

Feeley, Brian T .....*4*: Bioniks, LLC; *5*: NIH, Orthofix; *6*: Kaliber.ai; *8*: JSES, CRMSM, ORS, ASES.

Feeley, Brian T. .....*Disclosed no conflict of interest.*

Feizi, Sayeh .....*Disclosed no conflict of interest.*

Felgner, Camden .....*Disclosed no conflict of interest.*

Felix, Jeffrey T .....*Disclosed no conflict of interest.*

Felix-Ilemhenbhio, Favour .....*Disclosed no conflict of interest.*

Feller, John .....*Disclosed no conflict of interest.*

Femino, Elise L .....*Disclosed no conflict of interest.*

Feng, Anna .....*Disclosed no conflict of interest.*

Feng, Jian Q.....*Disclosed no conflict of interest.*

Feng, Meng .....*Disclosed no conflict of interest.*

Fenstad, Anne Marie.....*Disclosed no conflict of interest.*

Ferguson, Daniel .....*Disclosed no conflict of interest.*

Ferguson, Katie .....*Disclosed no conflict of interest.*

Ferguson, Stephen J .....*Disclosed no conflict of interest.*

Ferguson, Virginia .....*Disclosed no conflict of interest.*

Ferguson, Virginia L.....*Disclosed no conflict of interest.*

Fernandes, Daniel Araujo.....*Disclosed no conflict of interest.*

Fernandes, Russell .....*Disclosed no conflict of interest.*

Fernandes, Wellington G .....*Disclosed no conflict of interest.*

Fernando, Navin .....*Disclosed no conflict of interest.*

Ferreira, Joana R. .....*Disclosed no conflict of interest.*

Ferreira, Louis .....*Disclosed no conflict of interest.*

Ferreira, Miguel .....*Disclosed no conflict of interest.*

Ferreri, Emily D .....*Disclosed no conflict of interest.*

Ferrigno, Christopher.....*Disclosed no conflict of interest.*

Ferris, Lauren A.....*3A*: DePuy Synthes; *4*: DePuy Synthes.

Festen-Schrier, Verena J.M.M...*Disclosed no conflict of interest.*

Fey, Nicholas.....*Disclosed no conflict of interest.*

Fey, Nicholas P .....*Disclosed no conflict of interest.*

Fice, Michael P .....*Disclosed no conflict of interest.*

Fields, Aaron J.....*Disclosed no conflict of interest.*

Fields, Aaron J......*Disclosed no conflict of interest.*

Figgie, Mark .....*Disclosed no conflict of interest.*

Findeisen, Lisa.....*Disclosed no conflict of interest.*

Findlay, David M.....*Disclosed no conflict of interest.*

Fineberg, Marc.....*Disclosed no conflict of interest.*

Finkielsztein, Sergio .....*3A*: Marine Polymer Technologies, Inc.

Finnilä, Mikko A. J......*Disclosed no conflict of interest.*

Fiorentino, Alyson.....*Disclosed no conflict of interest.*

Fiorentino, Alyson M. .....*Disclosed no conflict of interest.*

Fisch, Kathleen M .....*Disclosed no conflict of interest.*

Fischenich, Kristine .....*Disclosed no conflict of interest.*

Fischer, Alfons .....*3B*: CeramTec GmbH, Germany; *3C*: CeramTec GmbH, Germany; *6*: Aesculap AG, Germany.

Fischer, Allison.....*3A*: Arthrex, Inc.

Fisher, Leah.....*Disclosed no conflict of interest.*

Fisher, Matthew B .....*Disclosed no conflict of interest.*

Fitz, David Woelfel.....*3B*: b-One; *5*: Conformis.

Fitzgerald, Jamie .....*Disclosed no conflict of interest.*

Fitzgerald, Keith.....*Disclosed no conflict of interest.*

Fitzpatrick, Clare K .....*5*: Stryker Orthopaedics.

Fitzpatrick, James AJ .....*Disclosed no conflict of interest.*

Flaman, Lisa .....*Disclosed no conflict of interest.*

Flanigan, David .....*Disclosed no conflict of interest.*

Flannery, Brennan .....*Disclosed no conflict of interest.*

Flannery, Sean W.....*Disclosed no conflict of interest.*

Fleming, Braden C.....*4*: MIACH Orthopaedics; *7B*: Springer Publishing; *8*: American Journal of Sports Medicine.

Fleming, Braden C.....*7B*: BCF receives royalties from Springer Publishing., BCF receives a stipend from the American Journal of Sports Medicine.

Fleming, Braden C......*1*: Miach Orthopaedics; *8*: Springer Publishing, Sage Publishing.

Fletcher, Amanda N. .....*Disclosed no conflict of interest.*

Fletcher, Elizabeth A .....*Disclosed no conflict of interest.*

Flierl, Michael .....*3B*: Zimmer; *5*: Stryker, Zimmer.

Florea, Cristina.....*Disclosed no conflict of interest.*

Florencio-Silva, Rinaldo .....*Disclosed no conflict of interest.*

Flores, Vianey .....*3A*: Orthopedic Analysis LLC.

Fluit, René.....*Disclosed no conflict of interest.*

Flurin, Pierre-Henri .....*1*: Exactech, Inc.; *3B*: Exactech, Inc.

Flurin, Pierre-Henri .....*3B*: Exactech, Inc; *7A*: Exactech, Inc.

Flynn, Candace.....*Disclosed no conflict of interest.*

Flynn, Michael .....*Disclosed no conflict of interest.*

Flynn, Michael J .....*Disclosed no conflict of interest.*

Fogel, Guy.....*Disclosed no conflict of interest.*

Foley, James.....*Disclosed no conflict of interest.*

Foley, Kevin T.....*3B*: Medtronic; *4*: Medtronic, Nuvasive, Spinewave, DiscGenics, Truevision; *7A*: Medtronic.

Foltz, Mary H .....*Disclosed no conflict of interest.*

Fong, David.....*Disclosed no conflict of interest.*

Fontana, Mark A .....*Disclosed no conflict of interest.*

Foody, Jacqueline N.....*Disclosed no conflict of interest.*

Foolen, Jasper.....*Disclosed no conflict of interest.*

Forbes, Shaun .....*Disclosed no conflict of interest.*

Forhan, Mary .....*Disclosed no conflict of interest.*

Forrester, Lynn Ann .....*Disclosed no conflict of interest.*

Forsberg, Flemming .....*3B*: Samumed; *5*: Bracco, Canon Medical Systems, GE Healthcare, Lantheus Medical Imaging, Siemens Healthineers; *8*: J Ultrasound Med, Ultrason Imaging.

Forsberg, Flemming .....*3B*: Samumed; *5*: Bracco, Canon Medical Systems, GE Healthcare, Lantheus Medical Imaging, Siemens Healthineers; *8*: J Ultrasound Med., Ultrason. Imaging.

Forsberg, Jonathan .....*3B*: Solsidan Group; *5*: Zimmer-Biomet Inc.

Forsberg, Jonathan A .....*Disclosed no conflict of interest.*

Fort, Brian P .....*Disclosed no conflict of interest.*

Fortes, Claudia .....*Disclosed no conflict of interest.*

Fortier, Lisa .....*8*: Associate editor to the journal Cartilage.

Fortier, Lisa A.....*8*: Associate Editor for the journal Cartilage.

Fortier, Lisa A.....*8*: Cartilage.

Fortier, Lisa A.....*5*: In2Bones, Memphis, TN.

Fortier, Lisa A.....*8*: Associate Editor of "Cartilage".

Fortier, Lisa A......*3B*: Arthrex; *8*: Cartilage.

Foster, Brent.....*Disclosed no conflict of interest.*

Foster, Timothy.....*Disclosed no conflict of interest.*

Foucher, Kharma.....*8*: JOR Editorial Review Board; *9*: ORS Diversity, Equity, and Inclusion Chair.

Foucher, Kharma.....*8*: JOR Editorial Review Board; *9*: ORS Diversity, Equity, and Inclusion Committee Chair.

Fowler, Jason W.....*Disclosed no conflict of interest.*

Fowler, John R .....*Disclosed no conflict of interest.*

Fox, Edward .....*Disclosed no conflict of interest.*

Fragomen, Austin T.....*Disclosed no conflict of interest.*

Fraley, J Gabriel .....*4*: DRH and JHNY own stock in Tesio Pharmaceuticals; *8*: DRH is on the editorial review board for: Journal of Orthopaedic Research, and BioMedCentral Musculoskeleytal Disorders.

Fraley, Jeffery G .....*Disclosed no conflict of interest.*

Frame, Jeffrey .....*Disclosed no conflict of interest.*

Francis, Michael.....*3A*: Embody Inc; *4*: Embody Inc.

Francis-Pester, Fraser W .....*Disclosed no conflict of interest.*

Frank, Eliot.....*Disclosed no conflict of interest.*

Frankel, Hannah.....*3A*: Smith & Nephew; *4*: Smith & Nephew.

Frankel, Hannah.....*3A*: Smith & Nephew.

Frankewycz, Borys .....*Disclosed no conflict of interest.*

Frankston, Naomi .....*Disclosed no conflict of interest.*

Fraychineaud, Thomas.....*Disclosed no conflict of interest.*

Frazier, Erika .....*Disclosed no conflict of interest.*

Freccero, David M.....*Disclosed no conflict of interest.*

Fred, Elianna .....*Disclosed no conflict of interest.*

Frederick, Jeremy.....*Disclosed no conflict of interest.*

Fredericks, Joseph A .....*3A*: Stryker Spine.

Freedhand, Adam M .....*2*: Stryker, DJ Orthopaedics; *3B*: Stryker; *4*: OrthoSensor.

Freedman, Benjamin R.....*Disclosed no conflict of interest.*

Freeman, Andrew .....*Disclosed no conflict of interest.*

Freemont, Anthony J .....*Disclosed no conflict of interest.*

French, Stephen J......*Disclosed no conflict of interest.*

Friedman, Brett.....*Disclosed no conflict of interest.*

Friedman, Michael.....*Disclosed no conflict of interest.*

Friedman, Michael A.....*Disclosed no conflict of interest.*

Friedman, Richard.....*Disclosed no conflict of interest.*

Friedrich, Alex.....*Disclosed no conflict of interest.*

Frisbie, David .....*3B*: Code 3B; *5*: Code 5.

Frisbie, David D.....*3B*: Arthrex; *4*: Advanced Regenerative Therapies.

Frisbie, David D......*Disclosed no conflict of interest.*

Fritsche, Madelaine .....*Disclosed no conflict of interest.*

Fritton, Susannah P.....*Disclosed no conflict of interest.*

Fritz, Bryan.....*3A*: DePuy Synthes.

Froehlich, John A. .....*Disclosed no conflict of interest.*

Fu, Freddie.....*8*: AJSM, KSSTA; *9*: ISAKOS.

Fu, Freddie H.....*8*: AJSM; KSSTA; *9*: ISAKOS.

Fu, Tsai-Sheng.....*Disclosed no conflict of interest.*

Fu, Wenyu.....*Disclosed no conflict of interest.*

Fucentese, Sandro F......*3B*: Medacta; *9*: SwissOrthopaedics.

Fujie, Hiromichi.....*Disclosed no conflict of interest.*

Fujii, Masanori .....*Disclosed no conflict of interest.*

Fujii, Yuta.....*Disclosed no conflict of interest.*

Fujimiya, Mineko .....*Disclosed no conflict of interest.*

Fujimori, Satoko.....*Disclosed no conflict of interest.*

Fujino, Keitaro .....*Disclosed no conflict of interest.*

Fujita, Koji.....*Disclosed no conflict of interest.*

Fujita, Masahiro.....*Disclosed no conflict of interest.*

Fujita, Ryo.....*Disclosed no conflict of interest.*

Fujita, Shintaro .....*Disclosed no conflict of interest.*

Fujiwara, Shuichi.....*Disclosed no conflict of interest.*

Fujiwara, Tatsuhiko .....*Disclosed no conflict of interest.*

Fujiwara, Tomoko .....*Disclosed no conflict of interest.*

Fukase, Naomasa.....*Disclosed no conflict of interest.*

Fukuda, Koji .....*Disclosed no conflict of interest.*

Fukui, Daisuke.....*Disclosed no conflict of interest.*

Fukui, Tomoaki .....*Disclosed no conflict of interest.*

Fukushima, Wakaba.....*Disclosed no conflict of interest.*

Fullam, Spencer J .....*Disclosed no conflict of interest.*

Fulton, Travis .....*Disclosed no conflict of interest.*

Fung, Ashley K.....*Disclosed no conflict of interest.*

Funk, Grahmm A.....*Disclosed no conflict of interest.*

Funk, Julia V.....*Disclosed no conflict of interest.*

Furman, Bridgette D .....*Disclosed no conflict of interest.*

Furst, William .....*Disclosed no conflict of interest.*

Furukawa, Jun-ichi.....*Disclosed no conflict of interest.*

Fusco, Alessandra .....*Disclosed no conflict of interest.*

Fusellier, Marion.....*Disclosed no conflict of interest.*

Fussell, Cale .....*Disclosed no conflict of interest.*

Fyhrie, David P.....*Disclosed no conflict of interest.*

Gabel, Leigh .....*Disclosed no conflict of interest.*

Gaber, Timo .....*Disclosed no conflict of interest.*

Gabriel, Stefan.....*3A*: DePuy Synthes Mitek.

Gaddy, Dana .....*Disclosed no conflict of interest.*

Gadkari, Niranjan.....*Disclosed no conflict of interest.*

Gaffney, Brecca.....*Disclosed no conflict of interest.*

Gaffney, Brecca M.M .....*Disclosed no conflict of interest.*

Gaffney, Brecca M.M. .....*Disclosed no conflict of interest.*

Gagnier, Joel J. .....*Disclosed no conflict of interest.*

Gaj, Sibaji.....*Disclosed no conflict of interest.*

Galagan, Robert.....*Disclosed no conflict of interest.*

Galatz, Leesa.....*3B*: Medacta.

Galbraith, Kristyn.....*Disclosed no conflict of interest.*

Galbreath, Ian.....*Disclosed no conflict of interest.*

Gale, Tom .....*Disclosed no conflict of interest.*

Galesso, Devis.....*3A*: Fidia Farmaceutici.

Gallagher, Maurice P .....*Disclosed no conflict of interest.*

Gallate, Zachary S .....*Disclosed no conflict of interest.*

Gallo, Matthew C.....*Disclosed no conflict of interest.*

Galloway, Chad A.....*Disclosed no conflict of interest.*

Galloway, Joseph .....*Disclosed no conflict of interest.*

Gamada, Kazuyoshi.....*4*: Kazuyoshi Gamada is the CEO of GLAB Corporation.

Gammell, Jonathan D......*Disclosed no conflict of interest.*

Gan, Yudong .....*Disclosed no conflict of interest.*

Gandhi, Sachin .....*Disclosed no conflict of interest.*

Gang, Du .....*Disclosed no conflict of interest.*

Gangi, Lianna R. .....*Disclosed no conflict of interest.*

Gangishetti, Umesh .....*Disclosed no conflict of interest.*

Ganio, Edward A. .....*Disclosed no conflict of interest.*

Ganji, Elahe.....*Disclosed no conflict of interest.*

Gannon, Steven .....*Disclosed no conflict of interest.*

Gansau, Jennifer .....*Disclosed no conflict of interest.*

Gansau, Jennifer Gansau .....*Disclosed no conflict of interest.*

Gantt, Connor .....*Disclosed no conflict of interest.*

Ganz, Eran.....*3A*: Active Implants LLC, 6060 Primacy Parkway, Suite 460, Memphis, TN, USA; *4*: Active Implants LLC, 6060 Primacy Parkway, Suite 460, Memphis, TN, USA.

Gao, Kenneth .....*Disclosed no conflict of interest.*

Gao, Kenneth T .....*5*: GE Healthcare.

Gao, Liang .....*Disclosed no conflict of interest.*

Gao, Madeleine A .....*Disclosed no conflict of interest.*

Gao, Matthew Z.....*Disclosed no conflict of interest.*

Gao, Qi.....*Disclosed no conflict of interest.*

Gao, Xueqin .....*Disclosed no conflict of interest.*

Gao, Yun .....*Disclosed no conflict of interest.*

Gao, Zhanguo.....*Disclosed no conflict of interest.*

Garay, Ryan S.....*Disclosed no conflict of interest.*

Garcia, Dioscaris .....*4*: BI Medical LLC.

Garcia, Dioscaris .....*3C*: BI Medical.

Garcia, Dioscaris R .....*4*: BI Medical LLC.

Garcia, Dioscaris R .....*4*: BI Medical.

Garcia, Dioscaris R .....*4*: BI Medical, LLC.

Garcia, Flavio .....*Disclosed no conflict of interest.*

Garcia, Jaquelin M .....*Disclosed no conflict of interest.*

Garcia-Lopez, Edgar .....*Disclosed no conflict of interest.*

Garcia-Rodriguez, Sylvana .....*Disclosed no conflict of interest.*

Gardner, Michael J.....*6*: Dr. Gardner receives personal fees from Pacira Pharmaceuticals, Biocomposites, BoneSupport AB, Conventus, Globus Medical, StabilizOrtho, Synthes, and from KCI outside of the submitted work.

Garg, Koyal .....*4*: Have equity interest in GenAssist.

Garlapaty, Ashwin R .....*Disclosed no conflict of interest.*

Garner, Amy .....*Disclosed no conflict of interest.*

Garrigues, Grant E.....*1*: DJ Orthopedics, Tornier; *2*: DJ Orthopedics; *3B*: Bioventus, DJ Orthopedics, Mitek; *4*: Genesys, ROM 3; *5*: Tornier; *6*: Arthrex, DJ Orthopedics, South Tech; *8*: J Shoulder and Elbow Surgery, Techniques in Orthopedics; *9*: ASES.

Garrigues, Grant E.....*3B*: Additive Orthopaedics, DJ Orthopaedics, Mitek, Tornier; *4*: CultivateMD, Genesys, PatientIQ, ROM 3; *6*: Arthrex Inc, DJ Orthopaedics, SouthTech; *7A*: DJ Orthopaedics, Tornier; *8*: JSES, Techniques in Orthopaedics; *9*: , ASES, AANA.

Garverick, Anna .....*Disclosed no conflict of interest.*

Gary, Matthew F.....*5*: Tyber Medical.

Gasparro, Matthew .....*Disclosed no conflict of interest.*

Gaston, R Glenn.....*2*: DePuy, A Johnson & Johnson Company, Endo Pharmaceutical, Integra, Zimmer; *3B*: Biomet, BME, Hanger Clinic, Integra; *7A*: Biomet; *8*: Journal of Hand Surgery - American; *9*: American Association for Hand Surgery, American Society for Surgery of the Hand.

Gatti, Vittorio.....*Disclosed no conflict of interest.*

Gaudilliere, Brice .....*Disclosed no conflict of interest.*

Gaur, Srisha .....*Disclosed no conflict of interest.*

Gawlitta, Debby.....*Disclosed no conflict of interest.*

Gawri, Rahul .....*9*: ORS-Spine Section.

Gazzuola Rocca, Liliana .....*Disclosed no conflict of interest.*

Gebhard, Florian.....*Disclosed no conflict of interest.*

Gehrke, Corinn.....*Disclosed no conflict of interest.*

Geiger, Erik J .....*Disclosed no conflict of interest.*

Geisler, Christina M .....*Disclosed no conflict of interest.*

Gelbs, Michelle J .....*Disclosed no conflict of interest.*

Geller, Jeffrey .....*3B*: Smith & Nephew; *5*: Smith and Nephew; Orthosensor; Orthopaedic Scientific Research Foundation; Orthopaedic Research and Education Foundation; *8*: Clinical Orthopaedics and Related Research; Journal of Arthroplasty; *9*: American Association of Hip and Knee Surgeons; American Association of Orthopaedic Surgeons.

Geller, Jeffrey A. .....*Disclosed no conflict of interest.*

Genin, Guy M.....*Disclosed no conflict of interest.*

Genovese, Peter.....*Disclosed no conflict of interest.*

Genuario, James W .....*3B*: Stryker.

Georgiev, Nedelcho .....*3A*: Smart-Soft Employee, Georgiev.

Gerges, Justin.....*3A*: Stryker.

Geris, Liesbet .....*Disclosed no conflict of interest.*

Gerstenfeld, Louis.....*Disclosed no conflict of interest.*

Getgood, Alan.....*3B*: Smith & Nephew; *7A*: Smith & Nephew.

Getty, Patrick J.....*Disclosed no conflict of interest.*

Gharib Parsa, Arta.....*Disclosed no conflict of interest.*

Ghimire, Prabesh .....*Disclosed no conflict of interest.*

Gholipour, Ali.....*Disclosed no conflict of interest.*

Ghosh, Rajdeep.....*Disclosed no conflict of interest.*

Ghouse, Shaaz.....*Disclosed no conflict of interest.*

Giangarra, Charles .....*Disclosed no conflict of interest.*

Giavaresi, Gianluca .....*7A*: This study was funded by Fidia Farmaceutici.

Gibbons, Kalin D .....*Disclosed no conflict of interest.*

Gibbs, Christopher M.....*7B*: Depuy Synthes.

Gibian, Joseph T.....*Disclosed no conflict of interest.*

Gibson, Breanne HY.....*Disclosed no conflict of interest.*

Gibson, Margaret.....*Disclosed no conflict of interest.*

Gibson, Mary .....*Disclosed no conflict of interest.*

Giers, Morgan B .....*Disclosed no conflict of interest.*

Giers, Morgan B. .....*Disclosed no conflict of interest.*

Gil Alabarse, Paulo.....*Disclosed no conflict of interest.*

Gil, Dmitry .....*Disclosed no conflict of interest.*

Gil, Joseph A. .....*Disclosed no conflict of interest.*

Gilad, Gad .....*1*: Gilad & Gilad LLC.

Gilad, Yoav.....*Disclosed no conflict of interest.*

Gilat, Ron.....*Disclosed no conflict of interest.*

Gilbert, Sophie J.....*Disclosed no conflict of interest.*

Gilbertie, Jessica .....*Disclosed no conflict of interest.*

Giles, Joshua .....*Disclosed no conflict of interest.*

Giles, Joshua W.....*Disclosed no conflict of interest.*

Gililland, jeremy .....*3B*: Stryker.

Gillespie, Robert .....*3B*: Shoulder Innovations, DJO.

Gillies, Austin P.....*Disclosed no conflict of interest.*

Gillinov, Stephen M .....*Disclosed no conflict of interest.*

Gilmartin, Neda F.....*Disclosed no conflict of interest.*

Gindri, Izabelle de Mello.....*Disclosed no conflict of interest.*

Gingery, Anne.....*Disclosed no conflict of interest.*

Ginley-Hidinger, Matthew.....*Disclosed no conflict of interest.*

Ginnell, Clara.....*Disclosed no conflict of interest.*

Gionet-Gonzales, Marissa.....*Disclosed no conflict of interest.*

Giordano, Federica.....*Disclosed no conflict of interest.*

Giordano, Gérard.....*3B*: Exactech Inc.

Gira, Emma.....*Disclosed no conflict of interest.*

Girardi, Federico.....*Disclosed no conflict of interest.*

Girardi, Federico P.....*Disclosed no conflict of interest.*

Girotto, Lorenzo.....*Disclosed no conflict of interest.*

Gish, Charles C.....*Disclosed no conflict of interest.*

Gitelis, Steven.....*1*: Onkos Surgical, USMI.

Gitleis, Steven.....*1*: Onkos Surgical, USMI.

Giusti, Nick.....*Disclosed no conflict of interest.*

Giza, Eric.....*Disclosed no conflict of interest.*

Giza, Shelby.....*Disclosed no conflict of interest.*

Gladwin, Mark.....*Disclosed no conflict of interest.*

Glaeser, Juliane.....*Disclosed no conflict of interest.*

Glaeser, Juliane D.....*Disclosed no conflict of interest.*

Glass, Natalie A.....*Disclosed no conflict of interest.*

Glasser, Jillian.....*Disclosed no conflict of interest.*

Gleicher, Yehoshua.....*Disclosed no conflict of interest.*

Glenday, Jonathan Daniel.....*Disclosed no conflict of interest.*

Glennon, Joseph C.....*4*: ReVivo Medical, LLC.

Godoy, Michael.....*Disclosed no conflict of interest.*

Godziuk, Kristine.....*Disclosed no conflict of interest.*

Goebel, Sven.....*3B*: Exactech, Inc.

Goel, Danny P.....*3A*: Precision OS Technology.

Goel, Vijay .....*1*: Pardigm Spine, Joimax, Globus, Endosphere, Butterfly; *4*: Spinal Balance, Osteonovus, Intellisenze; *5*: OsteoNovus FDA, Spinal Balance, Depuy, SI Bone, AO Foundation, Spine Scoliosis LLC, FDA, , Spider Spine LLC, 4WEB, NIH, NSF.

Goel, Vijay .....*1*: Paradigm Spine, Joimax; *4*: Spinal Balance Inc., OsteoNovus Inc.

Goel, Vijay K.....*1*: Spinal Balance Inc, OsteoNovus Inc.; *4*: Paradigm Spine, Joimax.

Goel, Vijay K.....*1*: Globus, Endosphere, Butterfly; *4*: Spinal Balance, OsteoNovus, intellisenze; *5*: OsteoNovus, Spinal Balance, Depuy Synthes Spine, SI Bone, AO Foundation, Spine Scoliosis LLC, 4Web Medical; *9*: NIH, NSF.

Goetz, Jessica E .....*Disclosed no conflict of interest.*

Goh, Qing.....*Disclosed no conflict of interest.*

Going, James W. .....*Disclosed no conflict of interest.*

Gold, Garry .....*5*: GE Healthcare.

Gold, Garry E.....*5*: GE Healthcare.

Goldberg, Jacob .....*Disclosed no conflict of interest.*

Goldring, Mary.....*Disclosed no conflict of interest.*

Goldring, Steven R. .....*4*: Co-founder of Ensign Pharmaceutical.

Goldring, Steven R. .....*4*: Dr. Goldring is one of the cofounders of Ensign Pharmaceutical.

Golman, Mikhail .....*Disclosed no conflict of interest.*

Golub, Ivan .....*Disclosed no conflict of interest.*

Gomez, Andrew .....*Disclosed no conflict of interest.*

Gomoll, Andreas .....*1*: Vericel, Organogenesis; *3B*: Moximed, Smith&Nephew; Vericel; *4*: JRF, Organogenesis, Vericel; *7B*: Organogenesis; *9*: Arthroscopy Association of North America, Cartilage, ESSKA, ICRS, International Society of Arthroscopy, Knee Surgery, Orthopaedic Sports Medicine, Knee Surgery, Sports Traumatology, Arthroscopy, OJSM.

Goncalves, Raquel .....*Disclosed no conflict of interest.*

Goncalves, Raquel M. .....*Disclosed no conflict of interest.*

Gondo, Hirotaka .....*Disclosed no conflict of interest.*

Gong, Zhenghua.....*Disclosed no conflict of interest.*

Gonzales, David .....*Disclosed no conflict of interest.*

Gonzales, David A .....*Disclosed no conflict of interest.*

González Díaz, Eva C .....*Disclosed no conflict of interest.*

Gonzalez Fernandez, Tomas.....*Disclosed no conflict of interest.*

Gonzalez, Daniella M .....*Disclosed no conflict of interest.*

Gonzalez, Felix M .....*Disclosed no conflict of interest.*

Gonzalez, Gabriella .....*Disclosed no conflict of interest.*

Gonzalez, Jasmine L .....*Disclosed no conflict of interest.*

Gonzalez, Roberto .....*Disclosed no conflict of interest.*

Goode, Adam P .....*Disclosed no conflict of interest.*

Goodman, Howard .....*Disclosed no conflict of interest.*

Goodman, Stuart .....*Disclosed no conflict of interest.*

Goodman, Stuart B .....*Disclosed no conflict of interest.*

Goodman, Stuart B. .....*Disclosed no conflict of interest.*

Goodman, Susan.....*Disclosed no conflict of interest.*

Goodnough, L. Henry .....*Disclosed no conflict of interest.*

Goodrich, Allison .....*Disclosed no conflict of interest.*

Goodrich, Laurie .....*Disclosed no conflict of interest.*

Goodrich, Laurie R .....*3B*: Allosource; *4*: Advanced Regenerative Therapies.

Goodrich, Laurie R. .....*Disclosed no conflict of interest.*

Gopalakrishnan, Ananthkrishnan *3A*: Stryker; *4*: Stryker.

Gordish-Dressman, Heather .....*Disclosed no conflict of interest.*

Gordon, Adam M .....*Disclosed no conflict of interest.*

Gordon, Andrew .....*Disclosed no conflict of interest.*

Goswami, Karan.....*Disclosed no conflict of interest.*

Goto, Yuta.....*Disclosed no conflict of interest.*

Gottwald, Robert.....*Disclosed no conflict of interest.*

Gould, Nicole R. .....*Disclosed no conflict of interest.*

Gouldin, Austin Gregory .....*Disclosed no conflict of interest.*

Goulet, Robert W.....*Disclosed no conflict of interest.*

Goulet, Robert W......*Disclosed no conflict of interest.*

Goyal, Anshit .....*Disclosed no conflict of interest.*

Goyal, Kanu.....*Disclosed no conflict of interest.*

Grad, Sibylle.....*Disclosed no conflict of interest.*

Grammatopoulos, George .....*Disclosed no conflict of interest.*

Granda, Melissa .....*3A*: mtf biologics; *6*: ConMed.

Grande, Daniel.....*Disclosed no conflict of interest.*

Grande, Daniel A.....*Disclosed no conflict of interest.*

Grande-Arriola, Hector .....*Disclosed no conflict of interest.*

Grange, Robert W .....*Disclosed no conflict of interest.*

Granger, Caroline.....*Disclosed no conflict of interest.*

Grant, John A .....*2*: JRF Ortho, Vericel, Conmed Linvatec; *5*: JRF Ortho, Arthrex, Aesculap Biologics; *8*: Associate Editor for CME - Sports Medicine, JBJSA.

Grant, John A .....*2*: JRF Ortho, Vericel, Conmed Linvatec; *5*: JRF Ortho, Arthrex, Aesculap Biologics.

Grant, Michael .....*Disclosed no conflict of interest.*

Grässel, Susanne.....*Disclosed no conflict of interest.*

Gray, Robert .....*Disclosed no conflict of interest.*

Gray, Ryan S.....*Disclosed no conflict of interest.*

Greco, Nicole T.....*Disclosed no conflict of interest.*

Greditzer, Harry G.....*Disclosed no conflict of interest.*

Green, Eric .....*3B*: Depuy Synthes.

Green, Samuel .....*Disclosed no conflict of interest.*

Greenacre, Cheryl .....*Disclosed no conflict of interest.*

Greenbaum, John.....*3B*: Theradaptive, Inc.

Greenbaum, Simon .....*Disclosed no conflict of interest.*

Greenblatt, Matthew.....*Disclosed no conflict of interest.*

Greenblatt, Matthew B......*Disclosed no conflict of interest.*

Greendyk, Joshua D. .....*Disclosed no conflict of interest.*

Greene, Alexander T .....*3A*: Exactech, Inc.

Greene, Elizabeth.....*3A*: PAID EMPLOYEE of Tissue Testing Technologies LLC.

Greene, Vaughn .....*Disclosed no conflict of interest.*

Greenfield, Edward M.....*8*: JOR.

Greenfield, Michelle R .....*Disclosed no conflict of interest.*

Greenwood, Valerie.....*3A*: Arthrex, Inc.

Gregoire, Stephanie.....*Disclosed no conflict of interest.*

Greif, Dylan N .....*Disclosed no conflict of interest.*

Greig, Danielle .....*Disclosed no conflict of interest.*

Greising, Sarah.....*Disclosed no conflict of interest.*

Gresham, Robert.....*Disclosed no conflict of interest.*

Griffin, Katherine H......*Disclosed no conflict of interest.*

Griffin, Timothy M .....*8*: TM Griffin receives payment as an Associate Editor of the journal Osteoarthritis and Cartilage.

Griffin, Timothy M. .....*Disclosed no conflict of interest.*

Griffith, Jacob .....*Disclosed no conflict of interest.*

Griffith, Jacob L.....*Disclosed no conflict of interest.*

Grinstaff, Mark G. .....*3C*: Articulate Biosciences.

Grinstaff, Mark W .....*Disclosed no conflict of interest.*

Griswold, Anthony J.....*Disclosed no conflict of interest.*

Grodzinsky, Alan .....*8*: Osteoarthritis and Cartilage.

Grodzinsky, Alan J.....*8*: Osteoarthritis and Cartilage.

Grodzinsky, Alan J......*Disclosed no conflict of interest.*

Groisser, Benjamin.....*Disclosed no conflict of interest.*

Groke, Martin .....*Disclosed no conflict of interest.*

Grol, Matthew W.....*Disclosed no conflict of interest.*

Gross, Jeff .....*3A*: Canary Medical; *3B*: In Situ Therapeutic Solutions, Inc, Summatix Pty Ltd; *4*: Canary Medical, In Situ Therapeutic Solutions, Inc, Summatix Pty Ltx.

Gross, Jeffrey .....*3A*: Canary Medical Inc; *3B*: In Situ Therapeutic Solutions Inc, Summatix Pty Ltd; *4*: Canary Medical Inc, In Situ Therapeutic Solutions Inc, Summatix Pty Ltd.

Gross, Richard.....*Disclosed no conflict of interest.*

Grzeskowiak, Remi M .....*Disclosed no conflict of interest.*

Gu, Alex .....*Disclosed no conflict of interest.*

Gu, Jianguo G.....*Disclosed no conflict of interest.*

Gu, Weiyong .....*Disclosed no conflict of interest.*

Guang, Young.....*Disclosed no conflict of interest.*

Guardia, Angelica.....*Disclosed no conflict of interest.*

Guarise, Cristian.....*3A*: Fidia Farmaceutici.

Gudmundsson, Paul A.....*Disclosed no conflict of interest.*

Guermazi, Ali .....*3B*: Boston Imaging Core Labs, LLC.

Guerra, Fernanda.....*3A*: 3A.

Guerra, Rodrigo B .....*Disclosed no conflict of interest.*

Gugala, Zbigniew .....*Disclosed no conflict of interest.*

Gui, Tao .....*Disclosed no conflict of interest.*

Guidetti, Martina.....*Disclosed no conflict of interest.*

Guilak, Farshid .....*3A*: Cytex.

Guilak, Farshid .....*3A*: Cytex, Inc.; *4*: Cytex, Inc.

Guilak, Farshid .....*3A*: Cytex Therapeutics; *4*: Cytex Therapeutics.

Guilak, Farshid .....*3A*: Cytex; *4*: Cytex.

Guillaume, Tenner .....*3B*: Nuvasive, Zimmer Biomet.

Gulati, Simmi .....*3A*: Zimmer Biomet.

Gullbrand, Sarah.....*Disclosed no conflict of interest.*

Gullbrand, Sarah E .....*Disclosed no conflict of interest.*

Gulotta, Lawrence V .....*3B*: Exactech.

Gunsch, Gilian.....*Disclosed no conflict of interest.*

Guo, Danqing.....*Disclosed no conflict of interest.*

Guo, Fengjing.....*Disclosed no conflict of interest.*

Guo, Ping .....*Disclosed no conflict of interest.*

Guo, Runsheng.....*Disclosed no conflict of interest.*

Guo, Weihua.....*Disclosed no conflict of interest.*

Guo, Wendi.....*Disclosed no conflict of interest.*

Guo, X Edward .....*Disclosed no conflict of interest.*

Guo, X. Edward .....*Disclosed no conflict of interest.*

Guo, Xiangdong Edward .....*Disclosed no conflict of interest.*

Guo, Xiang-Dong Edward.....*Disclosed no conflict of interest.*

Guo, Xiaodong .....*Disclosed no conflict of interest.*

Guo, Xiaohan .....*Disclosed no conflict of interest.*

Guo, Xiaojie .....*Disclosed no conflict of interest.*

Gupta, Munish C .....*Disclosed no conflict of interest.*

Gupta, Sachin.....*Disclosed no conflict of interest.*

Gupta, Sanjay.....*Disclosed no conflict of interest.*

Gurevich, Mikhail.....*Disclosed no conflict of interest.*

Gusho, Charles A.....*Disclosed no conflict of interest.*

Guss, Daniel .....*6*: Extremity Medical.

Guss, Daniel .....*5*: Research Support from Butterfly Network.

Gustafson, Jonathan A .....*Disclosed no conflict of interest.*

Gutierrez, Manuel.....*Disclosed no conflict of interest.*

Guzman, Roberto A......*Disclosed no conflict of interest.*

Guzman, Roberto Alfonso.....*Disclosed no conflict of interest.*

Gwam, Chukwuweike U......*Disclosed no conflict of interest.*

Gwark, Ji-Yong .....*Disclosed no conflict of interest.*

Ha, Kelly.....*Disclosed no conflict of interest.*

Haas, Gabriel .....*4*: CEO of GenAssist.

Haber, Daniel B......*Disclosed no conflict of interest.*

Habet, Nahir .....*Disclosed no conflict of interest.*

Habib, Mohamed.....*Disclosed no conflict of interest.*

Häckel, Sonja .....*Disclosed no conflict of interest.*

Hacker, Scott.....*5*: Active Implants LLC, 6060 Primacy Parkway, Suite 460, Memphis, TN, USA.

Hackett, Thomas.....*2*: Arthrex, Inc., Sonoma Orthopaedics; *3B*: Arthrex, Inc.; *4*: NICE; *5*: Arthrex, Inc.

Haddox, Abby .....*Disclosed no conflict of interest.*

Haffner, Max.....*Disclosed no conflict of interest.*

Haffner, Max R.....*Disclosed no conflict of interest.*

Haffner-Luntzer, Melanie.....*9*: Secretary of ORS ISFR; Bord of Directors ECTS Academy.

Haffner-Luntzer, Melanie.....*9*: Secretary of ORS ISFR; Board of Directors ECTS Academy.

Hagan, Mackenzie.....*Disclosed no conflict of interest.*

Hagemeijer, Noortje .....*Disclosed no conflict of interest.*

Haglund, Lisbet .....*Disclosed no conflict of interest.*

Haider, Mohammad N .....*Disclosed no conflict of interest.*

Haishima, Yuji .....*Disclosed no conflict of interest.*

Haji Masr, Halimatul .....*Disclosed no conflict of interest.*

Hakimiyan, Arnavaz .....*Disclosed no conflict of interest.*

Hakimiyan, Arnavaz A .....*Disclosed no conflict of interest.*

Hakukawa, Satoshi .....*Disclosed no conflict of interest.*

Hakun, Maxwell .....*Disclosed no conflict of interest.*

Hall, Anya .....*Disclosed no conflict of interest.*

Hall, Deborah .....*Disclosed no conflict of interest.*

Hall, Deborah J .....*Disclosed no conflict of interest.*

Hall, Deborah J. .....*3B*: Wright Medical Technology; *5*: Wright Medical Technology, Zimmer-Biomet; *9*: ORS.

Hall, Lauren .....*Disclosed no conflict of interest.*

Hall, Patrick T .....*Disclosed no conflict of interest.*

Hall, Thomas Ainsley Grant .....*Disclosed no conflict of interest.*

Hallab, Nadim .....*6*: Orthopedic Analysis LLC, BioEngineering Solutions Inc.

Hallab, Nadim .....*3A*: Orthopedic Analysis.

Haller, Justin .....*Disclosed no conflict of interest.*

Halvachizadeh, Sascha .....*Disclosed no conflict of interest.*

Hama, Shunpei .....*Disclosed no conflict of interest.*

Hamada, Hidetoshi .....*Disclosed no conflict of interest.*

Hamada, Takahiro .....*Disclosed no conflict of interest.*

Hamai, Satoshi .....*Disclosed no conflict of interest.*

Hambright, Sealy .....*Disclosed no conflict of interest.*

Hambright, William S .....*Disclosed no conflict of interest.*

Hamer, Andrew J .....*Disclosed no conflict of interest.*

Hamilton, John L .....*Disclosed no conflict of interest.*

Hamilton, Landon D .....*Disclosed no conflict of interest.*

Hamilton, Landon Douglas .....*Disclosed no conflict of interest.*

Hamlin, Brian .....*1*: Bodycad; *3A*: Bodycad; *4*: Bodycad; *8*: J. Arthroplasty, Transfusion; *9*: AAOS.

Hamlin, Brian R .....*Disclosed no conflict of interest.*

Hamm, Megan .....*Disclosed no conflict of interest.*

Hampp, Emily.....*3A*: Stryker; *4*: Stryker.

Hampp, Emily.....*3A*: Stryker.

Hamrick, Mark .....*Disclosed no conflict of interest.*

Hamrick, Mark W.....*Disclosed no conflict of interest.*

Han, Biao .....*Disclosed no conflict of interest.*

Han, Cheol-Min.....*Disclosed no conflict of interest.*

Han, Guebum.....*Disclosed no conflict of interest.*

Han, Hyuk Soo .....*Disclosed no conflict of interest.*

Han, Hyuk-Soo .....*Disclosed no conflict of interest.*

Han, Jian .....*Disclosed no conflict of interest.*

Han, Lin.....*Disclosed no conflict of interest.*

Han, Mo.....*Disclosed no conflict of interest.*

Han, Yan .....*Disclosed no conflict of interest.*

Hanada, Shuji.....*Disclosed no conflict of interest.*

Hanamatsu, Hisatoshi.....*Disclosed no conflict of interest.*

Hanaoka, Chad.....*Disclosed no conflict of interest.*

Hanberg, Pelle .....*Disclosed no conflict of interest.*

Hancock, Christopher.....*Disclosed no conflict of interest.*

Hand, Sarah .....*Disclosed no conflict of interest.*

Häne, Surya I.....*Disclosed no conflict of interest.*

Haneda, Masahiko.....*Disclosed no conflict of interest.*

Hankenson, Kurt D.....*3C*: Orthofix; *4*: Rockwell Medical and Emergent; *5*: Orthofix; *6*: Orthofix; *7A*: Orthofix; *8*: Clinical Reviews in Bone and Mineral Metabolism; Connective Tissue Research; *9*: American Society for Bone and Mineral Research.

Hankenson, Kurt D......*Disclosed no conflict of interest.*

Hankins, Margaret L.....*Disclosed no conflict of interest.*

Hanna, Gabriel.....*Disclosed no conflict of interest.*

Hansbro, Philip M .....*Disclosed no conflict of interest.*

Hansen, Oliver .....*Disclosed no conflict of interest.*

Hanson, Marcelline.....*Disclosed no conflict of interest.*

Hao, Stephanie P. .....*Disclosed no conflict of interest.*

Hao, Xiaoxia.....*Disclosed no conflict of interest.*

Haqqi, Tariq M .....*Disclosed no conflict of interest.*

Haque, Eakeen Muhammad.....*Disclosed no conflict of interest.*

Hara, Hitomi .....*Disclosed no conflict of interest.*

Harada, Satoru.....*Disclosed no conflict of interest.*

Harada, Tetsunari .....*Disclosed no conflict of interest.*

Harasymowicz, Natalia .....*Disclosed no conflict of interest.*

Harasymowicz, Natalia S.....*Disclosed no conflict of interest.*

Harato, Kengo.....*Disclosed no conflict of interest.*

Harbham, Pratap .....*Disclosed no conflict of interest.*

Harder, Ben.....*3A*: Stryker.

Hardisty, Michael.....*Disclosed no conflict of interest.*

Hardy, Jolene .....*Disclosed no conflict of interest.*

Hargens, Alan R......*8*: J Grav Physiology Board; *9*: Society of Gravitational Physiology.

Hargett, Zach .....*Disclosed no conflict of interest.*

Hargreaves, Brian .....*5*: GE Healthcare.

Hargreaves, Brian A .....*5*: GE Healthcare.

Hargrove, Levi.....*Disclosed no conflict of interest.*

Harissa, Zainab.....*Disclosed no conflict of interest.*

Harker, Emily C .....*Disclosed no conflict of interest.*

Harley, Joel B. .....*Disclosed no conflict of interest.*

Harm, Kyrstle A.....*Disclosed no conflict of interest.*

Harman, Melinda.....*Disclosed no conflict of interest.*

Harmon, Ian.....*Disclosed no conflict of interest.*

Harrington, Colin .....*Disclosed no conflict of interest.*

Harrington, Kristin .....*Disclosed no conflict of interest.*

Harris, Charles.....*Disclosed no conflict of interest.*

Harris, Charles A. .....*3A*: Regeneron Pharmaceuticals; *4*: Regeneron Pharmaceuticals; *6*: Regeneron Pharmaceuticals; *7A*: Regeneron Pharmaceuticals.

Harris, Gerald J.....*9*: Pediatric Orthopaedic Society of N.A. (POSNA) Committee Member, Children's Orthopedics in Underserved Regions (COUR), GCMAS, Past President of the Board of Directors,.

Harris, Loyall .....*Disclosed no conflict of interest.*

Harris, Michael.....*Disclosed no conflict of interest.*

Harris, Michael D .....*Disclosed no conflict of interest.*

Harris, Michael D. .....*Disclosed no conflict of interest.*

Harris, Mike D .....*Disclosed no conflict of interest.*

Harris, Taylor .....*Disclosed no conflict of interest.*

Harris, Taylor L.....*Disclosed no conflict of interest.*

Harrison, Zoe .....*Disclosed no conflict of interest.*

Hart, Christopher M. .....*Disclosed no conflict of interest.*

Hartanto, Jeffry.....*Disclosed no conflict of interest.*

Hartl, Roger .....*4*: 3D Bio Corp.

Härtl, Roger .....*4*: 3D Bio Corp.

Hartnell, Nicholas J .....*4*: Bone Ligament Tendon.

Harty, James A .....*2*: DePuy Synthes; *4*: OrthoXel DAC; *5*: OrthoXel DAC; *6*: OrthoXel DAC.

Haru Yang, Haru.....*Disclosed no conflict of interest.*

Harvey, Justin .....*Disclosed no conflict of interest.*

Harvey, Michael Joseph .....*Disclosed no conflict of interest.*

Hasan, Sadaf .....*Disclosed no conflict of interest.*

Hasegawa, Masahiro .....*Disclosed no conflict of interest.*

Hashimoto, Shingo.....*Disclosed no conflict of interest.*

Hashimoto, Takeshi .....*Disclosed no conflict of interest.*

Hashimoto, Yusuke.....*Disclosed no conflict of interest.*

Hassan, Chaudhry R .....*Disclosed no conflict of interest.*

Hasson, Maddie .....*Disclosed no conflict of interest.*

Hast, Michael W.....*Disclosed no conflict of interest.*

Hastings, Mary K.....*Disclosed no conflict of interest.*

Hatakeyama, Miki.....*Disclosed no conflict of interest.*

Hattori, Kyosuke.....*Disclosed no conflict of interest.*

Hattori, Soichi.....*3B*: Soichi Hattori.

Hattori, Yoshio.....*Disclosed no conflict of interest.*

Haubruck, Patrick.....*8*: Associated Editor OTSR.

Haudenschild, Anne K.....*4*: Tesio Pharmaceutical.

Haudenschild, Dominik R.....*4*: Tesio Pharmaceuticals.

Haugan, Delaney.....*Disclosed no conflict of interest.*

Haunschild, Eric.....*Disclosed no conflict of interest.*

Hausselle, Jerome.....*Disclosed no conflict of interest.*

Havasy, Janice.....*Disclosed no conflict of interest.*

Havey, Robert.....*Disclosed no conflict of interest.*

Havlioglu, Necat.....*Disclosed no conflict of interest.*

Hawk, Greg S.....*Disclosed no conflict of interest.*

Hawk, Gregory S......*Disclosed no conflict of interest.*

Hawse, Gresin.....*Disclosed no conflict of interest.*

Hawse, Gresin P.....*Disclosed no conflict of interest.*

Hayashi, Shinya.....*Disclosed no conflict of interest.*

Hayashi, Takuo.....*Disclosed no conflict of interest.*

Hayashi, Yukinori.....*Disclosed no conflict of interest.*

Hayashi, Yuta.....*Disclosed no conflict of interest.*

Hayashida, Kenta.....*Disclosed no conflict of interest.*

Hayden, Holly.....*Disclosed no conflict of interest.*

Haynes, Sara.....*Disclosed no conflict of interest.*

Hays, Thomas R.....*Disclosed no conflict of interest.*

He, Chunrong.....*Disclosed no conflict of interest.*

He, Jade.....*Disclosed no conflict of interest.*

He, Jianghua.....*Disclosed no conflict of interest.*

He, Jinshen.....*Disclosed no conflict of interest.*

He, Rui.....*Disclosed no conflict of interest.*

He, Wenjun.....*Disclosed no conflict of interest.*

He, Yuchen.....*Disclosed no conflict of interest.*

Healy, Kevin.....*Disclosed no conflict of interest.*

Heaton, Will.....*3A*: DiscGenics; *4*: DiscGenics.

Heckelman, Lauren N.....*Disclosed no conflict of interest.*

Heckmann, Nathanael .....*3B*: Intellijoint Surgical, MicroPort Orthopedics; *9*: AAOS.

Heckmann, Nathanael D .....*Disclosed no conflict of interest.*

Heckmann, Terry.....*Disclosed no conflict of interest.*

Hedberg, Riley .....*Disclosed no conflict of interest.*

Heer, Martina .....*Disclosed no conflict of interest.*

Hefferan, Samantha A.....*Disclosed no conflict of interest.*

Hegarty, John.....*Disclosed no conflict of interest.*

Heil, Todd .....*3A*: Theradaptive, Inc.

Heldreth, Mark A .....*3A*: DePuy Synthes; *4*: DePuy Synthes.

Heldreth, Mark A. .....*3A*: DePuy Synthes; *4*: DePuy Synthes.

Hélène, Follet.....*Disclosed no conflict of interest.*

Helgason, Benedikt.....*Disclosed no conflict of interest.*

Hellwinkel, Justin E .....*Disclosed no conflict of interest.*

Helwig, Nathaniel E.....*Disclosed no conflict of interest.*

Hempen, Eric C.....*5*: Zimmer, Inc. provided the hardware.

Henak, Corinne R .....*Disclosed no conflict of interest.*

Henderson, Adam D.....*3A*: Zimmer Biomet; *4*: Zimmer Biomet.

Henderson, Cortney.....*Disclosed no conflict of interest.*

Henne, Michael.....*Disclosed no conflict of interest.*

Henning, Emilie N .....*Disclosed no conflict of interest.*

Henninger, Heath.....*Disclosed no conflict of interest.*

Henry, Aaron .....*Disclosed no conflict of interest.*

Henry, Jensen K .....*Disclosed no conflict of interest.*

Henry, Jensen K. .....*Disclosed no conflict of interest.*

Henry, Marquessa.....*Disclosed no conflict of interest.*

Heo, Su-Jin .....*Disclosed no conflict of interest.*

Hepfer, R. Glenn .....*Disclosed no conflict of interest.*

Herda, Ashley.....*Disclosed no conflict of interest.*

Hermanns, Christina .....*Disclosed no conflict of interest.*

Hernandez, Christopher J.....*Disclosed no conflict of interest.*

Hernandez, Paula.....*Disclosed no conflict of interest.*

Herndon, Carl.....*9*: AAOS.

Herrick, Jim L. .....*Disclosed no conflict of interest.*

Herrmann, Marietta.....*Disclosed no conflict of interest.*

Hertzler, Justin S .....*3A*: Zimmer Biomet; *4*: Zimmer Biomet.

Herzog, Mackenzie D .....*3A*: serve as consultant and PI for studies conducted by orthopedic device manufactures, paid for indirectly to their full-time employer IQVIA.

Herzog, Walter.....*Disclosed no conflict of interest.*

Hess, Madeline .....*Disclosed no conflict of interest.*

Hettinghouse, Aubryanna.....*Disclosed no conflict of interest.*

Hetzel, Scott J .....*Disclosed no conflict of interest.*

Hetzel, Scott J. .....*Disclosed no conflict of interest.*

Heuberger, Peter .....*3A*: Nobel Biocare Services AG.

Heveran, Chelsea .....*Disclosed no conflict of interest.*

Heveran, Chelsea M.....*Disclosed no conflict of interest.*

Heveran, Chelsea M......*Disclosed no conflict of interest.*

Hewett, Timothy E .....*Disclosed no conflict of interest.*

Hewison, Christopher .....*Disclosed no conflict of interest.*

Hibbard, Julia N.....*Disclosed no conflict of interest.*

Hickernell, Thomas .....*Disclosed no conflict of interest.*

Hickok, Noreen J .....*5*: Irrisept.

Hidalgo-García, César.....*Disclosed no conflict of interest.*

Hideshima, Kelsey.....*Disclosed no conflict of interest.*

Hieronymus, Brooke.....*Disclosed no conflict of interest.*

Higa, Kotaro.....*Disclosed no conflict of interest.*

Higaki, Hidehiko.....*Disclosed no conflict of interest.*

Higashihira, Shota.....*Disclosed no conflict of interest.*

Higgins, Cassidy .....*Disclosed no conflict of interest.*

Higgins, Thomas.....*Disclosed no conflict of interest.*

Highsmith, Angelica .....*3A*: DiscGenics; *4*: DiscGenics.

Higinbotham, Sean .....*Disclosed no conflict of interest.*

Higinbotham, Sean E.....*5*: Sean E Higinbotham.

Higuera, Carlos.....*Disclosed no conflict of interest.*

Higuita-Castro, Natalia.....*Disclosed no conflict of interest.*

Hikida, Minami .....*Disclosed no conflict of interest.*

Hill, Cherice N .....*Disclosed no conflict of interest.*

Hill, Ryan.....*Disclosed no conflict of interest.*

Hillen, Travis J .....*Disclosed no conflict of interest.*

Hilliard, Genevieve.....*Disclosed no conflict of interest.*

Hillstrom, Howard J .....*Disclosed no conflict of interest.*

Hillstrom, Howard J. .....*Disclosed no conflict of interest.*

Hillstrom, Rajshree .....*Disclosed no conflict of interest.*

Hillyard, Clay.....*3A*: 3A.

Him Lim, Boon .....*3A*: DePuy Synthes.

Hines, Madeline R.....*Disclosed no conflict of interest.*

Hinkle, Andrew .....*Disclosed no conflict of interest.*

Hino, Jun.....*Disclosed no conflict of interest.*

Hiraiwa, Hideki .....*Disclosed no conflict of interest.*

Hiranaka, Takafumi.....*Disclosed no conflict of interest.*

Hiroaki, Wada .....*Disclosed no conflict of interest.*

Hirose, Kazuki .....*Disclosed no conflict of interest.*

Hiroshima, Yuji .....*Disclosed no conflict of interest.*

Hirota, Kento .....*Disclosed no conflict of interest.*

Hirvasniemi, Jukka.....*Disclosed no conflict of interest.*

Hishimura, Ryosuke.....*Disclosed no conflict of interest.*

Hishimura, Ryousuke.....*Disclosed no conflict of interest.*

Hislop, Brady.....*Disclosed no conflict of interest.*

Hittel, Dustin.....*Disclosed no conflict of interest.*

Hmeidan, Wassim.....*Disclosed no conflict of interest.*

Ho, Brendan.....*Disclosed no conflict of interest.*

Ho, Charles P.....*3B*: Rotation Medical; *5*: Research supported by Steadman Philippon Research Institute grant funding or in-kind donations from Arthrex, DJO, MLB, Ossur, Siemens, Canon, Smith & Nephew, XTRE & DoD, NIH grants.

Ho, Mei-Ling .....*Disclosed no conflict of interest.*

Ho, Michael.....*Disclosed no conflict of interest.*

Ho, Nathan C.....*Disclosed no conflict of interest.*

Ho, Ritchie .....*Disclosed no conflict of interest.*

Hobson, Eric.....*Disclosed no conflict of interest.*

Hodges, Nathan .....*Disclosed no conflict of interest.*

Hodgkinson, Tom.....*Disclosed no conflict of interest.*

Hoefler, Anna K.....*Disclosed no conflict of interest.*

Hoefler, Anna K......*Disclosed no conflict of interest.*

Hoekzema, Nathan .....*Disclosed no conflict of interest.*

Hoel, Cathleen .....*Disclosed no conflict of interest.*

Hoemann, Caroline D......*3C*: Ortho RTi; *4*: Ortho RTi; *8*: Cartilage; Open OA&C.

Hoey, David .....*Disclosed no conflict of interest.*

Hoff, Paula .....*Disclosed no conflict of interest.*

Hoffman, Eric .....*Disclosed no conflict of interest.*

Hoffman, Isaac.....*Disclosed no conflict of interest.*

Hoffman, Jeffrey .....*Disclosed no conflict of interest.*

Hoffman, Jeffrey William .....*Disclosed no conflict of interest.*

Hoffmann, Ilona.....*3A*: Teijin Nakashima Medical Co.,Ltd.

Hogan, MaCalus.....*Disclosed no conflict of interest.*

Hogan, MaCalus V.....*Disclosed no conflict of interest.*

Hoggard, Nigel .....*Disclosed no conflict of interest.*

Hohl, Katherine M.....*Disclosed no conflict of interest.*

Hoke, Ahmet.....*3B*: Pfizer; *8*: Annals of Clinical Translational Neurology, Experimental Neurology; *9*: Disarm Therapeutics, AxoProtego Therapeutics.

Holcomb, Amy E.....*Disclosed no conflict of interest.*

Holdreith, Nicholas .....*Disclosed no conflict of interest.*

Holguin, Nilsson.....*8*: Associate Editor of Connective Tissue Research.

Holguin, Nilsson.....*8*: Associate Editor for Connective Tissue Research.

Holland, Christopher Thomas ...*Disclosed no conflict of interest.*

Holloway, Matthew.....*Disclosed no conflict of interest.*

Holmboe, Michael .....*Disclosed no conflict of interest.*

Holst, Brianna .....*Disclosed no conflict of interest.*

Holt, Abigail G.....*Disclosed no conflict of interest.*

Homan, Kentaro.....*Disclosed no conflict of interest.*

Honda, Hideki .....*Disclosed no conflict of interest.*

Hong, Jae Taek.....*Disclosed no conflict of interest.*

Hontani, Kazutoshi.....*Disclosed no conflict of interest.*

Hoppe, Sven.....*Disclosed no conflict of interest.*

Hoppock, Gabriel .....*Disclosed no conflict of interest.*

Hoppock, Gabriel A .....*Disclosed no conflict of interest.*

Hopster, Klaus.....*Disclosed no conflict of interest.*

Hopwood, James D .....*6*: MatOrtho Ltd.

Hoque Apu, Ehsanul.....*Disclosed no conflict of interest.*

Hordacre, Brenton .....*8*: International Advisory Editorial Board of the Journal of Physiotherapy.

Horiuchi, Keisuke .....*6*: Eribulin mesylate was provided by Eisai Co., Ltd.

Horn, Andrew .....*Disclosed no conflict of interest.*

Horng, Jonathan Chang.....*Disclosed no conflict of interest.*

Hornung, Alexander L .....*Disclosed no conflict of interest.*

Horton, Jason.....*Disclosed no conflict of interest.*

Horton, Jason A .....*Disclosed no conflict of interest.*

Horton, William .....*Disclosed no conflict of interest.*

Hoshi, Kenji.....*Disclosed no conflict of interest.*

Hoshino, Takashi.....*Disclosed no conflict of interest.*

Hoshino, Yuichi .....*Disclosed no conflict of interest.*

Hosokawa, Yoshiaki.....*Disclosed no conflict of interest.*

Hossain, Nabid Aunjum .....*Disclosed no conflict of interest.*

Hosseini Nasab, Seyyed Hamed *Disclosed no conflict of interest.*

Hosseini, Zahra .....*Disclosed no conflict of interest.*

Hosseinzadeh, Shayan .....*Disclosed no conflict of interest.*

Hotaling, Jessica A .....*Disclosed no conflict of interest.*

Housman, Genevieve.....*Disclosed no conflict of interest.*

Howard, James .....*2*: DePuy, Stryker; *3B*: DePuy, Stryker, Smith & Nephew, IntelliJoint; *4*: PersaFix Technologies Inc.; *5*: DePuy; *6*: DePuy, Stryker, Smith & Nephew, Zimmer, Microport.

Howe, Danielle .....*Disclosed no conflict of interest.*

Howe, Tet Sen.....*Disclosed no conflict of interest.*

Howell, MD, Stephen M.....*3B*: Medacta Inc, Zimmer Biomet Inc.

Howell, Stephen .....*1*: Zimmer-Biomet; *3B*: Medacta; *7A*: Zimmer-Biomet.

Howell, Stephen M .....*3B*: Medacta; *7A*: Medacta.

Howell, Stephen M. .....*3B*: Medacta; *7A*: Medacta.

Hoyland, Judith A.....*Disclosed no conflict of interest.*

Hozack, William .....*3B*: Stryker.

Hrekso, M. Timothy .....*Disclosed no conflict of interest.*

Hsu, Ching-Yun.....*Disclosed no conflict of interest.*

Hsu, Erin L .....*Disclosed no conflict of interest.*

Hsu, Erin L. .....*Disclosed no conflict of interest.*

Hsu, Ginny Ching-Yun .....*Disclosed no conflict of interest.*

Hsu, Po-Cheng.....*Disclosed no conflict of interest.*

Hsu, Wellington K .....*3B*: Medtronic; *9*: LSRS, NASS, AAOS, CSRS.

Hsu, Wellington K .....*3B*: Medtronic; *9*: Lumbar Spine Research Society, American Academy of Orthopaedic Surgeons, North American Spine Society, Cervical Spine Research Society.

Hsu, Wellington K. .....*3B*: Medtronic; *9*: American Academy of Orthopaedic Surgeons, Lumbar Spine Research Society, North American Spine Society, Cervical Spine Research Society.

Hsu, Wellington K. .....*3B*: Medtronic; *9*: AAOS, LSRS, NASS, CSRS.

Hu, Diane .....*Disclosed no conflict of interest.*

Hu, Dorothy .....*Disclosed no conflict of interest.*

Hu, Liangjun .....*Disclosed no conflict of interest.*

Hu, Nan.....*Disclosed no conflict of interest.*

Hu, Xiaoqing .....*Disclosed no conflict of interest.*

Hu, Yizhong.....*Disclosed no conflict of interest.*

Hu, Yizhong Jenny.....*Disclosed no conflict of interest.*

Huang, Alice.....*Disclosed no conflict of interest.*

Huang, Alice H.....*Disclosed no conflict of interest.*

Huang, Bert.....*Disclosed no conflict of interest.*

Huang, Chun-Hao.....*Disclosed no conflict of interest.*

Huang, Chun-Yuh .....*Disclosed no conflict of interest.*

Huang, Ejun.....*Disclosed no conflict of interest.*

Huang, Elijah.....*Disclosed no conflict of interest.*

Huang, Elijah Ejun .....*Disclosed no conflict of interest.*

Huang, Hanqing .....*Disclosed no conflict of interest.*

Huang, Jiahui .....*Disclosed no conflict of interest.*

Huang, Lingwei .....*Disclosed no conflict of interest.*

Huang, Shuting .....*Disclosed no conflict of interest.*

Huang, Tony Chieh-Ting.....*Disclosed no conflict of interest.*

Huang, Tung-Fu.....*Disclosed no conflict of interest.*

Huang, Yi-Chao .....*Disclosed no conflict of interest.*

Huang, Yichen.....*Disclosed no conflict of interest.*

Huang, Yufei .....*Disclosed no conflict of interest.*

Huang, Yuming.....*Disclosed no conflict of interest.*

Huang, ZeYu.....*3B*: DePuy Synthes.

Huang, Zhiyu.....*Disclosed no conflict of interest.*

Huard, Charles .....*Disclosed no conflict of interest.*

Huard, Johnny.....*8*: Cell Transplantation, Current Genomics, Gene Review Letters, Histology & Histopathology, Journal of Tissue Science & Engineering, Journal Surgical Science, Molecular

Therapy, ORS2, Regenerative Medicine Journal, World Journal of Biological Chemistry, World Journal of Orthopaedics; *9*: Orthopaedic Research Society.

Huard, Johnny.....*1*: Cook Myosite; *9*: Orthopaedic Research Society.

Huard, Mathew.....*Disclosed no conflict of interest.*

Huard, Matthieu .....*Disclosed no conflict of interest.*

Huayamave, Victor .....*Disclosed no conflict of interest.*

Huber, Christian.....*Disclosed no conflict of interest.*

Hubley-Kozey, Cheryl L .....*Disclosed no conflict of interest.*

Huddleston, Hailey .....*Disclosed no conflict of interest.*

Huddleston, Hailey P.....*Disclosed no conflict of interest.*

Hudson, David .....*Disclosed no conflict of interest.*

Hudson, David M .....*Disclosed no conflict of interest.*

Hudson, David M. .....*Disclosed no conflict of interest.*

Huegel, Julianne.....*Disclosed no conflict of interest.*

Hugard, Shannon .....*Disclosed no conflict of interest.*

Hughes, Alexander.....*Disclosed no conflict of interest.*

Hughes, Alexander P.....*Disclosed no conflict of interest.*

Hughes, David.....*Disclosed no conflict of interest.*

Hughes, Jessica .....*Disclosed no conflict of interest.*

Hughes, Jonathan .....*Disclosed no conflict of interest.*

Huish, Eric G.....*Disclosed no conflict of interest.*

Huk, Olga .....*Disclosed no conflict of interest.*

Hull, Maury.....*5*: Medacta; *8*: Journal of Biomechanics.

Hull, Maury.....*5*: Medacta International; *7B*: Journal of Biomechanics.

Hull, Maury L .....*5*: Medacta.

Hull, Maury L. .....*6*: Medacta, Inc.; *8*: Journal of Biomechanics.

Hull, Peyton .....*Disclosed no conflict of interest.*

Hull, PhD, Maury L.....*5*: Medacta Inc; *8*: Journal of Biomechanics.

Hum, Nicholas R.....*Disclosed no conflict of interest.*

Hume, Donald R.....*Disclosed no conflict of interest.*

Humphries, Kenneth M......*Disclosed no conflict of interest.*

Hung, Alec Lik-Hang.....*Disclosed no conflict of interest.*

Hung, Clark T.....*Disclosed no conflict of interest.*

Hung, Clark T......*1*: Allosource, MTF; *2*: Editor of Journal of Orthopedics; *8*: Editor for Orthopedic Research and Reviews.

Hunt, Heather.....*Disclosed no conflict of interest.*

Hunt, Nic L .....*Disclosed no conflict of interest.*

Hunter, James.....*Disclosed no conflict of interest.*

Hunter, William .....*3A*: Canary Medical; *3B*: Adherium, Correvio Pharmaceuticals, Rex Medical, SoundBite Medical; *4*: Canary Medical, Adherium, Correvio Pharmaceuticals, Rex Medical, SoundBite Medical, Summatix.

Hunter, William .....*3A*: Canary Medical; *3B*: Adherium, Correvio Pharmaceuticals, Rex Medical, SoundBite Medical, Summatix; *4*: Canary Medical, Adherium, Correvio Pharmaceuticals, Rex Medical, SoundBite Medical, Summatix.

Hur, Jung-Woo.....*Disclosed no conflict of interest.*

Hurchalla, Georgia .....*3A*: MicroPort Orthopedics.

Hurst, Lawrence C.....*1*: Endo Pharmaceuticals, Biospecifics Technology Corp.; *3B*: Endo Pharmaceuticals, Biospecifics Technology Corp.

Hurtig, Mark .....*Disclosed no conflict of interest.*

Hurtig, Mark B .....*3B*: Ortho Regenerative Technologies Inc, Boehringer, Epibone; *4*: Ortho Regenerative Technologies Inc; *5*: Ortho Regenerative Technologies Inc.

Husmann, Niklas.....*Disclosed no conflict of interest.*

Hussein, Nazar .....*Disclosed no conflict of interest.*

Hussien, Amro A .....*Disclosed no conflict of interest.*

Hussien, Amro A. .....*Disclosed no conflict of interest.*

Hussien, Amro Ahmed .....*Disclosed no conflict of interest.*

Hutson, Irina.....*Disclosed no conflict of interest.*

Hwang, Charles.....*Disclosed no conflict of interest.*

Hwang, Eunjoo.....*Disclosed no conflict of interest.*

Hwang, In Won .....*Disclosed no conflict of interest.*

Hwang, Inwon.....*Disclosed no conflict of interest.*

Hwang, Mintai .....*Disclosed no conflict of interest.*

Hyodo, Yuki.....*Disclosed no conflict of interest.*

Hyonmin, Choe .....*Disclosed no conflict of interest.*

Iatridis, James .....*Disclosed no conflict of interest.*

Iatridis, James C .....*Disclosed no conflict of interest.*

Iatridis, James C. .....*Disclosed no conflict of interest.*

Idota, Masaru .....*Disclosed no conflict of interest.*

Igarashi, Yoichi.....*Disclosed no conflict of interest.*

Ignatius, Anita.....*Disclosed no conflict of interest.*

Igram, Cassim M .....*Disclosed no conflict of interest.*

Ii, Satoki.....*Disclosed no conflict of interest.*

Iino, Takahiro.....*Disclosed no conflict of interest.*

Iizawa, Norishige .....*Disclosed no conflict of interest.*

Ijomanta, Chiemezue N.....*Disclosed no conflict of interest.*

Ike, Hiroyuki.....*Disclosed no conflict of interest.*

Ikebe, Satoru .....*Disclosed no conflict of interest.*

Ikemura, Satoshi.....*Disclosed no conflict of interest.*

Ikeuchi, Masahiko.....*5*: Eli Lilly Japan K.K.

Ikuta, Kenmei.....*Disclosed no conflict of interest.*

Ikuta, Kunihiro .....*Disclosed no conflict of interest.*

Illien-Junger, Svenja.....*Disclosed no conflict of interest.*

Imagama, Shiro.....*Disclosed no conflict of interest.*

Imagama, Shirou.....*Disclosed no conflict of interest.*

Imamura, Ryuta .....*Disclosed no conflict of interest.*

Imanaka-Yoshida, Kyoko.....*Disclosed no conflict of interest.*

Imhauser, Carl.....*Disclosed no conflict of interest.*

Imhauser, Carl W .....*Disclosed no conflict of interest.*

Ina, Jason.....*Disclosed no conflict of interest.*

Inaba, Yutaka.....*3A*: Stryker Japan. K.K.

Inaba, Yutaka.....*2*: Stryer, smith & nephew, Zimmer Bimomet.

Inacio, Jordan .....*Disclosed no conflict of interest.*

Inamdar, Gaurav.....*Disclosed no conflict of interest.*

Indelli, Pier F .....*3B*: Exactech.

Innella, Kevin .....*Disclosed no conflict of interest.*

Ino, Takumi.....*Disclosed no conflict of interest.*

Inokuchi, Akihiko .....*Disclosed no conflict of interest.*

Inomata, Kei .....*Disclosed no conflict of interest.*

Inoue, Hiroaki .....*Disclosed no conflict of interest.*

Inoue, Hiroyuki .....*Disclosed no conflict of interest.*

Inoue, Nozomu .....*5*: National Institutes of Health.

Inoue, takahiro .....*Disclosed no conflict of interest.*

Inoue, Takayuki .....*Disclosed no conflict of interest.*

Intravia, Jessica M.....*Disclosed no conflict of interest.*

Intrieri, Kevin .....*Disclosed no conflict of interest.*

Inui, Atsuyuki.....*Disclosed no conflict of interest.*

Ippagunta, Likhitha.....*Disclosed no conflict of interest.*

Ippolito, Joseph .....*Disclosed no conflict of interest.*

Irastorza Landa, Ainara.....*3A*: Nobel Biocare Services AG.

Irianto, Jerome .....*Disclosed no conflict of interest.*

Irie, Tohru.....*Disclosed no conflict of interest.*

Irie, Tomoyo Y.....*Disclosed no conflict of interest.*

Irrgang, James.....*Disclosed no conflict of interest.*

Irrgang, James J.....*Disclosed no conflict of interest.*

Irwin, Rebecca M .....*Disclosed no conflict of interest.*

Isaksson, Hanna.....*Disclosed no conflict of interest.*

Isales, Carlos .....*Disclosed no conflict of interest.*

Isaza, Humberto.....*3A*: DePuy Synthes.

Isguven, Selin.....*Disclosed no conflict of interest.*

Ishida, Hiroyuki.....*Disclosed no conflict of interest.*

Ishigaki, Kosei .....*Disclosed no conflict of interest.*

Ishihara, Shingo .....*Disclosed no conflict of interest.*

Ishii, Keiko .....*Disclosed no conflict of interest.*

Ishii, Tomoo .....*Disclosed no conflict of interest.*

Ishikawa, Masakazu.....*Disclosed no conflict of interest.*

Ishizuka, Shinya .....*Disclosed no conflict of interest.*

Ismaily, Sabir .....*Disclosed no conflict of interest.*

Ismaily, Sabir K .....*Disclosed no conflict of interest.*

Isono, Masaaki.....*Disclosed no conflict of interest.*

Ita, Meagan.....*Disclosed no conflict of interest.*

Ita, Meagan E......*Disclosed no conflict of interest.*

Ito, Hiroshi .....*Disclosed no conflict of interest.*

Ito, Juji .....*Disclosed no conflict of interest.*

Ito, Kentaro.....*Disclosed no conflict of interest.*

Ito, Naoaki .....*Disclosed no conflict of interest.*

Itoh, Masafumi .....*Disclosed no conflict of interest.*

Itoi, Eiji.....*Disclosed no conflict of interest.*

Itou, Junya .....*Disclosed no conflict of interest.*

Iuso, Anthony .....*Disclosed no conflict of interest.*

Ivashkiv, Lionel .....*3C*: Eli Lilly.

Ivashkiv, Lionel B .....*3C*: Eli Lilly and Company.

Ivashkiv, Lionel B .....*3C*: Eli Lilly.

Ivashkiv, Lionel B. .....*3C*: Eli Lilly.

Ivy, Amanda K.....*Disclosed no conflict of interest.*

Iwama, Yu.....*Disclosed no conflict of interest.*

Iwamoto, Masahiro .....*8*: Editorial Board member for journal "Osteoarthritis and Cartilage".

Iwao, Yasushi.....*Disclosed no conflict of interest.*

Iwasa, Makoto.....*Disclosed no conflict of interest.*

Iwasaki, Hiroshi .....*Disclosed no conflict of interest.*

Iwasaki, Koji.....*5*: Olympus Terumo Biomaterials Corp.

Iwasaki, Koji.....*6*: This work was supported by [KAKEN-Grant-in-Aid for Young Scientists] under grant #18K16642.

Iwakaki, Koji .....*5*: Olympus Terumo Biomaterials Corp.

Iwasaki, Norimasa.....*Disclosed no conflict of interest.*

Iyer, Abishek.....*Disclosed no conflict of interest.*

Iyer, Hari.....*Disclosed no conflict of interest.*

Izumi, Masashi.....*Disclosed no conflict of interest.*

Izumi, Soutarou.....*Disclosed no conflict of interest.*

Izumiyama, Takuya.....*Disclosed no conflict of interest.*

Jaarsma, Ruurd L.....*Disclosed no conflict of interest.*

Jackson, Alicia.....*Disclosed no conflict of interest.*

Jackson, Alicia R.....*Disclosed no conflict of interest.*

Jackson, Nicholas J.....*Disclosed no conflict of interest.*

Jacobs, Cale.....*3B*: Flexion Therapeautic; *5*: Flexion Therapeautic, Smith & Nephew; *8*: Journal of Sports Rehabilitation.

Jacobs, Cale.....*3B*: Flexion Therapeutics; *5*: Flexion Therapeutics, Smith & Nephew.

Jacobs, Joshua J.....*3B*: Zimmer-Biomet; *4*: Hyalex; *5*: Medtronic Sofamor Danek, Nuvasive, Zimmer-Biomet; *7B*: Journal of Bone and Joint Surgery-American; *9*: American Board of Orthopedic Surgery, Inc, Hip Society, Orthopedic Research and Education Foundation.

Jacobs, Joshua J.....*3B*: Medtronic Sofamor Danek; *4*: Implant Protection, Medtronic Sofamor Danek, Nuvasive, Zimmer.

Jacobs, Joshua J.....*3B*: Medtronic; *4*: Implant Protection; *5*: Zimmer, Nuvasive, Medtronic.

Jacobs, Joshua J......*5*: Zimmer Biomet.

Jacobs, Joshua J......*4*: Implant Protection; *5*: Medtronics, Nuvasive, Zimmer-Biomet.

Jacobs, Joshua J......*3B*: Medtronic Sofamor Danek; *4*: Implant Protection; *5*: Medtronic Sofamor Danek, Nuvasiv, Zimmer Biomet.

Jacobs, Joshua J......*3B*: Medtronic Sofamor Danek; *4*: Implant Protection; *5*: Medtronic Sofamor Danek, Nuvasive, Zimmer.

Jacobsen, Timothy.....*Disclosed no conflict of interest.*

Jacobsen, Timothy R......*Disclosed no conflict of interest.*

Jacobson, Daniel.....*Disclosed no conflict of interest.*

Jacofsky, Marc.....*Disclosed no conflict of interest.*

Jäger, Patrick.....*Disclosed no conflict of interest.*

Jahandar, Amir.....*Disclosed no conflict of interest.*

Jahandar, Hamidreza.....*Disclosed no conflict of interest.*

Jahangir, Sana.....*Disclosed no conflict of interest.*

Jain, Era .....*Disclosed no conflict of interest.*

Jain, Nitin B.....*8*: J Bone Joint Surg Am, Am J Phys Med Rehabil.

Jaiswal, Anmol J K.....*Disclosed no conflict of interest.*

Jakus, Adam.....*3A*: Dimension Inx LLC; *4*: Dimension Inx LLC.

Jalics, Alena .....*Disclosed no conflict of interest.*

Jalil, Abdalziz.....*Disclosed no conflict of interest.*

Jamali, Amir .....*Disclosed no conflict of interest.*

James, Aaron .....*3B*: Scientific Advisory Board, Novadip Biosciences; *8*: Editorial Board, Bone Research and American Journal of Pathology.

James, Aaron W .....*3B*: Novadip Biosciences; *8*: Editorial Board, Bone Research.

James, Aaron W .....*8*: Bone Research, American Journal of Pathology; *9*: Novadip Biosciences.

James, Aaron W. .....*3B*: Scientific Advisory Board, Novadip Biosciences; *9*: Editorial Board, Bone Research, American Journal of Pathology.

James, Bryan.....*Disclosed no conflict of interest.*

James, Nia.....*Disclosed no conflict of interest.*

Janani, Ronak.....*Disclosed no conflict of interest.*

Jang, Ji Eun Jang.....*Disclosed no conflict of interest.*

Jang, Jin Ju .....*Disclosed no conflict of interest.*

Jang, SeonHo .....*Disclosed no conflict of interest.*

Janssen, Dennis.....*Disclosed no conflict of interest.*

Javaheri, Behzad .....*Disclosed no conflict of interest.*

Javidan, MD, Yashar.....*3B*: Alphatec, Stryker, Nuvasive, Medicrea.

Javors, Martin.....*Disclosed no conflict of interest.*

Jayabalan, Prakash .....*Disclosed no conflict of interest.*

Jayasuriya, Chathuraka.....*Disclosed no conflict of interest.*

Jayasuriya, Chathuraka T. .....*Disclosed no conflict of interest.*

Jayasuriya, Raveen L.....*Disclosed no conflict of interest.*

Jayaswal, Daksh.....*Disclosed no conflict of interest.*

Je, Mable .....*Disclosed no conflict of interest.*

Jean Paul, Roux.....*Disclosed no conflict of interest.*

Jeffers, Jonathan R.T......*3A*: Embody; *4*: Embody, Additive Instruments.

Jekir, Michael.....*3A*: NuVasive.

Jennings, J. Amber .....*5*: Abbott Diabetes Care, Austin Medical Ventures.; *6*: USBiologics; *7B*: Elsevier.

Jennings, Jessica A .....*5*: Abbott Diabetes Care, Austin Medical Ventures; *6*: USBiologics; *7B*: Elsevier.

Jensen, Andrew .....*3A*: Exactech Inc.

Jensen, Magnus .....*Disclosed no conflict of interest.*

Jeong, Hyeon Jang .....*Disclosed no conflict of interest.*

Jeong, Kyu Sang .....*Disclosed no conflict of interest.*

Jeong, Seung Jo.....*Disclosed no conflict of interest.*

Jeong, Soyeon.....*Disclosed no conflict of interest.*

Jeong, Yong-Hoon.....*Disclosed no conflict of interest.*

Jepsen, Karl J.....*Disclosed no conflict of interest.*

Jerabek, Seth .....*3B*: Stryker Corp; *4*: Stryker Corp; *7A*: Stryker Corp.

Jernigan, Ebony.....*Disclosed no conflict of interest.*

Jernigan, Ebony A .....*Disclosed no conflict of interest.*

Jessen, Christian .....*Disclosed no conflict of interest.*

Jeyapalina, Sujee .....*Disclosed no conflict of interest.*

Jia, Shaowei .....*Disclosed no conflict of interest.*

Jia, Zhenshan .....*Disclosed no conflict of interest.*

Jiang, Haochen.....*Disclosed no conflict of interest.*

Jiang, Jie.....*Disclosed no conflict of interest.*

Jiang, Kunqi.....*Disclosed no conflict of interest.*

Jiang, Min .....*Disclosed no conflict of interest.*

Jiang, Nan .....*Disclosed no conflict of interest.*

Jiang, Wensen.....*Disclosed no conflict of interest.*

Jiang, Xi.....*Disclosed no conflict of interest.*

Jiang, Xiaosong .....*Disclosed no conflict of interest.*

Jiang, Xiaqing.....*Disclosed no conflict of interest.*

Jiang, Ying.....*Disclosed no conflict of interest.*

Jin, Li.....*Disclosed no conflict of interest.*

Jin, Yan.....*Disclosed no conflict of interest.*

Jin, Yonghui.....*Disclosed no conflict of interest.*

Jing, Dian .....*Disclosed no conflict of interest.*

Jo, Changwung.....*Disclosed no conflict of interest.*

Jo, Stephanie Y.....*Disclosed no conflict of interest.*

Jo, Woo Lam .....*Disclosed no conflict of interest.*

Jo, Yongdeok.....*Disclosed no conflict of interest.*

Joaquim, Tony.....*3A*: Zimmer Biomet.

Joenathan, Anisha .....*Disclosed no conflict of interest.*

Joenathan, Anisha T.....*Disclosed no conflict of interest.*

Joenathan, Anisha T......*Disclosed no conflict of interest.*

Joeng, Kyu Sang .....*Disclosed no conflict of interest.*

Joesph, Panos .....*Disclosed no conflict of interest.*

Johnson, Camille.....*Disclosed no conflict of interest.*

Johnson, Camille C.....*Disclosed no conflict of interest.*

Johnson, Casey P.....*Disclosed no conflict of interest.*

Johnson, Evan P. .....*Disclosed no conflict of interest.*

Johnson, Gabriel T .....*Disclosed no conflict of interest.*

Johnson, Gillian.....*Disclosed no conflict of interest.*

Johnson, Karen .....*Disclosed no conflict of interest.*

Johnson, Karen C .....*Disclosed no conflict of interest.*

Johnson, Keir .....*Disclosed no conflict of interest.*

Johnson, Maribeth.....*Disclosed no conflict of interest.*

Johnson, Samuel R.....*Disclosed no conflict of interest.*

Johnson, Sherry .....*Disclosed no conflict of interest.*

Johnson, Valerie .....*Disclosed no conflict of interest.*

Johnston, Jeff.....*Disclosed no conflict of interest.*

Johnstone, Brian .....*7B*: Parent license royalties from Osiris Therapeutics, Inc.; *8*: Editorial board of European Cells Materials.

Johnstone, Brian .....*7A*: Osiris Therapeutics.

Johnstone, Brian .....*7B*: Osiris Therapeutics, inc.; *8*: European Cells and Materials.

Joiner, Akaysha.....*Disclosed no conflict of interest.*

Jonason, Jennifer H.....*Disclosed no conflict of interest.*

Jones, Alison .....*5*: DePuy Synthes; *6*: DePuy Synthes.

Jones, Amanda.....*3A*: DiscGenics; *4*: DiscGenics.

Jones, Brandon .....*Disclosed no conflict of interest.*

Jones, Brandon C .....*Disclosed no conflict of interest.*

Jones, Conor .....*Disclosed no conflict of interest.*

Jones, Deryk.....*Disclosed no conflict of interest.*

Jones, Hugh.....*Disclosed no conflict of interest.*

Jones, Kendra Wilson.....*Disclosed no conflict of interest.*

Jones, Kerywn.....*Disclosed no conflict of interest.*

Jones, Kyle .....*Disclosed no conflict of interest.*

Jones, Morgan .....*Disclosed no conflict of interest.*

Jones, Olivia L. .....*Disclosed no conflict of interest.*

Jones, Ryan.....*Disclosed no conflict of interest.*

Joo, Peter.....*Disclosed no conflict of interest.*

Jopkiewicz, Anita .....*Disclosed no conflict of interest.*

Jordan, David.....*Disclosed no conflict of interest.*

Jordanides, Jack.....*Disclosed no conflict of interest.*

Jørgensen, Andrea René .....*Disclosed no conflict of interest.*

Jorgensen, Thomas .....*Disclosed no conflict of interest.*

Joseph, Elias.....*Disclosed no conflict of interest.*

Joshua, Dines S .....*3B*: Arthrex.

Ju, Derek.....*Disclosed no conflict of interest.*

Juan, Lopez .....*Disclosed no conflict of interest.*

Julkunen, Petro.....*Disclosed no conflict of interest.*

Juncker, Ryan B.....*Disclosed no conflict of interest.*

June, Ronald K .....*Disclosed no conflict of interest.*

Jung, Amaury.....*3A*: Blue Ortho.

Jung, Jae-Young .....*Disclosed no conflict of interest.*

Junginger, Lucas.....*Disclosed no conflict of interest.*

Junginger, Lucas M.....*Disclosed no conflict of interest.*

Juni, Peter.....*2*: Amgen, Ava, Fresenius; *3C*: Abbott Vascular, Astra Zeneca, Biotronik, Biosensors, St. Jude Medical, Terumo and The Medicines Company; *5*: Astra Zeneca, Biotronik, Biosensors International, Eli Lilly and The Medicines Company.

Kabel, Jesper.....*Disclosed no conflict of interest.*

Kadaba, Murali .....*3B*: Ingenium Spine.

Kadakia, Rishin J. .....*Disclosed no conflict of interest.*

Kadkoy, Yazan.....*Disclosed no conflict of interest.*

Kadoya, Ken.....*Disclosed no conflict of interest.*

Kage, Craig C .....*Disclosed no conflict of interest.*

Kahlenberg, Cynthia.....*Disclosed no conflict of interest.*

Kaihara, Kenta .....*Disclosed no conflict of interest.*

Kaimaki, Domna-Maria.....*Disclosed no conflict of interest.*

Kainth, Nimrath Narayan Singh *Disclosed no conflict of interest.*

Kaiser, Jarred .....*Disclosed no conflict of interest.*

Kaiser, Joshua T .....*Disclosed no conflict of interest.*

Kaji, Deepak.....*Disclosed no conflict of interest.*

Kajikawa, Shuhei.....*Disclosed no conflict of interest.*

Kajikawa, Yoshiteru .....*Disclosed no conflict of interest.*

Kakiuchi, Yuji .....*Disclosed no conflict of interest.*

Kakutani, Kenichiro.....*Disclosed no conflict of interest.*

Kalajzic, Ivo.....*Disclosed no conflict of interest.*

Kalbfleisch, Theodore S.....*Disclosed no conflict of interest.*

Kalbitz, Miriam .....*Disclosed no conflict of interest.*

Kallman, Tyler.....*Disclosed no conflict of interest.*

Kalluri, Anita.....*Disclosed no conflict of interest.*

Kalunian, Kenneth .....*Disclosed no conflict of interest.*

Kamada, Kohei.....*Disclosed no conflict of interest.*

Kamada, Yoichiro.....*Disclosed no conflict of interest.*

Kamal, Robin N .....*Disclosed no conflict of interest.*

Kamali, Amir .....*Disclosed no conflict of interest.*

Kamalitdinov, Timur B .....*Disclosed no conflict of interest.*

Kamara, Eli.....*Disclosed no conflict of interest.*

Kamaraj, Achi.....*Disclosed no conflict of interest.*

Kamenaga, Tomoyuki .....*Disclosed no conflict of interest.*

Kamihata, Satoshi.....*Disclosed no conflict of interest.*

Kamimura, Masayuki.....*Disclosed no conflict of interest.*

Kamiya, Tomoaki.....*Disclosed no conflict of interest.*

Kamiya, Yasunari .....*Disclosed no conflict of interest.*

Kammer, MaryRose .....*3A*: Organogenesis.

Kanai, Satoshi .....*Disclosed no conflict of interest.*

Kanamoto, Takashi .....*Disclosed no conflict of interest.*

Kanarek, Andrew .....*Disclosed no conflict of interest.*

Kanda, Yutaro .....*Disclosed no conflict of interest.*

Kandel, Shital.....*Disclosed no conflict of interest.*

Kane, Gillian.....*Disclosed no conflict of interest.*

Kane, Gillian E .....*Disclosed no conflict of interest.*

Kane, Matthew ..... *Disclosed no conflict of interest.*

Kane, Robert.....*Disclosed no conflict of interest.*

Kaneda, Giselle .....*Disclosed no conflict of interest.*

Kaneko, Taizo.....*Disclosed no conflict of interest.*

Kanemura, Naohiko.....*Disclosed no conflict of interest.*

Kanemura, Nohiko.....*Disclosed no conflict of interest.*

Kang, Hyung Mo .....*Disclosed no conflict of interest.*

Kang, James D.....*Disclosed no conflict of interest.*

Kang, Kyoung-Tak .....*Disclosed no conflict of interest.*

Kania-Richmond, Ania .....*Disclosed no conflict of interest.*

Kanim, Linda .....*4*: Medtronic.

Kanno, Keijiro .....*Disclosed no conflict of interest.*

Kanno, Seiji .....*Disclosed no conflict of interest.*

Kano, Koichiro.....*Disclosed no conflict of interest.*

Kanski, Gregory.....*Disclosed no conflict of interest.*

Kanto, Ryo .....*Disclosed no conflict of interest.*

Kanzaki, Lauren F .....*Disclosed no conflict of interest.*

Kanzaki, Noriyuki .....*Disclosed no conflict of interest.*

Kaplan, David L .....*Disclosed no conflict of interest.*

Kaplan, Lee D .....*Disclosed no conflict of interest.*

Kaplan, Nathan B. .....*Disclosed no conflict of interest.*

Karas, Vasili .....*Disclosed no conflict of interest.*

Kargilis, Daniel .....*Disclosed no conflict of interest.*

Kargilis, Daniel C .....*Disclosed no conflict of interest.*

Karim, Lamya .....*Disclosed no conflict of interest.*

Karimi, Davood .....*Disclosed no conflict of interest.*

Karjalainen, Kalle Johannes .....*Disclosed no conflict of interest.*

Karkache, Ismael.....*Disclosed no conflict of interest.*

Karkache, Ismael Y.....*Disclosed no conflict of interest.*

Karkare, Nakul .....*Disclosed no conflict of interest.*

Karner, Courtney .....*Disclosed no conflict of interest.*

Karner, Courtney M .....*Disclosed no conflict of interest.*

Karott, Sean.....*Disclosed no conflict of interest.*

Karra, Swathi .....*Disclosed no conflict of interest.*

Kartha, Sonia .....*Disclosed no conflict of interest.*

Karuman, Zara .....*Disclosed no conflict of interest.*

Karunaseelan, Kabelan J .....*Disclosed no conflict of interest.*

Kashanchi, Kevin.....*Disclosed no conflict of interest.*

Kashanchi, Kevin I......*Disclosed no conflict of interest.*

Kashyap, Ritesh .....*Disclosed no conflict of interest.*

Kasitz, Jaden .....*Disclosed no conflict of interest.*

Kasznel, Alex.....*Disclosed no conflict of interest.*

Katagiri, Hiroki.....*Disclosed no conflict of interest.*

Katano, Hisako.....*Disclosed no conflict of interest.*

Kataoka, Kiminari .....*Disclosed no conflict of interest.*

Kates, Stephen L .....*Disclosed no conflict of interest.*

Kato, Kenji .....*Disclosed no conflict of interest.*

Katragadda, Akhil .....*Disclosed no conflict of interest.*

Katyal, Priya.....*Disclosed no conflict of interest.*

Kaur, Gurbani.....*Disclosed no conflict of interest.*

Kaur, Gurcharan.....*Disclosed no conflict of interest.*

Kaushal, Neil.....*Disclosed no conflict of interest.*

Kaushal, Shankar .....*Disclosed no conflict of interest.*

Kawabata, Yusuke .....*Disclosed no conflict of interest.*

Kawahara, Shinya .....*Disclosed no conflict of interest.*

Kawai, Shunsuke.....*Disclosed no conflict of interest.*

Kawakami, Kazuyoshi .....*Disclosed no conflict of interest.*

Kawakami, Kensaku.....*Disclosed no conflict of interest.*

Kawakami, Noriaki.....*Disclosed no conflict of interest.*

Kawakami, Yohei .....*Disclosed no conflict of interest.*

Kawamoto, Teruya.....*Disclosed no conflict of interest.*

Kawamura, Daisuke.....*Disclosed no conflict of interest.*

Kawamura, Yoshi.....*Disclosed no conflict of interest.*

Kawamura, Yusuke .....*Disclosed no conflict of interest.*

Kawano, Koichiro.....*Disclosed no conflict of interest.*

Kawarai, Yuya .....*Disclosed no conflict of interest.*

Kawasaki, Makoto .....*Disclosed no conflict of interest.*

Kawasaki, Toshisuke.....*Disclosed no conflict of interest.*

Kawata, Kazumasa.....*Disclosed no conflict of interest.*

Kawcak, Chris.....*Disclosed no conflict of interest.*

Kay, Robert M......*Disclosed no conflict of interest.*

Kazama, Tomohiko .....*Disclosed no conflict of interest.*

Kazemi, Soroush .....*Disclosed no conflict of interest.*

Kazezian, Zepur.....*Disclosed no conflict of interest.*

Kazuya, Ikoma.....*Disclosed no conflict of interest.*

Kean, Thomas .....*Disclosed no conflict of interest.*

Kean, Thomas J .....*4*: FUJIY, GILD, GWW.

Keaveny, Tony M. .....*3B*: O.N. Diagnostics; *4*: O.N. Diagnostics.

Keefer, Ryan .....*3A*: Depuy Synthes.

Keener, Jay D .....*1*: Shoulder Innovations; *3B*: Arthrex, Shoulder Innovations, Wright Medical; *4*: Genesis, LLC; *7A*: Shoulder Innovations; *8*: J Shoulder Elbow Surg.

Keeney, James A .....*3B*: DePuy, A Johnson & Johnson Company, Flexion Therapeutics, Heron Therapeutics; *8*: Journal of Hip Surgery, Journal of Knee Surgery, Orthopedics; *9*: American Association of Hip and Knee Surgeons, American Orthopaedic Association, Mid-American Orthopaedic Association, Missouri State Orthopaedic Association.

Keeney, James A .....*3B*: DePuy, A Johnson & Johnson Company, Flexion Therapeutics, Heron Therapeutics; *8*: Journal of Hip Surgery, Journal of Knee Surgery; *9*: American Association of Hip and Knee Surgeons, American Orthopaedic Association, Mid-American Orthopaedic Association, Missouri State Orthopaedic Association.

Kefala, Vasiliki.....*Disclosed no conflict of interest.*

Kegode, Imali .....*Disclosed no conflict of interest.*

Kelkar, Amey.....*Disclosed no conflict of interest.*

Kelkar, Shaunak .....*Disclosed no conflict of interest.*

Kellam, James .....*8*: Medicine, Journal of Orthopaedic Trauma, Jornal of Bone and Joint Surgery, BM,C; *9*: AO Foundation, Past Presidents Committee.

Keller, Laura Elizabeth .....*Disclosed no conflict of interest.*

Kelley, Benjamin .....*Disclosed no conflict of interest.*

Kelley, Benjamin V.....*Disclosed no conflict of interest.*

Kelley, Eric E.....*Disclosed no conflict of interest.*

Kelly, Domhnall C.....*Disclosed no conflict of interest.*

Kelly, Shayne R .....*Disclosed no conflict of interest.*

Kemler, Bryson R. .....*Disclosed no conflict of interest.*

Kemp, Stephen .....*Disclosed no conflict of interest.*

Kempter, Elena .....*Disclosed no conflict of interest.*

Kenawy, Hagar M......*Disclosed no conflict of interest.*

Kenichiro, Kakutani.....*Disclosed no conflict of interest.*

Kenji, Takahashi.....*Disclosed no conflict of interest.*

Kennedy, John G .....*3B*: In2Bones, Memphis, TN.

Kenney, H. Mark .....*Disclosed no conflict of interest.*

Kent, Brandon.....*Disclosed no conflict of interest.*

Kenter, Keith.....*Disclosed no conflict of interest.*

Kenter, Mitchell .....*Disclosed no conflict of interest.*

Ker, Dai Fei Elmer.....*9*: I am a committee member of ORS.

Ker, Elmer Dai Fei.....*Disclosed no conflict of interest.*

Kerckhofs, Greet .....*Disclosed no conflict of interest.*

Kerkhoffs, Gino MMJ .....*Disclosed no conflict of interest.*

Kernkamp, Willem A .....*Disclosed no conflict of interest.*

Kerr, Bethany A.....*Disclosed no conflict of interest.*

Kerr, Geoffrey J .....*Disclosed no conflict of interest.*

Kerry, Robert M .....*Disclosed no conflict of interest.*

Kersh, Mariana .....*Disclosed no conflict of interest.*

Keter, Daniel.....*3A*: Zimmer Biomet.

Ketonis, Constantinos.....*Disclosed no conflict of interest.*

Keyak, Joyce H .....*1*: Bone-Rad Therapeutics, Inc.; *4*: Bone-Rad Therapeutics, Inc.; *9*: ORS NIMC.

Khairallah, Ramzi J.....*Disclosed no conflict of interest.*

Khan, Mohd N.....*Disclosed no conflict of interest.*

Khan, Nazir .....*Disclosed no conflict of interest.*

Khan, Nazir M .....*Disclosed no conflict of interest.*

Khan, Safdar .....*Disclosed no conflict of interest.*

Khan, Wasim.....*Disclosed no conflict of interest.*

Khandha, Ashutosh.....*Disclosed no conflict of interest.*

Kharlamov, A .....*Disclosed no conflict of interest.*

Kharlamov, Alexander .....*Disclosed no conflict of interest.*

Kharma, Lara.....*Disclosed no conflict of interest.*

Khokhar, Ahmed.....*Disclosed no conflict of interest.*

Khokhar, Suhirad .....*Disclosed no conflict of interest.*

Khoshbin, Amir .....*Disclosed no conflict of interest.*

Kiapour, Ata M.....*3B*: MIACH Orthopaedics; *8*: BMC Musculoskeletal Disorders.

Kiapour, Ata M.....*8*: Editor for BMC Musculoskeletal Disorders.

Kida, Hiroaki .....*Disclosed no conflict of interest.*

Kidani, Teruki.....*Disclosed no conflict of interest.*

Kido, Mariko .....*Disclosed no conflict of interest.*

Kido, Yusuke .....*Disclosed no conflict of interest.*

Kiernan, Sam.....*Disclosed no conflict of interest.*

Kihara, Shinsuke .....*Disclosed no conflict of interest.*

Kikuchi, Kenichi.....*Disclosed no conflict of interest.*

Killian, Megan L .....*Disclosed no conflict of interest.*

Kilway, Kathleen V......*Disclosed no conflict of interest.*

Kim, Carolyn .....*Disclosed no conflict of interest.*

Kim, Cory .....*Disclosed no conflict of interest.*

Kim, Do-Gyoon.....*Disclosed no conflict of interest.*

Kim, Dong Hwa .....*Disclosed no conflict of interest.*

Kim, Hannah .....*Disclosed no conflict of interest.*

Kim, Harry.....*Disclosed no conflict of interest.*

Kim, Harry K. W. .....*Disclosed no conflict of interest.*

Kim, Hee Joong .....*3B*: Corentec company.

Kim, Hubert .....*Disclosed no conflict of interest.*

Kim, Hyunsoo.....*Disclosed no conflict of interest.*

Kim, Jaeyoung.....*Disclosed no conflict of interest.*

Kim, Jayoung.....*Disclosed no conflict of interest.*

Kim, Jeehun .....*Disclosed no conflict of interest.*

Kim, Jin-Sung .....*Disclosed no conflict of interest.*

Kim, Jongkil.....*Disclosed no conflict of interest.*

Kim, Jun S.....*Disclosed no conflict of interest.*

Kim, Jungsung.....*Disclosed no conflict of interest.*

Kim, Kang-Il.....*Disclosed no conflict of interest.*

Kim, Lily .....*Disclosed no conflict of interest.*

Kim, Min Ji .....*Disclosed no conflict of interest.*

Kim, Min Seok.....*Disclosed no conflict of interest.*

Kim, Morgan .....*Disclosed no conflict of interest.*

Kim, Nathan.....*Disclosed no conflict of interest.*

Kim, Ra Jeong.....*Disclosed no conflict of interest.*

Kim, Sean.....*Disclosed no conflict of interest.*

Kim, Seo Yeong .....*Disclosed no conflict of interest.*

Kim, Seoyeong .....*Disclosed no conflict of interest.*

Kim, Stewart .....*Disclosed no conflict of interest.*

Kim, Sun Jin.....*Disclosed no conflict of interest.*

Kim, Sung Yeon .....*Disclosed no conflict of interest.*

Kim, Sung-Jae.....*Disclosed no conflict of interest.*

Kim, Sungwoo.....*Disclosed no conflict of interest.*

Kim, WooYoung .....*Disclosed no conflict of interest.*

Kim, You Ji .....*Disclosed no conflict of interest.*

Kim, Youngji.....*Disclosed no conflict of interest.*

Kim, Young-Jo .....*Disclosed no conflict of interest.*

Kimbrel, Brandon.....*Disclosed no conflict of interest.*

Kimmel, Ron .....*Disclosed no conflict of interest.*

Kimmerling, Kelly.....*3A*: Organogenesis.

Kimmerling, Kelly A.....*3A*: Organogenesis.

Kimura, Soichiro .....*Disclosed no conflict of interest.*

Kimura, Tadashi.....*Disclosed no conflict of interest.*

Kim-Wang, Sophia Y.....*Disclosed no conflict of interest.*

Kindig, Matthew W.....*Disclosed no conflict of interest.*

King, David.....*Disclosed no conflict of interest.*

King, Elizabeth .....*Disclosed no conflict of interest.*

King, Melissa.....*Disclosed no conflict of interest.*

Kingstedt, Owen .....*Disclosed no conflict of interest.*

Kinoshita, Eiji .....*Disclosed no conflict of interest.*

Kinoshita, Takuya .....*Disclosed no conflict of interest.*

Kinter, Michael T.....*Disclosed no conflict of interest.*

Kirchner, Marieluise.....*Disclosed no conflict of interest.*

Kirkbride-Romeo, Lara .....*Disclosed no conflict of interest.*

Kirkwood, Renata .....*Disclosed no conflict of interest.*

Kirnaz, Sertac.....*Disclosed no conflict of interest.*

Kirsch, Thorsten .....*Disclosed no conflict of interest.*

Kirtley, Margaret G. .....*Disclosed no conflict of interest.*

Kishimoto, Kenji.....*Disclosed no conflict of interest.*

Kiss-Toth, Endre .....*Disclosed no conflict of interest.*

Kitamura, Kenji .....*Disclosed no conflict of interest.*

Kitayama, Kazumichi.....*Disclosed no conflict of interest.*

Kitoh, Hiroshi .....*Disclosed no conflict of interest.*

Kitsis, Richard N .....*Disclosed no conflict of interest.*

Kiu, Alice .....*Disclosed no conflict of interest.*

Kiyohara, Masato.....*Disclosed no conflict of interest.*

Klahr, Bruno.....*Disclosed no conflict of interest.*

Klahsen, Olena M.....*Disclosed no conflict of interest.*

Klatt, Brian.....*Disclosed no conflict of interest.*

Klein, Gordon L .....*Disclosed no conflict of interest.*

Klein, Gregg R .....*2*: Zimmer; *3B*: Corentec, Zimmer; *5*: Zimmer; *7A*: Corentec, Zimmer; *7B*: Jay Pee Publishers; *8*: American Journal of Orthopedics, Journal of Arthroplasty, Journal of Bone and Joint Surgery – American; *9*: AAOS.

Klein, Gregg R. .....*2*: Zimmer; *3B*: Corentec, Zimmer; *5*: Zimmer; *7A*: Corentec, Zimmer; *7B*: Jay Pee Publishers; *8*: American Journal of Orthopedics, Journal of Arthroplasty, Journal of Bone and Joint Surgery - American; *9*: AAOS.

Klein, Gregg R. .....*2*: Zimmer; *3B*: Corentec, Zimmer; *5*: Zimmer; *6*: Jay Pee publishers; *7A*: Corentec, Zimmer; *7B*: Jay Pee publishers; *8*: American Journal of Orthopedics, Journal of Arthroplasty, Journal of Bone and Joint Surgery; *9*: AAOS.

Klein, Karina.....*Disclosed no conflict of interest.*

Klein-Nulend, Jenneke .....*Disclosed no conflict of interest.*

Klemt, Christian .....*Disclosed no conflict of interest.*

Kleweno, Conor .....*Disclosed no conflict of interest.*

Klimstra, Marc .....*5*: Kinetyx.

Klineberg, Eric.....*3B*: Depuy Synthes; *9*: AOSpine.

Klineberg, Eric.....*3B*: Depuy Synthes, Stryker, Medicrea, Medtronic.

Kloser, Heidi.....*Disclosed no conflict of interest.*

Kluczynski, Melissa .....*Disclosed no conflict of interest.*

Kluczynski, Melissa A. .....*Disclosed no conflict of interest.*

Kluge, Morgan C.....*Disclosed no conflict of interest.*

Klüppel, Michael.....*Disclosed no conflict of interest.*

Kluser, Nadine .....*Disclosed no conflict of interest.*

Kluz, Paige N .....*Disclosed no conflict of interest.*

Kmiec, Stanley .....*3A*: DePuy Synthes; *4*: Johnson & Johnson.

Knapik, Derrick .....*Disclosed no conflict of interest.*

Knapp, Emma.....*Disclosed no conflict of interest.*

Knapp, Paul.....*Disclosed no conflict of interest.*

Knecht, Raphael S .....*Disclosed no conflict of interest.*

Kneeland, Bruce.....*Disclosed no conflict of interest.*

Knell, Robert.....*Disclosed no conflict of interest.*

Knight, Britta .....*Disclosed no conflict of interest.*

Knights, Alexander J.....*Disclosed no conflict of interest.*

Knothe Tate, Melissa .....*3C*: Co-Founder TTPeriOz, an implant start up unrelated to this study; *4*: Equity in TTPeriOz, an implant start up unrelated to this abstract.

Knothe Tate, Melissa .....*3C*: Co-Founder, Start up company TissuTex, novel textile implants and wearables; *4*: Equity in TissuTex, per 3C.

Knothe Tate, Melissa .....*3C*: Co-Founder of start up company, TissuTex; *4*: quite in start up company, 3C.

Knowles, Nik .....*Disclosed no conflict of interest.*

Knowles, Nikolas.....*Disclosed no conflict of interest.*

Knowles, Nikolas K.....*Disclosed no conflict of interest.*

Knudson, Cheryl B.....*Disclosed no conflict of interest.*

Knudson, Warren.....*Disclosed no conflict of interest.*

Ko, Ching-Chang.....*Disclosed no conflict of interest.*

Ko, Frank C.....*Disclosed no conflict of interest.*

Ko, Sunho.....*Disclosed no conflict of interest.*

Ko, Tiffany.....*Disclosed no conflict of interest.*

Kobak, Kamil A.....*Disclosed no conflict of interest.*

Kobayashi, Hideyuki .....*Disclosed no conflict of interest.*

Kobayashi, Naomi.....*Disclosed no conflict of interest.*

Kobayashi, Shu.....*Disclosed no conflict of interest.*

Koch, John .....*Disclosed no conflict of interest.*

Koch, John A .....*Disclosed no conflict of interest.*

Koch, Kevin .....*Disclosed no conflict of interest.*

Kodigudla, Manoj.....*Disclosed no conflict of interest.*

Koff, Matthew F.....*5*: GE Healthcare.

Koff, Matthew F.....*8*: Editorial Board of JOR.

Koff, Matthew F.....*8*: Editorial Board JOR.

Koff, Matthew F......*5*: GE Healthcare; *8*: Editorial Board JOR.

Koga, Hideyuki.....*Disclosed no conflict of interest.*

Kogai, Yasumichi.....*Disclosed no conflict of interest.*

Kogan, Feliks.....*5*: GE Healthcare.

Koguchi, Masashi.....*Disclosed no conflict of interest.*

Koh, In Jun .....*Disclosed no conflict of interest.*

Koh, Jason.....*4*: Marrow Access Technologies, Acuitive; *8*: OJSM; *9*: ISAKOS, IPSG, AAOS, AOSSM, AANA, ASES, IAOS.

Koh, Jason L .....*3B*: Flexion Therapeutics, Acuitive Technologies, Marrow Access Technologies; *4*: Acuitive Technologies, Marrow Access Technologies; *9*: Patellofemoral Foundation, International Patellofemoral Study Group.

Koh, Joyce SB .....*Disclosed no conflict of interest.*

Koh, Yong-Gon.....*Disclosed no conflict of interest.*

Kohei, Onishi.....*Disclosed no conflict of interest.*

Kohler, Rachel.....*Disclosed no conflict of interest.*

Kohli, Nupur.....*Disclosed no conflict of interest.*

Kohnen, Michael.....*3A*: Stryker.

Kohno, Yuji .....*Disclosed no conflict of interest.*

Kohno, Yusuke .....*Disclosed no conflict of interest.*

Koichi, Nakagawa .....*Disclosed no conflict of interest.*

Kojima, Toshihisa.....*Disclosed no conflict of interest.*

Kokabu, Terufumi .....*Disclosed no conflict of interest.*

Kokubun, Takanori.....*Disclosed no conflict of interest.*

Kolevar, Matthew.....*Disclosed no conflict of interest.*

Kolipaka, Arunark .....*Disclosed no conflict of interest.*

Kolonin, Mikhail.....*Disclosed no conflict of interest.*

Kolz, Christopher .....*Disclosed no conflict of interest.*

Komatsu, David.....*Disclosed no conflict of interest.*

Komatsu, David E.....*Disclosed no conflict of interest.*

Komatsu, David E......*Disclosed no conflict of interest.*

Komatsu, Takafumi.....*Disclosed no conflict of interest.*

Komenda, Jacob.....*3A*: Biorez.

Komistek, Richard D.....*1*: DePuy Synthes; *3B*: DePuy Synthes.

Komistek, Richard D......*1*: DePuy Synthes; *3B*: DePuy Synthes.

Komori, Keiichiro .....*Disclosed no conflict of interest.*

Kon, Rachel E .....*Disclosed no conflict of interest.*

Konar, Subhajit .....*Disclosed no conflict of interest.*

Kondo, Akira .....*Disclosed no conflict of interest.*

Kondo, Eiji.....*Disclosed no conflict of interest.*

Kong, Alice PS .....*Disclosed no conflict of interest.*

König, Matthias A .....*Disclosed no conflict of interest.*

Konjas, Alexis.....*Disclosed no conflict of interest.*

Konnaris, Maxwell.....*Disclosed no conflict of interest.*

Konopka, Adam.....*Disclosed no conflict of interest.*

Kontaxis, Andreas.....*Disclosed no conflict of interest.*

Koopman, Bart.....*Disclosed no conflict of interest.*

Kops, Nicole.....*Disclosed no conflict of interest.*

Korcari, Antonion.....*Disclosed no conflict of interest.*

Korhonen, Rami.....*Disclosed no conflict of interest.*

Korhonen, Rami K.....*Disclosed no conflict of interest.*

Korhonen, Rami K......*Disclosed no conflict of interest.*

Korlewitz, Ryan J......*Disclosed no conflict of interest.*

Korley, Robert.....*Disclosed no conflict of interest.*

Kornmehl, Marcus.....*Disclosed no conflict of interest.*

Korntner, Stefanie H......*Disclosed no conflict of interest.*

Koroneos, Zachary Adam.....*Disclosed no conflict of interest.*

Kosber, Rashed L.....*Disclosed no conflict of interest.*

Kosonen, Joonas.....*Disclosed no conflict of interest.*

Kosugiyama, Hironobu.....*Disclosed no conflict of interest.*

Kotani, Toshiaki.....*Disclosed no conflict of interest.*

Kotelsky, Alexander.....*Disclosed no conflict of interest.*

Kouroupis, Dimitrios.....*Disclosed no conflict of interest.*

Kovacevic, David.....*8*: JBJS; *9*: ASES, ORS.

Kowalski, Erik.....*Disclosed no conflict of interest.*

Kowalski, Michael.....*Disclosed no conflict of interest.*

Koyama, Takafumi.....*Disclosed no conflict of interest.*

Kozaily, Elie.....*Disclosed no conflict of interest.*

Kozar, Albert.....*9*: AOASM, OPC.

Kozar, Zachary Charles.....*Disclosed no conflict of interest.*

Kozloff, Kenneth M.....*3B*: Mereo Biopharma, Ultragenyx; *5*: Mereo Biopharma, Cayman Chemical; *6*: Amgen Inc, UCB.

Kraay, Matthew .....*Disclosed no conflict of interest.*

Krahenbuhl, Nicola .....*Disclosed no conflict of interest.*

Krakow, Deborah.....*Disclosed no conflict of interest.*

Kramer, Jacob .....*Disclosed no conflict of interest.*

Kramer, Jacob S .....*Disclosed no conflict of interest.*

Kraus, Jessica M .....*Disclosed no conflict of interest.*

Kraus, Petra .....*Disclosed no conflict of interest.*

Kraus, Virginia Byers .....*3B*: Novartis, Flexion Therapeutics, Unity Biotechnologies; *8*: Zimmer Biomet.

Krause, Peter C .....*Disclosed no conflict of interest.*

Krekeler, Gwendalyn .....*Disclosed no conflict of interest.*

Kreulen, Christopher.....*Disclosed no conflict of interest.*

Krishna, Praveen.....*Disclosed no conflict of interest.*

Krishnamurthy, Vinayak .....*Disclosed no conflict of interest.*

Kritschil, Rebecca.....*Disclosed no conflict of interest.*

Kroenung, Patrick .....*Disclosed no conflict of interest.*

Krolikowski, John G.....*Disclosed no conflict of interest.*

Kronenberg, Henry M .....*Disclosed no conflict of interest.*

Kroon, Hidde M.....*Disclosed no conflict of interest.*

Kroon, Tori.....*Disclosed no conflict of interest.*

Krueckel, Jonas .....*Disclosed no conflict of interest.*

Krueger, Benjamin .....*Disclosed no conflict of interest.*

Krueger, Chad .....*Disclosed no conflict of interest.*

Krueger, Chad A.....*Disclosed no conflict of interest.*

Krueger, Van.....*Disclosed no conflict of interest.*

Krug, Roland .....*Disclosed no conflict of interest.*

Krüger, Benjamin T. .....*Disclosed no conflict of interest.*

Kruger, Karen.....*Disclosed no conflict of interest.*

Kruger, Karen M.....*9*: Women's Leadership Forum, Orthopaedic Research Society, Gait & Clinical Movement Analysis Society, Board of Directors.

Krull, Carly .....*Disclosed no conflict of interest.*

Krych, Aaron John.....*Disclosed no conflict of interest.*

Kryger, Alex .....*Disclosed no conflict of interest.*

Krzak, Joseph .....*Disclosed no conflict of interest.*

Krzak, Joseph J .....*Disclosed no conflict of interest.*

Kubota, Daisuke.....*Disclosed no conflict of interest.*

Kucharik, Michael P .....*Disclosed no conflict of interest.*

Kucharski, Amir.....*Disclosed no conflict of interest.*

Kuchynsky, Kyle .....*Disclosed no conflict of interest.*

Kudo, Takamasa.....*Disclosed no conflict of interest.*

Kuenze, Christopher .....*Disclosed no conflict of interest.*

Kugel, Mara .....*Disclosed no conflict of interest.*

Kuliwaba, Julia S .....*Disclosed no conflict of interest.*

Kulyomina, Yuliya .....*Disclosed no conflict of interest.*

Kumabe, Yohei.....*Disclosed no conflict of interest.*

Kumar Govindappa, Prem.....*Disclosed no conflict of interest.*

Kumar, Deepak .....*Disclosed no conflict of interest.*

Kumar, Jayaprakash.....*Disclosed no conflict of interest.*

Kumar, Vikas.....*3A*: KenSci, Inc.

Kumaran, Yogesh.....*Disclosed no conflict of interest.*

Kumta, Shekhar Madhukar.....*Disclosed no conflict of interest.*

Kunath, Brian.....*Disclosed no conflict of interest.*

Kunii, Tomonori .....*Disclosed no conflict of interest.*

Kunselman, Allen.....*Disclosed no conflict of interest.*

Kuntz, Andrew F.....*Disclosed no conflict of interest.*

Kuo, Catherine K.....*Disclosed no conflict of interest.*

Kuo, Catherine K. .....*Disclosed no conflict of interest.*

Kurihara, Taisei.....*Disclosed no conflict of interest.*

Kurishima, Hiroaki .....*Disclosed no conflict of interest.*

Kuroda, Ryosuke.....*Disclosed no conflict of interest.*

Kuroda, Yuichi.....*Disclosed no conflict of interest.*

Kuroiwa, Tomoyuki.....*Disclosed no conflict of interest.*

Kurosawa, Takashi.....*Disclosed no conflict of interest.*

Kurose, Yasuo .....*Disclosed no conflict of interest.*

Kurtaliaj, Iden .....*Disclosed no conflict of interest.*

Kurtz, Steven.....*2*: Exponent; *3B*: Exponent; *5*: Celanese, Ceramtec, Ferring Pharmaceuticals, Invibio, Simplify Medical, Stryker, Wright Medical Technology, Zimmer Biomet; *6*: Exponent.

Kurtz, Steven.....*3B*: Exponent, Inc.; *5*: Celanese, CeramTec GmbH, Ferring Pharmaceuticals, Invibio, Simplify Medical, Stryker, Wright Medical Technology, Zimmer Biomet; *6*: Exponent, Inc.

Kurtz, Steven M .....*2*: Exponent; *3B*: Exponent; *5*: Celanese, Ceramtec, Ferring Pharmaceuticals, Invibio, Simplify Medical, Stryker, Wright Medical Technology, Zimmer Biomet; *6*: Exponent.

Kurtz, Steven M. .....*2*: Exponent Inc.; *3B*: Exponent Inc.; *5*: Celanese, Ceramtec, Ferring Pharmaceuticals, Invibio, Simplify Medical, Stryker, Wright Medical Technology, Zimmer-Biomet; *6*: Exponent Inc.

Kurtz, Steven M. .....*2*: Exponent; *3B*: Exponent; *5*: Celanese, Ceramtec, Ferring Pharmaceuticals, Invibio, Simplify Medical, Stryker, Wright Medical Technology, Zimmer Biomet; *6*: Exponent.

Kusaba, Yohei .....*Disclosed no conflict of interest.*

Kushner, Rachel .....*Disclosed no conflict of interest.*

Kusins, Jonathan R.....*Disclosed no conflict of interest.*

Kusuma, Sharat.....*3A*: Exactech Inc.

Kuwashima, Umito .....*Disclosed no conflict of interest.*

Kuyl, Emile .....*Disclosed no conflict of interest.*

Kuyl, Emile-Victor .....*Disclosed no conflict of interest.*

Kuzuhara, Ryota.....*Disclosed no conflict of interest.*

Kwak, Daekyeung .....*Disclosed no conflict of interest.*

Kwak, Dai Soon.....*Disclosed no conflict of interest.*

Kwok, Andy.....*Disclosed no conflict of interest.*

Kwon, John .....*3B*: MedShape.

Kwon, John Y. .....*Disclosed no conflict of interest.*

Kwon, John Y. Kwon .....*Disclosed no conflict of interest.*

Kwon, Young-Min .....*5*: 5- Stryker;5- Zimmer Biomet; 5- Depuy;5- Corentec; 5- Smith&Nephew.

Kwon, Young-Min .....*5*: 5- Stryker;5- Zimmer Biomet;5- Depuy;5- Corentec;5- Smith&Nephew.

Kyriacou, Harry .....*Disclosed no conflict of interest.*

Kyriakides, Peter.....*Disclosed no conflict of interest.*

Kyrkos, Judith G. .....*Disclosed no conflict of interest.*

LaBaze, Dukens.....*Disclosed no conflict of interest.*

Labonte, David.....*Disclosed no conflict of interest.*

Lacambra, Maribel D.....*Disclosed no conflict of interest.*

Lacheta, Lucca.....*Disclosed no conflict of interest.*

Lachmann, Alexander .....*Disclosed no conflict of interest.*

Lackner, Ina .....*Disclosed no conflict of interest.*

Lad, Nimit K .....*Disclosed no conflict of interest.*

Ladd, Amy.....*4*: Loci Orthopedics.

Ladd, Amy L .....*4*: Loci Orthopedics.

Ladd, Bryan M.....*Disclosed no conflict of interest.*

Laende, Elise .....*Disclosed no conflict of interest.*

Lai, Alon.....*Disclosed no conflict of interest.*

Lai, James.....*Disclosed no conflict of interest.*

Lakadamyali, Melike .....*Disclosed no conflict of interest.*

Lake, Spencer.....*Disclosed no conflict of interest.*

Lake, Spencer P.....*8*: ORS, JBME, ASME-BED.

Lakhani, Zohaib Y.....*Disclosed no conflict of interest.*

Lalone, Emily.....*Disclosed no conflict of interest.*

Lalone, Emily A .....*Disclosed no conflict of interest.*

Lam, Aaron .....*Disclosed no conflict of interest.*

Lam, Kanrick C .....*Disclosed no conflict of interest.*

Lam, Phillip .....*Disclosed no conflict of interest.*

Lam, Tsz Ping .....*Disclosed no conflict of interest.*

Lam, Tsz-Ping .....*Disclosed no conflict of interest.*

Lambers, Floor M .....*3A*: Stryker.

Lambrechts, Mark J .....*Disclosed no conflict of interest.*

Lammlin, Lindsey .....*Disclosed no conflict of interest.*

Lamontagne, Mario .....*3B*: MicroPort Orthopedics Inc; *5*: MicroPort Orthopedics Inc, Smith and Nephew Orthopaedics AG.

Lamoure, Emma .....*Disclosed no conflict of interest.*

Lamplot, Joseph Daniel .....*Disclosed no conflict of interest.*

Landa, Ainara Irastorza .....*3A*: Nobel Biocare Services AG.

Landgren, Marcus .....*Disclosed no conflict of interest.*

Landy, David .....*Disclosed no conflict of interest.*

Lane, Lewis B .....*Disclosed no conflict of interest.*

Lane, Ryan A .....*Disclosed no conflict of interest.*

Lang, Annemarie .....*Disclosed no conflict of interest.*

Lang, Gernot M .....*Disclosed no conflict of interest.*

Lang, McDaniel H. .....*Disclosed no conflict of interest.*

Langgartner, Dominik .....*Disclosed no conflict of interest.*

Langhans, Mark .....*Disclosed no conflict of interest.*

Langley, Michael .....*Disclosed no conflict of interest.*

Langohr, G Daniel G .....*Disclosed no conflict of interest.*

Lansdown, Drew .....*6*: Wright Medical; *9*: AOSSM.

Lanske, Beate.....*3A*: Radius Health Inc; *4*: Radius Health Inc.

Lanting, Brent .....*3B*: DePuy, A Johnson & Johnson Company, IntelliJoint, Smith & Nephew, Stryker; *4*: IdealFit Spacer Solutions Inc; *5*: DePuy, A Johnson & Johnson Company, Smith & Nephew, Stryker; *6*: DePuy, A Johnson & Johnson Company, Smith & Nephew, Stryker, Zimmer.

Lanting, Brent .....*3B*: DePuy, IntelliJoint, Smith & Nephew, Stryker; *4*: IdealFit Spacer Technologies; *5*: DePuy, Smith & Nephew, Stryker; *6*: DePuy, Smith & Nephew, Stryker, Zimmer.

Lanting, Brent A .....*3B*: DePuy, A Johnson & Johnson Company, IntelliJoint, Smith & Nephew, Stryker; *4*: IdealFit Spacer Solutions Inc; *5*: DePuy, A Johnson & Johnson Company, Smith & Nephew, Stryker; *6*: ZimmerBiomet, DePuy, A Johnson & Johnson Company, Smith & Nephew, Stryker.

Lanting, Brent A .....*3B*: Depuy, A Johnson & Johnson Company, Stryker, IntelliJoint, Smith & Nephew; *4*: IdealFit Spacer Solutions Inc; *7A*: Depuy, A Johnson & Johnson Company, Stryker, Smith & Nephew, Zimmer.

Lanzone, Allison .....*Disclosed no conflict of interest.*

LaPlante, Kerry.....*3B*: Nabriva, Melinta, Tetraphase; *5*: Merck, Pfizer, Ocean Spray Cranberries; *8*: Society of Infectious Disease Pharmacists; *9*: Society of Infectious Disease Pharmacists.

Lapner, Peter .....*Disclosed no conflict of interest.*

Laporte, Catherine.....*Disclosed no conflict of interest.*

Lara, Daniel L .....*Disclosed no conflict of interest.*

Lareau, Craig.....*3B*: MedShape.

Larkin, Lisa M.....*Disclosed no conflict of interest.*

Larsen, Bryce.....*Disclosed no conflict of interest.*

Larsen, Christopher G. .....*Disclosed no conflict of interest.*

Larson, Emily L. .....*Disclosed no conflict of interest.*

Larsson, Lars .....*Disclosed no conflict of interest.*

Lartey, Richard.....*Disclosed no conflict of interest.*

Latta, Loren.....*Disclosed no conflict of interest.*

Latta, Loren L .....*Disclosed no conflict of interest.*

Lattanza, Lisa .....*Disclosed no conflict of interest.*

Lattermann, Christian .....*3B*: Joint Restoration Foundation, Samumed, Vericel; *8*: Cartilage, J Sports Physiology, The Knee, Orthopaedic Journal of Sports Medicine; *9*: German Speaking Arthroscopy Society, International Cartilage Regeneration and Joint Preservation Society.

Lau, Brian C.....*5*: Arthrex, Wright Medical.

Lau, Carol PY.....*Disclosed no conflict of interest.*

Lau, Yian Khai .....*Disclosed no conflict of interest.*

Laudier, Damien M .....*Disclosed no conflict of interest.*

Laughlin, Ruple S......*Disclosed no conflict of interest.*

Laurencin, Samuel.....*Disclosed no conflict of interest.*

Lauritsen, Katherine L. .....*Disclosed no conflict of interest.*

Lavertu, Marc.....*4*: Ortho Regenerative Technologies Inc; *5*: Ortho Regenerative Technologies Inc.

Law, Kwan Yau.....*Disclosed no conflict of interest.*

Lawrence, Brandon.....*Disclosed no conflict of interest.*

Lawrence, Rebekah L .....*Disclosed no conflict of interest.*

Lawson, Taylor B.....*Disclosed no conflict of interest.*

Laycock, Phillip A .....*3A*: Biocomposites Ltd.

Layson, James .....*Disclosed no conflict of interest.*

Lazazzera, Beth A .....*Disclosed no conflict of interest.*

Le Maitre, Christine .....*Disclosed no conflict of interest.*

Le Maitre, Christine L .....*Disclosed no conflict of interest.*

Le, Brandon.....*Disclosed no conflict of interest.*

Le, Hai .....*Disclosed no conflict of interest.*

Le, Michael .....*Disclosed no conflict of interest.*

Le, Michale .....*Disclosed no conflict of interest.*

Leach, J. K. .....*Disclosed no conflict of interest.*

Leach, J. Kent .....*Disclosed no conflict of interest.*

Leach, Kent .....*Disclosed no conflict of interest.*

Leahy, Thomas P .....*Disclosed no conflict of interest.*

Leale, Dustin M .....*Disclosed no conflict of interest.*

Leape, Charlotte P.....*Disclosed no conflict of interest.*

Leary, Emily V .....*7B*: BMJ Journals; *8*: Thieme, BMJ Journals.

Leary, Emily V .....*7B*: BMJ Journals; *8*: JISAKOS, Journal of Knee Surgery.

Leas, Daniel P......*Disclosed no conflict of interest.*

Lebeau, Luc Lebeau.....*Disclosed no conflict of interest.*

Leckenby, Jonathan I .....*Disclosed no conflict of interest.*

Ledet, Eric H.....*4*: ReVivo Medical, LLC, inSense Medical, LLC.

Ledoux, William R .....*Disclosed no conflict of interest.*

Lee, Alex B .....*Disclosed no conflict of interest.*

Lee, Alex G. .....*Disclosed no conflict of interest.*

Lee, Beth S .....*Disclosed no conflict of interest.*

Lee, Brendan.....*Disclosed no conflict of interest.*

Lee, Byungho .....*Disclosed no conflict of interest.*

Lee, Carlin .....*Disclosed no conflict of interest.*

Lee, Chang .....*Disclosed no conflict of interest.*

Lee, Chien-Wei.....*Disclosed no conflict of interest.*

Lee, Daeyeon .....*4*: Mechano-Therapeutics LLC.

Lee, Fei San .....*Disclosed no conflict of interest.*

Lee, Geon Woo .....*Disclosed no conflict of interest.*

Lee, Gwo-Chin.....*3B*: Corin USA, Heron Therapeutics, Stryker; *5*: Ferring Therapeutics, KCI, Smith & Nephew, United Orthopedics; *8*: Clinical Orthopaedics and Related Research, Journal of Arthroplasty, Journal of Bone and Joint Surgery, Orthopedics, SLACK Incorporated; *9*: AAOS.

Lee, Gwo-Chin.....*3B*: Corin U.S.A, Heron Therapeutics, Stryker; *5*: Ferring Pharmaceuticals, KCI, Smith & Nephew, United Orthopedics; *8*: CORR, Journal of Arthroplasty, Journal of Bone and Joint Surgery, Orthopedics, SLACK Incorporated; *9*: AAOS.

Lee, Hannah H.....*Disclosed no conflict of interest.*

Lee, Hyobeom.....*Disclosed no conflict of interest.*

Lee, Hyunyeol .....*Disclosed no conflict of interest.*

Lee, Jeong Hyeon.....*Disclosed no conflict of interest.*

Lee, Jin Woo.....*Disclosed no conflict of interest.*

Lee, Jin-Ah .....*Disclosed no conflict of interest.*

Lee, Joon.....*Disclosed no conflict of interest.*

Lee, Joon Y.....*Disclosed no conflict of interest.*

Lee, Joon Y......*Disclosed no conflict of interest.*

Lee, Joseph .....*Disclosed no conflict of interest.*

Lee, Keun Bae .....*Disclosed no conflict of interest.*

Lee, Kyoung-Mi.....*Disclosed no conflict of interest.*

Lee, Mark.....*Disclosed no conflict of interest.*

Lee, Michael J .....*3B*: Depuy Synthes, Stryker Spine, Globus Medical.

Lee, Michael J. .....*3B*: Depuy Synthes, Stryker Spine, Globus Medical.

Lee, Min.....*Disclosed no conflict of interest.*

Lee, Myon Hee.....*Disclosed no conflict of interest.*

Lee, Myung Chul .....*Disclosed no conflict of interest.*

Lee, Nancy .....*Disclosed no conflict of interest.*

Lee, Naomi.....*Disclosed no conflict of interest.*

Lee, Naomi N .....*Disclosed no conflict of interest.*

Lee, Oscar Kuang Sheng .....*Disclosed no conflict of interest.*

Lee, Oscar Kuang-Sheng.....*Disclosed no conflict of interest.*

Lee, Peter.....*Disclosed no conflict of interest.*

Lee, Peter VS.....*5*: DePuy Synthes Inc, USA, Materialise, Belgium, Beijing Naton Institute of Medical Technology; *6*: DePuy Synthes Inc, USA, Materialise, Belgium, Beijing Naton Institute of Medical Technology; *7B*: Deputy Editor, Journal of Orthopaedic Surgery and Research, BMC, Springer Nature; *8*: Deputy Editor, Journal of Orthopaedic Surgery and Research, BMC, Springer Nature.

Lee, Richard H.....*Disclosed no conflict of interest.*

Lee, Sang-Soo.....*Disclosed no conflict of interest.*

Lee, Seunghwan.....*Disclosed no conflict of interest.*

Lee, Seungyong.....*Disclosed no conflict of interest.*

Lee, Sung Jae.....*Disclosed no conflict of interest.*

Lee, Sungjae.....*Disclosed no conflict of interest.*

Lee, Sung-Jae .....*Disclosed no conflict of interest.*

Lee, Wayne Yuk-Wai.....*Disclosed no conflict of interest.*

Lee, Wayne YW.....*Disclosed no conflict of interest.*

Lee, Whasil .....*Disclosed no conflict of interest.*

Lee, Yea Rin .....*Disclosed no conflict of interest.*

Lee, Yeon Hee .....*Disclosed no conflict of interest.*

Lee, Yeonju .....*Disclosed no conflict of interest.*

Lee, Yunsoo.....*Disclosed no conflict of interest.*

Lefebvre, Rachel .....*Disclosed no conflict of interest.*

Legerlotz, Kirsten .....*Disclosed no conflict of interest.*

Leiphart, Ryan.....*Disclosed no conflict of interest.*

Lekkala, Sashank.....*Disclosed no conflict of interest.*

Lemme, Nicholas.....*Disclosed no conflict of interest.*

Lemmon, Elisabeth A .....*Disclosed no conflict of interest.*

Lendhey, Matin.....*3A*: Arthrex Inc.,.

Lenhart, Rachel L .....*Disclosed no conflict of interest.*

Lenna, Stefania .....*Disclosed no conflict of interest.*

Lennon, Kendra.....*Disclosed no conflict of interest.*

Lenz, Amy .....*Disclosed no conflict of interest.*

Lenz, Amy L.....*Disclosed no conflict of interest.*

Lenz, Amy L......*Disclosed no conflict of interest.*

Lenz, Kristin .....*Disclosed no conflict of interest.*

Lenz, Kristin L. .....*Disclosed no conflict of interest.*

Leonardi, Claudia .....*Disclosed no conflict of interest.*

Leonardi, PhD, Claudia.....*Disclosed no conflict of interest.*

Leong, Kam .....*Disclosed no conflict of interest.*

Leong, Natalie L .....*8*: Associate Editor, Journal of Knee Surgery; *9*: Research Committee Member, Arthroscopy Association of North America.

Leow, Wee Kheng .....*Disclosed no conflict of interest.*

LePage, Emma C.....*Disclosed no conflict of interest.*

Leroux, Amélie.....*Disclosed no conflict of interest.*

Les, Clifford M.....*3B*: Transforming Technologies.

Lesage, Raphaëlle .....*Disclosed no conflict of interest.*

Leslie, Ian.....*3B*: Depuy Synthes.

Leslie, Michael .....*Disclosed no conflict of interest.*

Lesniak, Bryson.....*Disclosed no conflict of interest.*

Leung, Anne.....*Disclosed no conflict of interest.*

Leung, Sophia .....*Disclosed no conflict of interest.*

Leung, Victor.....*Disclosed no conflict of interest.*

Levack, Ashley .....*Disclosed no conflict of interest.*

LeVasseur, Clarissa.....*Disclosed no conflict of interest.*

LeVasseur, Clarissa M. .....*Disclosed no conflict of interest.*

Levens, Benjamin.....*Disclosed no conflict of interest.*

Levenston, Marc E.....*Disclosed no conflict of interest.*

Levi, Benjamin .....*Disclosed no conflict of interest.*

Levidy, Michael.....*Disclosed no conflict of interest.*

Levidy, Michael F. .....*Disclosed no conflict of interest.*

Levillain, Aurelie .....*Disclosed no conflict of interest.*

Levillain, Aurélie .....*Disclosed no conflict of interest.*

Levin, Adam.....*Disclosed no conflict of interest.*

Levine, William N......*Disclosed no conflict of interest.*

Levis, Hunter.....*Disclosed no conflict of interest.*

Levison, Timothy J .....*Disclosed no conflict of interest.*

Levitsky, Matthew .....*Disclosed no conflict of interest.*

Levy, Emily T. .....*Disclosed no conflict of interest.*

Lewin, Pancy.....*Disclosed no conflict of interest.*

Lewis, Gregory .....*Disclosed no conflict of interest.*

Lewis, Gregory S. .....*Disclosed no conflict of interest.*

Lewis, Jacob .....*Disclosed no conflict of interest.*

Li, Chenxi .....*3A*: Smith & Nephew; *4*: Smith & Nephew.

Li, Dan.....*Disclosed no conflict of interest.*

Li, Feng.....*Disclosed no conflict of interest.*

Li, Gouan.....*3B*: Mako Medical.

Li, Guangfei.....*Disclosed no conflict of interest.*

Li, Guoan.....*3B*: Mako Medical.

Li, Hongshuai .....*Disclosed no conflict of interest.*

Li, Jialun .....*Disclosed no conflict of interest.*

Li, Jiannan .....*Disclosed no conflict of interest.*

Li, Jing-Sheng .....*Disclosed no conflict of interest.*

Li, Jun.....*Disclosed no conflict of interest.*

Li, Kaiqun .....*Disclosed no conflict of interest.*

Li, Ke .....*Disclosed no conflict of interest.*

Li, La.....*Disclosed no conflict of interest.*

Li, Li.....*Disclosed no conflict of interest.*

Li, Mei .....*Disclosed no conflict of interest.*

Li, Meng Chen Michelle.....*Disclosed no conflict of interest.*

Li, Mingyao .....*Disclosed no conflict of interest.*

Li, Mingzheng.....*Disclosed no conflict of interest.*

Li, Neill Y .....*Disclosed no conflict of interest.*

LI, Qiangqiang.....*Disclosed no conflict of interest.*

Li, Shushan.....*Disclosed no conflict of interest.*

Li, Sylvia H.....*Disclosed no conflict of interest.*

Li, Wenyue.....*Disclosed no conflict of interest.*

Li, Xiaojuan .....*5*: Siemens Medical Solutions Inc.

Li, Xiaojuan .....*5*: Siemens Medical Solutions Inc, USA.

Li, Xiaojuan .....*5*: Siemens.

Li, Xiaojuan .....*5*: Siemens Medical Solutions Inc. USA.

Li, Xudong.....*Disclosed no conflict of interest.*

Li, Xue-Jun.....*Disclosed no conflict of interest.*

Li, Yang .....*Disclosed no conflict of interest.*

Li, Yihan .....*Disclosed no conflict of interest.*

Li, Yiming .....*Disclosed no conflict of interest.*

Li, Yong .....*8*: Yong Li is one of the executive editors for the Journal of Cellular Biochemistry., No more.

Li, Yong .....*8*: Executive editor of Journal of Cellular Biochemistry.

Li, Yong .....*8*: Yong Li is one of the executive editors for the Journal of Cellular Biochemistry.

Li, Yong .....*8*: Dr. Yong Li is one of the executive editors for the Journal of Cellular Biochemistry.

Li, Zhao .....*Disclosed no conflict of interest.*

Li, Zhen .....*Disclosed no conflict of interest.*

Li, Zhong .....*Disclosed no conflict of interest.*

Li, Zhu .....*Disclosed no conflict of interest.*

Li, Ziqing.....*Disclosed no conflict of interest.*

Li, Zong-Ming .....*Disclosed no conflict of interest.*

Liang, Dawei .....*Disclosed no conflict of interest.*

Liang, Haixiang.....*Disclosed no conflict of interest.*

Libfraind, Sarah.....*Disclosed no conflict of interest.*

Libke, Megan .....*Disclosed no conflict of interest.*

Lidgren, Lars.....*3B*: Lars Lidgren is a board member of Bone Support AB, Sweden and Orthocell, Australia.

Lidgren, Lars.....*3B*: Board Member of Bone Support AB Sweden and Orthocell Australia.

Liedtke, Wolfang.....*Disclosed no conflict of interest.*

Liedtke, Wolfgang.....*Disclosed no conflict of interest.*

Lietman, Caressa.....*Disclosed no conflict of interest.*

Lim, Boon Him .....*3A*: DePuy Synthes.

Lim, Boon Him .....*3B*: DePuy Synthes.

Lim, Dohyung.....*Disclosed no conflict of interest.*

Lim, Joohyun.....*Disclosed no conflict of interest.*

Lim, Tae-Hong.....*Disclosed no conflict of interest.*

Lim, Yeram.....*Disclosed no conflict of interest.*

Lim, Young Wook.....*Disclosed no conflict of interest.*

Liman, Suryamin .....*Disclosed no conflict of interest.*

Lin, Albert .....*3B*: Wright, Arthrex.

Lin, Albert .....*3B*: Wright Medical, Arthrex.

Lin, Albert .....*3B*: Arthrex Inc; *8*: KSSTA; *9*: AAOS, ASES, AOSSM, AOA.

Lin, Albert .....*3B*: Arthrex, Wright Medical.

Lin, Albert .....*3B*: Arthrex, Wright.

Lin, Andrew.....*Disclosed no conflict of interest.*

Lin, Anthony .....*Disclosed no conflict of interest.*

Lin, Bin.....*Disclosed no conflict of interest.*

Lin, Chun-Yu.....*Disclosed no conflict of interest.*

Lin, D-Yin.....*Disclosed no conflict of interest.*

Lin, Guiting.....*Disclosed no conflict of interest.*

Lin, Hang.....*Disclosed no conflict of interest.*

Lin, Jason .....*Disclosed no conflict of interest.*

Lin, Jason Cai.....*Disclosed no conflict of interest.*

Lin, Mei Yun.....*Disclosed no conflict of interest.*

Lin, Sheldon .....*3A*: Co-founder of CreOsso, a company focused on bone healing adjuncts.

Lin, Shiow J .....*Disclosed no conflict of interest.*

Lin, Sien .....*Disclosed no conflict of interest.*

Lin, Tung-Yi.....*Disclosed no conflict of interest.*

Lin, Tzuhua.....*Disclosed no conflict of interest.*

Lin, Tzu-hua .....*Disclosed no conflict of interest.*

Lin, Xi .....*Disclosed no conflict of interest.*

Lin, Yi-Shan .....*Disclosed no conflict of interest.*

Lin, Yu Ting.....*Disclosed no conflict of interest.*

Lin, Zixuan.....*Disclosed no conflict of interest.*

Lindberg, Emily .....*Disclosed no conflict of interest.*

Linde, Monica .....*Disclosed no conflict of interest.*

Linde, Monica A .....*Disclosed no conflict of interest.*

Linde, Monica A. .....*Disclosed no conflict of interest.*

Lindsey, Ronald W .....*Disclosed no conflict of interest.*

Lindsey, Ronald W. .....*8*: Editor, JBJS Case Connector.

Ling, Kenny .....*Disclosed no conflict of interest.*

Link, Thomas M.....*Disclosed no conflict of interest.*

Linter, David .....*Disclosed no conflict of interest.*

Lintz, Marianne.....*Disclosed no conflict of interest.*

Liphardt, Anna-Maria.....*Disclosed no conflict of interest.*

Lipiski, Miriam .....*Disclosed no conflict of interest.*

Lisee, Caroline.....*Disclosed no conflict of interest.*

Lisiewski, Lauren.....*Disclosed no conflict of interest.*

Lisonbee, Rich J.....*Disclosed no conflict of interest.*

Lisonbee, Rich J......*Disclosed no conflict of interest.*

List, Renate .....*5*: Medacta.

Listopadzki, Thomas R .....*Disclosed no conflict of interest.*

Little, Christopher B.....*5*: Bone Ligament Tendon.

Liu, Andrew.....*Disclosed no conflict of interest.*

Liu, Bei .....*Disclosed no conflict of interest.*

Liu, Chao .....*Disclosed no conflict of interest.*

Liu, Chuanju .....*Disclosed no conflict of interest.*

Liu, Chunaju .....*Disclosed no conflict of interest.*

Liu, Cunren.....*Disclosed no conflict of interest.*

Liu, Ethan J.....*Disclosed no conflict of interest.*

Liu, Guanglu.....*Disclosed no conflict of interest.*

Liu, Jessica Z.....*Disclosed no conflict of interest.*

Liu, jiatong.....*Disclosed no conflict of interest.*

Liu, Jiawei.....*Disclosed no conflict of interest.*

Liu, Jie.....*Disclosed no conflict of interest.*

Liu, Jin.....*Disclosed no conflict of interest.*

Liu, Kecheng.....*3A*: Siemens Medical Solutions Inc. USA.

Liu, Lixian.....*Disclosed no conflict of interest.*

Liu, Mengyao.....*Disclosed no conflict of interest.*

Liu, Nancy.....*Disclosed no conflict of interest.*

Liu, Pengcheng.....*Disclosed no conflict of interest.*

Liu, Qian.....*Disclosed no conflict of interest.*

Liu, Serena EB.....*Disclosed no conflict of interest.*

Liu, Shaohua.....*Disclosed no conflict of interest.*

Liu, Silvia.....*Disclosed no conflict of interest.*

Liu, Songyun.....*Disclosed no conflict of interest.*

Liu, Wenguang.....*Disclosed no conflict of interest.*

Liu, X. Sherry.....*Disclosed no conflict of interest.*

Liu, Xiangyi.....*3A*: Stryker Orthopaedics.

Liu, Xiangyi (Cheryl).....*3A*: Xiangyi Liu.

Liu, Xiaowei S.....*Disclosed no conflict of interest.*

Liu, Xiaowei Sherry.....*Disclosed no conflict of interest.*

Liu, Xing.....*Disclosed no conflict of interest.*

Liu, Xudong.....*Disclosed no conflict of interest.*

Liu, XueCheng.....*Disclosed no conflict of interest.*

Liu, Xue-Cheng.....*Disclosed no conflict of interest.*

Liu, Xueqing.....*Disclosed no conflict of interest.*

Liu, Xuhui.....*Disclosed no conflict of interest.*

Liu, Yajun .....*Disclosed no conflict of interest.*

Liu, Yang .....*Disclosed no conflict of interest.*

Liu, Ying .....*Disclosed no conflict of interest.*

Liu, Yolanda .....*Disclosed no conflict of interest.*

Liu, Yu .....*Disclosed no conflict of interest.*

Liu, Zhaoyang.....*Disclosed no conflict of interest.*

Liu-Bryan, Ru .....*Disclosed no conflict of interest.*

Livingston, Ang .....*Disclosed no conflict of interest.*

Livingston, Eric.....*Disclosed no conflict of interest.*

Lo, I-Ning.....*Disclosed no conflict of interest.*

Lobao, Mario H .....*Disclosed no conflict of interest.*

Lockard, Carly A .....*Disclosed no conflict of interest.*

Locke, Ryan C.....*Disclosed no conflict of interest.*

Loebel, Claudia .....*Disclosed no conflict of interest.*

Loeser, Richard F.....*3B*: UNITY Biotechnology.

Lofgren, Alicia L.....*Disclosed no conflict of interest.*

Loftus, Hannah.....*3A*: DiscGenics; *4*: DiscGenics.

Logan, Alyssa A. .....*Disclosed no conflict of interest.*

Logeart-Avramoglou, Delphine.*Disclosed no conflict of interest.*

Lohre, Ryan.....*Disclosed no conflict of interest.*

Loiselle, Alayna .....*Disclosed no conflict of interest.*

Loiselle, Alayna E. .....*Disclosed no conflict of interest.*

Lombardi, Joseph M.....*Disclosed no conflict of interest.*

Lombardo, Salvo D.....*Disclosed no conflict of interest.*

Long, Greta E.....*Disclosed no conflict of interest.*

Long, Jason .....*Disclosed no conflict of interest.*

Long, Zeling.....*Disclosed no conflict of interest.*

Loots, Gabriela G .....*Disclosed no conflict of interest.*

Lopes, Erika Barboza Prado.....*Disclosed no conflict of interest.*

Lopez, Consuelo.....*Disclosed no conflict of interest.*

Lopez, Juan .....*Disclosed no conflict of interest.*

Lopez, Juan D .....*Disclosed no conflict of interest.*

Lopez, Kelsie .....*Disclosed no conflict of interest.*

Lopez, Mandi .....*Disclosed no conflict of interest.*

Lopez, Mandi J .....*Disclosed no conflict of interest.*

Lopez, Serafina G .....*Disclosed no conflict of interest.*

Lopez, Victor A.....*Disclosed no conflict of interest.*

Lorente, Ana I .....*Disclosed no conflict of interest.*

Lotz, Jeffrey .....*Disclosed no conflict of interest.*

Lotz, Jeffrey C......*1*: Relievant MedSystems, Nocimed, LLC; *2*: Relievant MedSystems; *3C*: Relievant MedSystems, Nocimed, Bioniks; *4*: Relievant MedSystems, Nocimed, Bioniks; *7A*: Relievant MedSystems, Nocimed, LLC; *8*: Deputy editor for the journal Spine.

Louwagie, Erin M .....*Disclosed no conflict of interest.*

Lovejoy, John.....*Disclosed no conflict of interest.*

Lovric, Vedran.....*Disclosed no conflict of interest.*

Low, Philip S.....*4*: On target labs, Novosteo inc, Umoja, Eradivir, Erthrocure; *5*: Novartis, On target Labs, Umoja.

Low, Stew A .....*3A*: Novosteo Inc; *4*: Novosteo Inc.

Lowen, Jeremy.....*Disclosed no conflict of interest.*

Lowenberg, David.....*Disclosed no conflict of interest.*

Lowery, Michael .....*Disclosed no conflict of interest.*

Lowman, Anthony .....*3B*: ReGelTec Inc; *4*: ReGelTec Inc; *6*: ReGelTec Inc.

Loy, Doug A.....*Disclosed no conflict of interest.*

Lu, Aiping.....*Disclosed no conflict of interest.*

Lu, Amy.....*Disclosed no conflict of interest.*

Lu, Helen H.....*Disclosed no conflict of interest.*

Lu, Jinxiu .....*Disclosed no conflict of interest.*

Lu, Qinghua.....*Disclosed no conflict of interest.*

Lu, Shuting.....*Disclosed no conflict of interest.*

Lu, X. Lucas .....*Disclosed no conflict of interest.*

Lu, Yan.....*Disclosed no conflict of interest.*

Lu, You .....*Disclosed no conflict of interest.*

Lu, Zhen .....*5*: DePuy Orthopaedics, Orthofix, Microport, Nuvasive, NIH.

Lubberts, Bart .....*5*: Arthrex, Butterfly Network.

Luczak, Meredith G .....*Disclosed no conflict of interest.*

Ludvig, Daniel .....*Disclosed no conflict of interest.*

Ludwick, Leanne .....*Disclosed no conflict of interest.*

Ludwig, Kai D .....*Disclosed no conflict of interest.*

Lue, Tom F .....*Disclosed no conflict of interest.*

Lufkin, Thomas .....*Disclosed no conflict of interest.*

Lui, Elaine .....*Disclosed no conflict of interest.*

Luis, Justin .....*Disclosed no conflict of interest.*

Luk, Connie .....*Disclosed no conflict of interest.*

Luk, Josephine .....*Disclosed no conflict of interest.*

Lukas, Christoph .....*Disclosed no conflict of interest.*

Lum, Zachary.....*Disclosed no conflict of interest.*

Lundberg, Hannah .....*5*: Zimmer Biomet.

Lundberg, Hannah J .....*5*: Zimmer Biomet.

Lundberg, Hannah J. .....*5*: Zimmer Biomet.

Lung, Brandon.....*Disclosed no conflict of interest.*

Lunkes, Douglas Janiel .....*Disclosed no conflict of interest.*

Luo, David T. .....*Disclosed no conflict of interest.*

Luo, Lijun .....*Disclosed no conflict of interest.*

Lutas, Maria .....*Disclosed no conflict of interest.*

Lutnick, Ellen.....*Disclosed no conflict of interest.*

Lv, Zheng-Tao.....*Disclosed no conflict of interest.*

Lycke, Roy.....*Disclosed no conflict of interest.*

Lyle, Mark A......*Disclosed no conflict of interest.*

Lynch, John A.....*Disclosed no conflict of interest.*

Lynch, Kelli.....*3A*: NuVasive.

Lynch, Kevin J.....*Disclosed no conflict of interest.*

Lyons, Lucas P. .....*Disclosed no conflict of interest.*

Ma, C Benjamin.....*Disclosed no conflict of interest.*

Ma, Chi .....*Disclosed no conflict of interest.*

Ma, Dongzhu.....*Disclosed no conflict of interest.*

Ma, Jin .....*Disclosed no conflict of interest.*

Ma, Junxuan .....*Disclosed no conflict of interest.*

Ma, Ricahrd .....*5*: Cartiheal, Moximed; *8*: Journal of Bone and Joint Surgery – American; *9*: American Orthopaedic Association, AOSSM, Orthopaedic Research Society, Rugby Research Injury Prevention Group.

Ma, Richard .....*5*: Cartiheal, Moximed; *8*: Journal of Bone and Joint Surgery – American; *9*: American Orthopaedic Association, AOSSM, Orthopaedic Research Society, Rugby Research Injury Prevention Group.

Ma, Wen Ao.....*Disclosed no conflict of interest.*

Ma'ayan, Avi.....*Disclosed no conflict of interest.*

Macaluso, Bonnie .....*Disclosed no conflict of interest.*

MacDonald, Daniel W .....*Disclosed no conflict of interest.*

MacDonald, Daniel W. .....*Disclosed no conflict of interest.*

Macdonald, Warren.....*Disclosed no conflict of interest.*

MacDowell, Arthur Jr.....*Disclosed no conflict of interest.*

MacEwen, Matthew.....*Disclosed no conflict of interest.*

MacEwen, Matthew R .....*Disclosed no conflict of interest.*

Macfarlane, Alexander .....*Disclosed no conflict of interest.*

Machida, Kazuya.....*Disclosed no conflict of interest.*

Machnicki, Allison L. .....*Disclosed no conflict of interest.*

MacInnis, Bailey.....*Disclosed no conflict of interest.*

Mack, Christina D.....*3A*: serve as consultant and PI for studies conducted by orthopedic device manufactures, paid for indirectly to their full-time employer IQVIA.

Mack, Wendy J......*Disclosed no conflict of interest.*

Mackay, Matt .....*Disclosed no conflict of interest.*

Mackay, Matthew.....*Disclosed no conflict of interest.*

MacKinnon, Kristen .....*Disclosed no conflict of interest.*

MacLeod, James N .....*Disclosed no conflict of interest.*

MacWilliams, Bruce A .....*Disclosed no conflict of interest.*

Madry, Henning .....*Disclosed no conflict of interest.*

Madsen, Josh .....*4*: JM is the CTO of GenAssist, Inc.

Maduka, Chima Victor .....*Disclosed no conflict of interest.*

Maeda, Masataka .....*Disclosed no conflict of interest.*

Maeda, Tasunori.....*Disclosed no conflict of interest.*

Maeda, Tatsunori.....*Disclosed no conflict of interest.*

Maeda, Toshihisa.....*Disclosed no conflict of interest.*

Maekawa, Hirotsugu.....*Disclosed no conflict of interest.*

Maenaka, Katsumi.....*Disclosed no conflict of interest.*

Maerz, Tristan.....*Disclosed no conflict of interest.*

Maglio, Melania.....*7A*: This study was funded by Fidia Farmaceutici.

Magneli, Martin.....*Disclosed no conflict of interest.*

Mah, Eugene.....*Disclosed no conflict of interest.*

Mahatma, Mohit M .....*Disclosed no conflict of interest.*

Maher, Patrick L.....*Disclosed no conflict of interest.*

Maher, Suzanne.....*4*: Agelity Biomechanics LLC; Hydro-Gen LLC; *9*: Orhtopaedic Research Society.

Mahmood, Aatif .....*Disclosed no conflict of interest.*

Mahmood, Bilal .....*Disclosed no conflict of interest.*

Mahoney, Ormonde .....*3B*: Stryker.

Mahtani, Gordhan .....*Disclosed no conflict of interest.*

Mahtani, Gordhan B .....*Disclosed no conflict of interest.*

Mahtani, Gordhan B. .....*Disclosed no conflict of interest.*

Mai, Wilfried.....*Disclosed no conflict of interest.*

Main, Russell P.....*Disclosed no conflict of interest.*

Mair, Scott .....*5*: Smith & Nephew.

Majeska, Robert .....*Disclosed no conflict of interest.*

Majima, Tokifumi.....*Disclosed no conflict of interest.*

Majumdar, Sharmila .....*5*: GE Healthcare, Samumed.

Majumdar, Sharmila .....*5*: GE Healthcare.

Mäkelä, Janne T. A......*Disclosed no conflict of interest.*

Makhni, Eric C.....*2*: Xodus Medical; *3B*: Smith & Nephew; *7B*: Springer; *9*: American Orthopaedic Society for Sports Medicine.

Makida, Kazuya.....*Disclosed no conflict of interest.*

Makosa, Dawid.....*Disclosed no conflict of interest.*

Malany, PhD, Siobhan.....*4*: Micro-gRx, Orlando, FL; *5*: Micro-gRx, Orlando, FL; *6*: Micro-gRx, Orlando, FL.

Malbouby, Vahid .....*Disclosed no conflict of interest.*

Malchau, Henrik .....*1*: MAKO/Stryker; *3C*: Zimmer/Biomet, DePuy; *5*: Zimmer/Biomet, DePuy.

Maldonado, Marcia .....*Disclosed no conflict of interest.*

Malfait, Anne-Marie .....*3B*: Eli Lilly, Pfizer, Vizuri, Ceva, Vetoquinol.

Malhotra, Neil R.....*Disclosed no conflict of interest.*

Malige, Ajith .....*Disclosed no conflict of interest.*

Malik, Azeem Tariq .....*Disclosed no conflict of interest.*

Malik, Jeremy .....*3A*: NuVasive.

Malkani, Arthur L......*2*: Stryker; *3B*: Stryker; *5*: Stryker; *7A*: Stryker; *8*: Journal of Arthroplasty.

Mallinos, Alexandria D.....*Disclosed no conflict of interest.*

Mallow, Murphy.....*Disclosed no conflict of interest.*

Malloy, Philip.....*Disclosed no conflict of interest.*

Maloney, Erin E.....*Disclosed no conflict of interest.*

Mamouei, Zeinab.....*Disclosed no conflict of interest.*

Manal, Kurt.....*Disclosed no conflict of interest.*

Manasherob, Robert.....*Disclosed no conflict of interest.*

Mancino, Chiara.....*Disclosed no conflict of interest.*

Mancuso, Megan E .....*Disclosed no conflict of interest.*

Mandalapu, Sai.....*Disclosed no conflict of interest.*

Mandell, Jonathan.....*Disclosed no conflict of interest.*

Mandell, Jonathan B.....*Disclosed no conflict of interest.*

Mandl, Lisa .....*Disclosed no conflict of interest.*

Mane, Amitkumar M .....*3A*: DePuy Synthes; *4*: DePuy Synthes.

Mane, Amitkumar M. .....*3A*: DePuy Synthes; *4*: DePuy Synthes.

Mani, Saandeep.....*3A*: Zimmer Biomet; *4*: Zimmer Biomet.

Mann, Kenneth A.....*8*: JOR Publications Advisory Board.

Mannarino, Matthew .....*Disclosed no conflict of interest.*

Mannava, Sandeep .....*Disclosed no conflict of interest.*

Mannen, Erin .....*Disclosed no conflict of interest.*

Mannen, Erin M .....*Disclosed no conflict of interest.*

Manner, Paul .....*Disclosed no conflict of interest.*

Manner, Paul A.....*8*: Clinical Orthopaedics and Related Research.

Manske, Sarah L......*Disclosed no conflict of interest.*

Mansky, Kim .....*Disclosed no conflict of interest.*

Manto, Kristen.....*Disclosed no conflict of interest.*

Manzer, Melissa.....*Disclosed no conflict of interest.*

Mao, Xiao .....*Disclosed no conflict of interest.*

Marchand, Kevin.....*Disclosed no conflict of interest.*

Marchand, Robert.....*2*: Stryker; *3B*: Stryker; *4*: Stryker; *5*: Stryker.

Marchand, Robert.....*3B*: Stryker, Zipline, Onetray; *4*: Stryker; *5*: Stryker.

Marchand, Robert C......*3B*: Stryker, Zipline, Onetray; *4*: Stryker; *5*: Stryker.

Marchetta, Kara.....*Disclosed no conflict of interest.*

Marcolongo, Michele.....*Disclosed no conflict of interest.*

Marcucio, Ralph.....*Disclosed no conflict of interest.*

Marcucio, Ralph S .....*Disclosed no conflict of interest.*

Marder, MD, Richard A .....*Disclosed no conflict of interest.*

Marecek, Geoffrey S .....*3B*: BoneSupport AB, Globus Medical, Nuvasive, Smith & Nephew, Stryker, Synthes, Zimmer; *5*: BoneSupport AB; *9*: Orthopaedic Trauma Association, Western Orthopaedic Association.

Marette, Shelly .....*Disclosed no conflict of interest.*

Margalik, Denis.....*Disclosed no conflict of interest.*

Margolis, David.....*Disclosed no conflict of interest.*

Margolis, David S .....*Disclosed no conflict of interest.*

Margulis, Arkady.....*Disclosed no conflict of interest.*

Marinier, Michael Christian .....*Disclosed no conflict of interest.*

Markel, David .....*Disclosed no conflict of interest.*

Markel, Mark.....*Disclosed no conflict of interest.*

Markhardt, Brian K .....*Disclosed no conflict of interest.*

Markway, Brandon .....*Disclosed no conflict of interest.*

Marmillon, Cédric .....*Disclosed no conflict of interest.*

Marra, Marco.....*Disclosed no conflict of interest.*

Marrero, Louis .....*Disclosed no conflict of interest.*

Marrero, Luis .....*Disclosed no conflict of interest.*

Marrero, PhD, Luis.....*Disclosed no conflict of interest.*

Marsh, J. Lawrence .....*Disclosed no conflict of interest.*

Marsh, Mike.....*Disclosed no conflict of interest.*

Marshall, Brittany P .....*Disclosed no conflict of interest.*

Marshall, James H.....*Disclosed no conflict of interest.*

Marshall, Samantha.....*Disclosed no conflict of interest.*

Martensson, Nicole.....*Disclosed no conflict of interest.*

Martin, Brian .....*3A*: Exactech Inc.

Martin, C Ryan.....*Disclosed no conflict of interest.*

Martin, C. Ryan.....*Disclosed no conflict of interest.*

Martin, James A.....*Disclosed no conflict of interest.*

Martin, John .....*3B*: DiscGenics, Inc.

Martin, John T.....*3B*: DiscGenics, Inc.

Martin, Nicholas .....*3A*: NuVasive.

Martin, R. Kyle.....*6*: Arthrex, Linvatec, Mitek, Smith and Nephew.

Martin, Ryan.....*Disclosed no conflict of interest.*

Martin, Scott D .....*Disclosed no conflict of interest.*

Martin, Stephen.....*Disclosed no conflict of interest.*

Martin, Stephen A.....*Disclosed no conflict of interest.*

Martinazzi, Brandon .....*Disclosed no conflict of interest.*

Martinez, Anna .....*Disclosed no conflict of interest.*

Martinez, Jessica.....*Disclosed no conflict of interest.*

Martinez, Saul.....*2*: Exactech Inc, LINK, Smith and Nephew; *3B*: Exactech Inc; *5*: Exactech Inc, AO Foundation.

Martyniak, Kari.....*Disclosed no conflict of interest.*

Maruyama, Masahiro .....*Disclosed no conflict of interest.*

Marvin, Jason C.....*Disclosed no conflict of interest.*

Marzo, John .....*Disclosed no conflict of interest.*

Masahashi, Naoya .....*Disclosed no conflict of interest.*

Masamitsu, Kido.....*Disclosed no conflict of interest.*

Masataka, Minami.....*Disclosed no conflict of interest.*

Maslow, Jed I.....*Disclosed no conflict of interest.*

Mason, Deborah.....*9*: Current British Orthopaedic Research Society (BORS) president.

Mason, Deborah J.....*Disclosed no conflict of interest.*

Massaro, Matteo .....*Disclosed no conflict of interest.*

Massey, Patrick A.....*Disclosed no conflict of interest.*

Massie, Christine .....*Disclosed no conflict of interest.*

Masters, Elysia A.....*Disclosed no conflict of interest.*

Masuda, Koichi .....*5*: AnGes Inc.

Masumoto, Jun.....*Disclosed no conflict of interest.*

Matelski, John.....*Disclosed no conflict of interest.*

Mathai, Bertin.....*Disclosed no conflict of interest.*

Matharoo, Jashanjeet.....*Disclosed no conflict of interest.*

Mather, Richard C.....*3B*: Stryker.

Mathew, Mathew.....*7A*: MicroPort Ortho.

Mathew, Mathew T.....*7A*: MicroPort Ortho.

Mathew, Mathew T......*7A*: MicroPort Orthopedic Inc.

Mathey, Elizabeth.....*Disclosed no conflict of interest.*

Mathieu, Colleen .....*Disclosed no conflict of interest.*

Mathis, Kenneth .....*3B*: Joint Development.

Mathis, Kenneth B. .....*3B*: Joint Development.

Mathkar, Pranav .....*Disclosed no conflict of interest.*

Matsubara ......, Shinji *Disclosed no conflict of interest.*

Matsubara, Shinji.....*Disclosed no conflict of interest.*

Matsuda, Hideki.....*Disclosed no conflict of interest.*

Matsuda, Hidetoshi .....*Disclosed no conflict of interest.*

Matsuda, Shuichi .....*Disclosed no conflict of interest.*

Matsui, Yuichiro.....*Disclosed no conflict of interest.*

Matsui, Yuki.....*Disclosed no conflict of interest.*

Matsumae, Gen .....*Disclosed no conflict of interest.*

Matsumoto, koji .....*Disclosed no conflict of interest.*

Matsumoto, Morio .....*Disclosed no conflict of interest.*

Matsumoto, Taro.....*Disclosed no conflict of interest.*

Matsumoto, Tomoyuki .....*Disclosed no conflict of interest.*

Matsunami, Sansui .....*Disclosed no conflict of interest.*

Matsuoka, Masatake .....*Disclosed no conflict of interest.*

Matsushita, Masaki .....*Disclosed no conflict of interest.*

Matsushita, Takehiko .....*Disclosed no conflict of interest.*

Matsuyama, Junya.....*Disclosed no conflict of interest.*

Matsuyama, Yuki .....*Disclosed no conflict of interest.*

Matta, Joel M......*Disclosed no conflict of interest.*

Mattar, Luke T .....*Disclosed no conflict of interest.*

Matthew, Robert P .....*Disclosed no conflict of interest.*

Mattingly, Brett .....*Disclosed no conflict of interest.*

Matuska, Andrea .....*3A*: Arthrex, Inc.

Matuszewski, Lucas-Maximilian *Disclosed no conflict of interest.*

Mauck, Robert .....*8*: RLM (8, JOR Spine), no other disclosures.

Mauck, Robert .....*8*: Co-Editor for JOR Spine.

Mauck, Robert L.....*8*: JOR Spine.

Mauck, Robert L.....*4*: Mechano-Therapeutics LLC; *8*: JOR Spine.

Mauck, Robert L.....*8*: Co-Editor of JOR Spine.

Mauck, Robert L......*Disclosed no conflict of interest.*

Mauck, Roberto L.....*8*: JOR Spine.

Mayer, Bruce .....*Disclosed no conflict of interest.*

Mayman, David.....*1*: OrthAlign, Smith & Nephew; *2*: Smith & Nephew; *3B*: Smith & Nephew; *4*: Imagen, Insight, OrthAlign, Wishbone; *5*: Smith & Nephew; *9*: Knee Society.

Maza-Frechín, Mario.....*Disclosed no conflict of interest.*

Mazda, Osam.....*Disclosed no conflict of interest.*

Mazda, Yusuke.....*Disclosed no conflict of interest.*

Mazuchi, Flavia A.S. .....*Disclosed no conflict of interest.*

Mazzari, Giulia .....*Disclosed no conflict of interest.*

Mbachu, Ephriam .....*Disclosed no conflict of interest.*

Mbalaviele, Gabriel.....*3B*: Aclaris Therapeutics, Inc.; *4*: Aclaris Therapeutics, Inc.

McAlinden, Audrey.....*8*: Yes.

McAllister, Kyron .....*Disclosed no conflict of interest.*

Mcallister, Scott.....*Disclosed no conflict of interest.*

McBeath, Rowena.....*Disclosed no conflict of interest.*

McBride-Gagyi, Sara .....*Disclosed no conflict of interest.*

McBroom, Trevor J.....*Disclosed no conflict of interest.*

McCabe, Megan.....*Disclosed no conflict of interest.*

McCarthy, Andrea.....*Disclosed no conflict of interest.*

McCarthy, Christina Teresa.....*Disclosed no conflict of interest.*

McCarthy, Helen E .....*Disclosed no conflict of interest.*

McCarthy, Stephanie M .....*Disclosed no conflict of interest.*

McCarthy, Stephanie M. .....*Disclosed no conflict of interest.*

McCarthy, Thomas.....*3A*: Stryker employee; *4*: Stryker Corp.

McCarty, Colin P .....*Disclosed no conflict of interest.*

McChesney, Grant R .....*Disclosed no conflict of interest.*

McClellan, Phillip .....*Disclosed no conflict of interest.*

McClendon, Mark .....*Disclosed no conflict of interest.*

McClincy, Michael.....*1*: Elizur LLC.

McClincy, Micheal P.....*Disclosed no conflict of interest.*

McCloud, Darby .....*Disclosed no conflict of interest.*

McClure, Michael.....*6*: Musculoskeletal Transplant Foundation.

McClure, Michael J.....*6*: MTF Biologics.

McCool, Jillian L .....*Disclosed no conflict of interest.*

McCool, Jillian L. .....*Disclosed no conflict of interest.*

McCormack, Robert .....*Disclosed no conflict of interest.*

McCormack, Thomas J .....*Disclosed no conflict of interest.*

Mcculloch, Patrick.....*Disclosed no conflict of interest.*

McCutcheon, Sean.....*Disclosed no conflict of interest.*

McDonald, Christopher.....*Disclosed no conflict of interest.*

McDowell IV, Thomas W.....*3A*: DePuy Synthes.

McDowell, Arthur J .....*Disclosed no conflict of interest.*

McDowell, Susan M. .....*Disclosed no conflict of interest.*

McFadden, Erin.....*Disclosed no conflict of interest.*

McFaline-Figueroa, Jennifer.....*Disclosed no conflict of interest.*

McGale, Jance G.....*Disclosed no conflict of interest.*

McGee-Lawrence, Meghan .....*Disclosed no conflict of interest.*

McGee-Lawrence, Meghan E ....*Disclosed no conflict of interest.*

McGee-Lawrence, Meghan E. ...*Disclosed no conflict of interest.*

McGowan, Alyssa M .....*Disclosed no conflict of interest.*

McGrath, Brian .....*3B*: Smith & Nephew.

McGrath, James .....*Disclosed no conflict of interest.*

McGrath, Thomas M .....*Disclosed no conflict of interest.*

McGrath, Tom.....*Disclosed no conflict of interest.*

McGuire, Flynn .....*Disclosed no conflict of interest.*

McHardy, Paul .....*Disclosed no conflict of interest.*

McIff, Terence E. .....*Disclosed no conflict of interest.*

McIlwraith, C Wayne .....*3B*: Arthrex; *4*: Advanced Regenerative Therapies.

McIlwraith, C. Wayne .....*Disclosed no conflict of interest.*

McIlwraith, Wayne .....*Disclosed no conflict of interest.*

McIver, Natalia .....*Disclosed no conflict of interest.*

McKenzie, Jennifer.....*Disclosed no conflict of interest.*

McKenzie, Jennifer A .....*Disclosed no conflict of interest.*

McMahon, Patrick J .....*Disclosed no conflict of interest.*

McMurry, Tim.....*Disclosed no conflict of interest.*

McNamara, Laoise M .....*Disclosed no conflict of interest.*

McNamara, Stephanie L.....*Disclosed no conflict of interest.*

McNary, PhD, Sean .....*Disclosed no conflict of interest.*

McNeill, Tyler J .....*Disclosed no conflict of interest.*

McNulty, Amy.....*8*: Connective Tissue Research.

McNulty, Amy L .....*8*: Connective Tissue Research.

McNulty, Amy L. .....*8*: Connective Tissue Research.

McWalter, Emily J .....*Disclosed no conflict of interest.*

Mease, Joshua .....*Disclosed no conflict of interest.*

Meckmongkol, Teerin .....*Disclosed no conflict of interest.*

Meehan, John .....*Disclosed no conflict of interest.*

Meek, Wendy M .....*Disclosed no conflict of interest.*

Mehringer, Noah J. .....*3A*: DePuy Synthes.

Mehta, Amisha .....*Disclosed no conflict of interest.*

Mehta, Bella .....*Disclosed no conflict of interest.*

Mehta, Nabil.....*Disclosed no conflict of interest.*

Mehta, Samir .....*Disclosed no conflict of interest.*

Meldosian, Aleen L .....*Disclosed no conflict of interest.*

Mell, Steven P.....*Disclosed no conflict of interest.*

Mella, Giovanni.....*Disclosed no conflict of interest.*

Mellon, Stephen J. .....*Disclosed no conflict of interest.*

Melnic, Christopher M .....*Disclosed no conflict of interest.*

Melo, Luana.....*Disclosed no conflict of interest.*

Melvin, Patricia R.....*Disclosed no conflict of interest.*

Menarim, Bruno C.....*Disclosed no conflict of interest.*

Mendez, Melanie E .....*Disclosed no conflict of interest.*

Meng, Weikun .....*Disclosed no conflict of interest.*

Mengoni, Marlène .....*9*: Board of director - VPH institute, UK chapter.

Mengsteab, Paulos Y.....*Disclosed no conflict of interest.*

Menon, Nathan.....*Disclosed no conflict of interest.*

Menuey, Elizabeth M. .....*Disclosed no conflict of interest.*

Mercer, Deana .....*Disclosed no conflict of interest.*

Mesfin, Addisu.....*5*: AO Spine, Globus Medical.

Mesfin, Addisu.....*5*: AO Spine, Globus; *9*: SRS, NASS, CSRS, AAOS, AOA, J Robert Gladden Orthopedic Society.

Messamore, William .....*Disclosed no conflict of interest.*

Messenger, Elizabeth D.....*Disclosed no conflict of interest.*

Metcalf, Rory .....*Disclosed no conflict of interest.*

Metzger, Corinne E .....*Disclosed no conflict of interest.*

Metzger, Gregory J.....*Disclosed no conflict of interest.*

Meulink, Steven L .....*3A*: Zimmer Biomet; *4*: Zimmer Biomet.

Meyer, Gretchen.....*Disclosed no conflict of interest.*

Meyer, Gretchen A. .....*Disclosed no conflict of interest.*

Meyers, Carolyn A.....*Disclosed no conflict of interest.*

Meyers, James H .....*Disclosed no conflict of interest.*

Meyler, Ella .....*Disclosed no conflict of interest.*

Meynen, Alexander .....*Disclosed no conflict of interest.*

Miamidian, John .....*3A*: Zimmer Biomet.

Miao, Zhen.....*Disclosed no conflict of interest.*

Michael, Getty .....*Disclosed no conflict of interest.*

Michalek, Arthur J.....*Disclosed no conflict of interest.*

Michaud, John B .....*Disclosed no conflict of interest.*

Michel, Hassler .....*3A*: Wright Medical Ltd.

Michel, Jonathan .....*Disclosed no conflict of interest.*

Mickle, Alyssa R .....*Disclosed no conflict of interest.*

Miclau III, Theodore.....*3B*: Amgen, Bone Therapeutics, Arquos, Surrozen, DePuy; *9*: OTA.

Miclau, Theodore.....*3B*: Arquos: Paid consultant; Stock or stock Options, Bone Therapeutics: Paid consultant, NXTSENS: Paid consultant, Surrozen: Paid consultant, Synthes: Paid consultant; *6*: Globus Medical: Other financial or material support, KCI: Other financial or material support; *9*: AO Foundation: Board or committee member, Baxter: Research support, Inman Abbott Society: Board or committee member, International Combined Orthopaedic Research Societies: Board or committee member, International Orthopaedic Trauma Association: Board or committee member, Orthopaedic Research Society: Board or committee member, Orthopaedic Trauma Association: Board or committee member, Osteosynthesis and Trauma Care Foundation: Board or committee member, , San Francisco General Hospital Foundation: Board or committee member.

Miclau, Theodore.....*3B*: Amgen, Bone Therapeutics, Arquos, Surrozen, DePuy; *5*: Baxter; *9*: Inman Abbott, iCORS, Osteosynthesis & Trauma Care Foundation, AO Foundation/AO Research Institute Advisory Committee, iOTA.

Miclau, Theodore.....*3B*: Amgen, Bone Therapeutics, Arquos, Surrozen, DePuy; *5*: Baxter; *9*: Inman Abbott Society, Orthopaedic Research Society, International Combined Orthopaedic Research Societies.

Miclau, Theodore.....*3B*: Arquos: Paid consultant; Stock or stock Options, Bone Therapeutics: Paid consultant, NXTSENS: Paid consultant, Surrozen: Paid consultant, Synthes: Paid consultant; *6*: Baxter: Research support, Globus Medical: Other financial or material support, KCI: Other financial or material support, Stryker: Other financial or material support; *9*: AO Foundation: Board or committee member, Inman Abbott Society: Board or committee member, International Combined Orthopaedic Research Societies: Board or committee member International Orthopaedic Trauma Association: Board or committee member, Orthopaedic Research Society: Board or committee member, Orthopaedic Trauma Association: Board or committee member, Osteosynthesis and Trauma Care Foundation: Board or committee member, , San Francisco General Hospital Foundation: Board or committee member.

Middendorf, Jill M .....*Disclosed no conflict of interest.*

Middleton, Emily .....*Disclosed no conflict of interest.*

Midekssa, Firaol.....*Disclosed no conflict of interest.*

Midgaard, Kaare S......*Disclosed no conflict of interest.*

Midtgaard, Kaare.....*Disclosed no conflict of interest.*

Mifune, Yutaka .....*Disclosed no conflict of interest.*

Migonney, Véronique .....*Disclosed no conflict of interest.*

Miguez, Sofia .....*Disclosed no conflict of interest.*

Miguez, Sofia M.....*Disclosed no conflict of interest.*

Mihalko, William .....*1*: Aesculap Inc; *3B*: Aesculap Inc, Zimmer/Biomet; *7A*: Aesculap Inc; *7B*: Elsevier Inc; *8*: J Orthop Res, J Arthroplasty, J Long Term Eff Med Implants, Orthop Clinics NA; *9*: Campbell Foundation, AAOS, ORS, ASTM International, AAHKS, Knee Society, Hip Society.

Mihalko, William M .....*1*: Aesculap Inc; *3B*: Aesculap Inc, Acura-Biosciences Inc, Zimmer/Biomet; *7A*: Aesculap Inc; *7B*: Elsevier Inc; *8*: Journal of Orthopaedic Research, Journal of Arthroplasty, Journal Long Term Effects of Medical Implants, Orthopaedic Clinics of North America; *9*: Campbell Foundation, Orthopaedic Research Society, AAOS, ASTM International, AAHKS, , Knee Society, Hip Society.

Mihalko, William M .....*1*: Aesculap Inc; *3B*: Aesculap Inc; *7A*: Aesculap Inc; *7B*: ELsevier Inc; *8*: Journal of Orthopaedic Research, Journal of Arthroplasty, Journal Long Term Effects of Medical Implants, Orthopaedic Clinics of North America; *9*: ORS, AAOS, ASTM International, AAHKS, Knee Society, Hip Society.

Mihalko, William M .....*1*: Aesculap Inc; *3B*: Aesculap Inc, Zimmer/Biomet; *7A*: Aesculap Inc; *7B*: Elsevier Inc; *8*: J Orthop Res, J Arthroplasty, J Long Term Eff Med Implants, Orthop Clinics NA; *9*: Campbell Foundation, AAOS, ORS, ASTM International, AAHKS, Knee Society, Hip Society.

Mihelc, Kevin .....*3A*: Stryker.

Mikkonen, Santtu .....*Disclosed no conflict of interest.*

Mikos, Antonios.....*Disclosed no conflict of interest.*

Miles, Jon W. .....*Disclosed no conflict of interest.*

Miles, Jon Wesley .....*Disclosed no conflict of interest.*

Millecamps, Magali.....*Disclosed no conflict of interest.*

Miller, Andrew.....*Disclosed no conflict of interest.*

Miller, Andrew C.....*Disclosed no conflict of interest.*

Miller, Andy .....*Disclosed no conflict of interest.*

Miller, Benjamin C .....*Disclosed no conflict of interest.*

Miller, Benjamin F.....*Disclosed no conflict of interest.*

Miller, Catherine.....*Disclosed no conflict of interest.*

Miller, Christopher P......*Disclosed no conflict of interest.*

Miller, Kirsten C .....*Disclosed no conflict of interest.*

Miller, M C .....*Disclosed no conflict of interest.*

Miller, Mark.....*Disclosed no conflict of interest.*

Miller, Mark A.....*Disclosed no conflict of interest.*

Miller, Mark C.....*Disclosed no conflict of interest.*

Miller, Mark Carl.....*Disclosed no conflict of interest.*

Miller, Rachel E .....*Disclosed no conflict of interest.*

Miller, Richard J .....*Disclosed no conflict of interest.*

Millet, Peter J......*1*: Arthrex, Inc, Medbridge; *3B*: Arthrex, Inc; *4*: VuMedi; *5*: Arthrex, Inc, Ossur, Siemens, Smith & Nephew; *7B*: Springer.

Millett, Peter J .....*1*: Arthrex, Medbridge royalties; *3B*: Arthrex; *4*: VuMedi; *5*: Research supported by Steadman Philippon Research Institute - grant funding or in-kind donations from Arthrex, DJO, MLB, Ossur, Siemens, Canon, Smith & Nephew, XTRE & Dept of Defense.; *7B*: Springer - book royalties.

Millett, Peter J .....*1*: Arthrex, Inc., Medbridge; *3B*: Arthrex, Inc.; *4*: VuMedi; *5*: Arthrex, Inc., Ossur, Smith & Nephew, Siemens; *7B*: Springer.

Millett, Peter J. .....*1*: Arthrex, Inc., Medbridge; *3B*: Arthrex, Inc.; *4*: VuMedi; *5*: Arthrex, Inc., Ossur, Siemens, Smith & Nephew; *7B*: Springer.

Milligan, Ivy .....*Disclosed no conflict of interest.*

Milligan, Kenneth .....*Disclosed no conflict of interest.*

Minardi, Silvia.....*Disclosed no conflict of interest.*

Minegishi, Yuki .....*Disclosed no conflict of interest.*

Mingjian, Xu.....*Disclosed no conflict of interest.*

Miniaci, Anthony .....*1*: Arthrosurface; *2*: Arthrosurface; *3B*: Arthrosurface, Trice; *4*: DePuy, Medtronic, Zimmer, Stryker, Arthrosurface, Trice; *5*: Arthrosurface; *6*: Stryker, Arthrosurface; *7B*: Wolters Kluwer Health - Lippincott Williams & Wilkins; *8*: Wolters Kluwer Health - Lippincott Williams & Wilkins; *9*: , American Shoulder and Elbow Surgeons, Arthroscopy Association of North America, American Orthopaedic Society for Sports Medicine.

Minton, Dennis .....*Disclosed no conflict of interest.*

Mirochnik, Karina .....*Disclosed no conflict of interest.*

Mirza, Muhammad .....*Disclosed no conflict of interest.*

Mishima, Kenichi .....*Disclosed no conflict of interest.*

Mitchell, John .....*Disclosed no conflict of interest.*

Mitchell, Mary .....*Disclosed no conflict of interest.*

Mithcell, John .....*Disclosed no conflict of interest.*

Mitra, Indranath .....*Disclosed no conflict of interest.*

Mitsutake, Ryo.....*Disclosed no conflict of interest.*

Mittwede, Peter .....*Disclosed no conflict of interest.*

Miura, Yugo .....*Disclosed no conflict of interest.*

Miyaji, Takahiro.....*Disclosed no conflict of interest.*

MIyaki, Shigeru .....*Disclosed no conflict of interest.*

Miyamoto, Hiroki.....*Disclosed no conflict of interest.*

Miyamoto, Tomohiro.....*Disclosed no conflict of interest.*

Miyata, Kazuhiro.....*Disclosed no conflict of interest.*

Miyatake, Kazumasa.....*Disclosed no conflict of interest.*

Miyazaki, Kunihiko.....*Disclosed no conflict of interest.*

Miyazaki, Ryo.....*Disclosed no conflict of interest.*

Miyazaki, Shingo .....*Disclosed no conflict of interest.*

Miyazaki, Takuji .....*Disclosed no conflict of interest.*

Mizera, Megan M.....*Disclosed no conflict of interest.*

Mizuno, Shuichi .....*Disclosed no conflict of interest.*

Mizuno, Yoshihiro.....*Disclosed no conflict of interest.*

Moatshe, Gilbert.....*Disclosed no conflict of interest.*

Modler, Niels .....*Disclosed no conflict of interest.*

Moeinzadeh, Seyedsina .....*Disclosed no conflict of interest.*

Moeser, Adam J .....*Disclosed no conflict of interest.*

Mohamed, Mohamed F .....*Disclosed no conflict of interest.*

Mohamed, Nequesha S......*Disclosed no conflict of interest.*

Mohammadi, Ali .....*Disclosed no conflict of interest.*

Mohanty, Ronak .....*Disclosed no conflict of interest.*

Mohanty, Sarthak .....*Disclosed no conflict of interest.*

Mojahed Yazdi, Reza.....*Disclosed no conflict of interest.*

Mojica Santiago, PhD, Jorge Alexis *Disclosed no conflict of interest.*

Mok, Anthony.....*Disclosed no conflict of interest.*

Mok, Anthony C.....*Disclosed no conflict of interest.*

Mok, Chan Hee .....*Disclosed no conflict of interest.*

Molino, Janine .....*Disclosed no conflict of interest.*

Mologne, Timothy S.....*3B*: JRF Ortho, Samumed; *5*: JRF Ortho.

Molstad, David .....*Disclosed no conflict of interest.*

Molstad, David H.H.....*Disclosed no conflict of interest.*

Molstad, David HH.....*Disclosed no conflict of interest.*

Momenzadeh, Kaveh.....*Disclosed no conflict of interest.*

Momin, Aisha Azeem.....*Disclosed no conflict of interest.*

Momma, Daisuke.....*Disclosed no conflict of interest.*

Monaghan, Griffin .....*Disclosed no conflict of interest.*

Monibi, Farrah A.....*Disclosed no conflict of interest.*

Monk, A. Paul .....*Disclosed no conflict of interest.*

Mononen, Mika E. .....*Disclosed no conflict of interest.*

Mont, Michael .....*3B*: Stryker Corp; *4*: Stryker Corp; *6*: Johnson & Johnson; *7A*: Stryker Corp; *8*: AAOS, AAHKS, Journal of Arthroplasty, Journal of Knee Surgery, Orthopaedics, Surgical Techniques International, Wolters Kluwer Health.

Mont, Michael .....*1*: Microport, Stryker; *3B*: Cymedica, DJ Orthopaedics, Flexion Therapeutics, Johnson & Johnson, Ongoing Care Solutions, Orthosensor, Pacira, Peerwell, Performance dynamics, Pfizer, Skye Biologics, Stryker, Tissue Gene; *4*: Peerwell, USMI; *5*: DJ Orthopaedics, Johnson & Johnson, National Institutes of Health (NIAMS & NICHD), Ongoing Care Solutions, Orthosensor, Stryker, Tissue Gene; *7B*: Medicus Works LLC, Up-to Date, Wolters Kluwer Health - Lippincott Williams & Wilkins; *8*: Journal of Arthroplasty, Journal of Knee Surgery, Orthopedics, Surgical Techniques International; *9*: AAOS, American Association of Hip and Knee Surgeons, Knee Society).

Mont, Michael .....*3B*: Cymedica, Flexion Therapeutics, Johnson and Johnson, Kolon TissueGene, Pacira, Pfizer, Stryker; *4*: CERAS Health, MirrorAR, Peerwell, USMI; *5*: Johnson and Johnson, National Institutes of Health (NIAMS & NICHD), RegenLab, Stryker, , TissueGene; *6*: , Up-to Date; *7A*: , Stryker; *7B*: , Medicus Works LLC, Up-to Date, Wolters Kluwer Health - Lippincott Williams & Wilkins; *8*: , Journal of Arthroplasty, Journal of Knee Surgery, Orthopedics, Surgical Techniques International; *9*: , AAOS, American Association of Hip and Knee Surgeons, Knee Society.

Mont, Michael A .....*3B*: Cymedica, Flexion Therapeutics, Johnson & Johnson, Kolon, TissueGene, Pacira, Pfizer, Stryker; *4*: CERAS Health, MirrorAR, Peerwell, USMI; *5*: johnson & johnson, NIH, RegenLab, , Stryker, TissueGene; *7A*: , Stryker; *7B*: , Medicus Works LLC, Up-to Date, Wolter Kluwer Health; *8*: , Journal of Arthroplasty, Journal of Knee Surgery, Orthopedics, Surgical Techniques International; *9*: , AAOS, AAHKS, Knee Society.

Mont, Michael A. .....*3B*: Cymedica, Flexion Therapeutics, Johnson & Johnson, Kolon TissueGene, Pacira, Pfizer, Stryker; *4*: Ceras Health, MirrorAR, Peerwell, USMI; *5*: Johnson & Johnson, RegenLab, Stryker, TissueGene; *7A*: , Stryker; *7B*: , Medicus Works LLC, Up-to Date, Wolters Kluwer Health - Lippincott Williams & Wilkins; *8*: , Journal of Arthroplasty, Journal of Knee Surgery, Orthopedics, Surgical Techniques International; *9*: , AAOS, AAHKS, Knee Society.

Mont, Michael A. .....*3B*: Stryker.

Montclare, Jin.....*Disclosed no conflict of interest.*

Monte, Willis S.....*Disclosed no conflict of interest.*

Monteiro, Maurício J. .....*Disclosed no conflict of interest.*

Montemurro, Nicholas J .....*Disclosed no conflict of interest.*

Montero, Angela.....*Disclosed no conflict of interest.*

Montgomery, Jessie A.....*Disclosed no conflict of interest.*

Montgomery, Liam .....*Disclosed no conflict of interest.*

Montgomery, Liam Anthony.....*Disclosed no conflict of interest.*

Moo, Eng Kuan.....*Disclosed no conflict of interest.*

Moody, Mikayla.....*Disclosed no conflict of interest.*

Moon, Hong Joo.....*Disclosed no conflict of interest.*

Mooney, David J .....*5*: Novartis.

Mooney, Jake.....*Disclosed no conflict of interest.*

Moore, Don K.....*9*: AAOS, Lumbar Spine Research Society, North American Spine Society.

Moore, Douglas C .....*Disclosed no conflict of interest.*

Moore, Jacob A.....*Disclosed no conflict of interest.*

Moore, Joseph .....*Disclosed no conflict of interest.*

Moore, Rebecca.....*Disclosed no conflict of interest.*

Moore, Shamika .....*Disclosed no conflict of interest.*

Moore-Lotridge, Stephanie N ...*Disclosed no conflict of interest.*

Moorman, Claude.....*Disclosed no conflict of interest.*

Mora, Keshia.....*Disclosed no conflict of interest.*

Mora, Keshia E......*Disclosed no conflict of interest.*

Moradi, Babak .....*Disclosed no conflict of interest.*

Morales Yniguez, Francisco J.....*Disclosed no conflict of interest.*

Moran, Steven .....*Disclosed no conflict of interest.*

Moran, Steven L.....*Disclosed no conflict of interest.*

Morberg, Per .....*Disclosed no conflict of interest.*

Moré, Ari D.O.....*Disclosed no conflict of interest.*

Moré, Ari D.O......*Disclosed no conflict of interest.*

Morejon, Andy.....*Disclosed no conflict of interest.*

Moreno, Michael R .....*Disclosed no conflict of interest.*

Morgan, Elise F .....*7B*: Journal of Biomechanics.

Morgan, Oliver.....*Disclosed no conflict of interest.*

Mori, Akiyoshi.....*Disclosed no conflict of interest.*

Mori, Naoko.....*Disclosed no conflict of interest.*

Mori, Yu.....*Disclosed no conflict of interest.*

Morioka, Kazuhito.....*Disclosed no conflict of interest.*

Morioka, Yasuhide.....*3A*: Shionogi Co Ltd.

Morita, Akira.....*Disclosed no conflict of interest.*

Morita, Erika.....*Disclosed no conflict of interest.*

Morita, Yugo.....*6*: Amedica Co.

Morita, Yugo.....*6*: Amedica Co.

Morley, Christopher P.....*Disclosed no conflict of interest.*

Moroder, Philipp.....*1*: NCS Lab, Arthrex Inc; *2*: Arthrex; *3B*: DePuy Synthes Mitek, Arthrex Inc, NCS Lab; *5*: Arthrex Inc; *9*: German Society for Shoulder and Elbow Surgery.

Morosawa, Kazuma.....*Disclosed no conflict of interest.*

Morozov, Katya.....*Disclosed no conflict of interest.*

Morpeth, Brice.....*Disclosed no conflict of interest.*

Morris, Brandon.....*Disclosed no conflict of interest.*

Morris, Carol.....*Disclosed no conflict of interest.*

Morris, Matthew.....*Disclosed no conflict of interest.*

Morris, Randal.....*Disclosed no conflict of interest.*

Morris, Randal P.....*Disclosed no conflict of interest.*

Morrish, Benjamin.....*Disclosed no conflict of interest.*

Morrison, Courtney.....*Disclosed no conflict of interest.*

Morrison, Craig.....*Disclosed no conflict of interest.*

Morrison, Jefferson C......*2*: J&J; *3B*: Exactech; *5*: Zimmer Biomet, Conformis, J&J, Exactech.

Morse, Kyle W......*Disclosed no conflict of interest.*

Morton, Amy M.....*Disclosed no conflict of interest.*

Moscinski, Catherine.....*Disclosed no conflict of interest.*

Mosher, Christopher Z.....*Disclosed no conflict of interest.*

Mosher, Christopher Z......*Disclosed no conflict of interest.*

Mosley, Grace E .....*Disclosed no conflict of interest.*

Moss, Isaac L. .....*1*: Spineart; *3B*: Stryker, Biedermann Motech, ATEC; *4*: Orthozon, Spinal Simplicity.

Mostafa, Evan.....*Disclosed no conflict of interest.*

Mostafa, Fatemi.....*Disclosed no conflict of interest.*

Mote, Kelly L.....*3A*: DePuy Synthes.

Motomura, Goro.....*Disclosed no conflict of interest.*

Mou, Yongchao.....*Disclosed no conflict of interest.*

Moulton, Julia.....*Disclosed no conflict of interest.*

Mourkioti, Foteini.....*Disclosed no conflict of interest.*

Moutzouros, Vasilios .....*Disclosed no conflict of interest.*

Mowry, Katie .....*3A*: Organogenesis.

Mowry, Katie C .....*3A*: Organogenesis.

Muehleman, Carol .....*Disclosed no conflict of interest.*

Mueller, John Kyle P .....*3A*: Zimmer Biomet; *4*: Zimmer Biomet.

Mueller, John P.....*3A*: Zimmer Biomet; *4*: Zimmer Biomet.

Mueller, Sebastian.....*Disclosed no conflict of interest.*

Mueske, Nicole M. .....*Disclosed no conflict of interest.*

Muh, Stephanie .....*3B*: DePuy, A Johnson & Johnson Company, Exactech, Inc, FX Shoulder; *5*: Smith & Nephew; *9*: AAOS, American Orthopaedic Association.

Muir, Brittney C .....*Disclosed no conflict of interest.*

Muire, Preeti J .....*Disclosed no conflict of interest.*

Muirhead-Allwood, Sarah K.....*Disclosed no conflict of interest.*

Mukherjee, Kaushik.....*Disclosed no conflict of interest.*

Mukherjee, Satanik.....*Disclosed no conflict of interest.*

Mukohara, Shintaro.....*Disclosed no conflict of interest.*

Mukundan, Roshni.....*Disclosed no conflict of interest.*

Mulcahey, Mary.....*2*: Arthrex, Inc.; *8*: American Journal of Sports Medicine Electronic Media, Arthroscopy, Ortho Info; *9*: AAOS, American Orthopaedic Society for Sports Medicine, Arthroscopy Association of North America, Ruth Jackson Orthopaedic Society, The Forum.

Mulcahey, Mary.....*2*: Arthrex, Inc: Paid presenter or speaker; *8*: American Journal of Sports Medicine Electronic Media: Editorial or governing board, Arthroscopy: Editorial or governing board,

Ortho Info: Editorial or governing board; *9*: AAOS: Board or committee member, American Orthopaedic Society for Sports Medicine: Board or committee member, Arthroscopy Association of North America: Board or committee member, Ruth Jackson Orthopaedic Society: Board or committee member, The Forum: Board or committee member.

Mulcahey, Mary K......*2*: Arthrex, Inc: Paid presenter or speaker; *8*: American Journal of Sports Medicine Electronic Media: Editorial or governing board, Arthroscopy: Editorial or governing board, Ortho Info: Editorial or governing board; *9*: AAOS: Board or committee member, American Orthopaedic Society for Sports Medicine: Board or committee member, Arthroscopy Association of North America: Board or committee member, Ruth Jackson Orthopaedic Society: Board or committee member, The Forum: Board or committee member.

Mulier, Michiel .....*Disclosed no conflict of interest.*

Muljadi, Patrick M .....*Disclosed no conflict of interest.*

Mulkern, Robert V. .....*Disclosed no conflict of interest.*

Mullen, Michael.....*Disclosed no conflict of interest.*

Mullen, Michael T .....*Disclosed no conflict of interest.*

Mullen, Scott .....*3B*: Stryker.

Mulligan, Edward.....*Disclosed no conflict of interest.*

Mulligan, Edward P.....*Disclosed no conflict of interest.*

Mumith, Aadil.....*Disclosed no conflict of interest.*

Muneta, Takeshi .....*Disclosed no conflict of interest.*

Munford, Maxwell James .....*Disclosed no conflict of interest.*

Munro, Jacob T .....*Disclosed no conflict of interest.*

Munsch, Maria Amelia.....*Disclosed no conflict of interest.*

Mura, Nariyuki.....*Disclosed no conflict of interest.*

Murakami, Hideki .....*Disclosed no conflict of interest.*

Murakami, Koji .....*Disclosed no conflict of interest.*

Murakawa, Yasuhiro.....*Disclosed no conflict of interest.*

Muralidharan, Krishna .....*Disclosed no conflict of interest.*

Murata, Daiki.....*Disclosed no conflict of interest.*

Murata, Kenji.....*Disclosed no conflict of interest.*

Murata, Yoichi .....*Disclosed no conflict of interest.*

Muratoglu, Orhun.....*1*: Corin, Stryker, Arthrex, Conformis, Meril Healthcare, Exactech, Cambridge Polymer Group; *4*: Cambridge Polymer Group, Orthopedic Technology Group, Alchimist.

Muratoglu, Orhun.....*1*: Corin, Zimmer Biomet, Stryker, Kyocera, Arthrex, ConforMIS, Meril Healthcare, Exactech, Cambridge Polymer Group; *4*: Cambridge Polymer Group, Orthopedic Technology Group, Alchimist.

Muratovic, Dzenita .....*Disclosed no conflict of interest.*

Muriuki, Muturi .....*Disclosed no conflict of interest.*

Murphy, Lance A......*Disclosed no conflict of interest.*

Murphy, Meredith .....*Disclosed no conflict of interest.*

Murray, David W. .....*3B*: Zimmer Biomet; *5*: Zimmer Biomet; *7A*: Zimmer Biomet.

Murray, Hallie.....*3A*: Tyber Medical.

Murray, Martha M.....*4*: MIACH Orthopaedics; *7B*: Springer Publishing.

Murray, Martha M.....*4*: MMM is an equity holder in MIACH Orthopaedics.; *7B*: MMM receives royalties from Springer Publishing.

Murthi, Anand .....*1*: Globus Inc, Depuy, Ignite Orthopaedics; *3B*: Ignite Orthopaedics, Catalyst Orthoscience, Globus Inc, Depuy; *4*: Catalyst Orthoscience, Ignite Orthopaedics, Aevumed; *7A*: WRS Inc; *8*: Journal of Shoulder and Elbow Surgery; *9*: American Shoulder and Elbow Surgeons.

Murthi, Anand M.....*1*: AAOS: board or committee member; American Journal of Orthopedics: editorial or governing board, publishing royalties, financial or material support; American Shoulder and Elbow Surgeons: board or comm.

Murugesh, Deepa K .....*Disclosed no conflict of interest.*

Musahl, Volker.....*7B*: Smith & Nephew, Arthrex, Depuy Synthes, Conmed, Springer.

Muscat, Samantha Natsumi.....*Disclosed no conflict of interest.*

Musson, David S .....*Disclosed no conflict of interest.*

Mustafy, Tanvir.....*Disclosed no conflict of interest.*

Muthukrishnan, Gowrishankar .*Disclosed no conflict of interest.*

Mutreja, Isha .....*Disclosed no conflict of interest.*

Mwale, Fackson .....*Disclosed no conflict of interest.*

Myers, Casey.....*Disclosed no conflict of interest.*

Myers, Casey A .....*Disclosed no conflict of interest.*

Myers, Erik.....*Disclosed no conflict of interest.*

Myers, Kristin M .....*Disclosed no conflict of interest.*

Nabeki, Shogo.....*Disclosed no conflict of interest.*

Nadeau, Elizabeth.....*Disclosed no conflict of interest.*

Nadesan, Puviindran.....*Disclosed no conflict of interest.*

Nagai, Kanto .....*Disclosed no conflict of interest.*

Nagamine, Ryuji.....*Disclosed no conflict of interest.*

Nagamune, Kouki.....*Disclosed no conflict of interest.*

Naganuma, Yasushi.....*Disclosed no conflict of interest.*

Nagata, Sanae.....*Disclosed no conflict of interest.*

Nagata, Tadashi .....*Disclosed no conflict of interest.*

Nagel, Thomas .....*Disclosed no conflict of interest.*

Nagelli, Christopher .....*Disclosed no conflict of interest.*

Nagura, Takeo.....*Disclosed no conflict of interest.*

Naito, Yohei .....*Disclosed no conflict of interest.*

Nakagaki, Sumika .....*Disclosed no conflict of interest.*

Nakagawa, Koichi .....*Disclosed no conflict of interest.*

Nakagawa, Shinsuke.....*Disclosed no conflict of interest.*

Nakagawa, Shuji .....*Disclosed no conflict of interest.*

Nakagawa, Yusuke.....*Disclosed no conflict of interest.*

Nakahara, Ichiro .....*Disclosed no conflict of interest.*

Nakajima, Kosei .....*Disclosed no conflict of interest.*

Nakajima, Shun.....*Disclosed no conflict of interest.*

Nakamura, Hiroaki.....*Disclosed no conflict of interest.*

Nakamura, Kunio.....*Disclosed no conflict of interest.*

Nakamura, Mary.....*Disclosed no conflict of interest.*

Nakamura, Masaya.....*Disclosed no conflict of interest.*

Nakamura, Nariaki.....*Disclosed no conflict of interest.*

Nakamura, Takayuki.....*3A*: Employee of Johnson and Johnson (DePuy); *4*: Stockholder of Johnson and Johnson.

Nakamura, Tomomasa.....*Disclosed no conflict of interest.*

Nakanishi, Kazuyoshi .....*Disclosed no conflict of interest.*

Nakanishi, Yuta.....*Disclosed no conflict of interest.*

Nakano, Naoki .....*Disclosed no conflict of interest.*

Nakasa, Tomoyuki .....*Disclosed no conflict of interest.*

Nakashima, Daisuke.....*Disclosed no conflict of interest.*

Nakashima, Iris .....*Disclosed no conflict of interest.*

Nakashima, Yasuharu .....*Disclosed no conflict of interest.*

Nakasone, Aaron .....*Disclosed no conflict of interest.*

Nakata, Ken .....*Disclosed no conflict of interest.*

Nakayama, Koichi .....*Disclosed no conflict of interest.*

Nakazawa, Takahiro.....*3A*: AnGes Inc.

Nakonezny, Paul .....*Disclosed no conflict of interest.*

Nakonezny, Paul A.....*Disclosed no conflict of interest.*

Nalbach, Mathis.....*Disclosed no conflict of interest.*

Nam, Denis .....*Disclosed no conflict of interest.*

Nam, Gun Woo .....*Disclosed no conflict of interest.*

Nam, Jin Woo.....*Disclosed no conflict of interest.*

Nambiar, Pallavi.....*Disclosed no conflict of interest.*

Nambu, Satya .....*3A*: MicroPort Orthopedics.

Namdari, Surena.....*Disclosed no conflict of interest.*

Nammour, Michael.....*Disclosed no conflict of interest.*

Naofal, Aamer.....*Disclosed no conflict of interest.*

Naot, Dorit.....*Disclosed no conflict of interest.*

Napier, T. Celeste.....*3B*: GIA-Miami LLC, Rochon Genova, LLP; *5*: Acadia Pharmaceuticals, Inc.

Narayan, Ramani .....*Disclosed no conflict of interest.*

Narayanan, Suresh.....*Disclosed no conflict of interest.*

Nasamran, Chanond A .....*Disclosed no conflict of interest.*

Nasert, Michael .....*3A*: mtf biologics; *6*: ConMed.

Nasser, Philip .....*Disclosed no conflict of interest.*

Naudie, Douglas.....*1*: Smith & Nephew; *2*: Smith & Nephew; *3B*: Smith & Nephew; *6*: Smith & Nephew, DePuy, Stryker; *9*: Knee Society.

Nauman, Eric A .....*Disclosed no conflict of interest.*

Nauth, Aaron .....*2*: Stryker, Synthes; *3B*: Toronto Blue Jays; *5*: Stryker, Synthes, Zimmer, Wright Medical, Smith & Nephew; *9*: Chair of Basic Science Committee, OTA.

Nazal, Mark R.....*Disclosed no conflict of interest.*

Nazarian, Ara .....*Disclosed no conflict of interest.*

Nazemi, Alireza .....*Disclosed no conflict of interest.*

Nazemi, Alireza K. .....*Disclosed no conflict of interest.*

Nazemi, Alireza Kaveh .....*Disclosed no conflict of interest.*

Neal, Craig J .....*Disclosed no conflict of interest.*

Neal, Kelsey .....*Disclosed no conflict of interest.*

Neal, Matthew.....*Disclosed no conflict of interest.*

Nedopil, Alexander Johannes ...*3B*: Medacta.

Nedrelow, David .....*Disclosed no conflict of interest.*

Negishi, Keisuke.....*Disclosed no conflict of interest.*

Negri, Stefano.....*Disclosed no conflict of interest.*

Neidlinger-Wilke, Cornelia.....*Disclosed no conflict of interest.*

Nellans, Kate W .....*Disclosed no conflict of interest.*

Nelson, Anna-Laura .....*Disclosed no conflict of interest.*

Nelson, Brad B .....*Disclosed no conflict of interest.*

Nelson, Bradley J .....*Disclosed no conflict of interest.*

Nelson, Fred.....*7B*: Elsevier royalties.

Nelson, Stephen P.....*Disclosed no conflict of interest.*

Nemke, Brett .....*Disclosed no conflict of interest.*

Neo, Masashi .....*Disclosed no conflict of interest.*

Nepple, Jeffrey.....*2*: Smith & Nephew; *3B*: Responsive Arthroscopy, Smith & Nephew; *5*: Smith & Nephew, Zimmer; *8*: Arthroscopy; *9*: Pediatric Research in Sports Medicine Society.

Neral, Mithun .....*Disclosed no conflict of interest.*

Neri, John.....*Disclosed no conflict of interest.*

Neto, Mozart Queiroz .....*Disclosed no conflict of interest.*

Neu, Corey P .....*Disclosed no conflict of interest.*

Neu, Corey P. .....*Disclosed no conflict of interest.*

Neuhoefer, Patrick.....*Disclosed no conflict of interest.*

Neuwirth, Alexander .....*Disclosed no conflict of interest.*

Nevelos, Jim.....*3A*: Stryker employee; *4*: Stryker Corp.

Nevitt, Michael C .....*Disclosed no conflict of interest.*

Newcomb, Nicholas .....*Disclosed no conflict of interest.*

Newcomb, Nicholas L.....*Disclosed no conflict of interest.*

Newhouse, Alexander.....*Disclosed no conflict of interest.*

Newhouse, Alexander C.....*Disclosed no conflict of interest.*

Newman, Harrah .....*Disclosed no conflict of interest.*

Newman, Simon .....*3B*: Orthonika.

Ng, Geoffrey .....*Disclosed no conflict of interest.*

Ng, Martin .....*Disclosed no conflict of interest.*

Ng, Mitchell .....*Disclosed no conflict of interest.*

Ngo, Lucy .....*Disclosed no conflict of interest.*

Nguyen, Julie .....*Disclosed no conflict of interest.*

Nguyen, Lich Thi.....*Disclosed no conflict of interest.*

Nguyen, Matthew H.....*Disclosed no conflict of interest.*

Nguyen, Nhi.....*Disclosed no conflict of interest.*

Nguyen, Phong K.....*Disclosed no conflict of interest.*

Nho, Shane J .....*3B*: Stryker.

Nho, Shane J .....*5*: llosource, Arthrex, DJ Orthopaedics, Athletico, Miomed, Smith & Nephew, Stryker.

Nho, Shane J .....*5*: Stryker, Springer, Össur, Arthrex, Linvatec, Smith & Nephew, DJ Orthopaedics, Miomed, Athletico, and Allosource.

Nho, Shane J .....*5*: Allosource, Arthrex, DJ Orthopaedics, Athletico, Miomed, Smith & Nephew, Stryker.

Nho, Shane J .....*1*: Ossur, Stryker; *3B*: Stryker; *5*: Allosource, Arthrex, Inc, Athletico, DJ Orthopaedics, Linvatec, Miomed, Smith & Nephew, Stryker; *6*: Springer; *7B*: Springer; *9*: American Orthopaedic Association, American Orthopaedic Society for Sports Medicine, , Arthroscopy Association of North America.

Nho, Shane J .....*5*: Allosource, Arthrex, Athletico, DJ Orthopaedics, Linvatec, Miomed, Smith & Nephew, Stryker; *7B*: Springer; *9*: Allosource, American Orthopaedic Society for Sports Medicine, Arthroscopy Association of North America.

Nho, Shane J. .....*1*: Stryker; *3B*: Stryker; *5*: Allosource, Arthrex, Athletico, DJ Orthopaedics, Linvatec, Miomed, Stryker, Smith & Nephew; *7B*: Springer; *9*: American Orthopaedic Association, American Orthopaedic Society for Sports Medicine, Arthroscopy Association of North America.

Ni, Ai .....*Disclosed no conflict of interest.*

Nichenko, Anna .....*Disclosed no conflict of interest.*

Nichols, Anne E.C. .....*Disclosed no conflict of interest.*

Nichols, Jennifer .....*Disclosed no conflict of interest.*

Nichols, Jennifer A .....*Disclosed no conflict of interest.*

Nichols, Luke.....*Disclosed no conflict of interest.*

Nicholson, Gregory P .....*1*: Innomed, Wright Medical Technology; *2*: Arthrosurface; *3B*: Tornier, Arthrosurface; *9*: ASES.

Nicolaides, Marios .....*Disclosed no conflict of interest.*

Nicolozakes, Constantine.....*Disclosed no conflict of interest.*

Niedermair, Tanja .....*Disclosed no conflict of interest.*

Niederoest, Barbara.....*Disclosed no conflict of interest.*

Nielsen, Gunnlaugur P .....*Disclosed no conflict of interest.*

Nielsen, Jeffery J .....*3A*: Novosteo Inc.

Nielson, Clark R......*Disclosed no conflict of interest.*

Nieminen, Petteri .....*Disclosed no conflict of interest.*

Niesen, Abigail.....*Disclosed no conflict of interest.*

Nigam, Aman .....*Disclosed no conflict of interest.*

Niikura, Takahiro .....*Disclosed no conflict of interest.*

Niki, Yasuo.....*Disclosed no conflict of interest.*

Nikolaou, Sia.....*Disclosed no conflict of interest.*

Nims, Robert J.....*Disclosed no conflict of interest.*

Nimura, Akimoto .....*Disclosed no conflict of interest.*

Ning, Bohao .....*Disclosed no conflict of interest.*

Ninomiya, James T.....*Disclosed no conflict of interest.*

Ninomiya, Mark J......*Disclosed no conflict of interest.*

Nishida, Kazuya.....*Disclosed no conflict of interest.*

Nishida, Kotaro.....*Disclosed no conflict of interest.*

Nishida, Kyohei.....*Disclosed no conflict of interest.*

Nishida, Yasuhiro.....*Disclosed no conflict of interest.*

Nishida, Yohei.....*Disclosed no conflict of interest.*

Nishida, Yoshihiro.....*Disclosed no conflict of interest.*

Nishimoto, Hanako.....*Disclosed no conflict of interest.*

Nishimura, Akinobu.....*Disclosed no conflict of interest.*

Nishine, Jun.....*Disclosed no conflict of interest.*

Nishio, Megumi.....*Disclosed no conflict of interest.*

Nishizawa, Kohei.....*Disclosed no conflict of interest.*

Nishtala, Sita Nirupama.....*Disclosed no conflict of interest.*

Niu, Xiao.....*Disclosed no conflict of interest.*

Noble, Philip.....*1*: Stryker, Zimmer Biomet; *3B*: Zimmer Biomet; *4*: Joint View, LLC; *5*: CeramTech; *6*: Zimmer Biomet; *7B*: Springer; *8*: J of Arthroplasty, J of Hip Preservation Surgery; *9*: International Soc of Technology in Arthroplasty.

Noble, Philip C.....*1*: Zimmer Biomet, Stryker; *3B*: Zimmer Biomet; *4*: Joint View; *5*: CeramTech, Zimmer Biomet, Arthrex, Smith & Nephew; *6*: DJO; *7B*: Springer; *8*: Journal of Hip Preservation; *9*: International Society of Technology in Arthroplasty.

Noble, Philip C.....*1*: Stryker; Zimmer Biomet; *4*: Joint View; *5*: Stryker, Zimmer Biomet, Smith & Nephew, Arthrex, CeramTech; *6*: DJO; *7B*: Springer; *8*: Journal of Preservation; *9*: International Society of Technology in Arthroplasty.

Noble, Philip C.....*1*: Zimmer Biomet, Stryker; *3B*: Zimmer Biomet; *4*: Joint View; *5*: Stryker, Zimmer Biomet, Smith & Nephew, Arthrex, CeramTech; *6*: DJO; *7B*: Springer; *8*: Journal of Hip Preservation; *9*: International Society of Technology in Arthroplasty.

Nobunori, Takahashi.....*Disclosed no conflict of interest.*

Nodzo, Scott R.....*Disclosed no conflict of interest.*

Noel, Peter.....*Disclosed no conflict of interest.*

Noiseux, Nicolas O.....*3B*: Microport, Smith & Nephew.

Nolte, Philip-C.....*Disclosed no conflict of interest.*

Nolte, Philip-Christian.....*5*: Research grants from Arthrex Inc.; *6*: Fellowship sponsored by Arthrex Inc.

Noonan, Alex Matthew.....*Disclosed no conflict of interest.*

Norman, Elizabeth.....*Disclosed no conflict of interest.*

Norman, Elizabeth H.....*Disclosed no conflict of interest.*

Norman, Timothy L.....*Disclosed no conflict of interest.*

Norton, Andrew.....*Disclosed no conflict of interest.*

Notermans, Thomas Maria Willem *Disclosed no conflict of interest.*

Novais, Eduardo.....*Disclosed no conflict of interest.*

Novais, Eduardo N .....*Disclosed no conflict of interest.*

Novak, Natalie .....*Disclosed no conflict of interest.*

Nowak, Emma K.....*Disclosed no conflict of interest.*

Nowak, Lauren.....*Disclosed no conflict of interest.*

Nowlan, Niamh C.....*Disclosed no conflict of interest.*

Nuckley, David J.....*3A*: Stryker Spine.

Nukuto, Koji.....*Disclosed no conflict of interest.*

Numaguchi, Kyosuke .....*Disclosed no conflict of interest.*

Nunley, Brandon S .....*Disclosed no conflict of interest.*

Nuss, Courtney A .....*Disclosed no conflict of interest.*

Nwachuku, Chinenye O.....*Disclosed no conflict of interest.*

Nyayapati, Priya.....*Disclosed no conflict of interest.*

Oba, Hiroki.....*Disclosed no conflict of interest.*

Oba, Masatoshi.....*Disclosed no conflict of interest.*

Obeidat, Alia M.....*Disclosed no conflict of interest.*

Oberley-Deegan, Rebecca.....*3C*: BioMimetix.

Obioha, Obianuju.....*Disclosed no conflict of interest.*

O'Brien, Fergal J .....*1*: Integra LifeSciences; *2*: Integra LifeSciences; *3A*: SurgaColl Technologies; *3C*: SurgaColl Technologies; *5*: SurgaColl Technologies, Integra LifeSciences, Johnson & Johnson; *6*: SurgaColl Technologies, Integra LifeSciences, Johnson & Johnson, Jellagen; *7A*: Elsevier.

O'Brien, Luke .....*Disclosed no conflict of interest.*

Öbrink-Hansen, Kristina.....*Disclosed no conflict of interest.*

Ocampo Moré, Ari Digiácomo...*Disclosed no conflict of interest.*

Ochiai, Satoshi .....*Disclosed no conflict of interest.*

Ockerhausen, Hayley G.....*Disclosed no conflict of interest.*

Ocksrider, Justin .....*Disclosed no conflict of interest.*

O'Connell, Grace .....*Disclosed no conflict of interest.*

O'Connor, Daniel .....*Disclosed no conflict of interest.*

O'Connor, J. Patrick.....*Disclosed no conflict of interest.*

Oda, Eimi .....*Disclosed no conflict of interest.*

Oda, Takahiro .....*Disclosed no conflict of interest.*

O'Donnell, Benjamen.....*Disclosed no conflict of interest.*

O'Donnell, Evan A.....*Disclosed no conflict of interest.*

O'Donnell, Ryan.....*Disclosed no conflict of interest.*

O'Donoghue, Cristina M.....*Disclosed no conflict of interest.*

O'Driscoll, Caitriona M.....*Disclosed no conflict of interest.*

Odum, Susan.....*Disclosed no conflict of interest.*

Odum, Susan M .....*3B*: American Joint Replacement Registry; *9*: Lumbar Spine Research Society, North American Spine Society.

Oe, Keisuke.....*Disclosed no conflict of interest.*

Oest, Megan .....*Disclosed no conflict of interest.*

Oest, Megan E.....*Disclosed no conflict of interest.*

Oest, Megan E......*Disclosed no conflict of interest.*

Oestreich, Arin K......*Disclosed no conflict of interest.*

Oganesyan, Ruben.....*Disclosed no conflict of interest.*

Ogihara, Naomichi.....*Disclosed no conflict of interest.*

Ogle, Molly E.....*Disclosed no conflict of interest.*

Ogon, Izaya.....*Disclosed no conflict of interest.*

Oguchi, Akiko.....*Disclosed no conflict of interest.*

Oh, Irvin.....*1*: Innomed.

Oh, Joo Han .....*Disclosed no conflict of interest.*

Oh, Joo-Han .....*Disclosed no conflict of interest.*

Oh, Seoghyun.....*Disclosed no conflict of interest.*

O'Hara, Kelsey .....*Disclosed no conflict of interest.*

O'Hara, Kelsey M .....*Disclosed no conflict of interest.*

Ohashi, Yoshifumi.....*Disclosed no conflict of interest.*

Ohkoshi, Yasumitsu .....*Disclosed no conflict of interest.*

Ohnishi, Hiroki.....*Disclosed no conflict of interest.*

Ohno, Kinji.....*Disclosed no conflict of interest.*

Ohta, Daichi.....*Disclosed no conflict of interest.*

Ohtori, Seiji.....*Disclosed no conflict of interest.*

Oichi, Takeshi.....*Disclosed no conflict of interest.*

Oishi, Ryuta .....*Disclosed no conflict of interest.*

Oishi, Takayuki.....*Disclosed no conflict of interest.*

Ojanen, Simo P .....*Disclosed no conflict of interest.*

Oka, Yuichiro .....*Disclosed no conflict of interest.*

Okada, Mitsuhiro.....*Disclosed no conflict of interest.*

Okada, Yohei.....*Disclosed no conflict of interest.*

Okamoto, Yoshihiro.....*Disclosed no conflict of interest.*

Okamoto, Yoshinori.....*Disclosed no conflict of interest.*

Okano, Ichiro .....*Disclosed no conflict of interest.*

Okanouchi, Noriya .....*Disclosed no conflict of interest.*

Okawa, Atsushi.....*Disclosed no conflict of interest.*

Okawa, Atushi .....*Disclosed no conflict of interest.*

Okawara, Hiroki.....*Disclosed no conflict of interest.*

Okayoshi, Tomohiro.....*Disclosed no conflict of interest.*

Okazaki, Ken .....*Disclosed no conflict of interest.*

O'Keefe, Regis.....*Disclosed no conflict of interest.*

O'Keefe, Regis J.....*7A*: Fate Therapeutics; *8*: Bone; *9*: AOA.

Okewunmi, Jeffrey.....*Disclosed no conflict of interest.*

Oki, Hiroharu .....*Disclosed no conflict of interest.*

Okubo, Atsushi .....*Disclosed no conflict of interest.*

Okubo, Taketo .....*Disclosed no conflict of interest.*

Oladeji, Lasun O.....*Disclosed no conflict of interest.*

Oláh, Tamás.....*Disclosed no conflict of interest.*

Olendorf, Narcisa.....*3A*: Orthopedic Analysis.

Oliver, David .....*Disclosed no conflict of interest.*

Olson, Brooke .....*Disclosed no conflict of interest.*

Olson, Lucas C.....*Disclosed no conflict of interest.*

Olson, Steven.....*5*: Depuy Synthes.

Olszewski, Adam.....*Disclosed no conflict of interest.*

Oluyede, Dami O.....*Disclosed no conflict of interest.*

O'Malley, Michael.....*Disclosed no conflict of interest.*

Omari, Ali.....*Disclosed no conflict of interest.*

Ominsky, Michael S. .....*3A*: Radius Health Inc; *4*: Radius Health Inc.

Omoto, Takenori.....*Disclosed no conflict of interest.*

O'Neill, Conor W. .....*4*: Nocimed and Relievant.

Onishi, Kentaro .....*Disclosed no conflict of interest.*

Onishi, Soichi .....*Disclosed no conflict of interest.*

Önnerfjord, Patrik.....*Disclosed no conflict of interest.*

Onodera, Tomohiro .....*5*: Shionogi Co Ltd.

Onotera, Tomohiro .....*Disclosed no conflict of interest.*

Onuma, Hiroaki.....*Disclosed no conflict of interest.*

Onyekwere, Ikenna.....*Disclosed no conflict of interest.*

Onyeukwu, Chukwudi.....*Disclosed no conflict of interest.*

Opperman, Angelica .....*Disclosed no conflict of interest.*

Oral, Ebru.....*1*: Corin, Stryker, Iconacy, Renovis, ConforMIS, Meril Healthcare, Exactech.

Oral, Ebru.....*1*: Corin, Stryker, Iconacy, Renovis, Arthrex, Conformis, Meril Healthcare, Exactech.

Orava, Heta.....*Disclosed no conflict of interest.*

Oravec, Daniel .....*Disclosed no conflict of interest.*

Orbay, Jorge.....*Disclosed no conflict of interest.*

Ordonez Diaz, Tamara.....*Disclosed no conflict of interest.*

Ordway, Nathaniel R.....*5*: AgNovos Healthcare.

Orías, Alejandro A Espinoza .....*Disclosed no conflict of interest.*

Orita, Kumi .....*Disclosed no conflict of interest.*

Orland, Keith J. .....*Disclosed no conflict of interest.*

Orozco, Fabio.....*3B*: Stryker.

Orozco, Gustavo .....*Disclosed no conflict of interest.*

Orton, Kevin.....*Disclosed no conflict of interest.*

Osborn, Michelle L.....*Disclosed no conflict of interest.*

Osei, David.....*Disclosed no conflict of interest.*

Oshima, Yasushi.....*Disclosed no conflict of interest.*

Osterhage, Wyatt W. .....*Disclosed no conflict of interest.*

Osterhed, Elin .....*Disclosed no conflict of interest.*

Oswald, Sara J.....*Disclosed no conflict of interest.*

Ota, Masahiro.....*Disclosed no conflict of interest.*

Ota, Mitsutoshi.....*Disclosed no conflict of interest.*

Otani, Shunya .....*Disclosed no conflict of interest.*

Otani, Toshiro.....*Disclosed no conflict of interest.*

Otero, Jesse E.....*3B*: DePuy.

Otero, Miguel .....*3B*: Regeneron Pharmaceuticals; *5*: Tissue Genesis Inc.

Otsuki, Shuhei.....*Disclosed no conflict of interest.*

Ott, Jeff.....*3A*: Biorez.

Ott, Kelly.....*Disclosed no conflict of interest.*

Ouellet, Jean.....*Disclosed no conflict of interest.*

Outerleys, Jereme B.....*Disclosed no conflict of interest.*

Overman, Steven .....*3B*: KenSci, Inc.

Owen, John R.....*Disclosed no conflict of interest.*

Owen, Mark.....*Disclosed no conflict of interest.*

Owens, Brett.....*Disclosed no conflict of interest.*

Owens, Brett D .....*3B*: Mitek, Conmed, Vericel, Miach; *4*: Vivorte; *5*: Arthrex, Mitek, MTF; *7A*: Conmed.

Owens, Brett D. .....*3B*: consultant of MTF/Conmed, Mitek, Vericel, MIACH; *4*: holds stock options in Vivorte; *7A*: receives royalties from Conmed; *8*: American Journal of Sports Medicine; *9*: Orthopedics, Orthopedics Today, AOSSM.

Owens, Johnny .....*3B*: 3B.

Owhonda, Rebisi.....*Disclosed no conflict of interest.*

Oyama, Kazuki.....*Disclosed no conflict of interest.*

Oyama, Ryunosuke.....*Disclosed no conflict of interest.*

Oyama, Shohei.....*Disclosed no conflict of interest.*

Ozaki, Toshifumi .....*Disclosed no conflict of interest.*

Ozeki, Nobutake .....*Disclosed no conflict of interest.*

Ozevin, Didem .....*Disclosed no conflict of interest.*

Ozone, Kaichi .....*Disclosed no conflict of interest.*

Pekala, Jakub R. .....*Disclosed no conflict of interest.*

Pekala, Przemyslaw A .....*Disclosed no conflict of interest.*

Pacheco, Marguerite Aurora.....*Disclosed no conflict of interest.*

Pacheco, Yan C.....*Disclosed no conflict of interest.*

Pacheco, Yan Carlos.....*Disclosed no conflict of interest.*

Pacicca, Donna.....*9*: ORS Chair of Public Outreach.

Packer, Samuel .....*Disclosed no conflict of interest.*

Padgaonkar, Adit .....*Disclosed no conflict of interest.*

Padilla, Alicia .....*3A*: Orthopedic Analysis.

Paez, Conner C.....*Disclosed no conflict of interest.*

Pafitanis, Georgios.....*Disclosed no conflict of interest.*

Pagani, Chase.....*Disclosed no conflict of interest.*

Paglia, David .....*Disclosed no conflict of interest.*

Paglia, David N......*Disclosed no conflict of interest.*

Pal, Deepanwita.....*Disclosed no conflict of interest.*

Palacios, Pablo.....*Disclosed no conflict of interest.*

Palmer, Ian .....*3A*: Globus Medical Sales Representative.

Palmer, Matthew.....*3A*: Stryker.

Palmieri-Smith, Riann M.....*7B*: AOSSM Medical Publishing Board; *8*: Sports Health: A Multidisciplinary Approach, Journal of Applied Biomechanics, Journal of Athletic Training.

Pan, Chi-chun.....*Disclosed no conflict of interest.*

Pan, Dongfeng .....*Disclosed no conflict of interest.*

Pan, Haiying.....*Disclosed no conflict of interest.*

Panchapakesan, Karuna.....*Disclosed no conflict of interest.*

Pandya, Shivani.....*Disclosed no conflict of interest.*

Panebianco, Christopher J .....*Disclosed no conflict of interest.*

Pang, Henry .....*Disclosed no conflict of interest.*

Pannell, William C.....*Disclosed no conflict of interest.*

Pannellini, Tania .....*Disclosed no conflict of interest.*

Panos, Joseph A .....*Disclosed no conflict of interest.*

Paoli, Allison .....*Disclosed no conflict of interest.*

Papadopoulos, Dimitrios .....*Disclosed no conflict of interest.*

Papannagari, Ramprasad.....*3A*: Smith + Nephew; *4*: Smith + Nephew.

Pape, Dietrich .....*Disclosed no conflict of interest.*

Pape, Hans-Christoph .....*Disclosed no conflict of interest.*

Para, Ashok.....*Disclosed no conflict of interest.*

Parada, Stephen A. .....*3B*: Arthrex, Inc, Exactech, Inc; *5*: Exactech, Inc; *9*: Committee member for AAOS, Committee member for ASES.

Paradiso, Francesca .....*Disclosed no conflict of interest.*

Parajuli, Ashutosh.....*Disclosed no conflict of interest.*

Parajuli, Dikshya .....*Disclosed no conflict of interest.*

Parduhn, Charlie .....*3A*: Zimmer Biomet; *4*: Zimmer Biomet.

Parduhn, Charlie .....*3A*: Zimmer Biomet.

Pare, Daniel W. .....*Disclosed no conflict of interest.*

Pareek, Ayoosh.....*Disclosed no conflict of interest.*

Parekh, Jesal N.....*Disclosed no conflict of interest.*

Parekh, Selene G......*Disclosed no conflict of interest.*

Parente, James .....*Disclosed no conflict of interest.*

Paris, Sebastian.....*Disclosed no conflict of interest.*

Parisi, Daniele .....*Disclosed no conflict of interest.*

Park, Dongsu.....*Disclosed no conflict of interest.*

Park, Gayoung .....*Disclosed no conflict of interest.*

Park, Hyeon .....*3A*: Theradaptive, Inc.

Park, Hyung Bin .....*Disclosed no conflict of interest.*

Park, Jeannie.....*Disclosed no conflict of interest.*

Park, Joo Hyun .....*Disclosed no conflict of interest.*

Park, Joshua YK.....*Disclosed no conflict of interest.*

Park, Kwang Hwan.....*Disclosed no conflict of interest.*

Park, Na Rae .....*Disclosed no conflict of interest.*

Park, Sang-Hyun.....*5*: DePuy Orthopaedics, Orthofix, Microport, Nuvasive, NIH.

Park, Seok-hee.....*Disclosed no conflict of interest.*

Park, Suk-Hee .....*Disclosed no conflict of interest.*

Park, Won.....*Disclosed no conflict of interest.*

Park, Young-Eun.....*Disclosed no conflict of interest.*

Parker, Dana M.....*Disclosed no conflict of interest.*

Parker, Emily.....*Disclosed no conflict of interest.*

Parks, Brent .....*1*: Arthrex, Inc: IP royalties; DARCO: IP royalties; DJ Orthopaedics: IP royalties; Foot and Ankle International: Editorial or governing board; Zimmer: IP royalties.

Parks, Russell.....*Disclosed no conflict of interest.*

Parola, Lauren R......*Disclosed no conflict of interest.*

Parratte, Sebastian .....*1*: Zimmer Biomet, NewClip Technic; *2*: Zimmer Biomet; *3B*: Zimmer Biomet; *5*: Zimmer Biomet; *9*: European Knee Society.

Parson, Jacob.....*Disclosed no conflict of interest.*

Partain, Brittany D.....*Disclosed no conflict of interest.*

Parthasarathy, Gautam.....*Disclosed no conflict of interest.*

Partridge, Simon.....*Disclosed no conflict of interest.*

Parvaresh, Kevin.....*Disclosed no conflict of interest.*

Parvaresh, Kevin C.....*Disclosed no conflict of interest.*

Parvizi, Javad .....*Disclosed no conflict of interest.*

Pascual-Garrido, Cecilia .....*5*: Sanofi, OREF, Zimmer.

Pascual-Garrido, Cecilia .....*5*: AOSSM/Sanofi, OREF, Zimmer.

Pasculle, William.....*Disclosed no conflict of interest.*

Pasieka, Pawel Melchior.....*Disclosed no conflict of interest.*

Pastinen, Tomi.....*Disclosed no conflict of interest.*

Patel, Anand .....*Disclosed no conflict of interest.*

Patel, Jay M .....*3B*: NovoPedics.

Patel, Jay M. .....*Disclosed no conflict of interest.*

Patel, Karan .....*Disclosed no conflict of interest.*

Patel, Neel .....*Disclosed no conflict of interest.*

Patel, Roosheel.....*Disclosed no conflict of interest.*

Patel, Urvi J......*Disclosed no conflict of interest.*

Patel, Vaidehi.....*Disclosed no conflict of interest.*

Patel, Vikas .....*Disclosed no conflict of interest.*

Patmon, Darin L. .....*Disclosed no conflict of interest.*

Patterson, Matthew.....*Disclosed no conflict of interest.*

Patton, Daniella M......*Disclosed no conflict of interest.*

Patwardhan, Avinash.....*Disclosed no conflict of interest.*

Paul, Ranjan Rashmi .....*Disclosed no conflict of interest.*

Paulus, Megan .....*Disclosed no conflict of interest.*

Pavan, Mauro .....*3A*: Fidia Farmaceutici.

Pavlesen, Sonja.....*Disclosed no conflict of interest.*

Pawar, Vivek.....*3A*: Smith & Nephew; *4*: Smith & Nephew.

Payne, Christopher .....*Disclosed no conflict of interest.*

Payne, Emma .....*Disclosed no conflict of interest.*

Payne, Karin.....*Disclosed no conflict of interest.*

Paziewski, Mateusz P......*Disclosed no conflict of interest.*

Pearl, Matthew.....*Disclosed no conflict of interest.*

Pearle, Andrew .....*3B*: Exactech Inc, Smith & Nephew, Stryker, Zimmer; *4*: Engage; *5*: Stryker.

Peddada, MD, Kranti.....*Disclosed no conflict of interest.*

Peddinti, Pranav .....*Disclosed no conflict of interest.*

Pederson, Alisha P .....*Disclosed no conflict of interest.*

Pedoia, Valentina.....*5*: GE Healthcare.

Peebles, Liam A......*Disclosed no conflict of interest.*

Peelor III, Frederick F .....*Disclosed no conflict of interest.*

Pei, Shaopeng .....*Disclosed no conflict of interest.*

Peipert, Leah J......*Disclosed no conflict of interest.*

Pellegrini, Jr., Vincent D. .....*Disclosed no conflict of interest.*

Pelletier, Matthew.....*Disclosed no conflict of interest.*

Peloquin, John .....*Disclosed no conflict of interest.*

Penaranda, David .....*Disclosed no conflict of interest.*

Penatzer, Julia.....*Disclosed no conflict of interest.*

Peng, Yun.....*3A*: NuVasive.

Pennock, Andrew T.....*1*: Imagen; *3B*: OrthoPediatrics; *9*: American Orthopaedic Society for Sports Medicine, Pediatric Orthopaedic Society of North America.

Pensworth, Joel .....*Disclosed no conflict of interest.*

Peredo, Ana P .....*Disclosed no conflict of interest.*

Pérez-Bellmunt, Albert .....*Disclosed no conflict of interest.*

Perier-Metz, Camille .....*Disclosed no conflict of interest.*

Pernseiner, Ashley N.....*Disclosed no conflict of interest.*

Pernsteiner, Ashley N .....*Disclosed no conflict of interest.*

Peroglio, Marianna .....*Disclosed no conflict of interest.*

Perreault, Eric J .....*Disclosed no conflict of interest.*

Persons, Amanda L. .....*5*: Acadia Pharmaceuticals, Inc.

Persson, Andreas .....*Disclosed no conflict of interest.*

Pervaiz, Sahir S......*Disclosed no conflict of interest.*

Peterson, Andrew.....*Disclosed no conflict of interest.*

Peterson, Andrew C.....*Disclosed no conflict of interest.*

Peterson, Anna K .....*Disclosed no conflict of interest.*

Peterson, Joshua.....*3A*: Stryker.

Peterson, Sara.....*Disclosed no conflict of interest.*

Peterson, William .....*Disclosed no conflict of interest.*

Pezzanite, Lynn .....*Disclosed no conflict of interest.*

Pfannkuche, Judith J .....*Disclosed no conflict of interest.*

Pfeifer, Charlotte .....*Disclosed no conflict of interest.*

Pfeifer, Roman.....*Disclosed no conflict of interest.*

Pfeiffenberger, Moritz .....*Disclosed no conflict of interest.*

Pferdehirt, Lara.....*Disclosed no conflict of interest.*

Pham, Christine T.N. .....*Disclosed no conflict of interest.*

Pham, Christine TN .....*Disclosed no conflict of interest.*

Pham, Nguyen .....*Disclosed no conflict of interest.*

Phan, Amy .....*Disclosed no conflict of interest.*

Phan, Eileen .....*Disclosed no conflict of interest.*

Philippon, Marc J .....*Disclosed no conflict of interest.*

Philippon, Marc J. .....*1*: Arthrex, Arthrosurface, Bledsoe, CONMED Linvatec, DonJoy, Smith & Nephew; *3B*: Smith & Nephew, MIS; *4*: Arthrosurface, MIS, MJP Innovations, LLC, Vail Valley Surgery Center, EffRx, Proofpoint Biologics, TSC DME and TSC Imaging; *5*: , Smith and Nephew, Ossur, Arthrex, Siemens, Vail Valley Medical Center; *6*: , Smith & Nephew; *7B*: , SLACK Incorporated, Elsevier; *9*: , ASIAM, International Society for Hip Arthroscopy, AOSSM, Steadman Philippon Research Institute, Vail Health Services, Vail Valley Surgery Center Governing Council.

Phillips, Jennifer.....*Disclosed no conflict of interest.*

Phillips, Matthew.....*2*: Stryker Orthopaedics.

Phillips, Matthew.....*3B*: Stryker Orthopaedics, Smith & Nephew; *4*: Ampio Pharmaceuticals, Turbett Surgical.

Phillips, Matthew.....*2*: Stryker.

Phillips, Nikki .....*Disclosed no conflict of interest.*

Phillips, Tammy E......*Disclosed no conflict of interest.*

Phu, Tuan.....*Disclosed no conflict of interest.*

Piche, Nicolas.....*Disclosed no conflict of interest.*

Piedra, Victor .....*Disclosed no conflict of interest.*

Piedrahita, Jorge A.....*Disclosed no conflict of interest.*

Pierce, Kirk.....*Disclosed no conflict of interest.*

Pierre, Kinsley .....*Disclosed no conflict of interest.*

Pinpin, Camille .....*Disclosed no conflict of interest.*

Pinto, Christopher.....*Disclosed no conflict of interest.*

Pinto, Otavio T......*Disclosed no conflict of interest.*

Pirkle, Sean .....*Disclosed no conflict of interest.*

Pirkle, Sean C .....*Disclosed no conflict of interest.*

Pirosa, Alessandro .....*Disclosed no conflict of interest.*

Pitcairn, Samuel.....*Disclosed no conflict of interest.*

Pitcairn, Samuel W.....*Disclosed no conflict of interest.*

Pitsillides, Andrew .....*Disclosed no conflict of interest.*

Piuzzi, Nicolas .....*Disclosed no conflict of interest.*

Piuzzi, Nicolas S......*5*: Regenlab, Zimmer; *8*: Journal of Hip Surgery, Journal of Knee Surgery; *9*: ISCT, Orthopaedic Research Society.

Piva, Sara R .....*Disclosed no conflict of interest.*

Plakotaris, Elena .....*Disclosed no conflict of interest.*

Plakseychuk, Anton .....*Disclosed no conflict of interest.*

Plakseychuk, Anton Y.....*Disclosed no conflict of interest.*

Plantz, Mark.....*Disclosed no conflict of interest.*

Plate, F. Johannes .....*Disclosed no conflict of interest.*

Plate, Johannes F .....*Disclosed no conflict of interest.*

Plate, Johannes F. .....*Disclosed no conflict of interest.*

Pleshko, Nancy .....*Disclosed no conflict of interest.*

Ploeg, Heidi.....*Disclosed no conflict of interest.*

Ploeg, Heidi-Lynn.....*6*: Nobel Biocare Services AG.

Podsiadlo, Daniel.....*Disclosed no conflict of interest.*

Poik, Mathias.....*Disclosed no conflict of interest.*

Polakovic, Sandrine V .....*3A*: Blue Ortho.

Polamalu, Sene K .....*Disclosed no conflict of interest.*

Pollitt, Eleanor N......*Disclosed no conflict of interest.*

Pollock, David C. .....*1*: DePuy; *2*: DePuy; *3B*: DePuy.

Pollock, J .....*Disclosed no conflict of interest.*

Polly, David W.....*1*: Royalties paid to institution: Globus and Medtronic; *3B*: SI Bone, Globus; *7B*: Springer.

Pollyky, Paul .....*Disclosed no conflict of interest.*

Pond, Kristina M .....*Disclosed no conflict of interest.*

Pons, Françoise.....*Disclosed no conflict of interest.*

Popchak, Adam.....*Disclosed no conflict of interest.*

Popchak, Adam J.....*Disclosed no conflict of interest.*

Popovich, Jr., John M......*Disclosed no conflict of interest.*

Poppe, Tanner .....*Disclosed no conflict of interest.*

Porporati, Alessandro A.....*3A*: CeramTec, GmbH.

Porter, Annie .....*Disclosed no conflict of interest.*

Porter, Susan .....*4*: PolyNovo, Inc.

Portilla, Gabriela.....*Disclosed no conflict of interest.*

Portney, Daniel A.....*Disclosed no conflict of interest.*

Posey, Samuel L .....*Disclosed no conflict of interest.*

Post, Austin.....*Disclosed no conflict of interest.*

Postolka, Barbara .....*Disclosed no conflict of interest.*

Potter, Barrett G .....*Disclosed no conflict of interest.*

Potter, Benjamin.....*Disclosed no conflict of interest.*

Potter, Hollis G.....*5*: Receive institutional research support from GE Healthcare.

Potter, Hollis G.....*5*: GE Healthcare.

Potter, Hollis G......*5*: GE Healthcare.

Potter, James.....*Disclosed no conflict of interest.*

Potter, Ryan S .....*Disclosed no conflict of interest.*

Potts, Jesse .....*Disclosed no conflict of interest.*

Pourzal, Robin.....*5*: Zimmer Biomet.

Pourzal, Robin.....*5*: Zimmer-Biomet.

Pourzal, Robin.....*5*: Zimmer.

Pozzi, Federico .....*Disclosed no conflict of interest.*

Prabhakar, Pooja .....*Disclosed no conflict of interest.*

Premkumar, Ajay.....*7B*: Elsevier.

Presciutti, Steven.....*Disclosed no conflict of interest.*

Presson, Bradley .....*Disclosed no conflict of interest.*

Price, Taylor.....*Disclosed no conflict of interest.*

Price, Taylor M.....*Disclosed no conflict of interest.*

Price, Taylor M......*Disclosed no conflict of interest.*

Priddy, Lauren B......*Disclosed no conflict of interest.*

Prince, Nicole.....*Disclosed no conflict of interest.*

Prithviraj, Sujeethkumar.....*Disclosed no conflict of interest.*

Probst, Julian .....*Disclosed no conflict of interest.*

Proctor, Ashley .....*Disclosed no conflict of interest.*

Provaggi, Elena .....*3A*: Orthonika; *4*: Orthonika.

Provencher, Benjamin .....*Disclosed no conflict of interest.*

Provencher, Matthew.....*2*: Arthrex, Arthrosurface; *3B*: Arthrex, SLACK Inc., Joint Research Foundation; *7A*: Arthrex; *7B*: Elsevier Inc.; *8*: Arthroscopy, Knee, Orthopedics, SLACK Inc; *9*: AANA, AAOS, AOSSM, ASES, , ISAKOS, San Diego Shoulder Institute, Society of Military Orthopaedic Surgeons.

Provencher, Matthew T. .....*1*: Arthrex, Inc.; *2*: Arthrex, Inc.; *3B*: Arthrex, Inc., Joint Restoration Foundation (Allosource); *7B*: SLACK Incorporated; *8*: Arthroscopy, Knee, Orthopedics, SLACK Incorporated; *9*: AAOS, American Orthopaedic Society for Sports Medicine, American Shoulder and Elbow Surgeons, Arthroscopy Association of North America, International Society of Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine, San Diego Shoulder Institute, , Society of Military Orthopaedic Surgeons.

Prüch, Elena.....*3A*: Active Implants LLC, 6060 Primacy Parkway, Suite 460, Memphis, TN, USA.

Pryce, Brian A .....*Disclosed no conflict of interest.*

Pucha, Krishna .....*Disclosed no conflict of interest.*

Puetzer, Jennifer.....*Disclosed no conflict of interest.*

Puetzer, Jennifer L .....*Disclosed no conflict of interest.*

Puetzer, Jennifer L. .....*Disclosed no conflict of interest.*

Pugely, Andrew J .....*Disclosed no conflict of interest.*

Pulasani, Sai.....*Disclosed no conflict of interest.*

Pullen, Nicholas .....*Disclosed no conflict of interest.*

Purdy, Kayla.....*Disclosed no conflict of interest.*

Purmessur, Devina.....*Disclosed no conflict of interest.*

Pust, Taylor M.....*Disclosed no conflict of interest.*

Qi, Jun.....*Disclosed no conflict of interest.*

Qi, Xinyu .....*Disclosed no conflict of interest.*

Qiao, Zhen .....*Disclosed no conflict of interest.*

Qin, Di.....*Disclosed no conflict of interest.*

Qin, Ling.....*Disclosed no conflict of interest.*

Qin, Qizhi.....*Disclosed no conflict of interest.*

Qiryaqoz, Zeena.....*Disclosed no conflict of interest.*

Qiu, Bowen.....*Disclosed no conflict of interest.*

Qu, Dovina.....*Disclosed no conflict of interest.*

Qu, Feini.....*Disclosed no conflict of interest.*

Qu, Jiayi.....*Disclosed no conflict of interest.*

Quade, Conrad.....*Disclosed no conflict of interest.*

Quam, Vivian G.....*Disclosed no conflict of interest.*

Quang, Duy Huynh.....*Disclosed no conflict of interest.*

Queen, Robin.....*Disclosed no conflict of interest.*

Queen, Robin M.....*Disclosed no conflict of interest.*

Queiroz Neto, Mozart.....*Disclosed no conflict of interest.*

Querido, William.....*Disclosed no conflict of interest.*

Quillen, Ellen.....*Disclosed no conflict of interest.*

Quillen, Ellen E.....*Disclosed no conflict of interest.*

Quinn, Matthew.....*Disclosed no conflict of interest.*

Quintero, Filiberto.....*Disclosed no conflict of interest.*

Qureshi, Sheeraz.....*1*: Stryker K2M, Globus Medical, Inc.; *2*: Globus Medical, Inc., AMOpportunities; *3B*: Stryker K2M, Globus Medical, Inc, Paradigm Spine, Healthgrades,, LifeLink.com Inc., Spinal Simplicity, LLC,, RTI Surgical Inc.; *4*: Avaz Surgical; *8*: Annals of Translational Medicine, Contemporary Spine Surgery; *9*: Society of Minimally Invasive Spine Surgery, , Minimally Invasive Spine Study Group.

Rachala, Sridhar.....*Disclosed no conflict of interest.*

Racine-Avila, Jennifer.....*Disclosed no conflict of interest.*

Racine-Avila, Jennifer R.....*Disclosed no conflict of interest.*

Radford, Lee.....*Disclosed no conflict of interest.*

Radice, Simona.....*Disclosed no conflict of interest.*

Radinsky, Samantha.....*Disclosed no conflict of interest.*

Raffai, Robert.....*Disclosed no conflict of interest.*

Rahman, Fatema.....*Disclosed no conflict of interest.*

Rahmani, Bahar.....*Disclosed no conflict of interest.*

Rai, Ajinkya .....*Disclosed no conflict of interest.*

Rai, Jyoti .....*Disclosed no conflict of interest.*

Rai, Muahammad F.....*Disclosed no conflict of interest.*

Rai, Muhammad Farooq .....*9*: ORS.

Rai, Rahul.....*Disclosed no conflict of interest.*

Raina, Deepak B.....*Disclosed no conflict of interest.*

Raina, Deepak Bushan .....*Disclosed no conflict of interest.*

Rainbow, Michael .....*Disclosed no conflict of interest.*

Rainbow, Roshni .....*Disclosed no conflict of interest.*

Rains, Christopher.....*Disclosed no conflict of interest.*

Rajah, Elmer N .....*Disclosed no conflict of interest.*

Rajapakse, Chamith .....*Disclosed no conflict of interest.*

Rajapakse, Chamith S.....*Disclosed no conflict of interest.*

Rajapaske, Chamith .....*Disclosed no conflict of interest.*

Rajaravivarma, Raga .....*3A*: Stryker; *4*: Stryker.

Rajasekaran, Mahemaa .....*3A*: Mahemaa Rajasekaran.

Rajasekaran, Mahemaa .....*3A*: MicroPort Orthopedic Inc.

Rajendran, Vishakk .....*Disclosed no conflict of interest.*

Ralston, Micah .....*Disclosed no conflict of interest.*

Ramette, Martin .....*Disclosed no conflict of interest.*

Ramirez, Erica M .....*Disclosed no conflict of interest.*

Ramos Peralta, Luis.....*Disclosed no conflict of interest.*

Rampado, Riccardo.....*Disclosed no conflict of interest.*

Randall, Jeff .....*Disclosed no conflict of interest.*

Randall, Jeffery .....*Disclosed no conflict of interest.*

Randall, Jeffrey .....*Disclosed no conflict of interest.*

Randall, R. Lor.....*Disclosed no conflict of interest.*

Randolph, Mark .....*Disclosed no conflict of interest.*

Rangrez, Mohammedayaz .....*Disclosed no conflict of interest.*

Ranum, Maggie.....*Disclosed no conflict of interest.*

Rao, Sanjna.....*Disclosed no conflict of interest.*

Rao, Zhitao.....*Disclosed no conflict of interest.*

Rapp, Timothy B .....*Disclosed no conflict of interest.*

Rashidi, Neda.....*Disclosed no conflict of interest.*

Rasner, Cody.....*Disclosed no conflict of interest.*

Rasponi, Marco.....*Disclosed no conflict of interest.*

Rastogi, Ajay.....*3A*: Stryker; *4*: Stryker.

Ratcliff, Terrul L .....*Disclosed no conflict of interest.*

Raterman, Brian.....*Disclosed no conflict of interest.*

Rauh, Michael.....*Disclosed no conflict of interest.*

Raval, Sarvgna .....*Disclosed no conflict of interest.*

Ravichandran Damodaran, Jeyaram *Disclosed no conflict of interest.*

Ravuri, Sudheer .....*Disclosed no conflict of interest.*

Ray, Lucas Jeffrey.....*Disclosed no conflict of interest.*

Raz, Avraham.....*Disclosed no conflict of interest.*

Raza, Ali .....*Disclosed no conflict of interest.*

Razavi, Mehdi .....*Disclosed no conflict of interest.*

Razu, Swithin S .....*Disclosed no conflict of interest.*

Reb, Christopher W.....*Disclosed no conflict of interest.*

Reber, Stefan O.....*Disclosed no conflict of interest.*

Reber, Stefan O......*Disclosed no conflict of interest.*

Redden, James.....*Disclosed no conflict of interest.*

Reddy, Akhil.....*Disclosed no conflict of interest.*

Redmond, Anthony C.....*Disclosed no conflict of interest.*

Reeder, Nathan C.....*3A*: DePuy Synthes.

Reeves, Jacob M .....*Disclosed no conflict of interest.*

Reeves, Russel .....*Disclosed no conflict of interest.*

Reger, Ryan J.....*Disclosed no conflict of interest.*

Reilly, Mark.....*Disclosed no conflict of interest.*

Reisdorf, Ramona .....*Disclosed no conflict of interest.*

Reisener, Marie-Jacqueline.....*Disclosed no conflict of interest.*

Reiter, Alex .....*Disclosed no conflict of interest.*

Reiter, Alex J .....*Disclosed no conflict of interest.*

Reiter, David A.....*Disclosed no conflict of interest.*

Reitman, Charles.....*Disclosed no conflict of interest.*

Ren, Pengling .....*Disclosed no conflict of interest.*

Ren, Rongguo.....*Disclosed no conflict of interest.*

Ren, Tianyi .....*Disclosed no conflict of interest.*

Ren, Weiping .....*Disclosed no conflict of interest.*

Ren, Ye.....*Disclosed no conflict of interest.*

Renoux, Florian.....*Disclosed no conflict of interest.*

Requist, Melissa R.....*Disclosed no conflict of interest.*

Rethlefsen, Susan A. .....*Disclosed no conflict of interest.*

Rey Rico, Ana .....*Disclosed no conflict of interest.*

Reyes, James.....*3A*: Stryker; *4*: Stryker.

Reyes, Pamela.....*Disclosed no conflict of interest.*

Reynolds, Alan W.....*Disclosed no conflict of interest.*

Reza, Annie.....*3A*: Stryker Spine; *4*: Stryker Spine.

Rezaee, Taraneh .....*1*: Tianna Edwards; *2*: Lamya Karim.

Rezvani, Sabah.....*Disclosed no conflict of interest.*

Rezvanifar, Sayed C.....*Disclosed no conflict of interest.*

Rhee, Brian .....*Disclosed no conflict of interest.*

Rhee, Claire.....*Disclosed no conflict of interest.*

Rhee, Sung-Min .....*Disclosed no conflict of interest.*

Rhodes, Alisha .....*Disclosed no conflict of interest.*

Ricciardi, Benjamin F.....*Disclosed no conflict of interest.*

Ricciardi, Benjamin F......*Disclosed no conflict of interest.*

Rice, Olivia .....*Disclosed no conflict of interest.*

Richards, Geoff .....*Disclosed no conflict of interest.*

Richards, Laura .....*3A*: MatOrtho Ltd.

Richards, R. Geoff .....*Disclosed no conflict of interest.*

Richardson, Alexandria N.....*Disclosed no conflict of interest.*

Richardson, Anthony R .....*Disclosed no conflict of interest.*

Richardson, Glen.....*2*: Stryker Orthopaedics.

Richardson, Glen.....*3B*: Stryker.

Ridenour, BS, Delaney C.....*Disclosed no conflict of interest.*

Ridenour, Delaney .....*Disclosed no conflict of interest.*

Riegger, Jana.....*Disclosed no conflict of interest.*

Rietberg, Nathan T.....*Disclosed no conflict of interest.*

Riffault, Mathieu .....*Disclosed no conflict of interest.*

Riffitts, Michelle .....*Disclosed no conflict of interest.*

Rifkin, Rebecca E.....*Disclosed no conflict of interest.*

Rikitake, Hajime.....*Disclosed no conflict of interest.*

Rimnac, Clare.....*7B*: CORR; *8*: Senior Associate Editor CORR.

Rimnac, Clare.....*9*: ORS.

Rinaldi, Carlos.....*Disclosed no conflict of interest.*

Ringsby, Geneva .....*Disclosed no conflict of interest.*

Rister, David .....*3A*: David Rister.

Ritter, Zachary .....*3B*: MedShape.

Rivera, Jannet.....*Disclosed no conflict of interest.*

Rivera, Kevin O .....*Disclosed no conflict of interest.*

Rizzo, Michael.....*Disclosed no conflict of interest.*

Ro, Du Hyun.....*Disclosed no conflict of interest.*

Roach, Koren E.....*Disclosed no conflict of interest.*

Robbins, Andrew B .....*Disclosed no conflict of interest.*

Robert, Normand.....*Disclosed no conflict of interest.*

Roberto, MD, Rolando .....*Disclosed no conflict of interest.*

Roberts, Joseph L.....*Disclosed no conflict of interest.*

Roberts, Lauren .....*Disclosed no conflict of interest.*

Roberts, Rachel.....*Disclosed no conflict of interest.*

Robinson, Dale.....*6*: DePuy Synthes Inc, USA.

Robinson, Matthew Gerald.....*Disclosed no conflict of interest.*

Robinson, Raymond.....*3B*: Exactech Inc; *5*: Exactech Inc.

Robinson, Raymond.....*1*: Consultant for Exactech Inc; *2*: Consultant for Stryker.

Robinson, Samuel T .....*Disclosed no conflict of interest.*

Robinson, Sydeny M .....*Disclosed no conflict of interest.*

Robinson, Sydney .....*Disclosed no conflict of interest.*

Robinson, William.....*Disclosed no conflict of interest.*

Robling, Alexander.....*Disclosed no conflict of interest.*

Rocca, Walter A. .....*Disclosed no conflict of interest.*

Rocco, Kevin .....*3A*: Biorez.

Roche, Christopher P .....*3A*: Exactech, Inc; *4*: Exactech Inc.

Roche, Christopher P .....*3A*: Exactech.

Roche, Martin W.....*Disclosed no conflict of interest.*

Roche, Stephen.....*Disclosed no conflict of interest.*

Rodeo, Scott .....*Disclosed no conflict of interest.*

Rodeo, Scott A .....*3B*: Teladoc; *4*: Ortho RTI.

Rodeo, Scott A. .....*3B*: Advance Medical; *4*: Ortho RTI; *5*: OREF, Toulmin Foundation, Angiocrine Biosciences.

Rodman III, Samuel N .....*Disclosed no conflict of interest.*

Rodrigues, D Danieli .....*Disclosed no conflict of interest.*

Rodriguez-Granrose, Daniel .....*3A*: DiscGenics; *4*: DiscGenics.

Rodriguez-Quintana, David.....*Disclosed no conflict of interest.*

Rodríguez-Sanz, Jacobo.....*Disclosed no conflict of interest.*

Roemer, Frank .....*3B*: Boston Imaging Core Labs, LLC.

Roesler, Carlos R.M......*5*: Vincula SA, Brazil.

Roesler, Carlos Rodrigo.....*Disclosed no conflict of interest.*

Roesler, Carlos Rodrigo de Mello *Disclosed no conflict of interest.*

Rogers, Andrew .....*Disclosed no conflict of interest.*

Rohatschek, Andreas .....*Disclosed no conflict of interest.*

Rojas, Edward O.....*Disclosed no conflict of interest.*

Rolvein, Tim.....*Disclosed no conflict of interest.*

Romereim, Sarah M......*Disclosed no conflict of interest.*

Romero Lopez, Monica.....*Disclosed no conflict of interest.*

Romero, Andrew B......*Disclosed no conflict of interest.*

Romero-Lopez, Monica.....*Disclosed no conflict of interest.*

Rong, Boyan.....*Disclosed no conflict of interest.*

Rooney, Amanda M.....*Disclosed no conflict of interest.*

Rooney, Tyler.....*Disclosed no conflict of interest.*

Rosania, Gus.....*3C*: Bristol-Myers Squib.

Rosas, Samuel.....*Disclosed no conflict of interest.*

Rosato, Francis.....*Disclosed no conflict of interest.*

Rosato, Francis E.....*Disclosed no conflict of interest.*

Rosecrance, Katherine.....*Disclosed no conflict of interest.*

Rosenberg, Antoine J.W.P......*Disclosed no conflict of interest.*

Rosenberg, James.....*Disclosed no conflict of interest.*

Rosenberg, Samuel I.....*Disclosed no conflict of interest.*

Ross, F. Patrick.....*Disclosed no conflict of interest.*

Ross, Ryan D.....*Disclosed no conflict of interest.*

Ross, Shane.....*Disclosed no conflict of interest.*

Rossi, Marcus.....*Disclosed no conflict of interest.*

Rossow, Jeffrey.....*Disclosed no conflict of interest.*

Rotello, Rocco J.....*Disclosed no conflict of interest.*

Roth, Eric.....*Disclosed no conflict of interest.*

Roth, Eric M.....*Disclosed no conflict of interest.*

Roth, Joshua.....*9*: ORS: member.

Roth, Joshua D.....*9*: ORS.

Rourke, Brennan.....*Disclosed no conflict of interest.*

Routman, Howard.....*3B*: Exactech, Inc; *7A*: Exactech, Inc.

Roy, Ryan.....*Disclosed no conflict of interest.*

Roye, Benjamin.....*Disclosed no conflict of interest.*

Rozbruch, S R.....*Disclosed no conflict of interest.*

Rubin, Elka.....*Disclosed no conflict of interest.*

Rubio, Francisco.....*Disclosed no conflict of interest.*

Rucinski, Kylee J.....*Disclosed no conflict of interest.*

Ruder, Matthew C.....*Disclosed no conflict of interest.*

Ruff, Garrett .....*Disclosed no conflict of interest.*

Rufin, Manuel.....*Disclosed no conflict of interest.*

Ruh, Ethan .....*Disclosed no conflict of interest.*

Rullkoetter, Paul.....*5*: DePuy Synthes.

Rullkoetter, Paul J.....*5*: DePuy Synthes.

Ruoss, Severin.....*Disclosed no conflict of interest.*

Rupp, Garrett E .....*Disclosed no conflict of interest.*

Russell, Duncan S......*Disclosed no conflict of interest.*

Rustenburg, Christine .....*Disclosed no conflict of interest.*

Ruzbarsky, Joe J. .....*Disclosed no conflict of interest.*

Ryaby, James T......*Disclosed no conflict of interest.*

Ryan, Laura .....*Disclosed no conflict of interest.*

Ryosuke, Kuroda.....*Disclosed no conflict of interest.*

Rzeczycki, Phillip .....*Disclosed no conflict of interest.*

Rzeczycki, Phillip M.....*Disclosed no conflict of interest.*

Saarakkala, Simo.....*Disclosed no conflict of interest.*

Sabino, Isabella G .....*Disclosed no conflict of interest.*

Saccone, Nancy L .....*Disclosed no conflict of interest.*

Sacher, Sara .....*Disclosed no conflict of interest.*

Sachs, Barton .....*Disclosed no conflict of interest.*

Sadeghpour, Ramin.....*Disclosed no conflict of interest.*

Sadygov, Rovshan G.....*Disclosed no conflict of interest.*

Saeed, Kordo.....*Disclosed no conflict of interest.*

Saengsin, Jirawat .....*Disclosed no conflict of interest.*

Safadi, Fayez .....*Disclosed no conflict of interest.*

Safranski, David .....*3A*: MedShape; *4*: MedShape.

Saini, Karanvir.....*Disclosed no conflict of interest.*

Sairyo, Koichi .....*Disclosed no conflict of interest.*

Saito, Seira.....*Disclosed no conflict of interest.*

Saito, Taku .....*Disclosed no conflict of interest.*

Saito, Tsuyoshi.....*Disclosed no conflict of interest.*

Saiz, Augustine M .....*Disclosed no conflict of interest.*

Sajda, Paul .....*Disclosed no conflict of interest.*

Sajja, Balasrinivasa .....*Disclosed no conflict of interest.*

Sakaguchi, Takefumi.....*Disclosed no conflict of interest.*

Sakai, Akinori.....*Disclosed no conflict of interest.*

Sakai, Takashi .....*Disclosed no conflict of interest.*

Sakai, Yoshitada.....*Disclosed no conflict of interest.*

Sakoda, Hideyuki .....*Disclosed no conflict of interest.*

Sakthivel, Tamil .....*Disclosed no conflict of interest.*

Sakthivel, Tamil S.....*Disclosed no conflict of interest.*

Salas, Christina.....*Disclosed no conflict of interest.*

Salazar, Brett Peter.....*Disclosed no conflict of interest.*

Salazar-Puerta, Ana I.....*Disclosed no conflict of interest.*

Saleh, Bahram.....*Disclosed no conflict of interest.*

Saleh, Kamiel .....*Disclosed no conflict of interest.*

Saleh, Kamiel S.....*Disclosed no conflict of interest.*

Salehi, Khosrowdad .....*Disclosed no conflict of interest.*

Saliken, Dave .....*Disclosed no conflict of interest.*

Saliken, David .....*Disclosed no conflict of interest.*

Salisbury, Shelby Y.....*Disclosed no conflict of interest.*

Salka, Nabeel .....*Disclosed no conflict of interest.*

Salmoria, Gean Vitor.....*Disclosed no conflict of interest.*

Saltzman, Charles L.....*7A*: Biomet-Zimmer, Bio2.

Saltzman, Charles L. .....*7A*: Biomet-Zimmer, Bio2.

Saltzman, Matthew D .....*Disclosed no conflict of interest.*

Salzmann, Stephan .....*Disclosed no conflict of interest.*

Salzmann, Stephan N .....*Disclosed no conflict of interest.*

Sama, Andrew .....*Disclosed no conflict of interest.*

Sama, Andrew A .....*Disclosed no conflict of interest.*

Sama, Andrew J .....*Disclosed no conflict of interest.*

Samade, Richard .....*Disclosed no conflict of interest.*

Samantha, Lessard .....*Disclosed no conflict of interest.*

Sambri, Vittorio .....*7A*: This study was funded by Fidia Farmaceutici.

Samelko, Lauryn .....*Disclosed no conflict of interest.*

Sammon, Chris .....*Disclosed no conflict of interest.*

Samuel, Andre .....*Disclosed no conflict of interest.*

Sanada, Youhei .....*Disclosed no conflict of interest.*

Sanborn, Ryan .....*Disclosed no conflict of interest.*

Sanchez, Alex .....*Disclosed no conflict of interest.*

Sander, Edward .....*Disclosed no conflict of interest.*

Sangeorzan, Bruce J .....*8*: JBJS Deputy Editor.

Sangiorgio, Sophia N .....*5*: DePuy Orthopaedics, Orthofix, Microport, Nuvasive, NIH.

Sangiorgio, Sophia N. .....*5*: OrthoFix, Sunnyvale.

Sanjay, Archana .....*Disclosed no conflict of interest.*

Sankar, Uma .....*Disclosed no conflict of interest.*

Sano, Kei .....*Disclosed no conflict of interest.*

Sansaricq, Gabriella .....*Disclosed no conflict of interest.*

Santana, Daniel .....*Disclosed no conflict of interest.*

Santangelo, Kelly .....*Disclosed no conflict of interest.*

Santiago, Cassiano .....*Disclosed no conflict of interest.*

Santos, Walkania .....*Disclosed no conflict of interest.*

Sanyal, Soma .....*Disclosed no conflict of interest.*

Sarkar, Naboneeta .....*Disclosed no conflict of interest.*

Sas, Amelie .....*Disclosed no conflict of interest.*

Sasa, Keita .....*Disclosed no conflict of interest.*

Sasaki, Kan.....*Disclosed no conflict of interest.*

Sasaki, Toru .....*Disclosed no conflict of interest.*

Sassoon, Adam .....*3B*: Biocomposites, Smith and Nephew, Orthalign; *8*: Associate Editor of Journal of Knee Surgery; *9*: Committee Co-chair AAHKS.

Satake, Yoshinori.....*5*: Eli Lilly Japan K.K.

Sato, Dai .....*Disclosed no conflict of interest.*

Sato, Go.....*6*: Department of Orthpedics, Nara Medical University.

Sato, Yoshihiro.....*Disclosed no conflict of interest.*

Satwah, Syona .....*Disclosed no conflict of interest.*

Sautchuk Junior, Rubens.....*Disclosed no conflict of interest.*

Savadipour, Alireza.....*Disclosed no conflict of interest.*

Savage, Paul.....*Disclosed no conflict of interest.*

Savidge, Nicole …… *Disclosed no conflict of interest.*

Sawada, Hirokatsu.....*Disclosed no conflict of interest.*

Sawada, Tomonori.....*Disclosed no conflict of interest.*

Sawai, Seiji.....*Disclosed no conflict of interest.*

Sawauchi, Kenichi.....*Disclosed no conflict of interest.*

Sax, Oliver.....*Disclosed no conflict of interest.*

Sax, Oliver C......*Disclosed no conflict of interest.*

Sayegh, Michael J.....*Disclosed no conflict of interest.*

Sayles, Leanne C. .....*Disclosed no conflict of interest.*

Scanzelllo, Carla R.....*Disclosed no conflict of interest.*

Schachtner, Jaclyn.....*3B*: Exponent, Inc.

Schad, Laura A .....*Disclosed no conflict of interest.*

Schaer, Thomas.....*Disclosed no conflict of interest.*

Schaer, Thomas P.....*3B*: ReGelTec Inc; *4*: ReGelTec Inc; *5*: ReGelTec Inc; *6*: ReGelTec Inc.

Schaer, Tom.....*Disclosed no conflict of interest.*

Schaffler, Mitchell.....*Disclosed no conflict of interest.*

Scharschmidt,, Thomas.....*Disclosed no conflict of interest.*

Scheffer, David.....*Disclosed no conflict of interest.*

Schemitsch, Emil.....*3B*: Stryker, Smith & Nephew, Depuy-Synthes; *6*: Stryker, Smith & Nephew, Depuy-Synthes.

Schepis, Kyle E.....*Disclosed no conflict of interest.*

Scheuring, Richard A.....*2*: Fujifilm/Sonosite.

Scheys, Lennart.....*2*: Smith+Nephew; *5*: Medacta, Johnson&Johnson, Medtronic, Arthrex, Zimmer-Biomet, Spinevision, V!GO, Orthophysics-Promedionics; *6*: Medacta, Johnson&Johnson, Medtronic, Arthrex, Zimmer-Biomet, Spinevision, , V!GO, Orthophysics-Promedionics.

Schifino, Albino.....*Disclosed no conflict of interest.*

Schiller, Peter.....*3A*: Canary Medical; *4*: Canary Medical.

Schilling, Kevin J.....*Disclosed no conflict of interest.*

Schilling, Thomas F.....*Disclosed no conflict of interest.*

Schimoler, Pat.....*Disclosed no conflict of interest.*

Schimoler, Patrick J.....*Disclosed no conflict of interest.*

Schitter, Georg.....*Disclosed no conflict of interest.*

Schmidig, Gregg.....*3A*: Stryker; *4*: Stryker.

Schmidt, Christopher C.....*Disclosed no conflict of interest.*

Schmidt, PhD, Christine E.....*1*: Axogen, Inc., Alachua, FL, Alafair, Inc., Austin, TX; *8*: Acta Biomaterialia, J Biomed Mater Research, J Biomat Science Polymer Edition; *9*: American Institute of Medical and Biological Engineering.

Schmidt, Tannin.....*Disclosed no conflict of interest.*

Schmitt, Gerald.....*3A*: Blue Ortho.

Schmitt, Gertrud.....*Disclosed no conflict of interest.*

Schmitt, Raymond.....*3A*: DePuy Synthes; *4*: Johnson & Johnson.

Schmulewitz, Julia.....*Disclosed no conflict of interest.*

Schnabel, Lauren.....*Disclosed no conflict of interest.*

Schnall, Samantha.....*Disclosed no conflict of interest.*

Schneider, Erika.....*Disclosed no conflict of interest.*

Schneider, Julie.....*Disclosed no conflict of interest.*

Schneider, Prism.....*3B*: Amgen; *5*: Johnson & Johnson; *8*: Canadian Journal of Surgery.

Schneider, Stephanie E.....*Disclosed no conflict of interest.*

Schnur, Lindsay.....*Disclosed no conflict of interest.*

Schoenecker, Jon G.....*3C*: Educational Consultant for OrthoPediatrics; *5*: Research support from Ionis Pharmaceuticles and PXE International.

Schoenecker, Jon G.....*3C*: Educational consultant for OrthoPediatrics; *5*: Research materials provided by IONIS Pharmacuticels.

Schol, Jordy.....*Disclosed no conflict of interest.*

Scholl, Laura.....*3A*: Stryker.

Scholl, Laura.....*3A*: Stryker; *4*: Stryker.

Schott, Hayden .....*Disclosed no conflict of interest.*

Schreck, Michael J.....*Disclosed no conflict of interest.*

Schrock, Harrison.....*Disclosed no conflict of interest.*

Schroeppel, John.....*3B*: Vericel.

Schroeppel, John P.....*Disclosed no conflict of interest.*

Schuler, Stephanie.....*Disclosed no conflict of interest.*

Schuon, MD, John.....*Disclosed no conflict of interest.*

Schütz, Pascal .....*Disclosed no conflict of interest.*

Schwartz, Drew J......*Disclosed no conflict of interest.*

Schwartz, Kendall .....*Disclosed no conflict of interest.*

Schwartz, Rachel H .....*Disclosed no conflict of interest.*

Schwartz, Yonatan.....*Disclosed no conflict of interest.*

Schwartz, Zvi.....*3C*: AB Dental; *4*: SpherIngenics Inc; *5*: Musculoskeletal Transplant Foundation; *6*: Medtronic/TitanSpine, Institut Straumann AG, Musculoskeletal Transplant Foundation.

Schwartz, Zvi.....*3C*: AB Dental; *4*: Spheringenics Inc; *5*: MTF Biologics; *6*: Medtronic/TitanSpine, Institut Straumann AG, MTF Biologics.

Schwartzberg, Harel G .....*Disclosed no conflict of interest.*

Schwartzberg, Harel Glen .....*Disclosed no conflict of interest.*

Schwartz-Fernandes, Francisco.*Disclosed no conflict of interest.*

Schwarz, Edward.....*Disclosed no conflict of interest.*

Schwarz, Edward M .....*Disclosed no conflict of interest.*

Schwarz, Edward M. .....*4*: Telephus Co.; *5*: Telephus Co., Amedica Co.; *8*: Arthritis Research and Therapy; *9*: Orthopaedic Research Society.

Schwarzenberg, Peter.....*Disclosed no conflict of interest.*

Schwechter, Evan.....*Disclosed no conflict of interest.*

Schweitzer, Ronen .....*Disclosed no conflict of interest.*

Schwer, Jonas .....*Disclosed no conflict of interest.*

Scinto, Michael .....*Disclosed no conflict of interest.*

Scott, Adrienne K.....*Disclosed no conflict of interest.*

Scott, Devon .....*Disclosed no conflict of interest.*

Scrivens, Brian .....*Disclosed no conflict of interest.*

Sculco, Peter.....*2*: Depuy J%J, EOS Imaging, Intellijoint Surgical; *3B*: Depuy J&J,, EOS Imaging,, Lima Corporate, Intellijoint Surgical,; *5*: Intellijoint Surgical.

Sculco, Peter.....*2*: DePuy, A Johnson & Johnson Company, EOS Imaging, Intellijoint Surgical; *3B*: DePuy, A Johnson & Johnson Company, EOS Imaging, Lima Corporate, Intellijoint Surgical; *5*: Intellijoint Surgical.

Sculco, Peter K.....*Disclosed no conflict of interest.*

Sculco, Thomas.....*Disclosed no conflict of interest.*

Sculco, Thomas P .....*Disclosed no conflict of interest.*

Seabaugh, Kathryn A. .....*Disclosed no conflict of interest.*

Seabol, Liliana.....*Disclosed no conflict of interest.*

Seah, Matthew .....*Disclosed no conflict of interest.*

Seal, Sudipta.....*Disclosed no conflict of interest.*

Sebastian, Aimy .....*Disclosed no conflict of interest.*

Sebastian, Sujeesh.....*Disclosed no conflict of interest.*

Sedivy, John M......*Disclosed no conflict of interest.*

Seeman, Ego .....*Disclosed no conflict of interest.*

Seesala, Venkata Sundeep.....*Disclosed no conflict of interest.*

Seewald, Lindsay A .....*Disclosed no conflict of interest.*

Segal, Joshua.....*Disclosed no conflict of interest.*

Segal, Neil A.....*5*: Flexion Therapeutics, Pacira CryoHealth.

Seguin, Cheryle A.....*Disclosed no conflict of interest.*

Séguin, Cheryle A.....*Disclosed no conflict of interest.*

Sehgal, Varun.....*Disclosed no conflict of interest.*

Seidel, Henry.....*Disclosed no conflict of interest.*

Seiden, Emily E.....*Disclosed no conflict of interest.*

Seiter, Max .....*Disclosed no conflict of interest.*

Seitz, Amee L .....*8*: Editorial Board Member, Journal of Orthopaedic and Sports Physical Therapy, Editorial Board Member, Journal of Sport Rehabilitation; *9*: Executive Board Member, American Society of Shoulder & Elbow Therapists, Vice Chair, Academy of Orthopaedic Physical Therapy Research Committee.

Seitz, Andreas M.....*5*: Active Implants LLC, 6060 Primacy Parkway, Suite 460, Memphis, TN, USA.

Seitz, Andreas Martin .....*Disclosed no conflict of interest.*

Sekeitto, Allan R .....*9*: SAMA.

Seki, Taisuke .....*Disclosed no conflict of interest.*

Sekimura, Troy.....*Disclosed no conflict of interest.*

Sekiya, Ichiro .....*5*: Fujifilm.

Selberg, Kurt .....*Disclosed no conflict of interest.*

Selles, Marcus.....*Disclosed no conflict of interest.*

Seman, Sarah.....*Disclosed no conflict of interest.*

Sembrano, Jonathan N.....*Disclosed no conflict of interest.*

Sembrano, Jonathan N......*5*: Orthofix, AO Spine, NuVasive.

Semler, Eric.....*3A*: mtf biologics; *6*: ConMed.

Senga, Yoshiyuki.....*Disclosed no conflict of interest.*

Sengun, Mehmet Z.....*3A*: DePuy Mitek Synthes.

Senwar, Bhavya .....*Disclosed no conflict of interest.*

Seo, Bo Ri.....*Disclosed no conflict of interest.*

Seo, Timothy.....*3A*: All authors are employees and shareholders of Samumed, LLC; *4*: All authors are employees and shareholders of Samumed, LLC.

Seol, Dongrim .....*Disclosed no conflict of interest.*

Seref-Ferlengez, Zeynep.....*Disclosed no conflict of interest.*

Serotte, Jordan .....*Disclosed no conflict of interest.*

Serpelloni, Stefano .....*Disclosed no conflict of interest.*

Serra, Rosa.....*Disclosed no conflict of interest.*

Serrat, Maria A .....*Disclosed no conflict of interest.*

Sessions, Garrett A.....*Disclosed no conflict of interest.*

Seta, Joe.....*Disclosed no conflict of interest.*

Setton, Lori A .....*Disclosed no conflict of interest.*

Setton, Lori A. .....*Disclosed no conflict of interest.*

Severson, Megan .....*Disclosed no conflict of interest.*

Seybold, Jeffrey .....*3B*: MedShape.

Sforzin, David.....*Disclosed no conflict of interest.*

Sgroi, Mirco .....*Disclosed no conflict of interest.*

Shaffer, Sarah K .....*Disclosed no conflict of interest.*

Shafikhani, Sasha H.....*Disclosed no conflict of interest.*

Shah, Anoli.....*Disclosed no conflict of interest.*

Shah, Jay K. .....*Disclosed no conflict of interest.*

Shah, Kalpit N .....*Disclosed no conflict of interest.*

Shah, Kush C .....*Disclosed no conflict of interest.*

Shah, Neel.....*Disclosed no conflict of interest.*

Shah, Nehal.....*Disclosed no conflict of interest.*

Shah, Rakshit .....*Disclosed no conflict of interest.*

Shah, Ramille .....*3A*: Dimension Inx LLC; *4*: Dimension Inx LLC.

Shah, Roshan .....*3B*: Link Orthopaedics; *9*: US Food and Drug Administration.

Shah, Roshan P .....*Disclosed no conflict of interest.*

Shah, Roshan P. .....*Disclosed no conflict of interest.*

Shah, Sanket C. .....*Disclosed no conflict of interest.*

Shah, Shalin .....*Disclosed no conflict of interest.*

Shakoor, Najia .....*1*: Dr. Comfort.

Shalash, Ward.....*Disclosed no conflict of interest.*

Shan, Xinhe.....*Disclosed no conflict of interest.*

Shane, Elizabeth .....*Disclosed no conflict of interest.*

Shang, Xingru.....*Disclosed no conflict of interest.*

Shao, Zengwu .....*Disclosed no conflict of interest.*

Shapira, Nadav.....*Disclosed no conflict of interest.*

Shapiro, Lauren M .....*Disclosed no conflict of interest.*

Sharif Ahmadian, Azita .....*Disclosed no conflict of interest.*

Sharma, Akhil.....*Disclosed no conflict of interest.*

Sharma, Anuj .....*Disclosed no conflict of interest.*

Sharma, Ashish .....*Disclosed no conflict of interest.*

Sharma, Deepika.....*Disclosed no conflict of interest.*

Sharma, Garima .....*Disclosed no conflict of interest.*

Sharma, Rajan.....*Disclosed no conflict of interest.*

Sharpe, Kipling.....*2*: Conformis, Baudax; *3B*: Conformis, Baudax; *5*: Stryker, RomTech.

Shaw, Jeremy.....*Disclosed no conflict of interest.*

Shaw, Jeremy D .....*Disclosed no conflict of interest.*

Shaw, Jeremy D. .....*Disclosed no conflict of interest.*

Shaw, K. Aaron .....*Disclosed no conflict of interest.*

Shay-Winkler, Kritton .....*Disclosed no conflict of interest.*

Shea, Jill.....*Disclosed no conflict of interest.*

Sheehy, Eamon J .....*Disclosed no conflict of interest.*

Shelburne, Kevin B.....*5*: Stryker Orthopaedics.

Shelburne, Kevin B.....*5*: DePuy Synthes.

Shelburne, Kevin B.....*5*: Kevin B. Shelburne.

Shelby, Hannah.....*Disclosed no conflict of interest.*

Shelby, Tara .....*Disclosed no conflict of interest.*

Shelley, Robert .....*Disclosed no conflict of interest.*

Shelton, MD, MS, Trevor J .....*Disclosed no conflict of interest.*

Shemesh, Maoz.....*3A*: Active Implants LLC, 6060 Primacy Parkway, Suite 460, Memphis, TN, USA.

Shen, Hua.....*Disclosed no conflict of interest.*

Shen, Huaishuang .....*Disclosed no conflict of interest.*

Shen, Jie.....*Disclosed no conflict of interest.*

Shen, Karen.....*Disclosed no conflict of interest.*

Shen, Leyao.....*Disclosed no conflict of interest.*

Shepherd, Molly C.....*Disclosed no conflict of interest.*

Sheridan, Ariana .....*Disclosed no conflict of interest.*

Sherman, Matthew.....*Disclosed no conflict of interest.*

Sherrier, Matthew .....*Disclosed no conflict of interest.*

Sherwood, Daniel J .....*Disclosed no conflict of interest.*

Sheth, Rishi.....*Disclosed no conflict of interest.*

Shetye, Snehal .....*Disclosed no conflict of interest.*

Shetye, Snehal Sharadkumar ....*Disclosed no conflict of interest.*

Shewman, Elizabeth.....*Disclosed no conflict of interest.*

Sheyn, Dmitriy .....*Disclosed no conflict of interest.*

Shi, Guidong.....*Disclosed no conflict of interest.*

Shi, Lewis L.....*3B*: Depuy Synthes.

Shi, Lewis L......*3B*: Depuy Synthes.

Shi, Tong .....*Disclosed no conflict of interest.*

Shi, Wen .....*Disclosed no conflict of interest.*

Shi, Xingming .....*Disclosed no conflict of interest.*

Shi, Yifei.....*3A*: YS is employed by Amgen Inc.; *4*: YS holds stocks with Amgen Inc.

Shi, Yuechen .....*Disclosed no conflict of interest.*

Shibata, Yasuraku .....*Disclosed no conflict of interest.*

Shibayama, Hiroki.....*Disclosed no conflict of interest.*

Shieh, Alvin K.....*Disclosed no conflict of interest.*

Shiels, Stefanie M .....*Disclosed no conflict of interest.*

Shim, Moon-Jung.....*Disclosed no conflict of interest.*

Shimabukuro, Masashi .....*Disclosed no conflict of interest.*

Shimizu, Tomohiro.....*Disclosed no conflict of interest.*

Shimoe, Takashi.....*Disclosed no conflict of interest.*

Shimomura, Seiji.....*Disclosed no conflict of interest.*

Shin, David.....*Disclosed no conflict of interest.*

Shinohara, Issei.....*Disclosed no conflict of interest.*

Shiota, Junki.....*Disclosed no conflict of interest.*

Shiotari, Masahiro .....*Disclosed no conflict of interest.*

Shiraishi, Hideki .....*Disclosed no conflict of interest.*

Shirasaka, Ritsuro .....*Disclosed no conflict of interest.*

Shivaram, Anish .....*3A*: MicroPort Orthopedics.

Shiwaku, Kosuke.....*Disclosed no conflict of interest.*

Shohat, Noam.....*Disclosed no conflict of interest.*

Short, Walter H.....*Disclosed no conflict of interest.*

Shrestha, Rista.....*Disclosed no conflict of interest.*

Shtil, Mariya .....*Disclosed no conflict of interest.*

Shu, Cindy.....*Disclosed no conflict of interest.*

Shu, Cindy Chia-Fan .....*Disclosed no conflict of interest.*

Shu, Fei .....*Disclosed no conflict of interest.*

Shue, Jennifer .....*Disclosed no conflict of interest.*

Sibonga, Jean D.....*Disclosed no conflict of interest.*

Siddicky, Safeer.....*Disclosed no conflict of interest.*

Siddiqui, Bilal.....*Disclosed no conflict of interest.*

Siddiqui, Naveed.....*Disclosed no conflict of interest.*

Siegel, Geoffrey W. .....*Disclosed no conflict of interest.*

Siegler, Sorin.....*Disclosed no conflict of interest.*

Siggelkow, Eik .....*3A*: Zimmer GMBH; *4*: Zimmer Biomet.

Silva, Loise S.....*Disclosed no conflict of interest.*

Silva, Matthew.....*5*: Merck Co.; *7B*: Springer; *8*: CTI, JOR, Bone; *9*: ORS.

Silva, Matthew.....*7B*: Yes; *8*: Yes; *9*: Yes.

Silva, Matthew.....*9*: Treasurer, Orthopaedic Research Society.

Silva, Matthew J.....*7B*: Springer; *8*: CTI, JOR, Bone; *9*: ORS.

Silva, Matthew J.....*7B*: Springer; *8*: CTI, JOR, Bone; *9*: ORS Board.

Silverman, Anne K......*Disclosed no conflict of interest.*

Silverman, Lara I .....*3A*: DiscGenics; *4*: DiscGenics.

Simileysky, Alexander.....*Disclosed no conflict of interest.*

Simkin, Jennifer .....*Disclosed no conflict of interest.*

Simkin, PhD, Jennifer.....*Disclosed no conflict of interest.*

Simon, Jacqueline C .....*Disclosed no conflict of interest.*

Simonetti, Deborah.....*Disclosed no conflict of interest.*

Simovitch, Ryan .....*3B*: Exactech, Inc; *7A*: Exactech, Inc.

Simpson, Hamish RW.....*5*: Research support funding from Stryker; *8*: Editor-in-Chief Bone and Joint Research.

Sims, Margaret .....*Disclosed no conflict of interest.*

Sims, Margaret M .....*Disclosed no conflict of interest.*

Sims, Matthew.....*5*: Cidara Therapeutics Inc, Curetis GmbH, Diasorin Molecular, Epigenomics Inc, Finch Therapeutics, Genentech Inc, Iterum Therapeutics International, Janssen Research and Development, Kinevant Sciences, Leonard-Meron Biosciences, Merck, NeuMoDx Molecular, Pfizer, Prenosis, Regeneron Pharmaceuticals, , Seres Therapeutics Inc, Shire, Summit Therapeutics.

Sinder, Benjamin.....*Disclosed no conflict of interest.*

Singer, Adam D .....*Disclosed no conflict of interest.*

Singh, Ankur .....*Disclosed no conflict of interest.*

Singh, Purva.....*Disclosed no conflict of interest.*

Singh, Sagar .....*Disclosed no conflict of interest.*

Sink, Ernest L.....*9*: AAOS.

Sirkin, Michael .....*Disclosed no conflict of interest.*

Sivapiromrat, Ally .....*Disclosed no conflict of interest.*

Sivarasu, Sudesh .....*Disclosed no conflict of interest.*

Siyaji, Zakariah.....*Disclosed no conflict of interest.*

Skedros, Angelina J .....*Disclosed no conflict of interest.*

Skedros, Angelina J. .....*Disclosed no conflict of interest.*

Skedros, John G .....*Disclosed no conflict of interest.*

Skinner, Harry B.....*1*: Bone-Rad Therapeutics, Inc.; *4*: Bone-Rad Therapeutics, Inc.; *7A*: Kinamed.

Skouteris, Dimitrios .....*Disclosed no conflict of interest.*

Slatter, Shadera .....*Disclosed no conflict of interest.*

Small, Kirstin M.....*Disclosed no conflict of interest.*

Smit, Theo.....*Disclosed no conflict of interest.*

Smith, Bryan .....*Disclosed no conflict of interest.*

Smith, Carin Y .....*Disclosed no conflict of interest.*

Smith, Clair .....*Disclosed no conflict of interest.*

Smith, Clair N .....*Disclosed no conflict of interest.*

Smith, Clark .....*Disclosed no conflict of interest.*

Smith, Colin R .....*Disclosed no conflict of interest.*

Smith, Eric L .....*Disclosed no conflict of interest.*

Smith, Hannah J .....*Disclosed no conflict of interest.*

Smith, Harvey .....*Disclosed no conflict of interest.*

Smith, Harvey E.....*Disclosed no conflict of interest.*

Smith, Lachlan J .....*9*: ORS Spine Section.

Smith, Lachlan J .....*9*: ORS-Spine Section.

Smith, Lucas R.....*Disclosed no conflict of interest.*

Smith, Matthew.....*Disclosed no conflict of interest.*

Smith, Michelle L .....*Disclosed no conflict of interest.*

Smith, Patrick A .....*2*: Arthrex; *3B*: Arthrex; *4*: Spinal Simplicity; *5*: Arthrex, Inc; *8*: Journal of Knee Surgery.

Smith, Quinn K.....*Disclosed no conflict of interest.*

Smith, Richard A .....*Disclosed no conflict of interest.*

Smith, Scott M .....*Disclosed no conflict of interest.*

Smith, Susan M.....*Disclosed no conflict of interest.*

Smith, Trevor .....*Disclosed no conflict of interest.*

Smith, Weston E .....*Disclosed no conflict of interest.*

Smolinski, A K .....*Disclosed no conflict of interest.*

Smolinski, Kathryn L .....*Disclosed no conflict of interest.*

Smolinski, Michael.....*Disclosed no conflict of interest.*

Smolinski, Michael P .....*Disclosed no conflict of interest.*

Smolinski, Patrick.....*Disclosed no conflict of interest.*

Sneag, Darryl .....*Disclosed no conflict of interest.*

Snedeker, Jess G .....*Disclosed no conflict of interest.*

Snedeker, Jess G. .....*Disclosed no conflict of interest.*

Snedeker, Jess Gerrit .....*Disclosed no conflict of interest.*

Snethen, Kyle.....*3A*: Zimmer Biomet.

Snethen, Kyle.....*3A*: Zimmer Biomet; *4*: Zimmer Biomet.

Snow, Tanner.....*Disclosed no conflict of interest.*

Snuggs, Joseph.....*Disclosed no conflict of interest.*

Snyder, Brian .....*Disclosed no conflict of interest.*

Snyder, Brian D.....*Disclosed no conflict of interest.*

Snyder, Brian D......*Disclosed no conflict of interest.*

Snyder, Brian G......*Disclosed no conflict of interest.*

Snyder, Leah C. .....*Disclosed no conflict of interest.*

Snyder, Matthew J.....*Disclosed no conflict of interest.*

Snyder-Mackler, Lynn .....*Disclosed no conflict of interest.*

Søballe, Kjeld .....*Disclosed no conflict of interest.*

Sobol, Manuel.....*Disclosed no conflict of interest.*

Soffin, Ellen M.....*Disclosed no conflict of interest.*

Soheil, Ashkani Esfahani .....*Disclosed no conflict of interest.*

Soin, Sandeep P. .....*Disclosed no conflict of interest.*

Sokhi, Upneet .....*Disclosed no conflict of interest.*

Sokhi, Upneet K .....*Disclosed no conflict of interest.*

Solinger, McKenzie .....*Disclosed no conflict of interest.*

Solitro, Giovanni F .....*Disclosed no conflict of interest.*

Solitto, Vincent.....*Disclosed no conflict of interest.*

Solon, Lorenzo .....*Disclosed no conflict of interest.*

Solsrud, Emily S.....*Disclosed no conflict of interest.*

Soltanihafshejani, Navid .....*Disclosed no conflict of interest.*

Somarelli, Jason A.....*Disclosed no conflict of interest.*

Son, Dong Min .....*Disclosed no conflict of interest.*

Son, Dongmin .....*Disclosed no conflict of interest.*

Sonekatsu, Mayumi .....*Disclosed no conflict of interest.*

Song, Cassaundra A......*Disclosed no conflict of interest.*

Song, Ino.....*Disclosed no conflict of interest.*

Song, Jae Hwang.....*Disclosed no conflict of interest.*

Song, Joanne.....*Disclosed no conflict of interest.*

Song, Ke.....*Disclosed no conflict of interest.*

Song, Lee.....*Disclosed no conflict of interest.*

Song, Si Young .....*Disclosed no conflict of interest.*

Sono, Takashi.....*Disclosed no conflict of interest.*

Soo, Andrea .....*Disclosed no conflict of interest.*

Soo, Chia.....*3A*: Kang Ting, Chia Soo, and Zhong Zheng are inventors on fibromodulin-related patents assigned to UCLA. Kang Ting, Chia Soo, and Zhong Zheng are founders of Scarless Laboratories Inc., which sublicenses.

Soranno, Danielle E.....*Disclosed no conflict of interest.*

Sornsakrin, Pongpanot.....*Disclosed no conflict of interest.*

Sosa, Branden.....*Disclosed no conflict of interest.*

Sosa, Branden R.....*Disclosed no conflict of interest.*

Soslowsky, Louis .....*Disclosed no conflict of interest.*

Soslowsky, Louis J .....*5*: Marine Polymer Technologies, Inc.

Sotome, Yoshito.....*Disclosed no conflict of interest.*

Souza, Jason.....*Disclosed no conflict of interest.*

Souza, Richard B .....*Disclosed no conflict of interest.*

Sowa, Gwendolyn.....*Disclosed no conflict of interest.*

Spagnoli, Anna.....*Disclosed no conflict of interest.*

Spahr, Hilary .....*3A*: Exactech Inc.

Spang, Jeffrey T.....*Disclosed no conflict of interest.*

Spangenberg, Gregory .....*Disclosed no conflict of interest.*

Spece, Hannah.....*Disclosed no conflict of interest.*

Speer, Julie E......*Disclosed no conflict of interest.*

Speicher-Mentges, Susanne.....*Disclosed no conflict of interest.*

Spenciner, David.....*3A*: DePuy Synthes Mitek.

Spicer, Chris .....*Disclosed no conflict of interest.*

Spiker, Andrea M.....*3B*: Stryker.

Spiller, Kassandra V .....*Disclosed no conflict of interest.*

Spindler, Kurt.....*Disclosed no conflict of interest.*

Spindler, Kurt P.....*3B*: Flexion Therapeutics, Novopeds, NFL.

Spivey, Kathryn P.....*Disclosed no conflict of interest.*

Spratley, E. Meade.....*8*: Associate Editor, Foot and Ankle Orthopaedics.

Spray, David.....*Disclosed no conflict of interest.*

Sprecher, Christoph .....*Disclosed no conflict of interest.*

Springer, Luke E. .....*Disclosed no conflict of interest.*

Spritzer, Charles.....*Disclosed no conflict of interest.*

Spritzer, Charles E.....*Disclosed no conflict of interest.*

Sreedhar, Ashwin.....*Disclosed no conflict of interest.*

Sripanich, Yantarat .....*Disclosed no conflict of interest.*

Stacy, Alexander J.....*Disclosed no conflict of interest.*

Stafford, Allison.....*Disclosed no conflict of interest.*

Stahl, Alex M.....*Disclosed no conflict of interest.*

Stains, Joseph P .....*Disclosed no conflict of interest.*

Stake, Ingrid K.....*Disclosed no conflict of interest.*

Stallard, Michael.....*Disclosed no conflict of interest.*

Stange, Richard.....*Disclosed no conflict of interest.*

Stannard, James P.....*3B*: Arthrex, DePuy, A Johnson & Johnson Company, Smith & Nephew, Orthopaedic Designs North America; *5*: Arthrex, Inc, Coulter Foundation, National Institutes of Health, U.S. Department of Defense; *7B*: Thieme; *8*: Journal of Knee Surgery; *9*: American Orthopaedic Association, AO Foundation, AO North America, Mid-America Orthopaedic Association.

Stanton, Robert .....*4*: Biorez.

Stapledon, Catherine J .....*Disclosed no conflict of interest.*

Stark, Nicole.....*Disclosed no conflict of interest.*

Starlinger, Julia .....*Disclosed no conflict of interest.*

Starring, Hunter.....*Disclosed no conflict of interest.*

Stauber, Tino .....*Disclosed no conflict of interest.*

Stefanovic, Tina .....*Disclosed no conflict of interest.*

Steineman, Brett.....*Disclosed no conflict of interest.*

Steineman, Brett D. .....*Disclosed no conflict of interest.*

Steinmann, Scott .....*Disclosed no conflict of interest.*

Stepanowich, Matthew .....*Disclosed no conflict of interest.*

Stephan, Christopher John.....*Disclosed no conflict of interest.*

Stephan, Stephen .....*Disclosed no conflict of interest.*

Stephenson, Stacy.....*Disclosed no conflict of interest.*

Steppe, Lena .....*Disclosed no conflict of interest.*

Stevanovic, Milan V .....*Disclosed no conflict of interest.*

Steward, Nancy.....*Disclosed no conflict of interest.*

Stewart, David .....*3A*: Theradaptive, Inc.; *4*: Theradaptive, Inc.

Stewart, Elizabeth A......*6*: Bayer.

Stewart, Matthew.....*8*: Journal of Orthopaedic Research Editorial Board, Veterinary Comparative Orthopedics and Traumatology Asociate Editor, European Cells and Materials Editorial Board.

Stiles, Linsey .....*Disclosed no conflict of interest.*

Stilling, Maiken .....*Disclosed no conflict of interest.*

Stinson, Zachary.....*Disclosed no conflict of interest.*

Stock, Stuart .....*Disclosed no conflict of interest.*

Stöckl, Sabine .....*Disclosed no conflict of interest.*

Stoeckl, Brendan D .....*Disclosed no conflict of interest.*

Stoker, Aaron.....*1*: Arthrex, Musculoskeletal Transplant Foundation.

Stoker, Aaron L .....*1*: Arthrex, Musculoskeletal Transplant Foundation.

Stoker, Aaron M.....*1*: Arthrex, Musculoskeletal Transplant Foundation.

Stoker, Aaron M......*Disclosed no conflict of interest.*

Stolle, Jordan .....*Disclosed no conflict of interest.*

Stone, Austin V .....*3C*: Allosource Inc, Smith & Nephew; *5*: Flexion Therapeautic, Smith & Nephew; *9*: American Orthopaedic Society for Sports Medicine, Arthroscopy Association of North America.

Stone, Kevin.....*Disclosed no conflict of interest.*

Stone, Laura.....*Disclosed no conflict of interest.*

Stone, Laura S .....*Disclosed no conflict of interest.*

Stoneback, Jason .....*Disclosed no conflict of interest.*

Stoner, Shihani P.....*Disclosed no conflict of interest.*

Stoodley, Paul.....*3B*: Biocomposites Ltd; *5*: Biocomposited Ltd, Proctor and Gamble; *6*: Biocomposites Ltd, Zimmer-Biomet.

Storaci, Hunter.....*Disclosed no conflict of interest.*

Stover, Joshua D .....*Disclosed no conflict of interest.*

Stover, Susan M.....*Disclosed no conflict of interest.*

Straatman, Lauren .....*Disclosed no conflict of interest.*

Straßburger, Luisa.....*Disclosed no conflict of interest.*

Strelzow, Jason .....*Disclosed no conflict of interest.*

Strickland, Sabrina.....*2*: Organogenesis, Smith&Nephew, Vericel; *4*: Engage; *5*: JRF, Vericel; *7A*: Organogenesis; *8*: American Journal of Sports Medicine; *9*: Arthroscopy Association of North America.

Strobel, Marisa A .....*Disclosed no conflict of interest.*

Struve, Janine .....*Disclosed no conflict of interest.*

Stubbs, Caleb .....*Disclosed no conflict of interest.*

Studders, Carson.....*Disclosed no conflict of interest.*

Stumb, Mary D......*Disclosed no conflict of interest.*

Stupp, Samuel.....*Disclosed no conflict of interest.*

Sturnick, Daniel.....*Disclosed no conflict of interest.*

Sturnick, Daniel R.....*Disclosed no conflict of interest.*

Su, Marisa.....*Disclosed no conflict of interest.*

Su, Ni .....*Disclosed no conflict of interest.*

Suadicani, Sylvia O.....*Disclosed no conflict of interest.*

Subramanian, Arul.....*Disclosed no conflict of interest.*

Sudershan, Sushil.....*Disclosed no conflict of interest.*

Sudo, Akihiro .....*Disclosed no conflict of interest.*

Sudo, Hideki.....*6*: Japan Agency for Medical Research and Development; *7A*: Mochida Pharmaceutical Co., Ltd.

Suehara, Yoshiyuki.....*Disclosed no conflict of interest.*

Sugano, Nobuhiko.....*Disclosed no conflict of interest.*

Sugawara, Yutaro.....*Disclosed no conflict of interest.*

Sugimoto, Tomohiro .....*3A*: Teijin Nakashima Medical Co., Ltd.

Suguro, Toru .....*Disclosed no conflict of interest.*

Suh, Nina .....*Disclosed no conflict of interest.*

Suhardi, Vincentius J.....*Disclosed no conflict of interest.*

Sukopp, Matthias.....*Disclosed no conflict of interest.*

Sulkar, Hema.....*Disclosed no conflict of interest.*

Sullentrup, Anna N.....*Disclosed no conflict of interest.*

Sulovari, Aron .....*Disclosed no conflict of interest.*

Sumner, D R .....*Disclosed no conflict of interest.*

Sun, Changqi.....*Disclosed no conflict of interest.*

Sun, Guodong .....*Disclosed no conflict of interest.*

Sun, Hui .....*Disclosed no conflict of interest.*

Sun, Kai.....*Disclosed no conflict of interest.*

Sun, Mei.....*Disclosed no conflict of interest.*

Sun, Shuchun .....*Disclosed no conflict of interest.*

Sun, Xuying.....*Disclosed no conflict of interest.*

Sun, Yi.....*Disclosed no conflict of interest.*

Sun, Yuanyuan .....*Disclosed no conflict of interest.*

Sung, Sun-sang J.....*Disclosed no conflict of interest.*

Sunshine, Kerrin.....*Disclosed no conflict of interest.*

Suomalainen, Juha-Sampo.....*Disclosed no conflict of interest.*

Suri, Abhinav .....*Disclosed no conflict of interest.*

Suri, Harleen .....*Disclosed no conflict of interest.*

Suryadevara, Vidyani.....*Disclosed no conflict of interest.*

Susa, Michiro .....*Disclosed no conflict of interest.*

Susice, Kevin .....*Disclosed no conflict of interest.*

Suva, Larry J .....*Disclosed no conflict of interest.*

Suzuki, Kenji.....*Disclosed no conflict of interest.*

Suzuki, Nobuyuki .....*Disclosed no conflict of interest.*

Suzuki, Shoji.....*Disclosed no conflict of interest.*

Suzuki, Sho'ji.....*Disclosed no conflict of interest.*

Suzuki, Teppei.....*Disclosed no conflict of interest.*

Suzuki, Yohei.....*Disclosed no conflict of interest.*

Suzuki, Yuki.....*Disclosed no conflict of interest.*

Suzuki-Narita, Miyako.....*Disclosed no conflict of interest.*

Sveinsson, Bragi.....*Disclosed no conflict of interest.*

Swallow, Elizabeth A......*Disclosed no conflict of interest.*

Swami, Pooja .....*Disclosed no conflict of interest.*

Swanson, David R .....*Disclosed no conflict of interest.*

Sweeney, Brendan.....*Disclosed no conflict of interest.*

Sweeney, James D. .....*Disclosed no conflict of interest.*

Sweeney-Ambros, Ashley R .....*Disclosed no conflict of interest.*

Sweet-Cordero, Alejandro .....*Disclosed no conflict of interest.*

Swiderek, Lee.....*Disclosed no conflict of interest.*

Swiggert, Samuel J .....*Disclosed no conflict of interest.*

Swiggett, Samuel .....*Disclosed no conflict of interest.*

Swiggett, Samuel J .....*Disclosed no conflict of interest.*

Swiostek, Irmina .....*Disclosed no conflict of interest.*

Swope, Stephen.....*3A*: DePuy Synthes.

Swope, Steve .....*3A*: DePuy Synthes.

Syed, Aushja .....*Disclosed no conflict of interest.*

Synowicz, Molly .....*Disclosed no conflict of interest.*

Szakiel, Erik.....*Disclosed no conflict of interest.*

Szapary, Hannah Jacqueline.....*Disclosed no conflict of interest.*

Szeto, Hazel H .....*Disclosed no conflict of interest.*

Szivek, John A .....*Disclosed no conflict of interest.*

Tachi, Hiroyuki.....*Disclosed no conflict of interest.*

Tada, Mitsunori .....*Disclosed no conflict of interest.*

Tagil, Magnus.....*Disclosed no conflict of interest.*

Tägil, Magnus.....*Disclosed no conflict of interest.*

Taguchi, Eiko.....*6*: Eribulin mesylate was provided by Eisai Co., Ltd.

Taguchi, Masashi .....*Disclosed no conflict of interest.*

Taguchi, Takashi .....*Disclosed no conflict of interest.*

Tahil, Abdul.....*Disclosed no conflict of interest.*

Tai, Bruce L. .....*Disclosed no conflict of interest.*

Tait Wojno, Elia D .....*Disclosed no conflict of interest.*

Takada, Toru.....*Disclosed no conflict of interest.*

Takagawa, Shu.....*Disclosed no conflict of interest.*

Takagi, Michiaki.....*Disclosed no conflict of interest.*

Takagi, Tatsuya .....*Disclosed no conflict of interest.*

Takagi, Tomoka.....*Disclosed no conflict of interest.*

Takagi, Took.....*Disclosed no conflict of interest.*

Takahashi, Daisuke .....*Disclosed no conflict of interest.*

Takahashi, Haruna .....*Disclosed no conflict of interest.*

Takahashi, Hiroshi .....*Disclosed no conflict of interest.*

Takahashi, Hiroyuki .....*3A*: Teijin Nakashima Medical Co.,Ltd.

Takahashi, Hiroyuki .....*3A*: Teijin Nakashima Medical Co., Ltd.

Takahashi, Katsunori .....*Disclosed no conflict of interest.*

Takahashi, Kenji.....*Disclosed no conflict of interest.*

Takahashi, Nobunori.....*Disclosed no conflict of interest.*

Takahashi, Takashi.....*Disclosed no conflict of interest.*

Takahata, Kei .....*Disclosed no conflict of interest.*

Takahata, Masahiko.....*Disclosed no conflict of interest.*

Takai, Shinro .....*Disclosed no conflict of interest.*

Takakubo, Yuya .....*Disclosed no conflict of interest.*

Takao, Masaki.....*Disclosed no conflict of interest.*

Takase, Kyohei.....*Disclosed no conflict of interest.*

Takashima, Hiroyuki .....*Disclosed no conflict of interest.*

Takashima, Yoshinori.....*Disclosed no conflict of interest.*

Takawira, Catherine.....*Disclosed no conflict of interest.*

Takebayashi, Tomomi.....*Disclosed no conflict of interest.*

Takebayashi, Tsuneo.....*Disclosed no conflict of interest.*

Takegami, Norihiko.....*Disclosed no conflict of interest.*

Takemori, Toshiyuki.....*Disclosed no conflict of interest.*

Takeoka, Toru .....*Disclosed no conflict of interest.*

Takeoka, Yoshiki .....*Disclosed no conflict of interest.*

Takeshita, Katsushi .....*Disclosed no conflict of interest.*

Takeuchi, Satoshi.....*Disclosed no conflict of interest.*

Takeyama, Masanobu.....*Disclosed no conflict of interest.*

Talentino, Spencer.....*Disclosed no conflict of interest.*

Talukder, M A Hassan .....*Disclosed no conflict of interest.*

Tam, Kaysie.....*Disclosed no conflict of interest.*

Tam, Wai Kit .....*Disclosed no conflict of interest.*

Tamayo, Krystal .....*Disclosed no conflict of interest.*

Tamerler, Candan C. .....*Disclosed no conflict of interest.*

Tan, Ek .....*Disclosed no conflict of interest.*

Tan, Ek T .....*Disclosed no conflict of interest.*

Tan, Jian.....*Disclosed no conflict of interest.*

Tan, Timothy.....*Disclosed no conflict of interest.*

Tan, Timothy L .....*Disclosed no conflict of interest.*

Tanaka, Hidenao .....*Disclosed no conflict of interest.*

Tanaka, Sakae .....*Disclosed no conflict of interest.*

Tanaka, Yasuhito .....*Disclosed no conflict of interest.*

Tandeski, Terry .....*3A*: DiscGenics; *4*: DiscGenics.

Tang, Cammy .....*Disclosed no conflict of interest.*

Tang, Guo.....*Disclosed no conflict of interest.*

Tang, Man-Fung.....*Disclosed no conflict of interest.*

Tang, Ruhang .....*Disclosed no conflict of interest.*

Tang, Shirley (Nina).....*Disclosed no conflict of interest.*

Tang, Simon Y .....*3C*: Active Life Scientific.

Tang, Sisi.....*Disclosed no conflict of interest.*

Tanghe, Kira K. .....*Disclosed no conflict of interest.*

Tani, Tetsuro.....*Disclosed no conflict of interest.*

Taniguchi, Akira .....*Disclosed no conflict of interest.*

Tanino, Hiromasa.....*5*: AsahiKasei, OrthAlign.

Tanner, Bryan D. .....*Disclosed no conflict of interest.*

Tanska, Petri .....*Disclosed no conflict of interest.*

Tantone, Ryan.....*Disclosed no conflict of interest.*

Tao, Matthew .....*Disclosed no conflict of interest.*

Taraballi, Francesca .....*Disclosed no conflict of interest.*

Tarafder, Solaiman .....*Disclosed no conflict of interest.*

Tarakemeh, Armin .....*Disclosed no conflict of interest.*

Tarasova, Anna .....*Disclosed no conflict of interest.*

Targosinski, Jakub.....*Disclosed no conflict of interest.*

Tarkowski, Eric M......*Disclosed no conflict of interest.*

Tashman, Scott .....*5*: Research activities supported by Steadman Philippon Research Institute grant funding or in-kind donations from Arthrex, DJO, MLB, Ossur, Siemens, Canon, Smith & Nephew, XTRE & DoD, NIH grants.

Tassone, Channing.....*Disclosed no conflict of interest.*

Tastad, Carli .....*Disclosed no conflict of interest.*

Tateda, Kazuhiro.....*Disclosed no conflict of interest.*

Tateyama, Yui .....*Disclosed no conflict of interest.*

Tatka, Jakub.....*Disclosed no conflict of interest.*

Tatusko, Megan .....*Disclosed no conflict of interest.*

Taub, Peter J. .....*Disclosed no conflict of interest.*

Tavakoli, Amir.....*Disclosed no conflict of interest.*

Tawackoli, Wafa .....*Disclosed no conflict of interest.*

Taylor, Brittany.....*Disclosed no conflict of interest.*

Taylor, Kelly .....*Disclosed no conflict of interest.*

Taylor, MD, MPH, J. Ryan .....*Disclosed no conflict of interest.*

Taylor, Samuel A.....*3B*: Mitek, DJO Orthopedics.

Taylor, William R.....*Disclosed no conflict of interest.*

Taylor, William R......*5*: Medacta.

Tchernychouk, Veronica .....*Disclosed no conflict of interest.*

Tecle, Nahom.....*Disclosed no conflict of interest.*

Teer, Landon.....*Disclosed no conflict of interest.*

Teeter, Matthew.....*4*: IdealFit Spacer Technologies; *9*: International Society for Technology in Arthroplasty, Canadian RSA Network.

Teeter, Matthew G .....*4*: IdealFit Spacer Technologies Inc; *9*: International Society for Technology in Arthroplasty, Canadian RSA Network.

Teitelbaum, Steven L .....*Disclosed no conflict of interest.*

Teixeira, Graciosa .....*Disclosed no conflict of interest.*

Teixeira, Graciosa Q.....*Disclosed no conflict of interest.*

Teixeiro, Emma .....*Disclosed no conflict of interest.*

Tekayama, Masanobu.....*Disclosed no conflict of interest.*

Telfer, Scott .....*Disclosed no conflict of interest.*

Temenoff, Johnna S .....*Disclosed no conflict of interest.*

Templeton, Kim .....*8*: Journal of Bone and Joint Surgery - American: Editorial or governing board.

Templeton, Kim J .....*Disclosed no conflict of interest.*

Templeton, Kimberly .....*8*: Journal of Bone and Joint Surgery - American.

Templeton, Kimberly J .....*Disclosed no conflict of interest.*

Tenorio, Alejandro J.....*Disclosed no conflict of interest.*

Terabe, Kennya.....*Disclosed no conflict of interest.*

Terabe, Kenya.....*Disclosed no conflict of interest.*

Teramoto, Atsushi .....*Disclosed no conflict of interest.*

Teramura, Shin .....*Disclosed no conflict of interest.*

Teredesai, Ankur.....*3A*: KenSci, Inc.

Terek, Richard M......*Disclosed no conflict of interest.*

Terkawi, Alaa .....*Disclosed no conflict of interest.*

Terkawi, MAlaa.....*Disclosed no conflict of interest.*

Terkawi, Mohamad Alaa.....*Disclosed no conflict of interest.*

Terry, Ashley.....*Disclosed no conflict of interest.*

Testa, Edward .....*Disclosed no conflict of interest.*

Tetsunaga, Tomonori.....*Disclosed no conflict of interest.*

Teuben, Michel .....*Disclosed no conflict of interest.*

Tewari, Manu.....*Disclosed no conflict of interest.*

Tezuka, Taro .....*Disclosed no conflict of interest.*

Thai, Victoria.....*Disclosed no conflict of interest.*

Thakkar, Akshar P. .....*Disclosed no conflict of interest.*

Thakore, Mayur .....*3A*: Stryker; *4*: Stryker.

Thakur, Ankush.....*Disclosed no conflict of interest.*

Thakur, Shreyasi .....*Disclosed no conflict of interest.*

Thampi, Parvathy.....*Disclosed no conflict of interest.*

Thelen, Darryl .....*Disclosed no conflict of interest.*

Thelen, Darryl G.....*Disclosed no conflict of interest.*

Thi, Mia.....*Disclosed no conflict of interest.*

Thi, Mia M .....*Disclosed no conflict of interest.*

Thiessen, Adam.....*Disclosed no conflict of interest.*

Thirukumaran, Caroline .....*Disclosed no conflict of interest.*

Thomas, Leslie .....*Disclosed no conflict of interest.*

Thomas, Richard .....*Disclosed no conflict of interest.*

Thomas, Tucker.....*Disclosed no conflict of interest.*

Thomassen, Maja.....*Disclosed no conflict of interest.*

Thometz, John .....*Disclosed no conflict of interest.*

Thomopoulos, Stavros .....*Disclosed no conflict of interest.*

Thompson, Jonathan .....*3A*: DePuy Synthes.

Thompson, Katherine .....*Disclosed no conflict of interest.*

Thompson, Katherine L. .....*Disclosed no conflict of interest.*

Thompson, Matthew .....*3A*: Stryker employee; *4*: Stryker Corp.

Thompson, Matthew A .....*Disclosed no conflict of interest.*

Thomsen, Isaac P .....*Disclosed no conflict of interest.*

Thoreson, Andrew R .....*Disclosed no conflict of interest.*

Thorpe, Steven W .....*Disclosed no conflict of interest.*

Thottathil, Letty .....*Disclosed no conflict of interest.*

Thummala, Abhinav R.....*Disclosed no conflict of interest.*

Thurlow, Lance L.....*Disclosed no conflict of interest.*

Thurner, Philipp J.....*Disclosed no conflict of interest.*

Thurner, Philipp J......*Disclosed no conflict of interest.*

Thurner, Phlipp J......*Disclosed no conflict of interest.*

Tian, Ye.....*Disclosed no conflict of interest.*

Tian, Yuan.....*6*: The NGF antibody using in this study were supported from Mochida Pharmaceutical CO., LTD. Tokyo Japan.

Tibrewala, Radhika .....*Disclosed no conflict of interest.*

Tichy, Elisia .....*Disclosed no conflict of interest.*

Tijerina, Jonathan D.....*Disclosed no conflict of interest.*

Timmen, Melanie.....*Disclosed no conflict of interest.*

Timothy, Wright.....*1*: Exactech Inc, Lima Corporate, Mathys ltd; *4*: orthobond; *5*: Lima Corporate; *9*: American Joint Replacement Registry, Orthopaedic Research and Education Foundation, Knee Society.

Ting, Kang .....*3A*: Kang Ting, Chia Soo, and Zhong Zheng are inventors on fibromodulin-related patents assigned to UCLA. Kang Ting, Chia Soo, and Zhong Zheng are founders of Scarless Laboratories Inc., which sublicenses.

Tinguely, Yann .....*Disclosed no conflict of interest.*

Tirumala, Venkatsaiakhil .....*Disclosed no conflict of interest.*

Tisherman, Robert T .....*7B*: Depuy Synthes.

To, Bethia .....*Disclosed no conflict of interest.*

Tobias, Menachem .....*Disclosed no conflict of interest.*

Todd, Jocelyn .....*Disclosed no conflict of interest.*

Toguchida, Junya .....*Disclosed no conflict of interest.*

Tokish, John M.....*1*: Arthrex; *2*: Arthrex, DePuy Synthes Mitek; *3B*: DePuy Synthes Mitek; *6*: Arthrex; *7A*: Arthrex; *8*: Journal of Shoulder and Elbow Surgery Associate Editor; *9*: AANA, Orthopedics Today.

Tokuhashi, Yasuaki .....*Disclosed no conflict of interest.*

Tolar, Jakub .....*Disclosed no conflict of interest.*

Toler, Krista .....*3A*: Zimmer Biomet.

Tolgyesi, Allison .....*Disclosed no conflict of interest.*

Tolsma, Rachael.....*Disclosed no conflict of interest.*

Toma, Takashi.....*Disclosed no conflict of interest.*

Tomaszewski, Krzysztof A. .....*Disclosed no conflict of interest.*

Tomita, Hiroyuki .....*Disclosed no conflict of interest.*

Tomita, Makoto .....*Disclosed no conflict of interest.*

Tommasini, Steven .....*Disclosed no conflict of interest.*

Tommasini, Steven M .....*Disclosed no conflict of interest.*

Tommasini, Steven M. .....*Disclosed no conflict of interest.*

Tomouk, M Wassim .....*Disclosed no conflict of interest.*

Tompkins, Marc A.....*Disclosed no conflict of interest.*

Tone, Shine.....*Disclosed no conflict of interest.*

Tong, Wei.....*Disclosed no conflict of interest.*

Tong, Weidong.....*Disclosed no conflict of interest.*

Tong, Xinming.....*Disclosed no conflict of interest.*

Topping, Daniel.....*Disclosed no conflict of interest.*

Toriyama, Minoru.....*Disclosed no conflict of interest.*

Torkan, Lawrence F.....*Disclosed no conflict of interest.*

Torre, Olivia M.....*Disclosed no conflict of interest.*

Torres, Holly .....*Disclosed no conflict of interest.*

Tosi, Laura L.....*5*: Ultragenyx Pharmaceutical; *9*: Osteogenesis Imperfecta Foundation Board of Directors and Medical Advisory Committee, PCORI Rare Disease Advisory Committee, American Orthopaedics Association Own the Bone Director, US Bone and Joint Initiative Board of Directors.

Toth, Alison P.....*2*: Vericel, Corporation; *3B*: Vericel, Corporation.

Toth, Ferenc.....*3B*: Bridging Medical Group, LLC.

Tovar, Maria .....*Disclosed no conflict of interest.*

Tower, Robert J.....*Disclosed no conflict of interest.*

Towfighian, Shahrzad .....*Disclosed no conflict of interest.*

Toyama, Shogo .....*Disclosed no conflict of interest.*

Töyräs, Juha.....*Disclosed no conflict of interest.*

Travascio, Francesco.....*Disclosed no conflict of interest.*

Travers, Paul M.....*Disclosed no conflict of interest.*

Tremblay, Madeleine.....*Disclosed no conflict of interest.*

Trigg, Lina .....*Disclosed no conflict of interest.*

Trikalinos, Thomas.....*Disclosed no conflict of interest.*

Trikha, Rishi .....*Disclosed no conflict of interest.*

Trinh, Jonathan Q .....*Disclosed no conflict of interest.*

Triplett, Ashley .....*Disclosed no conflict of interest.*

Trivedi, Jay.....*Disclosed no conflict of interest.*

Trone, Matthew.....*Disclosed no conflict of interest.*

Troy, Karen L.....*4*: Ossanex; *8*: Transactions on Neural Systems and Rehabilitation Engineering; *9*: ORS New Investigator Mentoring Committee.

Troyer, Luke D.....*Disclosed no conflict of interest.*

Trudel, Yannick .....*Disclosed no conflict of interest.*

Truong, Walter.....*Disclosed no conflict of interest.*

Tryfonidou, Marianna.....*Disclosed no conflict of interest.*

Trzeciak, Marc A .....*Disclosed no conflict of interest.*

Tsai, Liang-Ching .....*Disclosed no conflict of interest.*

Tsai, Sung Huang Laurent.....*Disclosed no conflict of interest.*

Tsai, Tsung-Yuan .....*Disclosed no conflict of interest.*

Tsang, Shao-Ting Jerry .....*8*: Associate Editor for Bone and Joint Research.

Tschaffon, Miriam.....*Disclosed no conflict of interest.*

Tschaffon, Miriam E. A......*Disclosed no conflict of interest.*

Tse, Justin J. .....*Disclosed no conflict of interest.*

Tseng, Chieh.....*Disclosed no conflict of interest.*

Tseng, Wei-Ju.....*Disclosed no conflict of interest.*

Tsinman, Tonia .....*Disclosed no conflict of interest.*

Tsinman, Tonia K .....*Disclosed no conflict of interest.*

Tsourkas, Andrew .....*4*: Andrew Tsourkas is a founder and owns equity in AlphaThera.

Tsubosaka, Masanori .....*Disclosed no conflict of interest.*

Tsuchida, Shinji.....*Disclosed no conflict of interest.*

Tsuji, Kentaro.....*Disclosed no conflict of interest.*

Tsuji, Kunikazu.....*Disclosed no conflict of interest.*

Tsujiku, Shinya.....*Disclosed no conflict of interest.*

Tsujimoto, Ryu.....*Disclosed no conflict of interest.*

Tsujimoto, Takeru.....*Disclosed no conflict of interest.*

Tu, Ji.....*Disclosed no conflict of interest.*

Tuan, Rocky .....*Disclosed no conflict of interest.*

Tuan, Rocky S.....*Disclosed no conflict of interest.*

Tuan, Rocky S......*Disclosed no conflict of interest.*

Tuan, Rocky Sung Chi.....*Disclosed no conflict of interest.*

Tuan, Rocky Sung-Chi.....*Disclosed no conflict of interest.*

Tucker, Douglass W.....*Disclosed no conflict of interest.*

Tujiku, Shinya .....*Disclosed no conflict of interest.*

Tuladhar, Anik .....*Disclosed no conflict of interest.*

Turajane, Kathleen .....*Disclosed no conflict of interest.*

Turcu, Adrian .....*Disclosed no conflict of interest.*

Turek, Tom.....*Disclosed no conflict of interest.*

Turkmani, Amr.....*Disclosed no conflict of interest.*

Turnbull, Jacob.....*Disclosed no conflict of interest.*

Turner, Elizabeth H.G......*Disclosed no conflict of interest.*

Turner, Jonathan.....*Disclosed no conflict of interest.*

Twaroski, Kirk .....*Disclosed no conflict of interest.*

Twomey-Kozak, John .....*Disclosed no conflict of interest.*

Tycksen, Eric D .....*Disclosed no conflict of interest.*

Tzanetis, Periklis .....*Disclosed no conflict of interest.*

Uchida, Soshi .....*Disclosed no conflict of interest.*

Ud Din, Nizam.....*Disclosed no conflict of interest.*

Uehara, Fuminari.....*Disclosed no conflict of interest.*

Ueki, Hiroko.....*Disclosed no conflict of interest.*

Uematsu, Takuya.....*Disclosed no conflict of interest.*

Uemukai, Toru .....*Disclosed no conflict of interest.*

Uemura, Keisuke.....*Disclosed no conflict of interest.*

Ueno, Masaya.....*Disclosed no conflict of interest.*

Uetsuki, Keita .....*3A*: Teijin Nakashima Medical Co., Ltd.

Ukeba, Daisuke.....*6*: Japan Agency for Medical Research and Development; *7A*: Mochida Pharmaceutical Co., Ltd.

Ukishiro, Kengo.....*Disclosed no conflict of interest.*

Ulitto, Joseph.....*Disclosed no conflict of interest.*

Umpeirrez, Monica B .....*Disclosed no conflict of interest.*

Unal, Mustafa .....*Disclosed no conflict of interest.*

Unger, Jesse .....*3A*: NuVasive.

Unni, Mythreyi.....*Disclosed no conflict of interest.*

Uno, Koki .....*Disclosed no conflict of interest.*

Uno, Tomohiro.....*Disclosed no conflict of interest.*

Upasani, Vidyadhar.....*1*: OrthoPediatrics; *2*: DePuy, NuVasive; *3B*: Indius; *3C*: EOS Imaging; *4*: Imagen; *5*: nView, EOS Imaging; *7B*: WKH; *8*: Spine.

Ura, Katsuro.....*Disclosed no conflict of interest.*

Ural, Evran .....*Disclosed no conflict of interest.*

Urish, Kenneth .....*3B*: yes; *5*: yes; *6*: yes.

Urish, Kenneth .....*5*: Smith&Nephew.

Urish, Kenneth L .....*Disclosed no conflict of interest.*

Urita, Atsushi.....*Disclosed no conflict of interest.*

Usami, Yuna.....*Disclosed no conflict of interest.*

Utomo, Lizette .....*Disclosed no conflict of interest.*

Utsunomiya, Hajime .....*Disclosed no conflict of interest.*

Utsunomiya, Takeshi .....*Disclosed no conflict of interest.*

Vahidi, Ghazal.....*Disclosed no conflict of interest.*

Vaidya, Rachana .....*Disclosed no conflict of interest.*

Vakharia, Rushabh M.....*Disclosed no conflict of interest.*

Vakili, Samira .....*Disclosed no conflict of interest.*

Vaksha, Vedant.....*Disclosed no conflict of interest.*

Valdevit, Antonio.....*5*: Foundation Fusion Solutions, LLC, dba CornerLoc, Stryker (K2M), Medtronic (Titan Spine).

Valdez, Mauricio.....*Disclosed no conflict of interest.*

Valente, Alexis.....*Disclosed no conflict of interest.*

Valentino, Alexandra.....*3A*: Stryker; *4*: Stryker.

Valentino, John.....*Disclosed no conflict of interest.*

Valiya Kambrath, Anuradha.....*Disclosed no conflict of interest.*

van Arkel, Richard.....*Disclosed no conflict of interest.*

van Arkel, Richard J.....*Disclosed no conflict of interest.*

van Arkel, Richard J......*Disclosed no conflict of interest.*

Van Citters, Douglas.....*5*: DePuy, OrthoSensor, ConforMIS, Launchpad Medical, TJO.

van der Meulen, Marjolein.....*Disclosed no conflict of interest.*

van der Meulen, Marjolein C.H.*Disclosed no conflict of interest.*

van der Meulen, Marjolein C.H.*Disclosed no conflict of interest.*

van der Meulen, Marjolein CH..*Disclosed no conflict of interest.*

van Dijk, Lukas A......*3A*: Kuros Biosciences.

van Dillen, Linda R.....*Disclosed no conflict of interest.*

van Eck, Carola F......*Disclosed no conflict of interest.*

Van Handel, Ben.....*4*: Carthronix Inc.

van Lenthe, G. Harry.....*Disclosed no conflict of interest.*

Van Nest, Duncan.....*Disclosed no conflict of interest.*

van Osch, Gerjo J.V.M......*Disclosed no conflict of interest.*

Van Remmen, Holly.....*Disclosed no conflict of interest.*

Van Roekel, Nickolas.....*Disclosed no conflict of interest.*

Van Speybroeck, Alexander.....*Disclosed no conflict of interest.*

Van Valin, Scott.....*Disclosed no conflict of interest.*

Vanasse, Tom.....*3A*: Exactech.

Vandenberg, Dennis.....*Disclosed no conflict of interest.*

Vandenburgh, Herman.....*Disclosed no conflict of interest.*

VanHelmond, Taylor.....*Disclosed no conflict of interest.*

VanHelmond, Taylor Ann.....*Disclosed no conflict of interest.*

Vannatta, Emily .....*Disclosed no conflict of interest.*

Varadarajan, Kartik.....*1*: Stryker Corp; *4*: Orthopaedic Technology Group; *5*: Heraeus GmbH, Depuy Synthes, Evonik; *9*: Orthopaedic Research Society, Implant Section.

Varadarajan, Ravikumar .....*3A*: Zimmer Biomet; *4*: Zimmer Biomet.

Varady, Nathan H .....*Disclosed no conflict of interest.*

Varden, Lara J .....*Disclosed no conflict of interest.*

Vargas, Diego.....*Disclosed no conflict of interest.*

Varilek, Rachel A.....*Disclosed no conflict of interest.*

Varney, Jessica L .....*Disclosed no conflict of interest.*

Vasarhelyi, Edward .....*3B*: DePuy, Hip Innovation Technology; *5*: DePuy, Smith & Nephew, Stryker.

Vasarhelyi, Edward M.....*3B*: DePuy, A Johnson & Johnson Company, Hip Innovation Technology; *5*: DePuy, A Johnson & Johnson Company, Smith & Nephew, Stryker.

Vashisth, Manasvita.....*Disclosed no conflict of interest.*

Vasileff, William.....*Disclosed no conflict of interest.*

Vaso, Keti.....*Disclosed no conflict of interest.*

Vater, Corina.....*Disclosed no conflict of interest.*

Vauclin, Cameron.....*Disclosed no conflict of interest.*

Vedanaparti, Yajnesh.....*Disclosed no conflict of interest.*

Veeramani, Ashwin.....*Disclosed no conflict of interest.*

Vega-Soto, Emmanuel E.....*Disclosed no conflict of interest.*

Venderley, Melanie B .....*Disclosed no conflict of interest.*

Venkatesan, Jagadeesh K.....*Disclosed no conflict of interest.*

Venkatesh, Shreya .....*Disclosed no conflict of interest.*

Verborgt, Olivier .....*3B*: Zimmer Biomet.

Verbruggen, Anneke SK .....*Disclosed no conflict of interest.*

Verdonschot, Nico .....*Disclosed no conflict of interest.*

Vernengo, Andrea.....*Disclosed no conflict of interest.*

Vernon, Lauren .....*Disclosed no conflict of interest.*

Verstraete, Matthias.....*3A*: OrthoSensor, Inc.

Vervaecke, Alexander .....*Disclosed no conflict of interest.*

Vessal, Mani .....*Disclosed no conflict of interest.*

Vesvoranan, Oraya .....*Disclosed no conflict of interest.*

Vickers, Mark H.....*Disclosed no conflict of interest.*

Vidal, Armando F. .....*2*: Arthrex, Inc., Vericel; *3B*: Arthrex, Inc.; *9*: American Orthopaedic Society for Sports Medicine.

Vidyadhar, Upasani V .....*1*: OrthoPediatrics; *2*: DePuy, NuVasive; *3B*: Indius; *3C*: EOS Imaging; *4*: Imagen; *5*: nView, EOS Imaging; *7B*: WKH; *8*: Spine.

Villalobos, Efren.....*Disclosed no conflict of interest.*

Villemure, Isabelle .....*Disclosed no conflict of interest.*

Villicana, Cassandra .....*Disclosed no conflict of interest.*

Vinicius Gil Alabarse, Paulo.....*Disclosed no conflict of interest.*

Vinson, Amanda L.....*Disclosed no conflict of interest.*

Viola, Dan C. M. .....*Disclosed no conflict of interest.*

Virdi, Amarjit S.....*Disclosed no conflict of interest.*

Virk, Sohrab .....*Disclosed no conflict of interest.*

Visgauss, Julia D.....*Disclosed no conflict of interest.*

Vishwanath, Karan.....*3A*: Jens Stabler; *3B*: Courtney Ziegler; *5*: Karan Vishwanath, Lawrence Bonassar.

Visnes, Håvard .....*Disclosed no conflict of interest.*

Vivacqua, Thiago.....*Disclosed no conflict of interest.*

Vivanco, Juan F. .....*Disclosed no conflict of interest.*

Vles, Georges .....*Disclosed no conflict of interest.*

Vo, Nam.....*Disclosed no conflict of interest.*

Volk, Susan W......*Disclosed no conflict of interest.*

Volk, Victoria L.....*Disclosed no conflict of interest.*

Voloshin, Ilya .....*1*: Arthrex, Arthrosurface, Innomed, ZimmerBiomet, Smith & Nephew; *3B*: FH Orthopaedics; *9*: Arthroscopy Association of North America, American Shoulder and Elbow Surgeons.

von Rechenberg, Brigitte .....*3B*: Johnson & Johnson Family of Companies; *5*: Johnson & Johnson Family of Companies.

von Rechenberg, Brigitte .....*3B*: Johnson & Johnson Family of Companies; *5*: Johnson & Johnson Family of Compaines.

Vopat, Bryan.....*3B*: DePuy, A Johnson & Johnson Company; *5*: Stryker.

Vopat, Bryan.....*3B*: DePuy, A Johnson & Johnson Company: Paid consultant; *5*: Stryker: Research Support.

Vopat, Bryan G.....*3B*: DePuy, A Johnson & Johnson Company: Paid Consultant; *5*: Stryker: Research Support.

Vopat, Bryan G......*3B*: DePuy, Johnson & Johnson Company: Paid consultant; *5*: Stryker: Research support.

Vopat, Lisa .....*Disclosed no conflict of interest.*

Vopat, Matthew .....*Disclosed no conflict of interest.*

Vopat, Matthew L.....*Disclosed no conflict of interest.*

Vopat, Matthew L......*Disclosed no conflict of interest.*

Vorrius, Brandon.....*Disclosed no conflict of interest.*

Vosselman, Anne L.....*Disclosed no conflict of interest.*

Vresilovic, Edward .....*Disclosed no conflict of interest.*

Vris, Alexandros.....*Disclosed no conflict of interest.*

Vu, Ashley A......*Disclosed no conflict of interest.*

Vunjak-Novakovic, Gordana .....*Disclosed no conflict of interest.*

Wachs, Rebecca A.....*Disclosed no conflict of interest.*

Wadhwa, Harsh .....*Disclosed no conflict of interest.*

Wagala, Nyaluma.....*Disclosed no conflict of interest.*

Wagley, Yadav .....*Disclosed no conflict of interest.*

Wagner, Linzie .....*Disclosed no conflict of interest.*

Wagner, Phillip P .....*Disclosed no conflict of interest.*

Wahbeh, Jenna .....*Disclosed no conflict of interest.*

Wahlen, Trenten.....*Disclosed no conflict of interest.*

Wakabayashi, Hiroki.....*Disclosed no conflict of interest.*

Wakama, HItoshi .....*Disclosed no conflict of interest.*

Walck, Christine.....*Disclosed no conflict of interest.*

Waldman, Olivia .....*Disclosed no conflict of interest.*

Waldman, Stephen D......*Disclosed no conflict of interest.*

Waldorff, Erik.....*Disclosed no conflict of interest.*

Walia, Bhavita.....*Disclosed no conflict of interest.*

Walk, Remy.....*Disclosed no conflict of interest.*

Walk, Remy E.....*Disclosed no conflict of interest.*

Walk, Seth .....*Disclosed no conflict of interest.*

Walker, J. Todd .....*Disclosed no conflict of interest.*

Walker, Lizzie .....*Disclosed no conflict of interest.*

Walker, Paul .....*Disclosed no conflict of interest.*

Walker, Peter.....*1*: Royalties from Stryker and from ZimmerBiomet for Total Knee design; *4*: Stock in Genovel Inc through Office of Industrial Liaison, NYU Langone Health; *7A*: Springer Nature for a book The Artificial Knee: an Ongoing Evolution; *8*: Journal of Arthroplasty, Journal of Biomechanics, Journal of Biomedical; *9*: International Society for Technology in Arthroplasty ISTA.

Walker, Peter S. .....*1*: Stryker, ZimmerBiomet; *4*: Genovel; *8*: Journal of Arthroplasty.

Walker, Richard E.A. .....*Disclosed no conflict of interest.*

Wallace, Anna.....*3A*: Johnson & Johnson; *4*: Johnson & Johnson.

Wallace, Erin.....*Disclosed no conflict of interest.*

Wallace, Joseph .....*Disclosed no conflict of interest.*

Wallace, Joseph M.....*Disclosed no conflict of interest.*

Wallace, Roseanna.....*Disclosed no conflict of interest.*

Walrath, Evan .....*Disclosed no conflict of interest.*

Walsh, Conor .....*Disclosed no conflict of interest.*

Walsh, William.....*4*: Biorez.

Walter, Adam .....*Disclosed no conflict of interest.*

Walter, Benjamin.....*Disclosed no conflict of interest.*

Walter, Frédéric.....*Disclosed no conflict of interest.*

Walton, David.....*Disclosed no conflict of interest.*

Wang, Allan .....*3B*: Exactech, Inc.

Wang, Chao .....*Disclosed no conflict of interest.*

Wang, Chau-Zen.....*Disclosed no conflict of interest.*

Wang, Chenyang.....*Disclosed no conflict of interest.*

Wang, Chongyang.....*Disclosed no conflict of interest.*

Wang, Cong.....*Disclosed no conflict of interest.*

Wang, Cuicui.....*Disclosed no conflict of interest.*

Wang, Dalin .....*Disclosed no conflict of interest.*

Wang, Dan .....*Disclosed no conflict of interest.*

Wang, Dong .....*4*: Dr. Wang is one of the cofounders of Ensign Pharmaceutical.

Wang, Dong .....*4*: Co-founder of Ensign Pharmaceutical.

Wang, Edward .....*Disclosed no conflict of interest.*

Wang, Edward D. .....*Disclosed no conflict of interest.*

Wang, James H-C .....*Disclosed no conflict of interest.*

Wang, James H-C. .....*Disclosed no conflict of interest.*

Wang, Jasmine.....*Disclosed no conflict of interest.*

Wang, Jinxi.....*Disclosed no conflict of interest.*

Wang, Kaidi.....*Disclosed no conflict of interest.*

Wang, Lai .....*Disclosed no conflict of interest.*

Wang, Lijun.....*Disclosed no conflict of interest.*

Wang, Lin.....*3A*: DePuy Synthes.

Wang, Ling .....*Disclosed no conflict of interest.*

Wang, Linshanshan.....*Disclosed no conflict of interest.*

Wang, Liyun .....*Disclosed no conflict of interest.*

Wang, Luqiang .....*Disclosed no conflict of interest.*

Wang, Michelle Dan.....*Disclosed no conflict of interest.*

Wang, Minghui .....*Disclosed no conflict of interest.*

Wang, Mingjiu .....*Disclosed no conflict of interest.*

Wang, Pengju.....*Disclosed no conflict of interest.*

Wang, Shangcheng .....*Disclosed no conflict of interest.*

Wang, Shangping.....*Disclosed no conflict of interest.*

Wang, Sun Young.....*Disclosed no conflict of interest.*

Wang, Tian.....*Disclosed no conflict of interest.*

Wang, Tianbai.....*Disclosed no conflict of interest.*

Wang, Vincent .....*5*: Coloplast Corp.; *9*: ORS.

Wang, Vincent .....*9*: ORS.

Wang, Vincent M .....*9*: ORS.

Wang, Wei .....*Disclosed no conflict of interest.*

Wang, Wenzheng.....*Disclosed no conflict of interest.*

Wang, Xiaodu .....*Disclosed no conflict of interest.*

Wang, Xinluan .....*Disclosed no conflict of interest.*

Wang, Yamin.....*Disclosed no conflict of interest.*

Wang, Yicun.....*Disclosed no conflict of interest.*

Wang, Yiyun.....*Disclosed no conflict of interest.*

Wang, Yong.....*Disclosed no conflict of interest.*

Wang, Yunjia.....*Disclosed no conflict of interest.*

Wang, Zexi .....*Disclosed no conflict of interest.*

Wang, Zhao.....*Disclosed no conflict of interest.*

Wang, Zhenggang .....*Disclosed no conflict of interest.*

Wang, Zili.....*Disclosed no conflict of interest.*

Wanger, Brett A.....*Disclosed no conflict of interest.*

Wangler, Sebastian.....*Disclosed no conflict of interest.*

Wapp, Christina .....*Disclosed no conflict of interest.*

Ward, Christopher W......*Disclosed no conflict of interest.*

Ward, Samuel R .....*Disclosed no conflict of interest.*

Ward, Sarah.....*6*: Fellowship support: Stryker and Smith & Nephew.

Warden, Stuart .....*Disclosed no conflict of interest.*

Warnecke, Daniela.....*Disclosed no conflict of interest.*

Warren, James P .....*Disclosed no conflict of interest.*

Warren, Michael.....*Disclosed no conflict of interest.*

Warren, Russell F.....*1*: Arthrex, Inc.

Warren, Russell F.....*4*: Orthonet.

Waryasz, Gregory.....*Disclosed no conflict of interest.*

Waseda, Yuya .....*Disclosed no conflict of interest.*

Wastvedt, Solvejg.....*Disclosed no conflict of interest.*

Watanabe, Goro .....*Disclosed no conflict of interest.*

Watanabe, Hiroshi .....*Disclosed no conflict of interest.*

Watanabe, Keiichiro .....*Disclosed no conflict of interest.*

Watanabe, Kota .....*Disclosed no conflict of interest.*

Watanabe, Nobuyoshi .....*Disclosed no conflict of interest.*

Watanabe, Ryota .....*3A*: Teijin Nakashima Medical Co., Ltd.

Watanabe, Shu .....*Disclosed no conflict of interest.*

Watchmaker, Lauren E.....*Disclosed no conflict of interest.*

Watkins, Beckham .....*Disclosed no conflict of interest.*

Watters, Rebecca.....*Disclosed no conflict of interest.*

Watters, Rebecca J.....*Disclosed no conflict of interest.*

Watts, Jeffrey C.....*Disclosed no conflict of interest.*

Weaver, Michael J.....*Disclosed no conflict of interest.*

Webb, Brian.....*Disclosed no conflict of interest.*

Weber, Alexander E .....*Disclosed no conflict of interest.*

Weber, Birte .....*Disclosed no conflict of interest.*

Weber, Christian.....*Disclosed no conflict of interest.*

Weber, Christian I .....*Disclosed no conflict of interest.*

Weber, Margaret A.....*Disclosed no conflict of interest.*

Weber, Margaret Ann.....*Disclosed no conflict of interest.*

Webster, Kate E .....*Disclosed no conflict of interest.*

Webster, Thomas.....*Disclosed no conflict of interest.*

Wee, Hwa Bok .....*Disclosed no conflict of interest.*

Wee, Zong-Rui .....*3A*: MedShape.

Weekes, Kenneth.....*Disclosed no conflict of interest.*

Wegner, MD, PhD, Adam.....*Disclosed no conflict of interest.*

Wei, Fei.....*Disclosed no conflict of interest.*

Wei, Jianlu .....*Disclosed no conflict of interest.*

Wei, Lei.....*Disclosed no conflict of interest.*

Wei, Wu.....*Disclosed no conflict of interest.*

Wei, Xin .....*Disclosed no conflict of interest.*

Wei, Yulong .....*Disclosed no conflict of interest.*

Weihrauch, Dorothee .....*Disclosed no conflict of interest.*

Weinberg, J. Brice .....*Disclosed no conflict of interest.*

Weiner, Adam.....*Disclosed no conflict of interest.*

Weiner, Bradley K.....*Disclosed no conflict of interest.*

Weingast, Giulia.....*Disclosed no conflict of interest.*

Weis, MaryAnn .....*Disclosed no conflict of interest.*

Weisberg, Miriam D .....*Disclosed no conflict of interest.*

Weiser, Jennifer R.....*Disclosed no conflict of interest.*

Weiss, Arnold-Peter.....*4*: Loci Orthopedics.

Weiss, Arnold-Peter C.....*4*: Loci Orthopedics.

Weiss, Jeffrey.....*Disclosed no conflict of interest.*

Weiss, Kurt.....*Disclosed no conflict of interest.*

Weiss, Kurt R .....*Disclosed no conflict of interest.*

Weiss, Lindsey .....*Disclosed no conflict of interest.*

Weiss, Rich.....*3A*: Radius Health Inc; *4*: Radius Health Inc.

Weiss, Stephanie .....*Disclosed no conflict of interest.*

Weiss, Stephanie N.....*Disclosed no conflict of interest.*

Weisse, Bernhard.....*5*: Zimmer Biomet, Winterthur, Switzerland.

Welch, William.....*4*: Transcendental Spine-stock ownership; *5*: Grant support-Premia Spine & Empirical Spine; *8*: Associate Editorial Board Spine, Associate editor Journal of the American College of Surgeons, Assistant editor European Spine Journal.

Welhaven, Hope .....*Disclosed no conflict of interest.*

Welhaven, Hope D.....*Disclosed no conflict of interest.*

Wellman, David .....*2*: Depuy, A Johnson & Johnson Company; *3B*: OrthoDevelopment; *4*: Imagen; *8*: HSS Journal.

Wells, Joel.....*Disclosed no conflict of interest.*

Wells, Joel E .....*Disclosed no conflict of interest.*

Wells, Joel E. .....*Disclosed no conflict of interest.*

Wells, Kristina V.....*Disclosed no conflict of interest.*

Wellsandt, Elizabeth .....*Disclosed no conflict of interest.*

Welsh, Clayton.....*Disclosed no conflict of interest.*

Wen, Yujing .....*Disclosed no conflict of interest.*

Wenke, Joseph C.....*Disclosed no conflict of interest.*

Wentz, Douglas.....*3B*: Exactech Inc.

Werner, Frederick W.....*4*: Moximed; *5*: Stryker; *9*: Hand and Wrist Biomechanics International.

Werpy, Natasha .....*Disclosed no conflict of interest.*

Wesdorp, Marinus Anthonie (Tim) *Disclosed no conflict of interest.*

Wesorick, Benjamin R.....*Disclosed no conflict of interest.*

Westendorf, Jennifer .....*Disclosed no conflict of interest.*

Weston, Jacob.....*Disclosed no conflict of interest.*

Westrich, Geoffrey.....*1*: Stryker; *3B*: Stryker; *5*: Stryker.

Westrich, Geoffrey.....*1*: Exactech Inc, Stryker; *2*: Exactech Inc, Mallinckrodt Pharmaceuticals, Stryker; *3B*: Exactech Inc, Stryker; *5*: Exactech Inc, Stryker; *9*: Eastern Orthopedic Association, Knee Society.

Westrich, Geoffrey.....*1*: Exactech, Inc, Stryker; *2*: Exactech, Inc, Mallinckrodt Pharmaceuticals, Stryker; *3B*: Exactech, Inc, Stryker; *5*: Exactech, Inc, Stryker; *9*: Eastern Orthopedic Association, Knee Society.

Westrich, Geoffrey.....*3B*: Stryker.

Westrick, Edward.....*Disclosed no conflict of interest.*

Wheatley, Benjamin M .....*5*: Johnson and Johnson donated the hardware and sawbones.

Wheeler, Tibra A.....*Disclosed no conflict of interest.*

Wheeler, Tibra A......*Disclosed no conflict of interest.*

Whitaker, Dustin.....*3A*: DePuy Synthes; *4*: DePuy Synthes.

White, Christopher A .....*Disclosed no conflict of interest.*

White, Stephen E .....*3A*: DePuy Synthes Inc.

White, Tyler .....*Disclosed no conflict of interest.*

Whitney, Kaitie .....*Disclosed no conflict of interest.*

Whitney, Kaitlyn .....*Disclosed no conflict of interest.*

Whittam, David.....*Disclosed no conflict of interest.*

Whitten, Andy .....*3A*: Smith + Nephew; *4*: Smith + Nephew.

Whittier, Danielle E.....*Disclosed no conflict of interest.*

Whyne, Cari .....*4*: Halterix.

Whyte, Noelle.....*3A*: Spouse is employee of Synthes.

Wiater, Patrick.....*3B*: DePuy, A Johnson & Johnson Company.

Wichman, Daniel M .....*Disclosed no conflict of interest.*

Wick, Joseph B.....*Disclosed no conflict of interest.*

Widmann, Roger F. .....*3B*: Medtronic Spine, Orthopediatrics.

Wiens, Charmaine.....*Disclosed no conflict of interest.*

Wilcox, Ruth .....*5*: DePuy Synthes; *6*: DePuy Synthes.

Wilcox, Ruth K .....*5*: DePuy Sythnes; *6*: DePuy Sythnes; *8*: Journal of Engineering in Medicine.

Wildeman, Bethany.....*Disclosed no conflict of interest.*

Wilke, Hans Joachim.....*Disclosed no conflict of interest.*

Wilke, Hans-Joachim.....*Disclosed no conflict of interest.*

Wilken, Jason M......*Disclosed no conflict of interest.*

Wilkinson, J Mark .....*Disclosed no conflict of interest.*

Wilkinson, Mark .....*Disclosed no conflict of interest.*

Willett, Nick.....*Disclosed no conflict of interest.*

Willey, Jeffrey.....*Disclosed no conflict of interest.*

Willey, Jeffrey S. .....*Disclosed no conflict of interest.*

Willey, Michael.....*Disclosed no conflict of interest.*

Williams, Andy.....*2*: Smith and Nephew; *3C*: Innovate Orthopaedics; *4*: Orthonika, Innovate Orthopaedics; *5*: Smith and Nephew; *8*: American Journal of Sports Medicine Board.

Williams, Ashley .....*Disclosed no conflict of interest.*

Williams, Ashley A .....*Disclosed no conflict of interest.*

Williams, Brandon .....*Disclosed no conflict of interest.*

Williams, Caroline.....*Disclosed no conflict of interest.*

Williams, Dale.....*Disclosed no conflict of interest.*

Williams, David.....*Disclosed no conflict of interest.*

Williams, Greg .....*3A*: NuVasive.

Williams, Jack R .....*Disclosed no conflict of interest.*

Williams, Jack R. .....*Disclosed no conflict of interest.*

Williams, Joan R.....*Disclosed no conflict of interest.*

Williams, Rebecca .....*Disclosed no conflict of interest.*

Williams, Spencer .....*Disclosed no conflict of interest.*

Williamson, Kelly M .....*Disclosed no conflict of interest.*

Willing, Rayan.....*3B*: R. Willing: 3B; Lima. 5; Stryker.

Willing, Ryan.....*3B*: LimaCorporate; *5*: Stryker.

Willing, Ryan.....*5*: Stryker.

Willing, Ryan.....*3B*: Lima Corp; *5*: Stryker.

Willing, Ryan.....*3B*: Lima; *5*: Stryker.

Willman, Melissa A .....*Disclosed no conflict of interest.*

Wills, Dan.....*Disclosed no conflict of interest.*

Wilmoth, Rachel .....*Disclosed no conflict of interest.*

Wilson, David AJ .....*Disclosed no conflict of interest.*

Wilson, Janie L .....*3B*: Stryker Orthopaedics.

Wilson, Kyle .....*Disclosed no conflict of interest.*

Wilson, Pete.....*3A*: ReGelTec Inc; *4*: ReGelTec Inc; *5*: ReGelTec Inc; *6*: ReGelTec Inc.

Wilson, Robert L. .....*Disclosed no conflict of interest.*

Wilson, Stephen P.....*Disclosed no conflict of interest.*

Wimmer, Markus A.....*6*: CeramTec GmbH, Germany.

Wimmer, Markus A......*5*: Zimmer Biomet.

Winalski, Carl .....*3B*: Siemens Medical Solutions Inc. USA.

Winalski, Carl S .....*3B*: Medical Metrics, Inc, BioClinica, Inc, PAREXEL International Corporation, CartiHeal Ltd; *4*: Pfizer Inc, General Electric Company.

Winalski, Carl S .....*3B*: Siemens.

Winalski, Carl S. .....*3B*: Siemens Medical Solutions Inc. USA.

Wind, William .....*Disclosed no conflict of interest.*

Winemaker, Mitch .....*Disclosed no conflict of interest.*

Wingender, Brian.....*Disclosed no conflict of interest.*

Winkelstein, Beth A .....*Disclosed no conflict of interest.*

Winkler, Anja .....*Disclosed no conflict of interest.*

Winkler, Philipp .....*Disclosed no conflict of interest.*

Winkler, Philipp K .....*Disclosed no conflict of interest.*

Winsor, Carla .....*Disclosed no conflict of interest.*

Winter, Fabian .....*Disclosed no conflict of interest.*

Wintring, Allison .....*Disclosed no conflict of interest.*

Wintring, Allison J .....*Disclosed no conflict of interest.*

Winzenrieth, Renaud .....*Disclosed no conflict of interest.*

Wise, Barton L.....*Disclosed no conflict of interest.*

Wise, Brian C.....*Disclosed no conflict of interest.*

Wistuba, Jochachim.....*Disclosed no conflict of interest.*

Witt, Benjamin.....*Disclosed no conflict of interest.*

Wittstein, Jocelyn .....*6*: Arthrex, Prodigy Surgical, Aesculap Biologics.

Wittstein, Jocelyn R .....*6*: Aesculap Biologics, Arthrex, Prodigy Surgical.

Wittstein, Jocelyn R .....*3B*: Prodigy Surgical, Arthrex.

Wiznia, Daniel.....*3B*: Intellijoint Surgical.

Wohlgemuth, Ross P.....*Disclosed no conflict of interest.*

Wojtkiewicz, Gregory R.....*Disclosed no conflict of interest.*

Wojtys, Edward M .....*7B*: AOSSM Medical Publishing Board; *8*: Sports Health: A Multidisciplinary Approach.

Wojtys, Edward M .....*7B*: Sports Health journal; *8*: Sports Health journal; *9*: AOSSM.

Wolf, Alon.....*Disclosed no conflict of interest.*

Wolfe, Preston N .....*Disclosed no conflict of interest.*

Wolfe, Scott W.....*1*: Extremity Medical; *2*: TriMed, Extremity Medical; *3B*: Conventus, Cartiva, Extremity Medical; *5*: Conventus, Cartiva; *7A*: Extremity Medical; *7B*: Elsevier, Inc.

Wolfson, Julian .....*Disclosed no conflict of interest.*

Wolfson, Wendy .....*Disclosed no conflict of interest.*

Wolfstadt, Jesse.....*Disclosed no conflict of interest.*

Wolleb, Maja .....*Disclosed no conflict of interest.*

Wollenman, Colby C.....*Disclosed no conflict of interest.*

Wong, Alice.....*Disclosed no conflict of interest.*

Wong, Andrew.....*Disclosed no conflict of interest.*

Wong, Andrew` K.....*Disclosed no conflict of interest.*

Wong, Daniel .....*Disclosed no conflict of interest.*

Wong, Felix .....*Disclosed no conflict of interest.*

Wong, Gabriella .....*3A*: MedShape.

Wong, Jason.....*Disclosed no conflict of interest.*

Wong, Kwok Chuen.....*Disclosed no conflict of interest.*

Wong, Murray T.....*Disclosed no conflict of interest.*

Wong, Ronald Man Yeung .....*Disclosed no conflict of interest.*

Wood, Jennifer .....*3A*: Johnson & Johnson; *4*: Johnson & Johnson.

Wood, Ronald W......*Disclosed no conflict of interest.*

Wood, Taylor R. .....*Disclosed no conflict of interest.*

Wood, Tom.....*Disclosed no conflict of interest.*

Woodard, Erik.....*3A*: Erik Woodard.

Woodell-May, Jennifer .....*3A*: Zimmer Biomet.

Woodford, Sarah Claire.....*Disclosed no conflict of interest.*

Woodson, David .....*Disclosed no conflict of interest.*

Woolley, Katherine.....*Disclosed no conflict of interest.*

Woolley, William John .....*Disclosed no conflict of interest.*

Working, Zachary M......*Disclosed no conflict of interest.*

Workman, Josh.....*Disclosed no conflict of interest.*

Workman, Kalain Kristofer.....*Disclosed no conflict of interest.*

Wouthuyzen-Bakker, Marjan....*Disclosed no conflict of interest.*

Wren, Tishya A. L. .....*Disclosed no conflict of interest.*

Wright, Donovan .....*Disclosed no conflict of interest.*

Wright, Jennifer L.....*Disclosed no conflict of interest.*

Wright, Jonathan .....*Disclosed no conflict of interest.*

Wright, Melissa.....*Disclosed no conflict of interest.*

Wright, Rick W.....*4*: Responsive Arthroscopy; *7A*: Responsive Arthroscopy; *7B*: Wolters Kluwer Lippincott, Williams and Wilkins; *8*: J Bone Joint Surg Am, J Knee Surg, Clin Orthop Relat Res; *9*: Am Board of Ortho Surg, Am Ortho Association.

Wright, Thomas .....*3B*: Exactech, Inc; *7A*: Exactech, Inc.

Wright, Timothy.....*1*: Exactech Inc.

Wright, Timothy.....*1*: Exactech Inc, Lima Corporate, Mathys Ltd; *4*: Orthobond; *5*: Lima Corporate; *9*: American Joint Replacement Registry, Orthopaedic Research and Education Foundation, Knee Society.

Wroblewski, Olga M .....*Disclosed no conflict of interest.*

Wu, Biming .....*Disclosed no conflict of interest.*

Wu, Bin.....*Disclosed no conflict of interest.*

Wu, Che-Wei.....*Disclosed no conflict of interest.*

Wu, Chia-Lung.....*Disclosed no conflict of interest.*

Wu, Cindy .....*Disclosed no conflict of interest.*

Wu, Colleen .....*Disclosed no conflict of interest.*

Wu, Decheng .....*Disclosed no conflict of interest.*

Wu, Josephine .....*Disclosed no conflict of interest.*

Wu, Joy Y .....*Disclosed no conflict of interest.*

Wu, Shun Cheng.....*Disclosed no conflict of interest.*

Wu, Yongren.....*Disclosed no conflict of interest.*

Wu, Yuanqiao .....*Disclosed no conflict of interest.*

Wuertz-Kozak, Karin .....*Disclosed no conflict of interest.*

Wunderli, Stefania L. .....*Disclosed no conflict of interest.*

Wyse Jackson, Thomas .....*Disclosed no conflict of interest.*

Wyss, Joe .....*3A*: Depuy Synthes.

Wyss, Joseph.....*3A*: DePuy Synthes.

Xia, Boao.....*Disclosed no conflict of interest.*

Xia, Yunwei.....*Disclosed no conflict of interest.*

Xiancheng, Yu .....*Disclosed no conflict of interest.*

Xiang, William.....*Disclosed no conflict of interest.*

Xiao, Dannier.....*Disclosed no conflict of interest.*

Xiao, Li .....*Disclosed no conflict of interest.*

Xiao, Michelle .....*Disclosed no conflict of interest.*

Xiao, Pengwei .....*Disclosed no conflict of interest.*

Xiao, Wanan .....*Disclosed no conflict of interest.*

Xiao, Yang.....*Disclosed no conflict of interest.*

Xie, Dongxing.....*Disclosed no conflict of interest.*

Xie, Wanqing .....*Disclosed no conflict of interest.*

Xing, Lianping .....*Disclosed no conflict of interest.*

Xing, Yuan.....*Disclosed no conflict of interest.*

Xiong, Liang .....*Disclosed no conflict of interest.*

Xu, Caiqi.....*Disclosed no conflict of interest.*

Xu, Jiajia.....*Disclosed no conflict of interest.*

Xu, Jianrui .....*Disclosed no conflict of interest.*

Xu, Liang .....*Disclosed no conflict of interest.*

XU, Sparrow Hongtao .....*Disclosed no conflict of interest.*

Xu, Tao.....*Disclosed no conflict of interest.*

Xu, Xiaoyu.....*Disclosed no conflict of interest.*

Xu, Yue.....*Disclosed no conflict of interest.*

Xu, Zhongli.....*Disclosed no conflict of interest.*

Yacovelli, Steven.....*Disclosed no conflict of interest.*

Yagi, Haruyo.....*Disclosed no conflict of interest.*

Yagi, Kiyoshi.....*Disclosed no conflict of interest.*

Yahiro, Shunsuke .....*Disclosed no conflict of interest.*

Yakkanti, Ramakanth Reddy.....*Disclosed no conflict of interest.*

Yamada, Hiroshi.....*Disclosed no conflict of interest.*

Yamada, Junichi .....*Disclosed no conflict of interest.*

Yamada, Katsuhisa.....*Disclosed no conflict of interest.*

Yamada, Kazuki.....*Disclosed no conflict of interest.*

Yamaguchi, Jonathan.....*Disclosed no conflict of interest.*

Yamaguchi, Jun .....*Disclosed no conflict of interest.*

Yamaguchi, Ryosuke .....*Disclosed no conflict of interest.*

Yamakawa, Satoshi.....*Disclosed no conflict of interest.*

Yamamoto, Kazuhiro .....*Disclosed no conflict of interest.*

Yamamoto, Noriko.....*Disclosed no conflict of interest.*

Yamamoto, Tetsuya.....*Disclosed no conflict of interest.*

Yamashita, Takahiro .....*Disclosed no conflict of interest.*

Yamashita, Toshihiko.....*Disclosed no conflict of interest.*

Yamaura, Kohei .....*Disclosed no conflict of interest.*

Yamazaki, Kazuhiro.....*Disclosed no conflict of interest.*

Yammani, Raghunatha.....*Disclosed no conflict of interest.*

Yamomo, Geofrey George .....*Disclosed no conflict of interest.*

Yan, Chenxi.....*Disclosed no conflict of interest.*

Yan, Lesan.....*Disclosed no conflict of interest.*

Yan, Ming.....*Disclosed no conflict of interest.*

Yan, Mingming.....*Disclosed no conflict of interest.*

Yang, Baixuan .....*Disclosed no conflict of interest.*

Yang, Cao .....*Disclosed no conflict of interest.*

Yang, Chengyu .....*Disclosed no conflict of interest.*

Yang, Daniel.....*Disclosed no conflict of interest.*

Yang, Daniel S .....*Disclosed no conflict of interest.*

Yang, Fan .....*Disclosed no conflict of interest.*

Yang, Guangpu.....*Disclosed no conflict of interest.*

Yang, Hai Mi.....*Disclosed no conflict of interest.*

Yang, Haru .....*Disclosed no conflict of interest.*

Yang, Irene.....*Disclosed no conflict of interest.*

Yang, Jae.....*Disclosed no conflict of interest.*

Yang, Linjun .....*Disclosed no conflict of interest.*

Yang, Maozhou.....*Disclosed no conflict of interest.*

Yang, Mingrui .....*Disclosed no conflict of interest.*

Yang, Qing.....*Disclosed no conflict of interest.*

Yang, Shuying .....*Disclosed no conflict of interest.*

Yang, Sidong .....*Disclosed no conflict of interest.*

Yang, Wentian .....*Disclosed no conflict of interest.*

Yang, Xinlin.....*Disclosed no conflict of interest.*

Yang, Xu.....*Disclosed no conflict of interest.*

Yang, Yunzhi Peter.....*Disclosed no conflict of interest.*

Yanik, Elizabeth L.....*Disclosed no conflict of interest.*

Yanke, Adam.....*Disclosed no conflict of interest.*

Yanke, Adam B.....*3B*: CONMED Linvatec, JRF Ortho, Olympus; *3C*: PatientIQ, Smith&Nephew, Sparta Biomedical; *4*: PatientIQ; *5*: Arthrex Inc, Organogenesis, Vericel.

Yano, Fumiko.....*Disclosed no conflict of interest.*

Yano, Yuji.....*Disclosed no conflict of interest.*

Yao, Hai.....*Disclosed no conflict of interest.*

Yao, Lutian.....*Disclosed no conflict of interest.*

Yao, Ricky .....*Disclosed no conflict of interest.*

Yao, Wei .....*Disclosed no conflict of interest.*

Yao, Xudong.....*Disclosed no conflict of interest.*

Yao, Zhenyu .....*Disclosed no conflict of interest.*

Yasutaka, Sotozono .....*Disclosed no conflict of interest.*

Yaszemski, Michael J......*Disclosed no conflict of interest.*

Yavuz, Burcin .....*Disclosed no conflict of interest.*

Yazici, Yusuf.....*3A*: All authors are employees and shareholders of Samumed, LLC; *4*: All authors are employees and shareholders of Samumed, LLC.

Ye, Ivan.....*Disclosed no conflict of interest.*

Ye, Tong.....*Disclosed no conflict of interest.*

Yeater, Taylor .....*Disclosed no conflict of interest.*

Yee-Yanagishita, Christian .....*3A*: NuVasive.

Yeh, Chih-Kuang.....*Disclosed no conflict of interest.*

Yellowley, Clare .....*Disclosed no conflict of interest.*

Yeni, Yener.....*Disclosed no conflict of interest.*

Yeni, Yener N .....*Disclosed no conflict of interest.*

Yeo, Ingwon.....*Disclosed no conflict of interest.*

Yeo, Ji hyun.....*Disclosed no conflict of interest.*

Yerden, Rachel.....*Disclosed no conflict of interest.*

Yew, Andy KS.....*Disclosed no conflict of interest.*

Yi, John S.....*Disclosed no conflict of interest.*

Yi, Young-Su.....*Disclosed no conflict of interest.*

Yik, Jasper HN .....*4*: Tesio Pharmaceuticals.

Yin, Xue.....*Disclosed no conflict of interest.*

Ying, Liang.....*Disclosed no conflict of interest.*

Yip, Benjamin Hon Kei .....*Disclosed no conflict of interest.*

Yi-Xian Qin, Yi-Xian .....*Disclosed no conflict of interest.*

Yiyun, Wang.....*Disclosed no conflict of interest.*

Yocum, Lauren .....*Disclosed no conflict of interest.*

Yokoi, Takuya .....*Disclosed no conflict of interest.*

Yokota, Shunichi .....*Disclosed no conflict of interest.*

Yokota, Syunichi .....*Disclosed no conflict of interest.*

Yokota, Yutaka.....*Disclosed no conflict of interest.*

Yoneno, Moe .....*Disclosed no conflict of interest.*

Yoo, Jaehyeon.....*Disclosed no conflict of interest.*

Yoo, Jeong Joon .....*3B*: Corentec company.

Yoon, Jae Youn .....*Disclosed no conflict of interest.*

Yoshida, Aki .....*Disclosed no conflict of interest.*

Yoshihara, Aritoshi .....*Disclosed no conflict of interest.*

Yoshii, Yuichi.....*Disclosed no conflict of interest.*

Yoshikawa, Ryo.....*Disclosed no conflict of interest.*

Yoshikawa, Tomoya.....*Disclosed no conflict of interest.*

Yoshitomi, Hiroyuki .....*Disclosed no conflict of interest.*

Yotsumoto, Tadahiko.....*Disclosed no conflict of interest.*

You, Daniel .....*Disclosed no conflict of interest.*

You, Lidan .....*Disclosed no conflict of interest.*

Young, Isabella Cristina.....*Disclosed no conflict of interest.*

Young, Katherine .....*Disclosed no conflict of interest.*

Young, Katherine A.....*5*: GE Healthcare.

Young, Kathryn .....*Disclosed no conflict of interest.*

Young, Kim Woo .....*Disclosed no conflict of interest.*

Young-Shand, Kathryn .....*Disclosed no conflict of interest.*

Youngstrom, Daniel W .....*Disclosed no conflict of interest.*

Yu, Eric Y. .....*Disclosed no conflict of interest.*

Yu, Fang .....*Disclosed no conflict of interest.*

Yu, Feifan .....*Disclosed no conflict of interest.*

Yu, Ji .....*Disclosed no conflict of interest.*

Yu, Kanglun .....*Disclosed no conflict of interest.*

Yu, Lily .....*Disclosed no conflict of interest.*

Yu, PhD, Qingzhao .....*Disclosed no conflict of interest.*

Yu, Tony .....*Disclosed no conflict of interest.*

Yu, Victoria .....*Disclosed no conflict of interest.*

Yu, Wei .....*Disclosed no conflict of interest.*

Yu, Yan .....*Disclosed no conflict of interest.*

Yu, Yilin .....*Disclosed no conflict of interest.*

Yuan, Huipin .....*3A*: Kuros Biosciences BV; *4*: Kuros Biosciences AG.

Yuan, Huipin .....*3A*: Kuros Biosciences; *4*: Kuros Biosciences.

Yuan, Qiling .....*Disclosed no conflict of interest.*

Yuan, Xiaoning .....*Disclosed no conflict of interest.*

Yue, Li .....*Disclosed no conflict of interest.*

Yuh, Catherine .....*Disclosed no conflict of interest.*

Yuine, Hiroshi .....*Disclosed no conflict of interest.*

Yuki, Issei .....*Disclosed no conflict of interest.*

Yukizawa, Yohei .....*Disclosed no conflict of interest.*

Yun, Chawon .....*Disclosed no conflict of interest.*

Yung, Patrick Shu Hang .....*Disclosed no conflict of interest.*

Yurube, Takashi .....*Disclosed no conflict of interest.*

Yusa, Fumie .....*Disclosed no conflict of interest.*

Yustein, Jason T .....*Disclosed no conflict of interest.*

Zachariou, Venetia .....*Disclosed no conflict of interest.*

Zakko, Philip .....*Disclosed no conflict of interest.*

Zamora, Tomas .....*Disclosed no conflict of interest.*

Zandiyeh, Payam .....*Disclosed no conflict of interest.*

Zannit, Heather M.....*Disclosed no conflict of interest.*

Zapata, Gabriela .....*Disclosed no conflict of interest.*

Zappone, Bruno .....*Disclosed no conflict of interest.*

Zarei, Milad.....*Disclosed no conflict of interest.*

Zaslansky, Paul.....*Disclosed no conflict of interest.*

Zauel, Roger.....*Disclosed no conflict of interest.*

Zawieja, David C .....*Disclosed no conflict of interest.*

Zayyad, Zaid.....*Disclosed no conflict of interest.*

Zbyn, Stefan.....*Disclosed no conflict of interest.*

Zeeman, Martha .....*Disclosed no conflict of interest.*

Zeidan, Michelle .....*Disclosed no conflict of interest.*

Zeineddine, Jasmin Yasmina .....*Disclosed no conflict of interest.*

Zeineddine, Yasmina.....*Disclosed no conflict of interest.*

Zeiter, Stephan .....*Disclosed no conflict of interest.*

Zeldin, Lawrence.....*Disclosed no conflict of interest.*

Zellers, Jennifer A .....*Disclosed no conflict of interest.*

Zengerle, Laura .....*Disclosed no conflict of interest.*

Zgonis, Miltiadis H .....*Disclosed no conflict of interest.*

Zhang, Bin.....*Disclosed no conflict of interest.*

Zhang, Changli .....*Disclosed no conflict of interest.*

Zhang, Chenghao .....*Disclosed no conflict of interest.*

Zhang, Fenglin.....*Disclosed no conflict of interest.*

Zhang, Guofang.....*Disclosed no conflict of interest.*

Zhang, Guoying.....*Disclosed no conflict of interest.*

Zhang, He.....*Disclosed no conflict of interest.*

Zhang, Hengwei .....*Disclosed no conflict of interest.*

Zhang, Hui.....*Disclosed no conflict of interest.*

Zhang, Jiaming .....*Disclosed no conflict of interest.*

Zhang, Jianying .....*Disclosed no conflict of interest.*

Zhang, Jingwei .....*3A*: Stryker.

Zhang, Juncheng .....*Disclosed no conflict of interest.*

Zhang, Kairui.....*Disclosed no conflict of interest.*

Zhang, Lin .....*Disclosed no conflict of interest.*

Zhang, Meng.....*Disclosed no conflict of interest.*

Zhang, Mingcai.....*Disclosed no conflict of interest.*

Zhang, Nianli.....*3C*: ABC company.

Zhang, Ning.....*Disclosed no conflict of interest.*

Zhang, Penghui .....*Disclosed no conflict of interest.*

Zhang, Pu.....*Disclosed no conflict of interest.*

Zhang, Qingteng.....*Disclosed no conflict of interest.*

Zhang, Rachel W .....*Disclosed no conflict of interest.*

Zhang, Shuwei .....*Disclosed no conflict of interest.*

Zhang, Victor.....*Disclosed no conflict of interest.*

Zhang, Weili.....*Disclosed no conflict of interest.*

Zhang, XInping.....*Disclosed no conflict of interest.*

Zhang, Xiurui.....*Disclosed no conflict of interest.*

Zhang, Xu.....*Disclosed no conflict of interest.*

Zhang, Xueying .....*Disclosed no conflict of interest.*

Zhang, Yejia .....*Disclosed no conflict of interest.*

Zhang, Ying .....*Disclosed no conflict of interest.*

Zhang, Yukun .....*Disclosed no conflict of interest.*

Zhang, Zhongying.....*Disclosed no conflict of interest.*

Zhao, Caixia .....*Disclosed no conflict of interest.*

Zhao, Chunfeng.....*Disclosed no conflict of interest.*

Zhao, Ciaxia .....*Disclosed no conflict of interest.*

Zhao, Gang.....*3A*: Ensign Pharmaceutical.

Zhao, Gang.....*3A*: Dr. Zhao is an employee of Ensign Pharmaceutical.

Zhao, Hongbo .....*Disclosed no conflict of interest.*

Zhao, Hu .....*Disclosed no conflict of interest.*

Zhao, Jiwei .....*Disclosed no conflict of interest.*

Zhao, Runze .....*Disclosed no conflict of interest.*

Zhao, Zhifeng .....*Disclosed no conflict of interest.*

Zheng, Guoxing .....*Disclosed no conflict of interest.*

Zheng, Hongjun.....*Disclosed no conflict of interest.*

Zheng, Jiangfeng .....*3A*: University of Houston.

Zheng, Jiangfeng .....*3B*: Stryker.

Zheng, Jie .....*Disclosed no conflict of interest.*

Zheng, Jingyang .....*Disclosed no conflict of interest.*

Zheng, Patricia .....*Disclosed no conflict of interest.*

Zheng, Zhong .....*3A*: Kang Ting, Chia Soo, and Zhong Zheng are inventors on fibromodulin-related patents assigned to UCLA. Kang Ting, Chia Soo, and Zhong Zheng are founders of Scarless Laboratories Inc., which sublicenses.

Zhong, Leilei.....*Disclosed no conflict of interest.*

Zhong, Sylvia.....*Disclosed no conflict of interest.*

Zhong, Xiaodong.....*3A*: Siemens Medical Solutions Inc. USA.

Zhou, Chaochao .....*Disclosed no conflict of interest.*

Zhou, Chao-Ming .....*Disclosed no conflict of interest.*

Zhou, Jiamin.....*Disclosed no conflict of interest.*

Zhou, Libo .....*4*: Yupeng Chen has have stocks from NanoDe Therapeutics, Inc.

Zhou, Yilu.....*Disclosed no conflict of interest.*

Zhou, Zehua.....*Disclosed no conflict of interest.*

Zhu, Andrew .....*Disclosed no conflict of interest.*

Zhu, Angela.....*Disclosed no conflict of interest.*

Zhu, Di .....*Disclosed no conflict of interest.*

Zhu, Jiaqi.....*Disclosed no conflict of interest.*

Zhu, Ling .....*Disclosed no conflict of interest.*

Zhu, Shawn Xiaobo .....*Disclosed no conflict of interest.*

Zhu, Shouan.....*Disclosed no conflict of interest.*

Zhu, Weihong .....*Disclosed no conflict of interest.*

Zhuang, Thompson .....*Disclosed no conflict of interest.*

Ziebarth, Noel.....*Disclosed no conflict of interest.*

Ziemkiewicz, Natalia .....*Disclosed no conflict of interest.*

Zinger, Assaf .....*Disclosed no conflict of interest.*

Zink, Thomas.....*Disclosed no conflict of interest.*

Zitnay, Jared .....*Disclosed no conflict of interest.*

Zlepper, Zach .....*Disclosed no conflict of interest.*

Zlotnick, Hannah M.....*Disclosed no conflict of interest.*

Zojaji, Mahsa .....*Disclosed no conflict of interest.*

Zoppo, Chris.....*Disclosed no conflict of interest.*

Zou, Jun .....*Disclosed no conflict of interest.*

Zou, Trudy.....*Disclosed no conflict of interest.*

Zuckerman, Joseph .....*3B*: Exactech, Inc; *7A*: Exactech, Inc.

Zumsteg, Justin.....*Disclosed no conflict of interest.*

Zwart, Sara R.....*Disclosed no conflict of interest.*

Zwijsen, An .....*Disclosed no conflict of interest.*

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