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Royalties, Financial/Material Support from Research or Institutional Support: No
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Consultant:
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Consultant:
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Consultant:
Sade
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Satish
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1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

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1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No
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1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ;8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

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1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ;8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Denitsa Docheva, PhD
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: Yes DowDupont, Celgene, Biomarin; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ;8 - Serve on Editorial or Governing Board: Yes Matrix Biology; Journal of Experimental Orthopaedics; OA & Cartilage Open 9 - Serve on Board of Directors/Committee: No

George R Dodge, PhD
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: Yes Volt Medical; Cytosorbents, Flexion; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: Yes DowDupont, Celgene, Biomarin; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ;8 - Serve on Editorial or Governing Board: Yes Matrix Biology; Journal of Experimental Orthopaedics; OA & Cartilage Open 9 - Serve on Board of Directors/Committee: No
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1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

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1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: Yes I am a handling editor for Bone 9 - Serve on Board of Directors/Committee: No

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1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

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Marion Fusellier
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Zulma Gazit
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Büşra Gunay
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

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1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Jennifer Gansau
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

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1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No
Yannik Gehlen
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Morgan B Giers, PhD
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Raquel M Goncalves
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Adam P Goode, DPT, PhD
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Sibyle Grad, PhD
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: Yes Graftys SA; 5 - Research or Institutional Support: Yes Expansciences, Biobank, HTL; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: Yes SFBTM, OARSI

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1 – Royalties: Yes calcium phosphate cement-Biomatlas; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: Yes Graftys SA; 5 - Research or Institutional Support: Yes Expansciences, Biobank, HTL; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: Yes SFBTM, OARSI

Sarah E Gullbrand, PhD
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Lisbet Agneta Haglund, PhD
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: Yes Unrestricted research gift from PolyMed Inc for research unrelated to this abstract; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

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1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

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1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

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1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

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1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: Yes Jessica Huang-Gordon, Illumina; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: Yes Ryan Cinalli, Attune; Jessica Huang-Gordon, Illumina; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: Yes Scientific Reports 9 - Serve on Board of Directors/Committee: Yes Womens Leadership Forum

Chun-Yuh Huang, PhD
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

Clark T Hung, PhD
1 – Royalties: Yes from Allosource and in the future from MTF; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: Yes receive cartilage and synovium grafts from MTF; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: Yes see responses to previous queries; 7b - Royalties, Financial/Material Support from Publisher: Yes honorarium from Journal of Orthopedic Research as deputy editor; 8 - Serve on Editorial or Governing Board: Yes Editor for Orthopedic Research & Reviews, Deputy Editor for JOR 9 - Serve on Board of Directors/Committee: No

James C Iatridis, PhD
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: Yes JOR, JOR Spine 9 - Serve on Board of Directors/Committee: Yes ORS, ISSLS

Svenja Illien-Junger, PhD
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No
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James D Kang, MD
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: Yes Own stock in Cardiorobotics (non-orthopaedic), ALung (non-orthopaedic) and OnPoint Surgical (Augmented Reality applications company); 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: Yes Deputy Editor for Spine section of JOR; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: Yes Currently a Director of ABOS

James D Kang, MD
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: Yes Cardiorobotics, ALung, OnPoint (own stock, non any current research); 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: Yes ABOS (Director)

Agnieszka Karol, DVM
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Hagar Kenawy
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Geoffrey J Kerr
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Anas Khanshour
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Mark Kim
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No
Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Katharina Kinslechner
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: Yes Siemens Healthcare and funds handled by the university; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Arunark Kolipaka
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: Yes Siemens Healthcare and funds handled by the university; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Rebecca Kritschil, BS
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: Yes Siemens Healthcare and funds handled by the university; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Tori Kroon, BS
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: Yes Siemens Healthcare and funds handled by the university; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

David Kubosch
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: Yes Siemens Healthcare and funds handled by the university; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Alon Lai, PhD
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: Yes Siemens Healthcare and funds handled by the university; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Gernot M Lang, MD
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: Yes Siemens Healthcare and funds handled by the university; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No
Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Damien Laudier, BS
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Catherine M Le Visage
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Andy J Lee
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Joon Lee
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Juliana Lee
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Naomi N Lee, DVM
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Seunghwan Lee
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No
Frapin Leslie
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Julie Lesoeur
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Victor Y Leung, PhD
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: Yes JOR Spine; Journal of Orthopaedic Surgery; Annals of Orthopedics & Rheumatology 9 - Serve on Board of Directors/Committee: No

Xudong Joshua Li, MD, PhD
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: Yes Young Investigator Editorial Board of the journal “Regenerative Engineering and Translational Medicine 9 - Serve on Board of Directors/Committee: No

Li Li
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Zhen Li, Prof. Dr. Ph.D.
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

David J Lillyman
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No
Tiffany Y Lim
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Johnfredy Loaiza, MS
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Rose Long, PhD
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Stephane Madec
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Neil R Malhotra, MD
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Sai A Mandalapu
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Matthew Mannarino
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No
**Dessislava Z Markova, PhD**

1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

**Samantha Marshall**

1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

**John T Martin, PhD**

1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: Yes I am a paid consultant for DiscGenics, Inc. in Salt Lake City, UT.; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: Yes JOR Spine editorial stipend (I am a co-Editor-in-Chief); 9 - Serve on Board of Directors/Committee: No

**Robert L Mauck, PhD**

1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: Yes JOR Spine editorial stipend (I am co-Editor-in-Chief); 8 - Serve on Editorial or Governing Board: Yes JOR Spine co-Editor-in-Chief; 9 - Serve on Board of Directors/Committee: No

**Emily McDonnell**

1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

**Kyle Meadows**

1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

**Magali Millecamps**

1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No
Shuichi Mizuno, PhD  
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Elise Feng-i Morgan, PhD  
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: Yes Spouse is founder/advisor/board member to several private early stage start-up companies; 3c - Unpaid Consultant: Yes Spouse is founder/advisor/board member to several private early stage start-up companies; 4 - Stock or Stock Options: Yes Several private early stage start-up company investments.; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: Yes Associate Editor of Journal of Biomechanics 9 - Serve on Board of Directors/Committee: No

Grace E Mosley, BS  
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Victoria Mroz  
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Archana B Murali  
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Philip Nasser, MS  
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: Yes ABBV, JNJ, PFE, ABT, BMY, MRK, PG. All holdings are less than 500 shares of each stock.; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Devorah Natelson  
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7 - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No
Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Harrah Newman
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Priya Nyayapati
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Grace Divine O'Connell, PhD
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: Yes Journal of Biomechanical Engineering, PLOS one; 9 - Serve on Board of Directors/Committee: Yes Spine Section Secretary

Conor W O'Neill, MD
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: Yes Relievant, Nocimed; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

David S Owen
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Abhay Pandit, PhD
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: Yes Gecko Biomedical; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: Yes From 31 Medtech companies; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: Yes Editorial boards- Biomaterials; 8 - Serve on Editorial or Governing Board: No; 9 - Serve on Board of Directors/Committee: No

Christopher J Panebianco
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or
Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

John M. Parant, PhD
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Chandreshkumar Patel
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Marianna Peroglio
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Logan M Piening
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Robert Pinelli
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Marta L Pinto
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Vikrant Piprode, Ph.D.
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No
Deepani W Poramba-Liyanage
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Steven Presciutti, MD
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Chaiyapruk Pundee
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Devina Purmessur, PhD
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Diana Quinonez
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Annie Reza
1 – Royalties: No ; 2 - Speakers Bureau: No; 3a - Paid Employee: Yes I am a paid employee of Stryker; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: Yes Stryker stock; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Stephen M Richardson, PhD
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: Yes Treasurer for the UK Tissue and Cell Engineering
Society (TCES). Committee member for Tissue Engineering and Regenerative Medicine International Society (TERMIS) and Programme Chair/lead organiser of the TERMIS EU 2020 conference.

**Makarand Risbud, PhD**
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: Yes Royalty from Springer for editing book "The Intervertebral Disc"; 8 - Serve on Editorial or Governing Board: Yes Matrix Biology Connective Tissue Research; 9 - Serve on Board of Directors/Committee: No

**Bryan D Rynearson, MD**
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

**Aleksandra Sadowska**
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

**Daisuke Sakai, MD, PhD**
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: Yes TUNZ Pharma, Stryker Japan; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: Yes Nippon Zoki Pharmaceutical Ltd.; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: Yes Nippon Zoki Pharmaceutical Ltd.; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: Yes JOR-Spine, Journal of Orthopedic Surgery 9 - Serve on Board of Directors/Committee: Yes JOA, JSSR

**Ana I Salazar Puerta**
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: Yes TUNZ Pharma, Stryker Japan; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

**Radka Saldova**
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

**Dino Samartzis, DSc**
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

**Shani Samuel**
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

**Thomas P Schae, VMD**
1 – Royalties: No Regentec; Accuitive Technologies; Parvizi Surgical Innovation; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: Yes Regentec; Accuitive Technologies; Parvizi Surgical Innovation; 3c - Unpaid Consultant: Yes Allevi, Renexxion, Alcyon; 4 - Stock or Stock Options: Yes Regentec; Accuitive Technologies; Parvizi Surgical Innovation; 5 - Research or Institutional Support: Yes DePuySynthes, Flexion Therapeutics, Camber Spine; 6 - Financial or Material Support from Pharmaceutical or Company: Yes DePuySynthes; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No DePuySynthes; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

**Jordy Schol**
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

**Rosa Serra, Ph.D.**
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

**Ward Shalash**
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

**Jennifer O Shmuukler**
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No
Frances S Shofer
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Lara Ionescu Silverman, PhD
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: Yes DiscGenics, Inc; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: Yes DiscGenics, Inc.; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Stephen R Sloan, MS
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: Yes Merck, Johnson and Johnson; 5 - Research or Institutional Support: Yes Research, Johnson and Johnson; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Harvey E Smith, MD
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: Yes Merck, Johnson and Johnson; 5 - Research or Institutional Support: Yes Research, Johnson and Johnson; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: Yes NASS, ABOS

Lachlan Smith, PhD
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Madeline P Smith
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Sophie Sourice
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No
Gwendolyn Sowa, MD, PhD
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: Yes JOR, PM&R 9 - Serve on Board of Directors/Committee: Yes AAP

Julie E Speer, MS
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Aaron Stoker, PhD, MS
1 – Royalties: Yes Arthrex, Musculoskeletal Transplant Foundation; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Laura S Stone, PhD
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Yi Sun
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Miyako Suzuki
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

Yoshiki Takeoka
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No
### Vivian Tam, PhD
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

### Wai Kit Tam
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

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1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

### Simon Y Tang, PhD
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No

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Remy E Walk  
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Benjamin A Walter, PhD  
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Chao Wang  
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Dong Wang, MD, PhD  
1 – Royalties: No; 2 - Speakers Bureau: No; 3a - Paid Employee: No; 3b - Paid Consultant: No; 3c - Unpaid Consultant: No; 4 - Stock or Stock Options: No; 5 - Research or Institutional Support: No; 6 - Financial or Material Support from Pharmaceutical or Company: No; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No; 7b - Royalties, Financial/Material Support from Publisher: No; 8 - Serve on Editorial or Governing Board: No 9 - Serve on Board of Directors/Committee: No
Linshanshan Wang
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

Minghui Wang
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

Takayuki Warita
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: Yes TUNZ pharma; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: Yes TUNZ pharma; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

Benjamin Werbner
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

Benjamin R Wesorick
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

Jennifer J Westendorf, PhD
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: Yes Thermo BCT; 3c - Unpaid Consultant: Yes Gordian Biotech; 4 - Stock or Stock Options: Yes UBX, MNKD; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: Yes Springer Nature royalties for textbook, J. Bone and Mineral Research honorarium; 8 - Serve on Editorial or Governing Board: Yes J. Bone and Mineral Research 9 - Serve on Board of Directors/Committee: Yes IFMRS

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1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No
Frankie E Wignall, BSc, MRes
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

Frances Williams, MBBS, PhD
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

Beth Winkelstein, PhD
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: Yes SJM Abbott ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: Yes CRC press ; 8 - Serve on Editorial or Governing Board: Yes Editor Journal of Biomechanical Engineering; Associate Editor Spine ; 9 - Serve on Board of Directors/Committee: Yes BMES Board

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1 – Royalties: Yes Stryker Escalate Laminplasty Plate, Meditech Talos Cages ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: Yes Meditech, Medyssey, B&E Fund ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

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<td>Lukas Zebala</td>
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<td>Stephan Zeiter, DVM, PhD, Dipl. ECLAM</td>
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<td>Lawrence Zeldin</td>
<td>Royalties: No</td>
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<td>Jun-Ming Zhang, MD, MSc</td>
<td>Royalties: No</td>
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1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

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1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: No ; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No

Mona Zolfaghar
1 – Royalties: No ; 2 - Speakers Bureau: No ; 3a - Paid Employee: Yes Pharmaceutical and Biomaterial; 3b - Paid Consultant: No ; 3c - Unpaid Consultant: No ; 4 - Stock or Stock Options: No ; 5 - Research or Institutional Support: No ; 6 - Financial or Material Support from Pharmaceutical or Company: No ; 7a - Royalties, Financial/Material Support from Pharmaceutical or Company: No ; 7b - Royalties, Financial/Material Support from Publisher: No ; 8 - Serve on Editorial or Governing Board: No ; 9 - Serve on Board of Directors/Committee: No