

ORS Workshop History - Past Five Years

2026 Workshops	Title	Organizers	Speakers
1	Osteoarthritis doesn't kill you, but...(organized by ICORS)	Kelsey Collins, PhD, Carla Scanzello, MD, PhD	Gillian Hawker, MD, Christopher Little, DVM, PhD, Kelsey Collins, PhD, Carla Scanzello, MD, PhD
2	6 Degree-of-Freedom Robotic In Vitro Joint Testing: Novel Techniques for Answering Clinical Questions	Tara Nagle, PhD, Joshua Roth, PhD	Jeremy Loss, MS, Olivia Dyer, BS, Joshua Roth, PhD, Alex Brady, MS, Mitchell Carlson, MS, Tara Nagle, PhD
3	Advanced concepts of non-union treatment – strengthening transatlantic exchange	Markus Laubach, MD	Britt Wildemann, PhD, Philip Leucht, MD, PhD, Antonia Donat, MD, Esther Wehrle, DVM, PhD, Geoff Richards, Daniel Segina, MD
4	Advancing Standardization in Meniscus Research	Su Chin Heo, PhD, Jenny Robinson, PhD	Chathuraka Jayasuriya, PhD, Amy McNulty, PhD, Andreas Seitz, PhD, Francesco Travascio, PhD, Lawrence Bonassar, PhD,
5	Next generation of Biomedical Devices and Wearables in Orthopedic	Hamid Ghaedina, PhD, Joseph H Schwab, MD	Hamid Ghaedina, PhD, Joseph H Schwab, MD, Christopher Bono, PhD, Darryl G Thelen, PhD
6	Aligning the Future: The Role of Osteotomies for Knee Preservation	Richard Debski, PhD, Anil Ranawat, MD	Brian Godshaw, MD, Richard Debski, PhD, Carl Imhauser, PhD
7	Decoding Musculoskeletal Pain: Advances in Imaging and Translational Tools for the IVD, TMJ, and Knee	Kyle Allen, PhD, Alejandro Almarza, PhD, Dmitriy Sheyn, PhD, Dino Samartzis, DSc	Dino Samartzis, DSc, Dmitriy Sheyn, PhD, Candance Floyd, PhD, Alejandro Almarza, PhD, Hai Yao, PhD, Kyle Allen, PhD, Hang Lin, PhD
2025 Workshops	Title	Organizers	Speakers
1	The physical impact of psychological stress in the musculoskeletal system	John Martin, PhD, Melanie Haffner-Luntzer, PhD	Mary Bucklin, PhD, Melanie Haffner-Luntzer, PhD, Noah Snyder-Mackler, PhD

2	A Workshop in Memory of Terrie Cowley: Bridging the Gaps in Temporomandibular Joint (TMJ) Research	Alejandro Almarza, PhD, Hai Yao, PhD	Beth Winkelstein, PhD, X Lucas Lu, PhD, Hai Yao, PhD, Alejandro Almarza, PhD
3	Are we really studying aging associated OA in our animal models?	Shouan Zhu, PhD	Shouan Zhu, PhD, Michael Juryneec, PhD, Matlock Jeffries, MD
4	Advancing Regenerative Rehabilitation for Muscle Trauma	Koyal Garg, PhD, Michael McClure, PhD; Karina Nakayama, PhD	Fabrisia Ambrosio, PhD, MPT, Thomas Rando, MD, PhD, Christopher Fry, PhD, Hirotaka Iijima, PhD
5	Leveraging Computational Modeling and Simulation within and beyond an Episode of Clinical Care: What will it take	Carl Imhauser, PhD, Fernando Quevedo-Gonzalez, PhD	Snehal Chokhandre, Fernando Quevedo-Gonzalez, PhD, Jeff Bischoff, PhD, Eni Halilaj, PhD
6	Advancing clinical impact of movement analysis and patient activity monitoring combining wearables, AI, computer vision and data-driven approaches (Organized by ICORS)	Bernd Grimm, PhD, David Ackland, PhD	David Ackland, PhD, Dominic Thewlis, PhD, Philippe Dixon, Dphil, Thomas Grupp, PhD
7	Use of Artificial Intelligence and Machine Learning in Orthopaedics: Trends and	Jill Fehrenbacher, PhD, Brady Hislop, PhD	Bhutani, PhD, Thurmon Lockhart, PhD, Melissa Kacena, PhD
2024 Workshops	Title	Organizers	Speakers
1	Orthopaedic Implants Workshop: Translating Machine Learning and Artificial Intelligence Technologies to Enhance Orthopaedic Patient Care	Joshua Roth, PhD, Cheryl Liu, PhD	Clare Fitzpatrick, PhD, Nathan Netravali, PhD, Prem N Ramkumar, MD MBA, Sheldon Davis, MS
2	Tissue Degeneration and Regeneration - Switzerland	Geoff Richards, Martin Stoddart	PhD, Sibylle Grad, PhD, Marcy Zenobi-Wang, Bryan van de Wall, Martin Clauss
3	Not Just Small Adults: Refined juvenile animal models for pediatric musculoskeletal research to improve	Matthew Halanski, MD, Harry Kim, MD	Martha Murray, MD, Michèle Caird, MD, Roger Cornwall, MD, Nancy Hadley-Miller, MD, Brian

4	Combining surgical breakthroughs with cutting-edge research for the good of the meniscus	Andreas Seitz, PhD, Romain Seil, MD	Caroline Mouton, PhD, Hiroyuki Koga, MD, PhD, Graciosa Teixeira, PhD, Henning Madry, MD, Chang Lee, PhD, Aaron
5	Advancements in Metabolic and Compositional Imaging Technologies in Arthritis	Isabel Menendez, DVM, PhD, Feliks Kogan, PhD	Isabel Menendez, DVM, PhD, Valentina Pedroia, PhD, Louis DeFrate, PhD, Feliks Kogan, PhD, Ali Guermazi, MD, PhD
6	Understanding Pain in Musculoskeletal Disease: Molecular and Clinical Insights	Uma Sankar, PhD, Jill Fehrenbacher, PhD	Anne-Marie Malfait, MD, PhD, Mary Barbe, PhD, Lisbet Haglund, PhD, Nancy Lane, MD
2023 Workshops	Title	Organizers	Speakers
1	Advanced techniques to image musculoskeletal tissue and its microenvironment via multiphoton microscopy	Xinping Zhang, PhD, Edward Brown, PhD	Edward Brown, PhD, Xinping Zhang, PhD, Charles Lin, PhD
2	Leveraging Multidisciplinary Expertise to Identify Patients at Risk for OA after	Scott Rodeo, MD, Suzanne Maher, PhD	Robert Brophy, MD, Matthew Koff, PhD, Amy Lerner, PhD,
3	Implementing the 3R principles in fracture healing research: in vitro, in silico and refined in vivo models	Melanie Haffner-Luntzer, Katherine Hixon, PhD	Richard Oreffo, DPhil DSc, Hannah Dailey, PhD, Annemarie Lang, DVM, PhD
4	The Utility of Quantitative MRI in ACL Surgery Postoperative Management	Ata Kiapour, PhD, Braden Fleming, PhD	Ata Kiapour, PhD, Kurt Spindler, MD, Sandra Shultz, PhD, ATC
5	The Role of The Immune System in Tendon Disease	Anne Gingery, PhD, Neal Millar, MD, PhD	Sarah Snelling, Dphil, Stephanie Dakin, PhD, Alayna Loiselle, PhD, Moeed Akbar, PhD
6	Skeletal Mechanobiology: From Fundamentals to Therapeutic Opportunities - Ireland	Fergal O'Brien, PhD, Laoise McNamara, PhD	Fergal O'Brien, PhD, Tom Hodgkinson, PhD, Laoise McNamara, PhD, Niamh Nowlan, PhD, Oran Kennedy, PhD
7	Ankle Osteoarthritis: Toward New Understanding and Opportunities for Intervention	Cesar de Cesar Netto, MD, PhD, William Ledoux, PhD	Amy Lenz, PhD, Jason Wilken, PT, PhD, Mark Easley, MD

8	The Need for Standardized Assessment of Skeletal Muscle Quality, Functional Deficit, and Fatiguability	Yen-Sheng Lin, PhD, Nitin Jain, MD	Kathryn Nightingale, PhD, Hugo Giambini, PhD, Tsung-Yuan Tsai, PhD, Yen-Sheng Lin, PhD, Marco Brotto, PhD
9	New biomaterials and technologies in spine surgery	Gabriela Graziani, PhD	Gianluca Vadala, MD, PhD, Sibylle Grad, PhD, Giovanni Brodano, MD, Gabriela Graziani, PhD, Zak Kemp, PhD
2022 Workshops	Title	Organizers	Speakers
1	Energy Metabolism in Bone and Cartilage	Audrey McAlinden, PhD, Roman Eliseev, MD, PhD	Mitchell Coleman, PhD, Jie Shen, PhD, Michelle Delco, DVM, PhD, Roman Eliseev, MD, PhD,
2	Single cell transcriptomics approaches to analyze musculoskeletal tissues	Ling Qin, PhD, Farshid Guilak, PhD	Farshid Guilak, PhD, Ling Qin, PhD, Benjamin Levi, MD, Jeffrey Moffitt, PhD
3	Unraveling role of cell metabolism and senescence in intervertebral disc health	Makarand Risbud, PhD, Nam Vo, PhD	Makarand Risbud, PhD, Nam Vo, PhD, Lisbet Haglund, PhD,
4	Genome editing for mechanistic insight and treatment of musculoskeletal disorders	Brian Diekman, PhD, Chris Nelson, PhD	Brian Diekman, PhD, Robby Bowles, PhD, Amy Wagers, PhD
5	Preclinical Models of Impaired Fracture Healing	Chelsea Bahney, PhD, Uma Sankar, PhD	Georg Duda, PhD, Melanie Haffner-Luntzner, PhD, Hamish Simpson, DM, Melissa Kacena, PhD, Kent Leach, PhD, Nicole
6	Human cell-derived microphysiological systems: an emerging model for	Stuart Goodman, MD, PhD, Bruce Bunnell, PhD	Danilo Tagle, PhD, Gordana Vunjak-Novakovic, PhD, Alan
7	Education in Orthopaedics	Sonia Bansal, PhD	Joe Towles, PhD, Laurel Kuxhaus, PhD, Jennifer Weiser, PhD
8	Antidepressants for Osteoarthritis?	Fadia Kamal, PharmD, PhD, Reyad Elbarbary, PharmD, PhD, Michael Zuscik, PhD	Beth Winkelstein, PhD, Fadia Kamal, PharmD, PhD, Robert Gallo, PhD

