



Be a Part of the 50th International Musculoskeletal Biology Workshop

The 50th International Musculoskeletal Biology Workshop will take place July 22 - 27 at Zermatt Utah Resort and Spa in Midway, Utah. This workshop will identify problems in musculoskeletal disease and experimental approaches that provide solutions. Concepts debated at the Musculoskeletal Biology Workshops have had, and continue to have, a strong impact on the study of skeletal physiology and disorders. All investigators interested in increasing understanding across the many disciplines that study musculoskeletal and mechano-biology are encouraged to attend.

Session Spotlight

Join us at the 2023 workshop to be a part of this exciting and informative session:

New Insights Into Osteoarthritis Pathogenesis from Single-cell Omic Technologies

Chaired by Gabriela Loots, University of California-Davis, and Including:

- *Introduction to Osteoarthritis: Basic Biology and Clinical Presentation* with Gabriela Loots
- *Synovial Fibroblasts as Key Effector Cells of PTOA* with Tristan Maerz
- *Mapping Cell Populations in Healthy and Osteoarthritic Human Knee Tissues* with Martin Lotz
- *Single Cell Analysis Identifies Strain Specific Differences in Immune Populations Associated with Resistance to PTOA* with Gabriela Loots

The hotel reservation deadline is Monday, June 19. Information on hotel reservations, how to connect with potential roommates, how to share a ride from the SLC airport, and more can be found at the link below.

[Register Today](#)

This Wednesday Join Us for an Online Educational Opportunity from LearnORS



[LearnORS](#) recently launched its 2023 series of Virtual Scientific and Career Development Sessions. **The next session will be this Wednesday, May 3.** Please join us for:



Using i-GONAD and Other Novel Techniques to Rapidly Generate Mouse Models of Human Skeletal Disease

Wednesday, May 3, 2023

12:00 pm – 1:00 pm (Central Time)

Organizers: ORS Preclinical Models Section

Speaker: Megan Michalski, DDS, PhD, Postdoctoral Fellow,
Department of Cell Biology,
Van Andel Institute

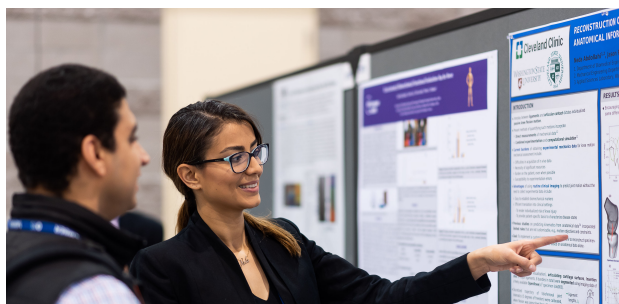
i-GONAD is a gene editing technique that uses CRISPR-Cas9 to modify the DNA of embryos by injecting the gene-editing components directly into the oviduct of a pregnant mouse. This greatly reduces the number of animals needed to generate genetically engineered mouse models and has the potential to be used to develop other model organisms with genetic edits. Dr. Michalski will discuss the i-GONAD method and how it has been used to accelerate her research interests.

[Register for the Session](#)

If you missed the April session, **Novel Turkey Model for Musculoskeletal Research**, you can still access the video at <https://ors.memberclicks.net/vlibrary>.

Those who have an idea for a future Virtual Scientific and Career Development Session should speak with their section or committee leaders about eligibility and the application process.

2024 Awards Applications Open



The Stryker/ORS Women's Research Fellowship promotes women in science by providing an opportunity for a female or non-binary ORS member who is a recent PhD in science or engineering to conduct research in the field of orthopaedic technology. The Fellowship provides one year of support in the amount of up to \$50,000.

[Learn More and Apply](#)

ORS Collaborative Exchange Grants provide



investigators at any stage of their career with an opportunity to visit a research lab for the purpose of collaboration and knowledge exchange.

[Check Your Eligibility](#)

New OREF Grants



ORTHOPAEDIC RESEARCH
AND EDUCATION FOUNDATION

The Orthopaedic Research and Education Foundation (OREF) has recently announced more than \$90,000 in new funding opportunities for research. Grant and award applications are now available for: skeletal metastases, recovery and resident research, and support for travel. Grants and awards range from \$1,500 to \$25,000. For more information or to submit an application, visit the OREF grant programs webpage at the link below.

[Get More Information](#)

Join Us for *Conversations with Kurt*

Conversations with Kurt



ORS members have unique access to raise their questions, comments, and concerns directly to ORS leadership. Each month, ORS Board President, Kurt Hankenson, DVM, MS, PhD presents an informal forum for members to engage directly on important topics, and to ask questions about the ORS and the field of orthopaedic research. Each Conversations with Kurt event will center on a specific topic and offer plenty of opportunity for members to bring up matters that are most important to them.

Members can click the link below to register for the next Conversations with Kurt which will take place May 30 at 10:00 am Eastern.

[Join the Conversation](#)

Mark Your Calendar!

LearnORS Presents

[Using i-GONAD and Other Novel Techniques to Rapidly Generate Mouse Models of Human](#)

[Skeletal Disease](#)

May 3, 2023

12:00 pm Central

[Conversations with Kurt](#)

May 30, 2023

10:00 am Eastern

50th International Musculoskeletal Biology Workshop

[Deadline to Submit Abstracts for Posters](#)

June 2, 2023

[Deadline for Hotel Reservations](#)

June 19, 2023

[50th International Musculoskeletal Biology Workshop](#)

July 22 - 26, 2023 Zermatt Utah Resort & Spa

Midway, Utah

[2023 Clinician Scholar Career Development Program \(CSCDP\)](#)

September 21 - 23, 2023

Rosemont, Illinois

[ORS 2024 Annual Meeting](#)

February 2 - 6, 2024

Long Beach, California

Information and Registration Coming this Summer



Orthopaedic Research Society

9400 W. Higgins Road, Ste. 225

Rosemont, Illinois 60018

(847) 823-5770

ors@ors.org

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