



Fourth Annual CMSR Symposium

September 10, 2014 • Flaum Atrium and Class of '62 Auditorium

Trainee Presentations

Class of '62 Auditorium

8:25 a.m.	Welcome & Introduction	Michael Zuscik, PhD
8:30 a.m.	Development and In Vitro Assessment of Enzymatically-responsive poly(ethylene glycol) Hydrogels for the Delivery of Therapeutic Peptides	Amy Van Hove
8:45 a.m.	A Therapeutic Approach for the Treatment of Peripheral Nerve Crush Injury Using Slow-Release 4-Aminopyridine (4-AP)	Chris Tseng
9:00 a.m.	Depletion of Stem Cells Leads to Loss of Strength Not Size in Neurogenic Atrophied Skeletal Muscle	Wenxuan Liu
9:15 a.m.	EP1 Deletion Enhances Mitochondrial Activity in Mesenchymal Stem Cells and Promotes Osteogenicity	Marina Feigenson
9:30 a.m.	Jagged1 Maintains Bone Homeostasis by Regulating Osteolineage Differentiation	Bisi Lawal
9:45 a.m.	Multiplex Analysis of Serum IgG Against 14 <i>S. aureus</i> Antigens Identifies an Evolutionarily Conserved Host Response and Humoral Immunity Against IsdA and IsdB as Virulence Factors Associated with Death in Patients with <i>S. aureus</i> Deep Musculoskeletal Infection	Kohei Nishitani, MD PhD
10:00 a.m.	Anti-Autolysin Monoclonal Antibodies as a Passive Immunization Against Methicillin-Resistant <i>Staphylococcus aureus</i> (MRSA) Implant-associated Osteomyelitis	Sheila Bello-Irizarry, PhD
10:15 a.m.	Exposure of MSCs to Methacrylate-Based Polymerizations Increases Cellular ROS and Reduces Differentiation Capacity	Michael Hoffman, PhD

11:00 a.m. Poster Session in the Flaum Atrium

Plenary Lectures

Class of '62 Auditorium

1:00 p.m.	In Vivo & In Vitro Evaluation of the Role of Mechanics in Musculoskeletal Diseases	Mark Buckley, PhD
1:40 p.m.	Comparative Aspects of Osteosarcoma: The Translational Bridge	Nicole Ehrhart, VMD
2:20 p.m.	The Gold Standard for Geriatric Fracture Care: The Rochester Model	Stephen Kates, MD

Keynote Presentation

Class of '62 Auditorium

3:15 p.m.	Alternative Bearing Surfaces for Total Joint Replacement Timothy Wright, PhD
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Dr. Timothy Wright is an internationally renowned expert in orthopaedic biomechanics and biomaterials. Dr. Wright is the F.M. Kirby Chair of Orthopaedic Biomechanics & Senior Scientist at Hospital for Special Surgery, Professor of Applied Biomechanics at Weill Medical College of Cornell University, Member of the Biomedical Engineering program at Cornell University, Program Director of a Ruth L. Kirschstein T32 Training Program in Musculoskeletal Science, and Coordinating Director of the NIH-funded Weill Cornell Clinical and Translational Science Center.

