

1st Annual McCaig Meeting Osteoarthritis and Musculoskeletal Diseases

May 2nd 2014
Theater 3, Faculty of Medicine, University of Calgary

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| 8:30-8:50 | Coffee and pastries - Outside Theater 3 |
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| 8:50-9:00 | Welcome |
| 9:00-9:45 | Ali Mobasher , PhD. University of Nottingham. Presenting 'Biomarkers of osteoarthritis: combining omics to identify new markers' |
| 9:45-10:25 | Biomarker / Stem Cells / Inflammation talks Mohammed Alshehri , Inflammatory Biomarker Profiles in Hip Disorders of Young Adults Kelsey Collins , Using Diet Induced Obesity to Understand a Metabolic Subtype of Osteoarthritis in Rats Akash Fichadiya , Does macrophage depletion & cytokine stimulation affect the phenotype of synovial mesenchymal progenitor cells in vitro? |
| 10:25-10:35 | Abstract Talks Nathan Solbak - Molecular responses of the infrapatellar fat pad to idealized anterior cruciate ligament surgery exhibits a diverse function of the tissue to overall joint health and pathology. May Taha - Tracking iron labeled stem cells in bone injury model using MRI |

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| 10:35-10:50 | Coffee Break - Outside Theater 3 |
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| 10:50-11:30 | Imaging / FEM talks Sarah Manske , Towards Establishing the Next Generation of High Resolution Peripheral QCT Scanners for In Vivo Orthopaedic Applications Scott Moorman , Microstructure of Annulus Fibrosus using Ultra High Field MRI: Collagen Crimp Stephen Andrews , Second Harmonic Generation Microscopy: A modality to evaluate meniscal health in preclinical models of osteoarthritis |
| 11:30-11:40 | Imaging / FEM abstract talks Hayley Britz - Additive Genetic Effects on Tibial BMD in Collaborative Cross Mice Charlene Downey - 3-D imaging of tumor vasculature and effects of a vascular disrupting agent using micro computed tomography (micro-CT) |
| 11:40-12:00 | Remaining abstract talks Jill Beveridge - Tibiofemoral Cartilage Thickness Becomes More Homogeneous Following Stifle Injury in Sheep |

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Aubrey Blair-Pattison - Measurement of Spinal Pedicle Cannulation and Breach Forces

Zaheed Damani - Comprehensively evaluating a single-entry model for elective surgery in Winnipeg: a multi-stakeholder national project under the CIHR Evidence-Informed Healthcare Renewal (EIHR) Roadmap Signature Initiative

12:00-13:00 Lunch: Heritage Atrium (By the trees)

13:00-14:30 Poster Session: Heritage Atrium (By the trees)

14:30-15:15 **Gregory Jay, MD, PhD.** Brown University. Presenting 'Biomechanical Rationale of Tribosupplementation by Lubricin'

15:15-15:55 Biomechanics talks

John Bertram, Dynamic optimization clearly shows the determinants of bipedal gaits: reduced gravity predictions and verification

Gregor Kuntze, Error Assessment of markerless 3D tibofemoral displacement quantification using dual fluoroscopy

Taryn Ludwig, Effects of Concentration and Structure on PRG4 Viscosity and Interaction with Hyaluronan

15:55-16:10 Coffee Break - Outside Theater 3

16:10-16:50 Health Policy/Services/Prevention

Stephanie Coupal, Investigating access to arthritis health services for Aboriginal People- A framework for system reform

Jackie Whittaker, Consequences of Knee Joint Injury in Youth Sport and the Implications for Osteoarthritis; A Preliminary Analysis

Deborah Marshall, What could the future hold? Simulating the demand for Osteoarthritis (OA) care in Alberta to plan a sustainable OA care system

16:50-17:00 Closing remarks

17:00-18:00 Take advantage of cash bar at the Faculty of Medicine Friday afternoon social

Thank you!

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