



## SESSION 1D (SUITE): CELLS & REGENERATION I

Room: Pilot

**Chair: Lucie Germain and Seep**

11:00 - 11:15 **RADIOLABELLING OF NANOPARTICLES USING THE RADIOISOTOPE 89ZR FOR IN VIVO BIODISTRIBUTION STUDIES WITH PET IMAGING**

**Myriam Laprise-Pelletier**, Université Laval, Canada  
Mahmoud Omar, Marc-André Fortin

11:15 - 11:30 **INFARCTED HEARTS TREATED WITH METHYLGLYOXAL SCAVENGER-LOADED COLLAGEN HYDROGEL EXHIBIT LESS INFLAMMATION, GREATER VASCULARITY AND IMPROVED FUNCTION**

**Cagla Eren Cimenci**, University of Ottawa Heart Institute, Canada  
Nick Blackburn, Brian McNeill, Manuel Ahumada, Emilio I. Alarcon, Erik Suuronen

11:30 - 12:00 **IMMUNOMODULATION OF INNATE IMMUNE RESPONSES TO BIOMATERIALS**

**Lindsay Fitzpatrick**, Queen's University, Canada  
Laura McKiel, Rosa Comas, Kimberly Woodhouse

## SESSION 2A: FUNCTIONAL POLYMERS II

Room: Suzor

**Chair: Ze Zhang and Andrea Greschner**

14:00 - 14:30 **ORCHESTRATING BONY HEALING WITH MATERIAL SURFACES AND MESENCHYMAL CELLS**

**John E Davies**, University of Toronto, Canada  
RS Liddell, N Khosravi

14:30 - 14:45 **HYPERGLYCEMIA COMPROMISES BONE BY REDUCING MINERALIZED MATRIX PRODUCTION AND DECREASING TISSUE-LEVEL MECHANICAL PROPERTIES**

**Birol Ay**, University of Toronto, Canada  
Kushagra Parolia, Robert Liddell, Yusheng Qui, Giovanni Grasselli, David ML Cooper, John E Davies

14:45 - 15:00 **ULTRALIGHT CONDUCTIVE AND ELASTIC AEROGEL FOR SKELETAL MUSCLE ATROPHY REGENERATION**

**Xingying Zhang**, University of Manitoba, Canada

## SESSION 2B: CELLS & REGENERATION II

Room: Borduas

**Chair: Veronique Moulin and Human Savoy**

14:00 - 14:30 **CONVERGING APPROACHES TO NON-VIRAL GENE DELIVERY**

**Gabriele Candiani**, Université Laval, Canada