



Program: Thursday 31 August

ALL SESSIONS IN AUDITORIUM. Welcome desk open 8:00-12:00

8:00-08:45

Welcoming Coffee (Room: CLUB COUBERTIN I&II)

8:45-09:00

Welcome: Olaia Naveiras, Mara Riminucci

09:00-10:00

Session 1: Developmental origin and properties of bone marrow adipocytes

Chairs: Pierre Hardouin, Tim Schulz

09:00

IS1 Bone marrow adipocytes in hematopoiesis and hematopoietic regeneration

Bo Zhou (Shanghai, China)

09:30

O1 Defining the region-specific functions of bone marrow adipocytes: unexpected lessons from adiponectin and UCP1

Clarissa Craft (Saint Louis, MO, USA)

09:45

O2 Mutation in Tks4 scaffold protein alters the adipogenic differentiation of bone marrow mesenchymal stem/stromal cells

Virag Vas (Budapest, Hungary)

10:00-10:30

Poster pitching

Chairs: Biagio Palmisano, Josefine Tratwal

10:30-11:15

Posters & Coffee (Room: CLUB COUBERTIN I&II)

11:15-12:30

Session 2: Bone marrow adipocytes and hematopoiesis

Chairs: Olaia Naveiras, Françoise Pflumio

11:15

IS2 Adipocytes on stress effects of bone marrow hematopoiesis

Kaiyan Liu (Beijing, China)

11:45

O3 Bone-resident adipogenic cell type is determined by anatomical localization and age

Thomas Ambrosi (Potsdam, Germany)

12:00

O4 Lack of bone marrow adipocytes promotes extramedullary haematopoiesis in lipodystrophic mice

Anne Wilson (Lausanne, Switzerland)

12:15

O5 Bone marrow adipocytes support haematopoietic stem cell survival

Domenico Mattiucci (Ancona, Italy)

12:30-14:00

Lunch and networking coffee (Room: CLUB COUBERTIN I&II)

Program: Thursday 31 August



ALL SESSIONS IN AUDITORIUM

14:00-14:30

An International Society for BMA Research: Introduction

14:30-15:30

Session 3: Endocrine and paracrine regulation of bone marrow adipocytes

Chairs: Maria Moreno-Aliaga, Guillaume Penel

14:30

IS3 Biological control of bone marrow adipose tissue via molecular mechanisms that determine lineage-commitment of mesenchymal stromal cells

Andre van Wijnen (Rochester, MN, USA)

15:00

O6 Regulation of bone marrow adipocytes by the sympathetic nervous system: from bone to brain

Erica Scheller (Saint Louis, MO, USA)

15:15

O7 Unexpected bone marrow adiposity in energy deficit mouse model: investigations on the potential role of corticosterone

Cristophe Chauveau (Boulogne-sur-Mer, France)

15:30-16:15

Posters & Coffee (*Room: CLUB COUBERTIN I&II*)

16:15-17:15

Session 4: Bone marrow adipocytes and bone

Chairs: Mark Horowitz, Beata Lecka-Czernik

16:15

IS4 Identifying secreted factors that regulate bone marrow skeletal (stromal) stem cells commitment to adipocytes versus osteoblasts

Moustapha Kassem (Odense, Denmark)

16:45

O8 Bone Marrow Adiposity in TgRANKL Osteoporosis Mouse Models

Eleni Douni (Athens, Greece)

17:00

O9 PiT2 deficiency results in skeletal phenotype associated with alteration of bone marrow adipose tissue

Sarah Beck (Nantes, France)

17:15-18:15

Debate on the origin of bone marrow adipocytes

Directed Q&A session with:

Mark Horowitz, Moustapha Kassem, Tim Schulz, Bo Zhou

18.15-18.20

Organizational remarks for evening outing

18.20-22.00

Tour of Lavaux with boxed sandwich dinner and wine tasting



Program: Friday 1 September

ALL SESSIONS IN **AUDITORIUM**. Welcome desk open 8:00-12:00

09:00-12:15

Session 5: Technologies and engineering approaches for assessing bone marrow adiposity

Chairs: Marie H el ene Lafage-Proust, Erica Scheller

9:00

IS5 Tools for Assessing Bone Marrow Adipogenesis

Mark Horowitz (Scarborough, ME, USA)

9:30

IS6 Developing a microfluidic human bone marrow on a chip

David Benson Chou (Boston, MA, USA)

10:00

Coffee break (Room: CLUB COUBERTIN I&II)

11:00

O10 Novel microCT contrast agent for three-dimensional simultaneous visualization of the bone, blood vessels and adipose tissue in long bones

Greet Kerckhofs (Leuven, Belgium)

11:15

O11 Revealing the metabolic functions of bone marrow adipose tissue by [18F]-FDG PET/CT imaging

Karla Suchacki (Edinburgh, Scotland)

11:30

O12 Biomimetic engineering of a functional ex vivo human hematopoietic niche

Thibaut Klein (Basel, Switzerland)

11:45

O13 AdipoR1 Deficiency Leads to Low Bone Mass and Increased Bone Marrow Adiposity In Vivo

Aneka Sowman (Oxford, UK)

12:00

O14 Moderate intensity exercise does not prevent bone marrow fat accumulation in a mouse model of chronic food restriction

Nathalie Al Rassy (Boulogne-sur-Mer, France)

12:15-13:00

An International Society for BMA research: Constitutive Assembly

13:00-14:30

Lunch and networking coffee (Room: CLUB COUBERTIN I&II)

Program: Friday 1 September



ALL SESSIONS IN AUDITORIUM

14:30-15:45

Session 6: Bone marrow adiposity and diseases

Chairs: James Edwards, Andre Van Wijnen

14:30

IS7 Bone marrow sites differently imprint dormancy and chemoresistance to T-cell acute lymphoblastic leukemia

Françoise Pflumio (Fontenay-aux-Roses, France)

15:00

O15 Potential role of the Methyl-CpG binding protein MeCP-2 and its related microRNAs in bone marrow-derived mesenchymal stem cell adipogenesis and in marrow adipose

Maria Rita Rippo (Ancona, Italy)

15:15

O16 TGR5 signaling promotes mitochondrial fission and beige remodeling of white adipose tissue

Alessia Perino (Lausanne, Switzerland)

15:30

O17 Obesity affects insulin sensitivity in bone marrow stromal stem cell

Michaela Tencerova (Odense, Denmark)

15:45-16:00

Abstract Awards

16:00-16:15

Closing Remarks