

Program

Wednesday, August 29th, 2018

- 12.30-13.45 **REGISTRATION**
13.45-14.00 **Welcome and introduction**

14.00-16h15 **SESSION I: BONE MARROW ADIPOCYTE BIOLOGY**

Chairs: Eleni DOUNI and Maria J Moreno Aliaga

Invited Lecture 20+5; Oral communication 10+5

- Inv.1 **Clifford Rosen:** Bone Marrow Adiposity in 2018: Changes and Challenges
O1 Bone marrow adipose tissue: white, brown or beige? *Clarissa Craft*
O2 Ovariectomy increases RANKL protein expression in bone marrow adipocytes of C3H/HeJ mice. *Kerensa Beekman*
O3 Bone marrow adiposity in modeled osteoporosis. *Vagelis Rinotas*
Inv.2 **Bram van der Eerden:** Novel approaches to delineate skeletal stem cell commitment towards adipocytes
O4 AdipoQ-cre;Rosa26R201C mice develop a complex skeletal phenotype with different features in cMAT and rMAT regions. *Rossella Labella*
O5 Role of pit2 in bone and adipose tissues inter-communication? *Giulia Frangi*

- 16.15-16.30 **Poster highlights**
16.30-17.00 **Coffee break & Poster session**

WORKING GROUP MEETINGS AND “MEET THE PROFESSOR” I

- 17.00-17.45 **Meet the professor: Clifford Rosen**
Regulated and constitutive BMAT
17.00-18.00 **Meeting of working groups of BMAS**
WG1: Nomenclature / WG3: Biobanking

Thursday, August 30th, 2018

09.00-10h30 **SESSION II: BMA AND CLINICAL TRANSLATION**

Chairs: Clifford Rosen and Julien Paccou

Invited Lecture 20+5; Oral communication 10+5

- Inv.3 **Ann V Schwartz:** Gonadal and pituitary control of BMAT
O6 Effect of Abaloparatide and Teriparatide on marrow adipose tissue in postmenopausal osteoporosis. *Annegreet Veldhuis-Vlug*
O7 Effect of Roux-en-Y gastric bypass on bone marrow adipose tissue and bone mineral density in non-diabetic postmenopausal women. *Kerensa Beekman*

- O8 Greater Bone Marrow Adiposity Predicts Loss of Spine Compressive Strength and Trabecular Bone in Postmenopausal Women. *Gina Woods, Ann Schwartz*
- O9 FSH is positively associated with vertebral bone marrow adiposity in postmenopausal women from the AGES-Reykjavik cohort. *Annegreet Veldhuis-Vlug*

10.30-11.15 **Coffee break & Poster session**

11.15-12.15 SESSION III: BMA IMAGING

Chairs: Olaia Naveiras and Erica Scheller

Invited Lecture 20+5; Oral communication 10+5

- Inv.4 **Sammy Badr:** Imaging bone marrow adiposity in human studies: What is inside my toolbox ? A radiologist's point of view
- O10 Associations between lumbar vertebral bone marrow and paraspinal muscle fat compositions – an investigation by chemical shift-encoding based water-fat MRI. *Nico Sollmann*
- O11 Texture analysis of vertebral bone marrow using chemical shift encoding-based water fat MRI a feasibility study. *Egon Burian*

12.15-13.30 **Lunch & Poster session**

13.30-15.00 SESSION IV: BMA IN HEMATOLOGY AND CANCER

Chairs: Ann Schwartz and Bram van der Eerden

Invited Lecture 20+5; Oral communication 10+5

- Inv.5 **Olaia Naveiras** Bone Marrow Adiposity: A haematologist perspective
~~(**Aline Bozec:** High-Fat Diet and Microbiota Control the Bone Marrow Adipocyte and Hematopoietic Stem Cell Differentiation **Cancelled**)~~
- O12 Targeting BMAT in vivo and in vitro increases efficacy of dexamethasone. *Michaela Reagan*
- O13 Bone marrow adipocytes and hypoxia promote myeloma establishment and progression. *Karin Joehrer*
- O14 Kinetic analysis of mouse stromal cell compartment upon irradiation-induced bone marrow aplasia. *Shanti Rojas-Sutterlin*
- O15 Caloric Restriction and haematopoiesis: is there a role for adiponectin? *Domenico Mattiucci*

WORKING GROUP MEETINGS AND "MEET THE PROFESSOR" II

- 15.15-16.00 **Meet the professor: Ann Schwartz**
BMAT and diabetes (T1 and T2)
~~**Aline Bozec** – Inflammation and bone marrow adipocytes cancelled~~
- 15.15-16.15 **Meeting of working groups of BMAS**
WG2: Methodologies / WG4: Public engagement

16h15-16h45 Coffee break

16.45-18.00 **General assembly of the international BMA Society**

19.00-23.00 **Social events 19h30 Guided Tour of old Lille**

20h45 Dinner at the Carlton Hotel

Friday, August 31st, 2018

08.30-11.30

SESSION V: BMA AND METABOLISM

Chairs: Mara Riminucci and Jeroen van de Peppel

Invited Lecture 20+5; Oral communication 10+5

- Inv.6 **María J Moreno Aliaga:** Dysfunctional adipose tissues in obesity and inflammation: physiological and therapeutic role of specialized pro-resolving lipid mediators
- O16 Absence of insulin resistance in bone marrow stromal stem cells in obesity- lessons from mice to humans. *Michaela Tencerova*
- O17 Investigating glucocorticoids as mediators of increased bone marrow adiposity during caloric restriction. *Andrea Lovdel*
- O18 Bone Marrow Adipocytes in the post-menopausal state show an evolving phenotype that can contribute to altered bone remodeling. *Stephanie Lucas*

09.45-10.15 **Coffee break & Poster session**

- Inv.7 ~~Joanne Rassechaert:~~ Lipids and bone: Friends or foes? **cancelled**
- O19 Bone marrow adipose tissue is molecularly and functionally distinct to white and brown adipose tissue. *Karla Suchacki*
- O20 Peripheral neuropathy contributes to diabetes-induced bone fragility and marrow adipose tissue expansion. *Erica Scheller*
- O21 Influence of obesity and bone marrow adiposity on monocyte development: implications for metabolic disease. *Parastoo Boroumand*

11.30-12.30 SHORT QUESTIONS / SHORT ANSWERS SESSION

Invited speakers answer to attendees' questions asked during the congress to

bma2018@sciencesconf.org

Moderator M. Kassem

Conclusions & Awards

12.30-13.00 Members of the Scientific Board of the BMA Society and Sponsors