

Satellite Meeting

2nd Latin American Symposium on the Molecular Mechanisms of Skeletal Mineralization

June 18-21, 2016 – Natal – RN, Brazil

Organization Committee:

Adriana Augusto de Rezende (UFRN, RN, Br)

Pietro Ciancaglini (FFCLRP-USP, SP, Br) – Coordenador Geral

Willian Fernando Zambuzzi (UNESP-Botucatu, SP, Br)

Tuesday-June 19th, 2016

8:30 am to 10:30 am – Room Genipabu

Symposium 1-Bone, a dynamic and integrating tissue

Chairman: Willian Zambuzzi

Francisco J.A. de Paula, FMRP-USP

Secondary osteoporosis: the role of white and marrow adipose tissues

Katiucia B.da S. Paiva, ICB-USP

Roles of Matrix Metalloproteinases and their Inhibitors on Mesenchymal Stem Cell Biology: focus in osteogenic differentiation

José M. Granjeiro, Instituto Nacional de Metrologia, Normalização e Qualidade Industrial (INMETRO), Life Sciences Applied Metrology (Dimav)/Bioengineering group, Xerém, RJ, Brazil);

Bone Morphogenetic Proteins: Promising Molecules for Bone Healing, Bioengineering, and Regenerative Medicine

Rodrigo C. de Oliveira, Departamento de Ciências Biológicas, FOB-USP

Effects of fluoride during osteoblasts mineralization

11:00 am to 12:00 pm – Room Genipabu

Lecture 1 (Chairman: Pietro Ciancaglini)

Rene Buchet, Université Claude Bernard Lyon 1, Villeurbanne Cedex, France.

Matrix Vesicles: isolation and characterization

1:30 pm to 3:30 pm – Room Genipabu

Symposium 2 –Matrix Vesicles' biomimetics

Chairman: Pietro Ciancaglini

Massimo Bottini, University of Rome Tor Vergata, Rome, Italy

Atomic force microscopy of mineralization-competent matrix vesicle morphology and development

Ana Maria Sper Simão, FFCLRP-USP

Proteoliposomes as matrix vesicles' biomimetics to study biomineralization

Maytê Bolean, FFCLRP-USP

Interactions between collagen matrix and proteoliposomes harboring AnxA5 + TNAP

Tuesday-June 20th, 2016

8:30 am to 10:30 am – Room Genipabu

Simpósio 3 – Ectopic Mineralization and Diseases

Chairman: Willian Zambuzzi and Luciana A.de Rezende

Rodrigo Azevedo de Oliveira, Hospital Universitário Onofre Lopes / UFRN,
Mineral and Bone Disorders After Kidney Transplantation

Andrea Marcia Marcaccini, UNAERP- Ribeirao Preto,
Osseointegration of oral implants and osteoblastogenesis: advanced techniques using Platelet-rich plasma

Vanda Jorgetti, USP / São Paulo
Bone biopsies from patients with chronic diseases: evaluation with and without fracture

11:00 am to 12:00 pm – Room Genipabu

Lecture 2 (Chairman: Willian Zambuzzi)

José Luis Millán, Sanford Burnham Prebys Medical Discovery Institute, La Jolla, California, USA
The role of phosphatases in matrix vesicles-mediated initiation of mineralization in health and disease

1:30 pm to 3:30 pm – Room Genipabu

Symposium 4 – Diabetes mellitus and bone metabolism

Chairman: Adriana A. de Rezende

Sandra Yasuyo Fukada Alves, Faculdade de Ciências Farmacêuticas de Ribeirão Preto – USP
Adipokine chemerin bridges dyslipidemia and bone remodeling

Bento João da Graça Azevedo Abreu, Departamento de Morfologia / UFRN
Metalloproteinases Changes in Diabetes Mellitus: Implications for Collagenous Tissues

Karla Simone Costa de Souza, Programa de Pós-Graduação em Ciências da Saúde-PPGCSa / UFRN
Influence of insulin-like growth factor 1 on bone mineral density of type 1

diabetic patients.

Raul Hernandes Bortolin, Pos-doc PPgCSa / UFRN

Stimulatory effect of zinc on bone formation and mineralization evidenced by molecular and non-molecular analyses

Tuesday-June 21st , 2016

8:30 am to 10:30 am – Room Genipabu

Symposium 5 – Biomaterial/biointerfaces

Chairman: Pietro Ciancaglini

Marcos A. Eufrazio Cruz, FFCLRP-USP

Bioactive coatings based on Langmuir-Blodgett films

Márcio Mateus Beloti, Faculdade de Odontologia de Ribeirão Preto -USP

Intracellular mechanisms involved in the osteogenic potential of titanium with nanotopography.

Joni Augusto Cirelli, Faculdade de Odontologia de Araraquara (FOAr), UNESP, Araraquara-SP

Adipokines effects on the regenerative capacity of human periodontal cells

11:00 am to 12:00 pm – Room Genipabu

Lecture 3- (Chairman: Adriana Rezende)

Marc Hoylaerts, Center for Molecular and Vascular Biology, University of Leuven, Leuven, Belgium.

The role of alkaline phosphatase in vascular calcification.

1:30 pm to 3:30 pm – Room Genipabu

Symposium 6 – Diseases and their consequences in bone metabolism

Chairman: Adriana A. de Rezende

Vera Lucia Gil Lopes, Faculdade de Ciências Médicas, Universidade Estadual de Campinas (FCM-UNICAMP)

Genetic diseases and alterations in bone metabolism

Josivan Gomes de Lima, Hospital Universitário Onofre Lopes / UFRN,

Berardinelli-Seip Syndrome: insulin resistance and bone mineral density

Fellype Barreto, Universidade Federal do Paraná

An update on diabetes and bone metabolism