

MECHANISMS OF AGING-RELATED DISEASES II

21st March 2019

9:30-14:00

Hospital Universitario de A Coruña
(Salón de actos)
15006 A Coruña

SESSIONS

- Regenerative Medicine and Tissue Engineering
- Biomarkers in Degenerative Diseases
- New technologies in Regenerative Medicine

KEYNOTE SPEAKERS:



Richard Oreffo
Faculty of Medicine
University of Southampton, UK



Ron June
Mechanical & Industrial Engineering
Montana State University, USA



Isabel Izquierdo Barba
Faculty of Pharmacy
Universidad Complutense de Madrid, SPAIN

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MECHANISMS OF AGING-RELATED DISEASES II

Scientific Organisers

M^a Carmen de Andrés González, Francisco J. Blanco García

- 9.30-10.00 **Welcome**
- 10.00-11.00 **Session I. Regenerative Medicine and Tissue Engineering**
Moderator: Silvia Díaz Prado
- 10.00-10.45 **“New approaches to skeletal cell based bone regeneration: repair, restore and recreate”**
Keynote Speaker. Richard O. C. Oreffo. Chair of musculoskeletal science and Director of the Centre for Human Development, Stem Cells and Regeneration at the University of Southampton, UK.
- 10.45-11.00 **“Induced pluripotent stem cells: generation, characterisation and applications for osteoarthritis study and treatment”**
Rocío Castro Viñuelas. PhD student. Grupo Terapia Celular y Medicina Regenerativa, INIBIC, A Coruña
- 11.00-12.15 **Session II. Biomarkers in Degenerative Diseases**
Moderator: Cristina Ruiz Romero
- 11.00-11.45 **“Bioengineering approaches to chondrocyte biology and joint disease biomarkers”**
Keynote Speaker. Ronald June. Associate Professor at Mechanical & Industrial Engineering. Montana State University, USA.
- 11.45-12.00 **“Metabolic profiling of osteoarthritic mesenchymal stem cells undergoing chondrogenic reveals alterations in glucuronic acid synthesis pathway”**
Beatriz Rocha. Postdoctoral Research Fellow, Proteomics Group, INIBIC, A Coruña
- 12.00-12.15 **“Identification of Biomarkers of Osteoarthritis associated to Defective Autophagy”**
Irene Lorenzo Gómez, PhD student. Cartilage Biology Group, INIBIC, A Coruña

12.15-12.45 Coffee Break

12.45-13.45 **Session III. New technologies in Regenerative Medicine**

Moderator: Joana Magallanes

12.45-13.30 **“New insights in bone tissue regeneration”**

Keynote Speaker. Dr. Isabel Izquierdo Barba. Department of Chemistry in Pharmaceutical Sciences, School of Pharmacy, Universidad Complutense de Madrid and Networking Research Center on Bioengineering, Biomaterials and Nanomedicine (CIBER-BBN), Madrid, Spain

13.30-13.45 **“An *in vitro* model based on transmitochondrial cybrids to test the role of mitochondrial DNA in osteoarthritis”**

Mercedes Moreno. Postdoctoral Research Fellow, Genomics Group, INIBIC, A Coruña. Centro de investigación biomédica en Red, Bioingeniería, Biomateriales y Nanomedicina (CIBER-BBN).

13.45-14.00 **Closing Symposium**