

# MECHANISMS OF AGING-RELATED DISEASES II

21<sup>st</sup> 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

**More information:** [www.inibic.es](http://www.inibic.es)

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## MECHANISMS OF AGING-RELATED DISEASES II

### Scientific Organisers

M<sup>a</sup> 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**