

This symposium brings together various international and national experts on the latest advances in research into the pathological mechanisms that cause aging-related diseases, and in particular rheumatic diseases. In this edition we will discuss the involvement of mitochondria in the pathophysiology of these pathologies and as a potential therapeutic target. This symposium is aimed at biomedical researchers, health science professionals, and undergraduate and postgraduate students in health sciences and related degrees.

KEYNOTE SPEAKERS



Professor Martin Lotz

The Lotz Lab, The Scripps Research Institute,
La Jolla, San Diego, California, USA.



Nina Krako Jakovljević PhD

Faculty of Medicine, Clinic for Endocrinology,
Diabetes and Metabolic Diseases, Clinical
Center of Serbia, University of Belgrade.



Sandra Bacman PhD

Moraes' Lab, University of Miami Miller
School of Medicine, Department of Neurology,
Miami, Florida, USA.

Scientific Organizers

Elena Fernández Burguera

Ignacio Rego Pérez

Mercedes Fernández Moreno

Francisco J Blanco García

More information:

www.inibic.es



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CHUAC - Complexo Hospitalario
Universitario A Coruña
Xubias de Arriba, 84
A Coruña (A Coruña)

MECHANISMS OF AGING-RELATED DISEASES III

March 2, 2020.

9:45-14:00

Salón de actos del Hospital
Universitario da Coruña
(4th floor)

Francisco J. Blanco García. Director
Científico del Instituto de Investigación Biomédica de
A Coruña (INIBIC)



**10:00-11:00 SESSION I.
MITOCHONDRIA AND
AGING**

Moderator: Beatriz Caramés Pérez. INIBIC, A Coruña

10:00-10:40 Autophagy and mitophagy as key processes associated to ageing.

Keynote Speaker. Martin Lotz, MD PhD
The Lotz Lab, The Scripps Research institute,
La Jolla, San Diego, USA

10:40-10:50 Identification of new Molecules to Treat Joint Aging and Osteoarthritis.

Uxía Nogueira Recalde. PhD
Unidad de Biología del Cartílago, Grupo de
Investigación en Reumatología. INIBIC, A
Coruña

10:50-11:00 Conplastic mice: an animal model to evaluate mitochondrial genome influence on rheumatic diseases.

Francisco J Blanco García. MD, PhD
Director Científico del INIBIC. Grupo de
Investigación en Reumatología, INIBIC, A
Coruña

**11:00-12:00 SESSION II.
MITOCHONDRIAL GENETICS
AND HUMAN DISEASES**

Moderator: María López Armada, INIBIC, A Coruña

11:00-11:40 Mitochondria and Endoplasmic Reticulum Interplay in Alzheimer's Disease and Insulin Resistance.

Keynote Speaker. Nina Krako Jakovljević, PhD
Faculty of Medicine University of Belgrade Clinic
for Endocrinology, Diabetes and Metabolic
Diseases Clinical Center of Serbia

11:40-11:50 Nuclear-mitochondrial interactions in human diseases.

Alejandro Durán Sotuela. PhD student
Unidad de Genómica, Grupo de Investigación en
Reumatología, INIBIC, A Coruña

11:50-12:00 Role of mitochondrial dysfunction in the structural and functional changes of the peritoneal membrane in peritoneal dialysis patients.

Olalla Ramil Gómez. PhD student
Grupo de Envejecimiento e Inflamación, INIBIC,
A Coruña

12:00-12:30 Coffee Break

**12:30-14:00 SESSION III. STRATEGIES TO
TARGET MITOCHONDRIA**

Moderator: Ignacio Rego Pérez and
Mercedes Fernández Moreno, INIBIC, A Coruña

12:30-13:10 Gene editing enzymes to modify mitochondrial DNA.

Keynote Speaker. Sandra Bacman, PhD
Moraes' Lab, University of Miami Miller School of
Medicine, Department of Neurology, Miami, USA.

13:10-13:20 Mitochondrial autotransplantation in cardiovascular diseases.

Victor Bautista Henández, MD PhD
Structural and congenital Heart Disease. University
Hospital A Coruña, INIBIC, A Coruña

13:20-13:40 The innovation office and the Regulation of medicinal products in the European Union.

Yoana Nuevo Ordóñez, PhD
Coordinadora de la Oficina de Innovación, Agencia
Española de medicamentos y productos sanitarios
(AEMPS).

13:40-14:00 Symposium Closing

Francisco J. Blanco García. Director Científico del INIBIC



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