

TOLEDO

9-11 NOVEMBER 2022

HOTEL BEATRIZ



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WEDNESDAY, NOVEMBER 9TH

11:30h Depart from Atocha.

13:00-14:00h Check in and poster set-up.

14:00-15:30h. Lunch

15:30-16:30h. Welcome and Keynote Lecture.

Key players ATG9A and ATG2A in initiation of autophagosome formation.

Dr. Sharon Tooze, Francis Crick Institute, London, UK

16:30-17:30h. Session 1 "Physiological Roles of Autophagy"

Chair Guillermo Velasco

16:30-16:50h. Role of autophagy during cell competition in heart development and regeneration.
Lorena Esteban Martínez

16:50-17:10h. An alternative metabolic link connects glutamine and autophagy to control glutamoptosis.
Mercedes Tomé Montesinos

17:10-17:30h. Post-ER degradation of misfolded GPI-anchored proteins is linked with microautophagy.
Leticia Lemus

17:30-18:00h. Coffee Break

18:00-19:00h. Session 2 "Physiological Roles of Autophagy".

Chair Nadeza Apostolova

18:00-18:20h. Functional differences in microglial and neuronal macroautophagy under proteotoxic stress.
Diego Ruano Caballero

18:20-18:40h. cAMP-Protein Kinase A and Stress-Activated MAP signaling mediate transcriptional control of autophagy in fission yeast during glucose limitation or starvation.
Armando Pérez Díaz

18:40-19:00h. Finding Nemo: discovering novel autophagy modulators with zebrafish.
Adrian Santos Ledo

19:00-20:15h. SEFAGIA General Assembly.

20:30-22:00h. Dinner at hotel

THURSDAY, NOVEMBER 10TH

08:00h. Breakfast

9:00-10:00h. Keynote Lecture "How cells deploy autophagy to protect against bacterial invasion."
Dr. Felix Randow
MRC Laboratory of Molecular Biology, Cambridge, UK.

10:00-11:00h. Session 3.
Chair Raúl Durán

"Physiological Roles of Autophagy"

10:00-10:20h. Photosynthetic assimilation of CO₂ regulates TOR activity.
Manuel Jesús Mallén Ponce

"Autophagy and Disease"

10:20-10:40h. Role of autophagy in the hepatoprotective role of the antiretroviral drug Rilpivirine: when less is more.
Nadezda Apostolova

10:40-11:00h. Selective autophagy plays a protective role against acute and age-related retinal degeneration.
Juan Ignacio Jiménez Loygorri

11:00-11:15h. Group photo.

11:15-12:30h. Coffee break and posters (even ID numbers)

12:30-12:40h. Agilent "Seahorse XF as a tool for mitophagy dysfunction and mitochondrial quality".
Alfredo Caro-Maldonado
Seahorse Product Specialist at Agilent Technologies

12:40-13:40h. Session 4 "Autophagy and Disease".
Chair José Manuel Fuentes

12:40-13:00h. Characterization of the molecular mechanism of autophagy inhibition by HER2.
Jetsy Karina Montero Vergara

13:00-13:20h. Dysregulation of the autophagic-lysosomal pathway in Parkinson's disease associated to GBA.
Eddie Pradas Gracia

13:20-13:40h. Does AMBRA-1 play onco-suppressive functions in skin squamous cell carcinomas?
Estibaliz Gabicagogeascoa Corta

14:00-15:30h. Lunch

15:30-17:00h. Session 5 "Junior PI Symposium and WIA Presentation".
Chair Patricia Boya

15:30-15:50h. Microvascular endothelial cell autophagy regulates neutrophil trafficking in inflammation.
Natalia Reglero Real

15:50-16:10h. Control of mitosis by lysosomes to develop CIN-targeting cancer therapy.
Caroline Mauvezin

16:10-16:30h. Anacardium occidentale extract promotes autophagy and protects against glycolytic stress derived cytotoxicity.
Eloy Bejarano Fernández

16:30-16:50h. A mammalian target of rapamycin-perilipin3 (mTORC1-Plin3) pathway is essential to activate lipophagy and protects against hepatosteatosis.
Marina García Macia

16:50-17:00h. WIA presentation.
Marina García

17:00-18:15h. Coffee Break and posters (odd ID numbers).

18:15-19:15h. Session 6 "Autophagy and Disease"
Chair Ricardo Escalante

18:15-18:35h. Differential process of mitophagy in neurons and astrocytes associated to Parkinson's disease related to α -synuclein.
Isabel Lastres Becker

18:35-18:55h. Deciphering the formation and clearance of glycogen aggregates in Lafora disease.
Jordi Durán Castells

18:55-19:15h. Targeting autophagy vulnerabilities for cancer treatment.
Silvia Vega-Rubin-de-Celis

19:30h. Depart from Hotel.

19:45-20:45h. Guided Tour.

20:55-22:15h. Dinner on your own in downtown Toledo

22:30h. Depart from Toledo to the hotel.

FRIDAY, NOVEMBER 11TH

08:00h. Breakfast

9:00-10:00h. **Keynote Lecture "Of cyclers and proteostasis, the secret life of Ambra1"**
Dr. Francesco Cecconi
University of Rome Tor Vergata, Rome, Italy and Danish Cancer Research Center, Copenhagen, Denmark

10:00-11:20h **Session 7.**
Chair **José Luis Crespo**

"Autophagy and Disease".

10:00-10:20h. Astrocyte-derived small extracellular vesicles exert a protective effect on neuron and astrocytes primary cultures damaged with epoxomicin.
Jesús Alarcón Gil

10:20-10:40h. Diabetes type 3: role of human amylin and therapeutic approaches.
Carlos González-Blanco

"Mechanisms of Autophagy".

10:40-11:00h. Molecular mechanisms of the interaction between the PROPPIN Atg21 and Atg16.
Miranda Bueno Arribas

11:00-11:20h. TP53INP2 regulates selective autophagy.
Saška Ivanova

11:20-12:20h Coffee break and posters

12:20-13:40h

Session 8.
Chair **Marta Martínez**

"Mechanisms of Autophagy".

12:20-12:40h. H₂S regulates selective ER-phagy and mitophagy through persulfidation.
Ángeles Aroca

"Chaperone-Mediated Autophagy"

12:40-13:00h. Chaperone-mediated autophagy controls proteomic and transcriptomic pathways to maintain glioma stem cell activity.
Ander Matheu Fernández

13:00-13:20h. Role of pericytes' chaperone-mediated autophagy in tissue repair after injury/inflammatory damage.
María Dolores Salinas Hidalgo

13:20-13:40h. Dissecting the regulation of CMA in a natural model of impaired glucose homeostasis, the rainbow trout.
Emilio José Vélez Velázquez

13:40-13:50h Concluding remarks.

14:00-15:30h **Lunch**

16:00h Depart to Atocha Station.

Keynote speakers:

Sharon Tooze
Francis Crick Institute, UK.

Felix Randow
LMB, Cambridge, UK.

Francesco Cecconi
Univ. Tor Vergata, Roma y Cancer Research, Denmark.