

Miraflores de la Sierra Madrid

29/31 - October - 2025

La Cristalera



Sponsors



FEBS
openbio

HaploX
Innovating Research Advancing Health

 **SEQC** SOCIEDAD ESPAÑOLA DE
QUÍMICOS COSMÉTICOS

Technical Secretariat



ORGANIZACIÓN EXTREMEÑA DE CONGRESOS
927 629 404 / secretaria@orexco.net



Keynote speakers

Dra. Marja Jäätelä (*Danish Cancer Society Research Center (DCRC), DK*)
Dr. Terje Johansen (*Artic University, NO*)
Dr. Robbie Loewith (*University of Geneva, Suiza*)

Scientific Committee

Guillermo Velasco Díez, *Universidad Complutense de Madrid/IdISSC, Madrid*
José M. Fuentes Rodríguez, *Universidad de Extremadura/CIBERNED, Cáceres*
Marta Martínez Vicente, *VHIR, Barcelona*
Esther Pérez Pérez, *IBVF-CSIC-Universidad de Sevilla, Sevilla*
Felipe X. Pimentel Muños, *CBMSO (CSIC-UAM) Madrid*
Caroline Mauvezin, *Universidad de Barcelona*
Silvia Vega-Rubin-De-Celis, *Institute of Cell Biology (Cancer Research) Essen University Hospital (Germany)*

Organising Committee

Guillermo Velasco Díez, *Universidad Complutense de Madrid/IdISSC, Madrid*
José M. Fuentes Rodríguez, *Universidad de Extremadura/CIBERNED, Cáceres*
Marta Martínez Vicente, *VHIR, Barcelona*
Esther Pérez Pérez, *IBVF-CSIC-Universidad de Sevilla, Sevilla*
Felipe X. Pimentel Muños, *CBMSO (CSIC-UAM) Madrid*
Caroline Mauvezin, *Universidad de Barcelona*
Silvia Vega-Rubin-De-Celis, *Institute of Cell Biology (Cancer Research) Essen University Hospital (Germany)*

Meeting Programme

Wednesday, October 29th

12:30h Depart from Atocha
13:30-14:30h Arrival and check in
14:30-15:30h Lunch
15:30-16:00h OPENING and Welcome
16:00-17:00h **Keynote Lecture 1 "TOR and extrasensory perception"**
Dr. Robbie Loewith (*University of Geneva*)
Chair: José Luis Crespo

17:00-18:40h SESSION I - Mechanisms of Autophagy

Chair: Victoria Sánchez Vera and José Luis Nieto Torres
17:00-17:20h *Endogenous interactomes of MFN1 and MFN2 provide novel insights into interorganelle communication and autophagy (Id45)*
Saska Ivanova
17:20-17:40h *Essential, Non-Canonical Autophagy Drives CD4⁺T Cell Activation by Modulating Co-Stimulatory Signaling (Id12)*
Enric Mocholi Gimeno
17:40-18:00h *Novel potential regulators and roles for Erphagy (Id51)*
Miguel Sánchez Álvarez
18:00-18:20h *The TOR kinase is a central integrator of light and carbon signals in microalgae (Id47)*
José Luis Crespo González
18:20-18:40h *Connecting autophagy, carbon metabolism and redox signaling in the model microalga Chlamydomonas reinhardtii (Id48)*
Samuel Gámez Arcas
18:40-19:10h Coffe Break



19:10-20:30h SESSION II - Physiological Roles of Autophagy

Chair: Eloy Bejarano and Natalia Reglero Real

- 19:10-19:30h** *Autophagy inhibition and nuclear stiffness via lamin A/C overexpression drive divergent CIN biomarker responses in cancer cells (Id2)*
Mireia Bosh Calvet
- 19:30-19:50h** *PRKAR1A liquid condensates: novel regulators of cell morphology via FAM134B (Id4)*
Natalia Jiménez Moreno
- 19:50-20:10h** *The V-ATPase/ATG16L1 axis drives membrane remodeling during epithelial morphogenesis (Id6)*
Tatiana Alfonso Pérez
- 20:10-20:30h** *Autophagy in Endothelial Cells: A Gatekeeper of Immune Homeostasis (Id50)*
Natalia Reglero Real
- 21:00-22:00h** Dinner
22:00h Posters (Posters and Drinks)

Thursday, October 30th

- 08:00h** Breakfast
9:00 - 10:00h **Keynote Lecture 2 "Evolution and Interactions of Selective Autophagy Receptors NBR1 and p62/SQSTM1"**
Dr. Terje Johansen (Artic University)
Chair: Caroline Mauvezin

10:00-11:20h SESSION III - Physiological Roles of Autophagy

Chair: Catalina Ribas Núñez and Saska Ivanova

- 10:00-10:20h** *Study of autophagy role during drought stress resistance in cultivated strawberry (Fragaria x ananassa) (Id19)*
Victoria Sánchez Vera

- 10:20-10:40h** *Endosomal dynamics in the control of adipocyte biology (Id44)*
Núria Borràs Ferré
- 10:40-11:00h** *Role of LC3B phosphorylation in LINE-1 retrotransposon surveillance (Id13)*
Francesco Gabriel Zuccato
- 11:00-11:20h** *AGILENT: Autophagy under the spotlight: multidimensional characterization with Agilent Technologies platforms*
Miriam Contreras Mostazo
- 11:20-12:20h** Coffee break and posters
12:20h Group photo
12:30-14:30h Cultural activity
15:00-16:00h Lunch

16:00-17:40h SESSION IV - Autophagy and Disease_Metabolism & aging

Chair: Marina García and Álvaro Fernández

- 16:00-16:20h** *Effect of basal autophagy activation in the intestine of mice with alcoholic steatohepatitis (ASH) (Id7)*
Marina García Marcia
- 16:20-16:40h** *Decreased expression of Tribbles pseudokinase 3 enhances steatohepatitis and its progression to hepatocellular carcinoma via lipophagy inhibition (Id40)*
Óscar Gutiérrez Jiménez
- 16:40-17:00h** *Reduced systemic autophagy by simultaneous loss of ATG4B, ATG4C and ATG4D leads to accelerated aging in mice (Id1)*
Guillermo Mariño García
- 17:00-17:20h** *From Plants to Longevity: Exploring Redox Phytochemicals in glycooxidation and Autophagy in Aging (Id18)*
Eloy Bejarano Fernández
- 17:20-17:40h** *A new role of autophagy in repeat expansion diseases: modulation of expanded RNAs and RAN peptides in a DM1 model (Id29)*
Alberto Giménez Bejarano



17:40-18:20h Coffe Break

18:20-19:40h SESSION V - Autophagy and disease _Neuro

Chair: Patricia Boya and Cristina Ramírez Hidalgo

18:20-18:40h *LRRK2-G2019S triggers endo-lysosomal disruption in human microglial mediating the switch between degradation and secretion (Id20)*
Aurora Scrivo

18:40-19:00h *Enhancement of mitochondrial quality by acorn cupule extract in models of Parkinson's disease (Id37)*
Nerea Domínguez Rojo

19:00-19:20h *Natural compounds promote neuroprotection via autophagy regulation: insights from in vitro and in vivo models (Id38)*
Mercedes Blanco Benítez

19:20-19:40h *Blurred Vision: How Alcohol Messes with Retinal Autophagy (Id9)*
Cristina Pérez Montes

19:40-20:40h SEFAGIA General Assembly
21:00h Dinner

Friday, October 31st

08:00h Breakfast

9:00 - 10:00h **Keynote Lecture 3 "Lysosomes as targets for cancer therapy"**
Dr. Marja Jäättelä (Danish Cancer Institute)
Chair: Guillermo Velasco

10:00-11:20h SESSION VI - Autophagy and disease _Cancer

Chair: Mar Lorente Pérez and Safa Larafa

10:00-10:20h *A new targetable BAP1-SRC-BECN1-autophagy axis for precision oncology in BAP1-mutant cancers (Id39)*
Silvia Vega Rubin de Celis

10:20-10:40h *Peptide-mediated inhibition of aberrant chaperone-mediated autophagy in pericytes prevents glioblastoma progression through tau secretion (Id5)*
Rut Valor Alonso

10:40-11:00h *MiR-7 rewires autophagy through posttranscriptional inhibition of the SNARE complex. Therapeutic implications in GBM (Id41)*
Virginia Pardo Marqués

11:00-11:20h *Cannabinoids administration enhances the anticancer activity of bevacizumab in preclinical models of glioma (Id34)*
Elena Tovar Ambel

11:20-12:00h Coffee break and posters

12:00-13:20h SESSION VII - Autophagy and disease _Cancer

Chair: Silvia Vega Rubin de Celis and Rut Valor Alonso

12:00-12:20h *Fibroblasts reprogramming by Gαq loss activates an autophagy-secretion axis supporting oral cancer progression (Id49)*
Catalina Ribas Núñez

12:20-12:40h *Role of autophagy in the activation of the peritoneal membrane by colorectal cancer-produced extracellular vesicles as a first step of peritoneal metastasis formation (Id3)*
Federica Michetti

12:40-13:00h *Identification of autophagy-related proteins as modulators of tumorigenesis (Id42)*
Safa Larafa

13:00-13:20h *Characterization of autosis in cancer cell lines (Id24)*
María Guerra Andrés

13:20-14:00h Concluding remarks and awards to best talk and poster
14:00-15:30h Lunch
16:00h Depart to Atocha Station



Keynote speakers

Age- and sex-dependent alterations in hepatic autophagy in C57BL/6J mice (Id17)

José Ignacio García Muñoz

Alternative role of autophagy machinery in C9orf72-associated ALS/FTD (Id27)

Enrique Carretero Morán

Can administration of THC:CBD (1:1) in combination with temozolomide reduce the immunosuppressive microenvironment in glioblastoma via autophagy modulation? (Id33)

Eduarne Mugica Urruzola

Cannabinoid administration as a therapeutic strategy to improve Glioblastoma response to radiotherapy and autophagic inducers (Id32)

Adrián Sanz Gálvez

Ceramide enhances the membrane-fusion activity of LC3/GABARAP autophagy proteins (Id31)

Camila del Cisne Aguirre Medina

Exploring the role of autophagy in the antitumoral effects of an attenuated strain of Salmonella typhimurium (Id21)

Sofía Chilibroste

Functional characterization of ATG4 proteases through comparative analysis of triple knockout models (Id52)

Andrés Corrochano Ruiz

Identification of autophagy-linked genetic determinants of chemoresistance in pancreatic cancer through CRISPR-Cas9 functional genomics (Id15)

Marco Cordani

LC3C N-terminal domain enhances membrane fusion and phagophore growth (Id28)

David Bermejillo

Mitochondrial alterations and impaired mitophagy in the development of insulin resistance: insights from an in vitro muscle model (Id10)

Leo Ortega

Modelling Lysosomal Dysfunction in Parkinson's Disease: Impact of α -Synuclein Fibrils and GBA1 Deficiency (Id43)

Pau Sarle Valles

Modelling Lysosomal Dysfunction in Parkinson's Disease: Impact of α -Synuclein Fibrils and GBA1 Deficiency (Id36)

Javier Ojalvo Pacheco

Paracrine regulation of chaperone-mediated autophagy between glioma stem cells and the peritumoral microenvironment (Id23)

Isabel María Martínez González

SCARB2 and autophagy shape oligodendrocyte response to hypoxia and cerebrovascular disease (Id30)

Ainhoa Plaza

Sex- and age-dependent differences in autophagy in primary human dermal fibroblasts (Id14)

Denisa Mihaela Manastireanu

Spatiotemporal Profiling of Retinal Connexins Across the Lifespan (Id16)

Lucía Gimeno Mallench

The (incipient) search for new autotic markers (Id25)

Alejandra Piedra Macías

The autophagy-inducer QBA enhances mitochondrial metabolism and increases strength in mice (Id35)

Marta Paredes Barquero

The interaction of Atg2 with the PROPPIN Hsv2 contributes to bulk autophagy in yeast (Id22)

Beatriz Monforte Martínez

Unconventional role of ATG16L1 in the control of ATP compartmentalization during apoptosis (Id26)

Julia Bandera Linero