

+ SUMMARY

Lipids are critically important molecules with many essential functions. They are major constituents of all membrane compartments and are key determinants of numerous cellular processes including cell growth and division, mitochondrial energy production, and synapse development and plasticity. Alterations in lipid metabolism have been associated with a range of diseases, including atherosclerosis, metabolic syndrome, type 2 diabetes, cancer, and neurodegenerative diseases. This highly anticipated event will bring together leading researchers to discuss the latest advancements in understanding the impact of lipids on health and disease. Featured talks will focus on the mechanistic importance of lipids in cardiovascular, neurological disorders and metabolic alterations offering new insights into human health. Basic and translational scientists working at IBiS will provide an ideal atmosphere to discuss, collaborate and exchange ideas from fundamental lipid biology to physiological and pathophysiological consequences. Junior scientists and students will have an exciting opportunity to interact and directly learn from leading scientists of the field.

+ VENUE



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Collaborator:



Sponsors:



INTERNATIONAL WORKSHOP 2024 “NEW FRONTIERS IN LIPID METABOLISM”

OCT | 28th - 29th 2024 SEVILLE, SPAIN

**Institute of Biomedicine of Seville
(IBiS)**

+ ORGANIZERS

MATILDE BUSTOS DE ABAJO
Institute of Biomedicine of Seville (IBiS), Spain

CARLOS FERNÁNDEZ-HERNANDO
Yale University School of Medicine, USA

+ DEADLINE for application

Apply early and before October 4th 2024
Places are limited. Registration is free.

More information & registration:
www.ibis-sevilla.es



+ Monday OCT | 28th 2024

08:45 h. Registration

09:15 h. Welcome by organizers and IBiS Director

09:30 h. IBiS Distinguished Investigator Award Ceremony

10:00 h. IBiS Distinguished Investigator Lecture -

Helen H. Hobbs (UT Southwestern Medical Center, USA) "Genetic Susceptibility to Steatotic Liver Disease".

11:00 h. Coffee

11:30 h. New Insights into the Regulation of Cellular Lipid Metabolism

Chair: Estela Area-Gómez

- 11:30 h. - 12:00 h. Elina Ikonen (University of Helsinki, Finland)
"Cholesterol esterification and neutral lipid flux in the ER".

- 12:00 h. - 12:30 h. Tobias Walther (Memorial Sloan Kettering Cancer Center, USA) "From Stereochemistry to Neuroprotection: Lysosomal lipid metabolism in the brain".

- 12:30 h. - 13:00 h. Carlos Fernández-Hernando (Yale University School of Medicine USA) "Macrophage phospholipid metabolism in vascular inflammation and atherosclerosis".

13:00 h. Round Table Discussion

13:30 h. Lunch

14:30 h. Liver Metabolism: MASLD and MASH

Chair: Matilde Bustos de Abajo

- 14:30 h. - 15:00 h. Leanne Hodson (University of Oxford, UK) "The ins and outs of liver fat metabolism".

- 15:00 h. - 15:30 h. Patricia Aspichueta (University of País Vasco, Spain) "Targeting lipid metabolism to protect against the progression of MASLD: a step towards personalized medicine".

- 15:30 h. - 16:00 h. Gerald I. Shulman (Yale University School of Medicine, USA) "Targeting hepatic mitochondria to treat MASLD/MASH and cardiometabolic disease".

16:00 h. Round Table Discussion

16:30 h. Short Break

16:45 h. Brain Lipid Metabolism

Chair: Rafael Fernández Chacón

- 16:45 h. - 17:15 h. Joachim Herz (UT Southwestern Medical Center, USA) "ApoE and the Aging Brain".

- 17:15 h. - 17:45 h. Estela Area-Gómez (Center for Biological Research (CIB) - Margarita Salas, CSIC, Spain)
"The role of MAM in the regulation of lipid metabolism".

17:45 h. Round Table Discussion

+ Tuesday OCT | 29th 2024

09:30 h. Lipid Metabolism in Cardiovascular Disease

Chair: Carlos Fernández-Hernando

- 09:30 h. - 10:00 h. Ira J. Goldberg (New York University School of Medicine, USA) "Endothelial Cell Lipoprotein uptake Mediates Atherosclerosis".

- 10:00 h. - 10:30 h. Zoltan P. Arany (University of Pennsylvania, USA) "Fat transport across the endothelium: implications in heart failure and metabolic syndrome".

- 10:30 h. - 11:00 h. Marit Westerterp (University of Groningen, Netherlands) "Smooth muscle cell cholesterol efflux pathways, vascular function, and atherosclerosis".

11:00 h. Round Table Discussion

11:30 h. Farewell