

## Mitochondria and Metabolism in Health and Disease 10<sup>th</sup> Annual MetNet International Meeting

Institut d'Estudis Catalans (IEC)  
Carrer del Carme, 47, 08001 Barcelona.  
Barcelona, October 24th-25th, 2024

Thursday October 24<sup>th</sup>

8:15-9:00 **Registration**  
9:00-9:15 **Welcome**

### Session 1: Mitochondria and metabolism in immunology: Chair Mariona Guitart

- 9:15 - 9:45 **Albert Pol**, ICREA-IDIBAPS-UB, Barcelona, Spain.  
*Defensive-lipid droplets: Cellular organelles designed for antimicrobial immunity.*
- 9:45- 10:15 **Stephanie Wculek**, IRB, BIST, Barcelona, Spain.  
*Metabolic Dependencies of Innate Immune Cells.*
- 10:15-10:30 **Short talk selected from Abstracts.**

### Sponsor session: Methodologies to measure Mitochondrial function and Metabolism

- 10:30-10:55 **Miriam Contreras and Alfredo Caro-Maldonado**, Agilent Technologies, Spain.  
*Improvements in sensitivity and flexibility in measurements of mitochondrial function*
- 10:55-11:20 **Mike Lu**, Lucid Scientific, USA  
*Resipher, a new non-invasive method to measure mitochondrial oxygen consumption.*
- 11:20 -12:15 **Coffee & refreshments**

### Session 2: Mitochondria and metabolism in ageing and age-related diseases: Chair Josep Julve

- 12:15-12:45 **Laura Formentini**, CBM-CSIC-UAM, Madrid, Spain.  
*Substrate-dependent mitochondrial efficiency: a new metabolon*
- 12:45-13:15 **Laurent Martinez**, IM2C-INSERM, Toulouse, France.  
*Energizing Aging Research: Mitochondrial Bioenergetics for Biomarker and Target Discovery in the Inspire-T cohort.*
- 13:15-13:30 **Short Talk Selected from Abstracts.**
- 13:30-15:30 **Posters of Sessions 1 and 2 + Finger food lunch at Poster Hall**

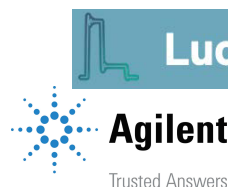
### Session 3: Inherited mitochondrial and metabolic diseases: Chair Mariona Guitart

- 15:30-16:00 **Albert Quintana**, UAB, Barcelona, Spain.  
*Parallel cell-type specific neurodegenerative pathways in mitochondrial disease.*
- 16:00-16:30 **Yolanda Cámara**, Vall D'Hebron Institut de Recerca, Barcelona, Spain  
*In vivo role of accessory subunit NDUFA10 beyond stabilization of respiratory complex I*
- 16:30-16:45 **Short Talk Selected from Abstracts.**
- 16:45-18:45 **Poster of Sessions 3 and 4 + Refreshments at Poster Hall**

### Sponsors (15/06/2024)



<https://www.biologists.com>



Frontiers in **Physiology**

Friday October 25<sup>th</sup>

**Session 4: Mitochondria and metabolism in metabolic associated liver disease:** Chair Josep Julve

- 9:15-9:45 **Joan Clària**, Clínic-UB, Barcelona, Spain.  
*Mitochondrial Dysfunction in Chronic Liver Disease.*
- 9:45-10:15 **José Antonio Enríquez**, CNIC, Madrid, Spain.  
*Mitochondria in the aged liver.*
- 10:15-10:45 **Giorgia Benegiamo**, Laboratory of Integrative Systems Physiology, EPFL, Switzerland  
*The genetic background shapes the susceptibility to mitochondrial dysfunction and NASH progression*
- 10:45-11:45 **Coffee & refreshments**

**Session 5: Celebrating Prof. Atan Gross with new mechanisms of mitochondria and metabolism regulation I:**

Chair Marc Liesa

- 11:45-12:15 **Orian S. Shirihai**, UCLA, Los Angeles, USA.  
*The Social life of mitochondria within the cell, exclusive clubs and dynamic networks.*
- 12:15-12:45 **Antonio Zorzano**, UB, IRB, Barcelona, Spain.  
*Mitochondrial dynamics and inflammation.*
- 12:45-13:15 **Luca Scorrano**, University of Padova, Padova, Italy  
*Keeping mitochondria in shape, a matter of life and death*
- 13:15-13:30 **Short Talk selected from Abstracts.**
- 13:30-15:30 **Posters of Sessions 4, 5 and 6 + Finger food lunch at Poster Hall**

**Session 6: Celebrating Prof. Atan Gross with new mechanisms of mitochondria and metabolism regulation II:**

Chair Marc Liesa

- 15:30-16:00 **Ana Victoria Lechuga Vieco**, University of Oxford, UK.  
*Mitochondrial heterogeneity: friend or foe?*
- 16:00-16:30 **Maria E. Solesio Torregrosa**, Rutgers University, New Jersey, USA.  
*Inorganic polyphosphate and mammalian metabolism*
- 16:30-17:00 **Heidi McBride**, McGill University, Montreal, Quebec, CA  
*Mitochondrial vesicles in immunology and evolution*
- 17:00-17:15 **Short Talk selected from Abstracts**
- 17:15-17:45 **Concluding remarks and farewell.**

**Talks 25' + 5' questions; Sponsor talks 20' + 5' questions**  
**Short talks 10' + 5' questions**

**6 hours for poster sessions, networking and eating together.**

**Organizing Committee:** Josep Julve, Institut de Recerca Sant Pau, [jjulve@santpau.cat](mailto:jjulve@santpau.cat),  
Mariona Guitart, IDIBAPS-Hospital Clínic-UB, [mnguitart@recerca.clinic.cat](mailto:mnguitart@recerca.clinic.cat)  
Marc Liesa, IBBM, CSIC, [mlrbmc@ibmb.csic.es](mailto:mlrbmc@ibmb.csic.es)  
**Secretariat:** Mariàngels Gallego. SCB-IEC. [scb@iec.cat](mailto:scb@iec.cat)

**Endorsed by:**

 **DEM**  
CENTRO DE INVESTIGACION BIOMEDICA EN RED  
Diabetes y Enfermedades Metabólicas Asociadas

**Sponsors (15/06/2024)**



 UNIVERSITAT DE  
BARCELONA

Facultat de Farmàcia  
i Ciències de l'Alimentació



FACULTAT DE  
FARMÀCIA



The Company of  
**Biologists**

<https://www.biologists.com>



**Agilent**

Trusted Answers



**frontiers**

Frontiers in **Physiology**