





# Mitochondria and Metabolism in Health and Disease 10th 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>

11:20 -12:15

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: Chair Marc Liesa

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.

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

Coffee & refreshments

12:15-12:4	5 Laura Formentini, CBM-CSIC-UAM, Madrid, Spain. Substrate-dependent mitochondrial efficiency: a new metabolon.	
12:45-13:1	5 Laurent Martinez, IM2C-INSERM, Toulouse, France. Energizing Aging Research: Mitochondrial Bioenergetics for Biomarker and Target Discovery in a Inspire-T cohort.	
13:15-13:3	0 Short Talk Selected from Abstracts.	
13:30-15:3	0 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, CIBERER, 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 (19/08/24):















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# Friday October 25<sup>th</sup>

# THE EMBO KEYNOTE LECTURE

9:00-9:45 **José Antonio Enríquez,** CNIC, CIBERFES, Madrid, Spain.

Mitochondria in the aged liver.

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

9:45-10:15	Joan Clària, Clínic-UB, CIBEREHD, Barcelona, Spain.
	Mitochondrial Dysfunction in Chronic Liver Disease

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

11.43-12.13 <b>Ullali 3. 3111111ai.</b> UCLA. LUS Allucies. US	11:45-12:15	Orian S. Shirihai, UCLA, Los Angeles, USA
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The Social life of mitochondria within the cell, exclusive clubs and dynamic networks.

12:15-12:45 Antonio Zorzano, UB, IRB, CIBERDEM, 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 IRR	BIST, Barcelona, Spain	
10.00-10.00	Alia Victoria Eccitada	VICCO. II VD.	DIOT. Darociona, obain	

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 **Atan Gross**, Weizmann Institute, Rehovot, IL.

The metabolic side of apoptosis.

17:45-18:00 Concluding remarks

Organizing Committee: Josep Julve, Institut de Recerca Sant Pau, Barcelona (Spain), CIBERDEM, jjulve@santpau.cat

Mariona Guitart, IDIBAPS-Hospital Clinic-UB, Barcelona (Spain), CIBERER, mguitart@recerca.clinic.cat

Marc Liesa, IBMB, CSIC, Barcelona (Spain), CIBERDEM, mlrbmc@ibmb.csic.es

Secretariat: Mariàngels Gallego, Paqui Lorite, SCB-IEC, Barcelona (Spain), scb@iec.cat

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