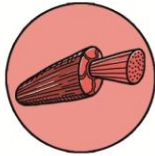


12TH ANNUAL METNET INTERNATIONAL MEETING
**FROM METABOLIC CROSSTALK TO
THERAPEUTIC INNOVATION**



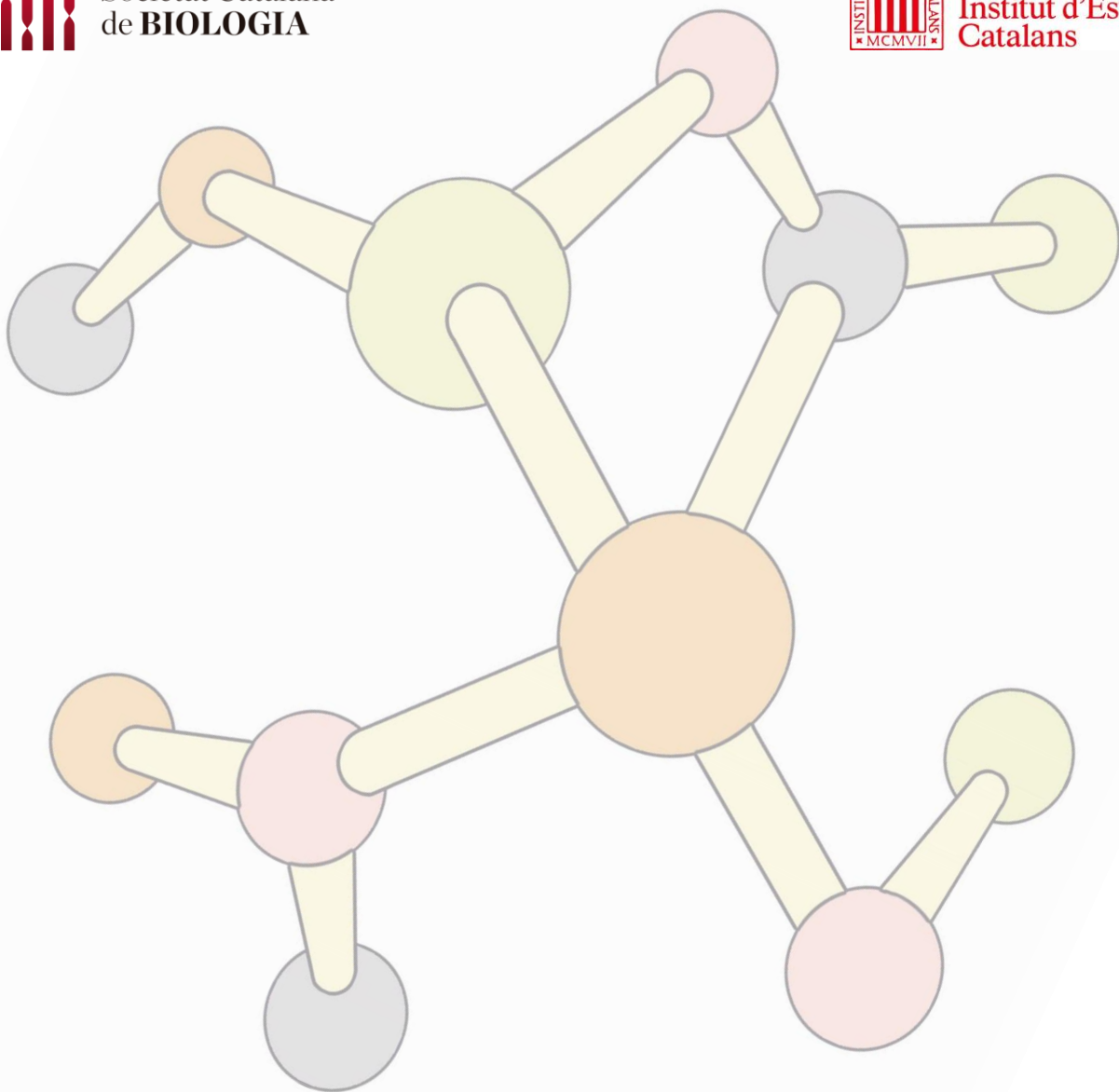
BARCELONA, SPAIN
OCTOBER 29-30, 2026



Societat Catalana
de **BIOLOGIA**



IEC
Institut d'Estudis
Catalans



metnet



DAY 1 | 29th October 2026

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

9:00-9:15 **Welcome**

Session 1 | Adipose tissue-islet communication: mechanisms and therapeutic insights | Chair: Rebeca Fernandez

9:15 - 9:45 **Estela Lorza Gil**, Institute for Diabetes Research and Metabolic Diseases of the Helmholtz Center Munich at University of Tübingen (IDM), Germany.

Title: Molecular crosstalk between pancreatic adipose tissue and islets

9:45- 10:15 **Fawaz Alzaid**, INSERM Institut Necker, Paris, France

Title: Energetic and transcriptional control of inflammation in diabetes

10:15-10:45 **Short talks session selected from abstracts and flash poster presentations**

10:45–11:15 **Coffee Break + Sponsor stands**

The EMBO Keynote Lecture

11:15–12:00 - EMBO Keynote speaker: **Susanne Mandrup**, University of Southern Denmark, Denmark

Title: Adipose tissue plasticity at single cell resolution

Session 2 | Adipose tissue crosstalk across the lifespan and sexual dimorphism | Chair: Marijana Todorčević

12:00-12:30 **Fredrik Karpe**, University of Oxford, United Kingdom

Title: Metabolic fuel trafficking as signals for tissue metabolic homeostasis

12:30-13:00 **Kathrin Landgraf**, University of Leipzig, Germany

Title: Drivers of adipose tissue dysfunction during the development of obesity in children

13:00–15:00 **Finger food lunch + Sponsor stands**

14:00: **Visit to the Royal Academy of Medicine of Catalonia** (Optional; prior registration required)

Session 3 | Advanced methodologies in metabolic research | Chair: Chair: Joel Montané

15:00–16:30 - Industry & Technology Session

-**Advanced Imaging Solutions:** Spatial Biology and Multiplexing (Leica microsystems)

-**AI Tools in Biomedical Research:** From prediction to prevention: lessons from 20 years of digital phenotyping and AI in translational medicine (Aleksandar Matić, Koa Health)

-**Omics & Bioinformatics:** Inflammation-induced chromatin remodeling reveals beta cell vulnerabilities (Lorenzo Pasquali, Universitat Pompeu Fabra, Spain)

-**3D Biology 2.0:** Innovación, aplicaciones y casos prácticos con Seahorse, xCELLigence eSight y Cytation (Agilent)

16:30-17:00 **Short talks session selected from abstracts**

17:00-19:00 **Wine & cheese networking reception**



DAY 2 | 30th October 2026

Session 4 | Novel therapies for metabolic and rare diseases | Chair: Marijana Todorčević

09:00–09:30 **Jorge Ivan Álvarez**, University of Pennsylvania, USA

Title: Neurovascular Metabolic Susceptibility in a Human Genetic Model of Psychiatric Disease

9:30–10:00 **Cristina Fornaguera**, IQS, Universitat Ramon Llull, Spain

Title: Engineering RNA Nanomedicines for Rare Vascular-Metabolic Diseases

10:00–11:00 **Short talks session selected from abstracts**

11:00–11:30 **Coffee & refreshments + Workshops + Sponsor stands**

Session 5: Fuel flux and organ dialogues: brown adipose tissue, liver and pancreas | Chair: Rebeca Fernandez

11:30–12:00 **Ángela Valverde**, Instituto de Investigaciones Biomedicas Sols-Morreale (Centro Mixto CSIC-UAM) and CIBERDEM (ISCIII), Madrid, Spain.

Title: Inter-organ crosstalk in metabolic reprogramming induced by incretin multiagonism to tackle obesity and co-morbidities

12:00–12:30 **Francesc Villarroya**, Universitat de Barcelona, Spain. Novogene Technology Olink

Title: Brown adipose tissue: a hub in interorgan cross-talk controlling metabolism

12:30–13:30 **Short talks session selected from abstracts and flash poster presentations**

13:30–15:00 **Finger food lunch + Sponsor stands**

14:00: **Visit to the Royal Academy of Medicine of Catalonia** (Optional; prior registration required)

Session 6: Lifestyle, environment and metabolic health | Chair: Joel Montané

15:00–15:30 **Javier Botella**, University of Lausanne, Switzerland

Title: Mitochondrial regulation in human skeletal muscle: the role of exercise intensity

15:30–16:00 **David Sebastián**, Universitat de Barcelona, Spain

Title: Temporal mapping of mitochondrial fitness in obesity-related metabolic disease

16:00–17:00 **Short talks session selected from abstracts**

17:00–17:30 **Concluding remarks and farewell**



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Organizing Committee: Rebeca Fernández (IDIBAPS, CIBERDEM), Joel Montané (Blanquerna, URL), Marijana Todorčević (UB, CIBEROBN)

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

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