12TH ANNUAL METNET INTERNATIONAL MEETING

FROM METABOLIC CROSSTALK TO THERAPEUTIC INNOVATION

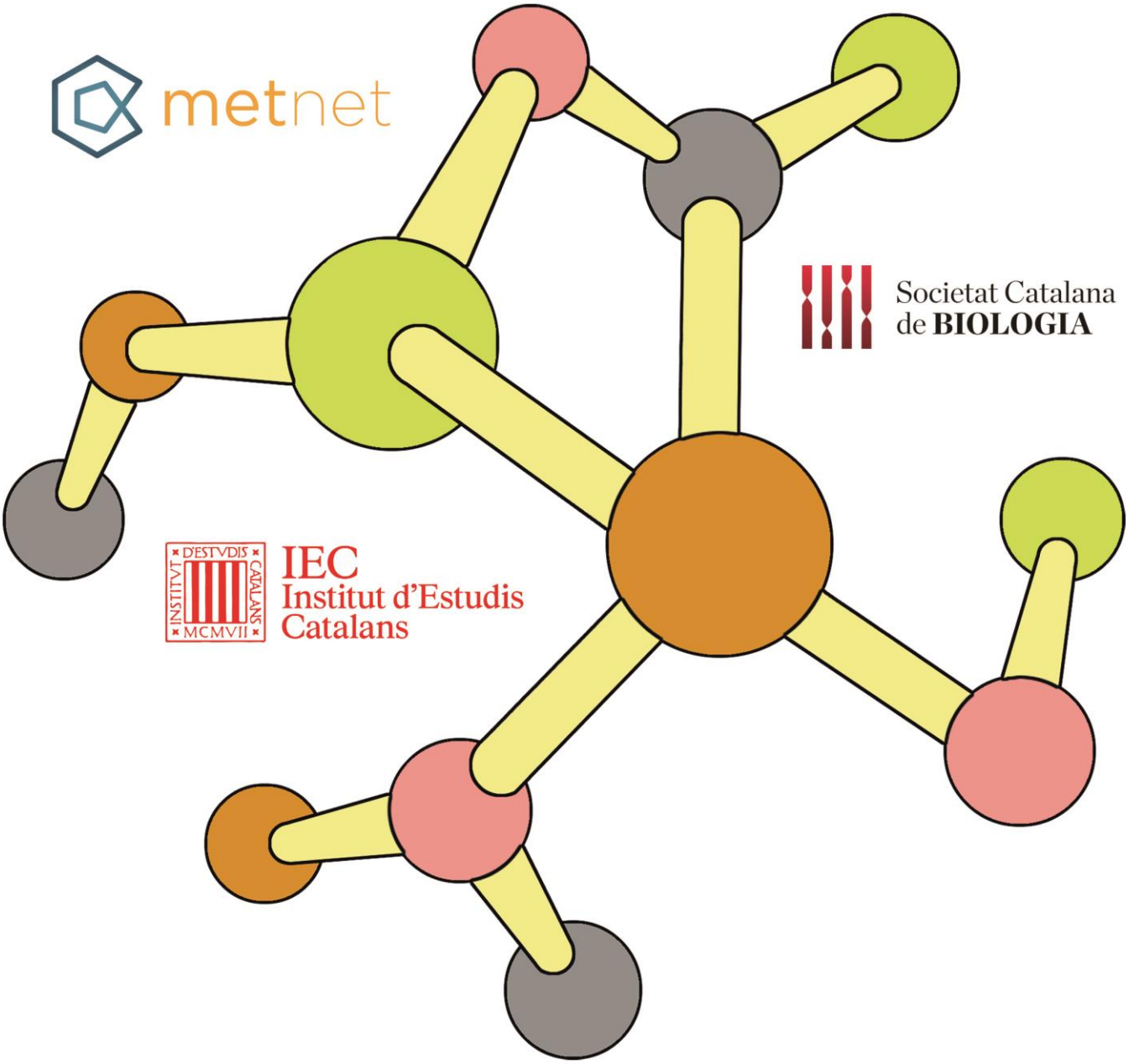
BARCELONA, SPAIN

OCTOBER 29-30, 2026

metnet

Societat Catalana de BIOLOGIA

IEC Institut d'Estudis Catalans



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.
Tittle: Molecular crosstalk between pancreatic adipose tissue and islets
9:45- 10:15 **Fawaz Alzaid**, INSERM Institut Necker, Paris, France-Dasman Diabetes Institute, Kuwait City, Kuwait.
Tittle: 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
Tittle: Adipose tissue plasticity at single cell resolution

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

12:00-12:30 **Fredrik Karpe**, University of Oxford, United Kingdom
Tittle: Metabolic fuel trafficking as signals for tissue metabolic homeostasis
12:30-13:00 **Kathrin Landgraf**, University of Leipzig, Germany
Tittle: Drivers of adipose tissue dysfunction during the development of obesity in children

13:00–15:00 **Finger food lunch + Sponsor stands**
14:00: V**isit 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 Matic,** 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 Todorcevic*

09:00–09:30 **Jorge Ivan Álvarez,** University of Pennsylvania, USA
Tittle: Neurovascular Metabolic Susceptibility in a Human Genetic Model of Psychiatric Disease
9:30–10:00 **Cristina Fornaguera,** IQS, Universitat Ramon Llull**,** Spain
Tittle: 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 **Marta Giralt Oms**, Universitat de Barcelona, Spain. *Novogene Technology Olink*
Tittle: Brown adipose tissue: a source of metabolic regulators.

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
Tittle: Mitochondrial regulation in human skeletal muscle: the role of exercise intensity
15:30–16:00 **David Sebastián,** Universitat de Barcelona, Spain
Tittle: 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**

Organizing Committee: Rebeca Fernández (IDIBAPS, CIBERDEM), Joel Montané (Blanquerna, URL), Marijana Todorcevic (UB)
Secretariat: Maria Àngels Gallego and Paqui Lorite, SCB-IEC, Barcelona (Spain): scb@iec.cat

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