

# 7<sup>th</sup> MetNet International Annual Meeting 2021 Multifaceted Metabolism in Human Disease

October 8<sup>th</sup>, Barcelona

9:00-9:15h Welcome and presentation

## Session 1. Immunometabolism and metaflammation

9:15h Max Mazzone (Center for Cancer Biology, Leuven, Belgium)

**Harnessing tumor metabolism to overcome immunosuppression: A novel way to enhance the success of cancer immunotherapy**

9:45h Jan Van den Bosche (Amsterdam UMC, Vrije Universiteit Amsterdam)

**Metabolic control of macrophages**

10:15h Marta Bosch (University of Barcelona, Spain)

**Mammalian lipid droplets are innate immune hubs controlling host defense and immunometabolism**

10:45h Short talks from selected abstracts:

**Marjorie Reyes** (Germans Trias i Pujol Research Institute): *Obesity alters human adipose tissue macrophages gene expression on a depot-depending manner: a role in lipotoxicity*

**Anna Gumà** (University of Barcelona): *Neuregulin 4, a new anti-inflammatory adipokine that preserves insulin action in adipocytes*

11:25-12:00h Coffee break

## Session 2. Neurometabolism

12h Juan Pedro Bolaños (Universidad de Salamanca, Spain)

**Astrocyte-neuron metabolic coupling**

12:30 Joao Duarte (Lund University, Sweden)

**Impact of metabolic syndrome on brain metabolism and function**

13h Francesc X. Soriano (University of Barcelona, Spain)

**Regulation of neuronal metabolism by synaptic activity**

13:30h Short talks from selected abstracts:

**U. Musokhranova** (Institut de Recerca Sant Joan de Déu): *Mitochondrial dysfunction in Rett Syndrome: studying a neurological disorder from synaptic metabolism perspective to find new treatment options*

**Gabriela Cristina de Paula** (Lund University): *Palmitate exposure triggers metabolic alterations in BV-2 microglia cells in the absence of evident microgliosis*

14:10-15:30h Finger lunch



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### Session 3. Cancer Metabolism

15:30h Sara Sdelci (CRG, Spain)

**The interaction between LOXL2 and BRD4 short isoform drives the expression of DREAM target genes in triple negative breast cancer**

16h Cristina Muñoz-Pinedo (Idibell, Spain)

**Pro-tumorigenic consequences of nutrient shortage in the tumor microenvironment**

16:30h Mariia Yuneva (The Francis Crick Institute, UK)

**Identifying metabolic vulnerabilities and flexibilities of tumours**

17h Short talks from selected abstracts:

Irene Marco-Rius (Institute for Bioengineering of Catalonia, IBEC): *Hyperpolarised magnetic resonance for real-time, in situ monitoring of cell metabolism*

Marcus Buschbeck (Josep Carreras Leukaemia Research Institute, IJC): *Evolution of histone-mediated compartmental regulation of NAD metabolism*

18h Networking

### Organizers

David Sebastián (IRB-CIBERDEM)

Jordi Duran (IQS-IBEC)

Carlos Sebastián (UB)

IBUB  
Institut de Biomedicina  
de la Universitat de Barcelona

