9:00-9:15h Welcome and presentation

**Session 1. Immunometabolism and metainflammation**

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 Uneversiteit 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-dependent 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 João 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
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)