

INEM

**10
YR**

**ANNIVERSARY
SYMPOSIUM**

**Institut Necker
Enfants Malades**

Molecular and Cellular Metabolism in Health and Disease

*Kivanc Birsoy • Florent Ginhoux • David Sancho • Simon Fillatreau • Nathalie Delzenne • Eran Segal • Pamela Schnupf • **Yasmine Belkaid** • Volker Haucke • Ganna Panasyuk • Karen Vousden • Mario Pende • Mikael Rydén • Christian Wolfrum • **Bana Jabri** • Paolo Giacobini • Franck Oury • Clémence Blouet*

Nov.21-22,2024
PARIS

www.institut-necker-enfants-malades.fr

10YR ANNIVERSARY SYMPOSIUM

Thursday November 21

13:00 – 13:15

▶ **Welcome and Introductions**

Fabiola Terzi

Institut Necker Enfants Malades

Sabine Sarnacki

UFR of Medicine, Université Paris Cité

13:15 - 14:00 **Keynote Lecture I**

Chair: Fabiola Terzi

▶ **Regulation of host-microbial interactions in health and disease**

Bana Jabri

Institut Imagine

14:00 – 15:30 **Session I**

NEURO-METABOLISM

Chairs: Michela Deleidi / Ganna Panasyuk

▶ **Novel hormonal modulator of the AgRP neurons multi facets functions for the control of energy metabolism**

Franck Oury

Institut Necker Enfants Malades

▶ **Hypothalamic nutrient sensing in the regulation of energy balance**

Clémence Blouet

University of Cambridge

▶ **Role of anti-Müllerian hormone in the prenatal and postnatal programming of PCOS**

Paolo Giacobini

Lille Neuroscience & Cognition Center

15:30 – 16:00

▶ **Coffee Break**

16:00 – 17:30 **Session II**

METABOLISM-HOST INTERACTION

Chairs: Marc Lecuit / Xavier Nassif

▶ **New therapeutic and diagnostic tools based on the study of gut microbiome-host metabolism interactions**

Nathalie Delzenne

Université Catholique de Louvain

▶ **Personalized medicine based on deep phenotyping of a large-scale human cohort**

Eran Segal

Weizmann Institute of Science

▶ **Niche adaptations and distribution of the gut commensal SFB**

Pamela Schnupf

Institut Necker Enfants Malades

17:30 – 17:45

▶ **Flash Talks Session**

18:00 – 18:45 **Keynote Lecture II**

Chair: Nicolas Venter

▶ **Maternal immunity control of lactogenesis**

Yasmine Belkaid

Institut Pasteur

20:00 – 00:00

▶ **Cocktail party**

AGENDA

Friday
November 22

9:00 – 09:45 Keynote Lecture I
Chair: Mario Pende

- ▶ **Understanding the role of nutrient transport in health and disease**
Kivanc Birsoy
The Rockefeller University

9:45 – 11:15 Session I

CELLULAR TRAFFICKING AND METABOLIC SIGNATURE

Chairs: Agnès Rötig / Bénédicte Manoury

- ▶ **Lipid switches in cell physiology: From nutrient signals to disease**
Volker Haucke
Leibniz FMP
- ▶ **Nuclear nutrient sensing signaling of Class 3 PI3K in metabolic homeostasis**
Ganna Panasyuk
Institut Necker Enfants Malades
- ▶ **Metabolic crosstalk between the tumour and the host to support metastasis**
Karen Vousden
The Francis Crick Institute

11:15 – 11:45

Coffee Break

11:45 – 13:15 Session II

ADIPOSE TISSUE METABOLISM

Chairs: Bruno Fève / Chantal Desdouets

- ▶ **Lipid metabolism and the control of cell senescence**
Mario Pende
Institut Necker Enfants Malades

- ▶ **Novel insights into the role of adipocyte metabolism in health and disease**

Mikael Rydén

Karolinska Institutet

- ▶ **Novel methods of glucose sensing regulating lipid metabolism**

Christian Wolfrum

ETH Zurich

13:15 – 14:45

▶ **Lunch Break**

14:45 – 16:15 Session III

IMMUNO-METABOLISM

Chairs: Matthieu Mahévas / Elise Dalmas

- ▶ **Biology of macrophages: From development to functions**
Florent Ginhoux
Institut Gustave Roussy
- ▶ **Microbial metabolites in the progression of atherosclerosis**
David Sancho
Spanish National Center for cardiovascular research
- ▶ **Molecular insights into the mechanisms driving the resolution of CNS autoimmunity**
Simon Fillatreau
Institut Necker Enfants Malades

16:15 – 16:45

▶ **Flash Talks Session**

16:45 – 17:00

Closing remarks

Fabiola Terzi