

Wednesday, November 15

Participants Registration

15/11/2017
13:30-15:00

Opening Session

15/11/2017
15:00-16:00

15:00 | **Welcome Address by**
Caroline DEMANGEL

1 | Keynote lecture

15:15 | **Adipose-tissue Treg control of systemic metabolism**
Diane MATHIS
Harvard Medical School, Boston, United States

Poster Session with Lite Bites

15/11/2017
16:00-18:00

On own dinner/Speaker dinner

15/11/2017
20:00-22:00

Thursday, November 16

Gut microbiota and immune crosstalk 1

16/11/2017
09:00-10:30

Chair : Gérard EBERL

2 | **The intestinal crypt: decrypting a cryptic ecosystem**
09:00 | Philippe SANSONETTI
Institut Pasteur, Paris, France

3 | **Gut microbiota-impaired intestinal immune defense and diabetes**
09:30 | Rémy BURCELIN
INSERM, Toulouse, France

4 | **Early life stress induces type 2 diabetes-like symptoms at adulthood in mice associated with defect of intestinal IL17 and IL22 secretion**
10:00 | Hanna ILCHMANN
INRA, Toulouse, France

- 10:15 **5 A c-type lectin supports innate lymphoid cells activation and T helper type 17 response by intestinal phagocytes for eradication of attaching-and-effacing bacteria.**
Mathias CHAMAILLARD
Inserm U1019, Institut Pasteur de Lille, France

Coffee break

16/11/2017
10:30-11:00

Gut microbiota and immune crosstalk 2

16/11/2017
11:00-12:30

Chair : Ivo GOMPERT BONECA

- 11:00 **6 Mechanistic studies of the impact of the gut microbiome on obesity and type 2 diabetes**
Fredrik BÄCKHED
University Of Gothenburg, Sweden
- 11:30 **7 *Citrobacter rodentium* infection re-programmes metabolism in intestinal epithelial cells *in vivo***
Gad FRANKEL
Imperial College of London, United Kingdom
- 12:00 **8 Adaptation of adherent-invasive *E. coli* to gut environment: impact on flagellum expression and bacterial colonization ability**
Nicolas BARNICH
Inserm/University Clermont Auvergne, Clermont-Ferrand, France
- 12:15 **9 Microbiota sensing by a Mincle-Syk axis in dendritic cells promotes intestinal immune barrier via the steady-state regulation of IL-17 and IL-22**
David SANCHO
CNIC, Madrid, Spain

Buffet Lunch

16/11/2017
12:30-14:00

Metabolic reprogramming in inflammation and immunity 1

16/11/2017
14:00-15:30

Chair : Pierre BRUHNS

- 14:00 **10 Srebp-controlled glucose metabolism is essential for Natural Killer cell responses**
David FINLAY
Trinity College Dublin, Ireland
- 14:30 **11 Metabolic profiling of Human Innate Lymphoid Cell Differentiation**
Laura SURACE, James DI SANTO
Institut Pasteur, Paris, France

12 | **Modulation of host lipid metabolism during zika virus infection**
15:00 | Yun LAN
HKU-Pasteur Research Pole, The University of Hong Kong, China

13 | **SkinConnect & SkinPredict: Data driven discovery of novel microbiome modulators for treating skin conditions**
15:15 | Wynand ALKEMA
NIZO Food Research, Ede, The Netherlands

Coffee break

16/11/2017
15:30-16:00

Metabolic reprogramming in inflammation and immunity 2

16/11/2017
16:00-17:30

Chair : Caroline DEMANGEL

14 | **Krebs cycle rewired for cytokines**
16:00 | Luke O'NEILL
Trinity College Dublin, Ireland

15 | **An unexpected role for complement in the metabolic processes underlying immune cell activation**
16:30 | Claudia KEMPER
NIH, Bethesda, United States

16 | ***Legionella pneumophila* modulates mitochondrial dynamics to trigger metabolic repurposing of infected macrophages**
17:00 | Pedro ESCOLL
Institut Pasteur, Paris, France

17 | **Alteration of cell metabolism by nitric oxide provides a quorum sensing mechanism to terminate inflammatory responses**
17:15 | Jérémy POSTAT
Institut Pasteur, Paris, France

Poster Session with Wine and Cheese

16/11/2017
17:30-19:30

Friday, November 17

Metabolic pathways in immune cell fate

17/11/2017
09:00-10:30

Chair : Philippe BOUSSO

- 18 **Environment Sensing signaling pathways in T cells**
09:00 Doreen CANTRELL
University Of Dundee, United Kingdom
- 19 **Metabolite regulation of CD4 T cell differentiation and susceptibility to HIV-1 infection**
09:30 Naomi TAYLOR
Institut de Génétique Moléculaire de Montpellier (IGMM), France
- 20 **Aryl Hydrocarbon Receptor controls monocyte differentiation into dendritic cells versus macrophages**
10:00 Elodie SEGURA
INSERM U932, Institut Curie, Paris, France
- 21 **Impact of western diet on t cell activation in mesenteric lymph nodes**
10:15 Elisabeth BILLARD
U1071 Inserm, Clermont-Ferrand, France

Coffee break

17/11/2017
10:30-11:00

Immunometabolism, commensals and pathogens

17/11/2017
11:00-12:30

Chair : Carmen BUCHRIESER

- 22 **Coordinated regulation of macrophage metabolism and autophagy by *Mycobacterium tuberculosis***
11:00 Kathryn MOORE
New York University, United States
- 23 **A role for the glycolytic enzyme, hexokinase, in innate immune sensing by the NLRP3 inflammasome**
11:30 David UNDERHILL
Cedars-Sinai Medical Center, Los Angeles, United States
- 24 **Understanding the interplay between type I and II IFN and metabolism in tuberculosis infection**
12:00 Alba LLIBRE
Institut Pasteur, Paris, France

- 25 | **ATP6V0d2 controls Leishmania parasitophorous vacuoles biogenesis via cholesterol homeostasis**
 12:15 | Fernando REAL
INSERM U1016, Paris, France

Lunch

17/11/2017
 12:30-14:00

Technological developments

17/11/2017
 14:00-15:00

Chair : Laura SURACE

- 26 | **Exploring the host-microbiome interactions in the gut by ambient ionization mass spectrometry**
 14:00 | Zoltan TAKATS
Imperial College London, United Kingdom
- 27 | **Decoding intercellular immune signaling networks by quantitative proteomics**
 14:30 | Felix MEISSNER
Max Planck Institute of Biochemistry, Martinsried, Germany

Sponsors address

17/11/2017
 15:00-15:30

- 28 | **Trends in immunometabolism: taking control of immune cell fate**
 15:00 | Brian P. DRANKA
Seahorse Bioscience, Agilent, Milwaukee, United States



- 29 | **Decoding the (functional) microbiome: Metabolomics illuminates the apothecaries within us**
 15:15 | Edward. D. KAROLY
Metabolon Inc, Morrisville, United States



Best poster Prizes by Genes Journal and FEBS letters

17/11/2017
 15:30-15:45



Coffee break

17/11/2017
 15:45-16:15

From metabolism to pathology

17/11/2017
16:15-18:30

Chair : James DI SANTO

- 30** | **Brain-pancreatic islets interactions in the control of glucose homeostasis**
16:15 | Bernard THORENS
Center for integrative Genomics, University of Lausanne, Switzerland
- 31** | **Closing Keynote Address**
- 16:45 | **Targeting LAP: LC3-associated phagocytosis and anti-cancer immunity**
Douglas GREEN
St. Jude Children's Research Hospital, Memphis, United States
- 17:30 | **Meeting wrap-up: Outcomes and future directions by James DI SANTO**

Conference dinner - Musée du Louvre

17/11/2017
18:30-22:00