

# InnaSCo-FrontInov Joint symposium II

## Innate sensors & inflammation

2023, September 5<sup>th</sup>-7<sup>th</sup>

Lyon, France

### Preliminary Program

InnaSCo symposium: September 5<sup>th</sup>-6<sup>th</sup>

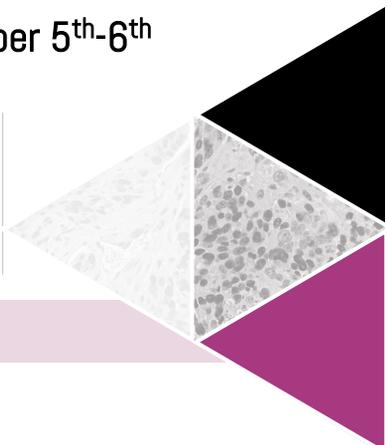
**InnaSCo symposium IV**  
**Innate Sensors 2023**



FrontInov symposium: September 7<sup>th</sup>

**Precision medicine approaches to inflammatory pathologies:  
from AI driven discovery to model systems**





## Preliminary Program

September 5<sup>th</sup>

13h00-13h30 Welcome presentations

### SESSION 1: Inflammasomes

13h30-14h15 **Franklin Zhong**, Skin Research Institute, Singapore  
NLRP1 inflammasome

14h15-14h45 **Matthias Geyer**, Institute of Structural Biology, Bonn, Germany  
Selective Inhibition of NOD-like Receptors

14h45-15h30 Three selected talks

### SESSION 2: Type I IFNs/Innate Sensors and Viral infections

16h00-16h30 **Karim Majzoub**, IGMM, Montpellier, France  
Deltavirus infection in human and animal cells

16h30-17h00 **Nadine Laguette**, IGMM, Montpellier, France  
Dissecting the crosstalk between type I interferon responses and DNA repair pathways

17h00-17h30 **Achille Broggi**, CIML, Marseille, France  
IFN- $\lambda$  control of mucosal repair

17h45-18h10 One selected talk + **Poster Teaser #1**

### POSTER SESSION With Wine & Cheese (18h00-20h00)

September 6<sup>th</sup>

### SESSION 3: Innate Sensors & bacterial infections

8h45-9h30 **Petr Broz**, UNIL, Epalinges, Switzerland  
Pyroptosis, a Lytic Cell Death Coordinating Host Defense and Inflammation

9h30-10h00 **Cécile Arrieumerlou**, Cochin Institute, Paris, France  
Spatio-temporal dynamics of ADP-heptose sensing during *S. flexneri* infection

10h00-10h45 Three selected talks

### SESSION 4: Innate Immune System & physiology

11h15-11h45 **Gerard Eberl**, Pasteur Institute Paris, France  
Modulation of hypothalamic functions by microbiota and cytokines

11h45-12h15 **François Leulier**, IGFL, Lyon, France  
Microbe-mediated intestinal NOD2 stimulation improves growth of undernourished mice

12h15-12h45 Two selected talks

### SESSION 5: Innate Immune System and Cancer

14h30-15h15 **Tanaya Shree**, Stanford University, USA  
Using innate immune agonists to achieve therapeutic cancer vaccination

15h15-15h45 **Virginie Petrilli**, CRCL, Lyon, France  
Non canonical function of NLRP3 in DNA damage response and repair

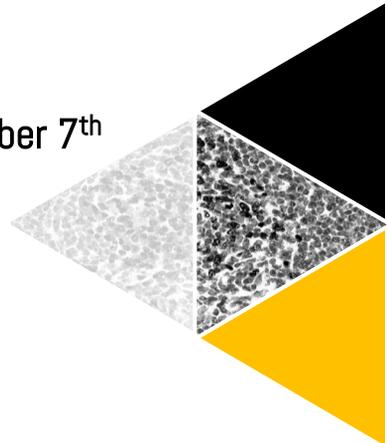
15h45-16h30 Two selected talks + **Poster Teaser #2**

### POSTER SESSION (16h30-18h30)

# Precision medicine approaches to inflammatory pathologies: from AI driven discovery to model systems

2023, September 7<sup>th</sup>

## Preliminary Program



September 7<sup>th</sup>

### Introduction on the Frontinov Network

8h55-9h00 **Nadine Laguette – Petr Cigler**

### SESSION 6. Novel insight into Precision medicine

Chair: **Christelle Langevin – Dimitris Vlachakis**

9h00-9h45 **KEYNOTE - Steve Renshaw**, University of Sheffield, UK

Inflammation made clear: zebrafish models of immune cell function.

9h45-10h15 **Anna Kajaste**, SR-Tiget, IT

Nucleic acid sensing and innate immunity in gene engineering

10h15-10h45 **Petr Cigler**, IOCB, CZ

Designing the interface of nanoparticles operating in biological environments

10h45-11h15 **Coffee break**

11h15-11h45 **Wojtek Cypryk**, CMMS, PL

Activation of extracellular vesicles secretion by the non-canonical inflammasome

11h45-12h30 **Sophie Ugolini**, CIML, FR

Neuronal regulation of immunity: new pathways and therapeutic perspectives

### Lunch

### SESSION 7 Towards artificial wisdom: AI as a novel decision making partner.

Chair: **Nadine Laguette – Petr Cigler**

14h00-14h30 **Dimitrios Vlachakis**, AUA, GR

Extracellular vesicles, -omics and Inflammation; the paradigm of the study of milk exosomes

14h30-15h00 **Nika Abdollahi**, IGH, FR

From Data to Insights: Streamlining Adaptive Immune Receptor Repertoire Analysis

15h00-15h30 **Samuel Bitoun**, Bicêtre hospital, FR

Using AI to diagnose and treat patients with auto-immune diseases

15h30-16h00 **Coffee break**

16h00-16h45 **KEYNOTE - Frank Augé, Sanofi**, FR

Antibody Drug Conjugate section, Oncology Therapeutic Unit,