



Doctoral School Day 2024

ED394 - Physiologie, Physiopathologie et Thérapeutique

3rd and 4th June 2024,
Jussieu Campus - Amphitheater 44.

Organizing Committee

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Acknowledgments

The organizers would like to thank all the sponsors and the exhibitors who contributed to the success of this event.

 **MERCK** **3CGI
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GROUP** **InvivoGen**
Innovation within reach **CORE**
BIOGENESIS

The organizers would also like to thank the chairpersons, conference speakers and jury members who devoted their time to the doctoral school day.

Monday, 3rd June 2024

8h45 - 9h

Introduction - Pr Xavier Houard

9h - 10h30

Oral Session: Discoveries in Cancer biology and
therapeutic innovations

Chaired by:

Martine Glorian and Claire Lagathu

9h - 9h15

KIF20A-mediated endosomal sorting: molecular mechanism
and impact in cancer progression
Juliane Selot

9h15 - 9h30

Deciphering the Myeloid Landscape by Combining A Single-Cell
Transcriptomic Analysis with Imaging in NSCLC Patient
Marylou Panouillot

9h30 - 9h45

CYYR1 is a novel regulator of the E3 ubiquitin ligase WWP1 with
favorable prognosis value in breast cancer
Tiphaine Perron

9h45 - 10h

Alterations of the DNA Damage Response in MSI Cancers and
Their Contribution to Tumorigenesis and Therapeutic Response
Cody Feys

10h - 10h15

Promising CD44 molecularly imprinted nanoparticles for targeting
breast cancer stem cells
Aurélia Pagani

10h15 - 10h30

Established new immunodeficient large animal model for
receiving human induced pluripotent stem cell-derived
hematopoietic grafts
Mathias Brunet-Manquat

10h30 - 11h

Coffee Break



Monday, 3rd June 2024

11h - 12h30

**Lecture - Dr Benoit Salomon and
Pr. Miyara Makoto**

Autoimmune diseases: Towards a better understanding of the mechanisms of their pathogenesis? What advances have been made? What are the new therapeutic strategies and targets?

12h30 - 12h45

Sponsors Time

BGI TECH Group

12h45 - 13h45

Lunch Break 

13h45 - 15h45

Poster Session 1

15h45 - 16h

Coffee Break 

16h - 17h45

**Oral Session: Advancements in immunological
research: innovations, mechanisms and clinical
implications**

Chaired by:

Alexandra Grosfeld and Nathalie Rolhion

16h - 16h15

Development of innovative massively multiplexed serological tests profiling humoral responses to infections or vaccinations
Camille Floch

16h15 - 16h30

Evaluating synergistic dynamics of Metformin and Simvastatin on Ovarian Cancer Cells
Sara Mikhael

Monday, 3rd June 2024

- 16h30 - 16h45** Study of human thymic macrophages in Myasthenia Gravis
Edouard Hemery
- 16h45 - 17h** Immunomodulation of neuropsychiatric lupus by cinnamon in a lupus mouse model induced by imiquimod
Georges Maalouly
- 17h - 17h15** Poor FcRn recycling accounts for the limited increase of Fc-fused Factor VIII half-life
Alejandra Reyes Ruiz
- 17h15 - 17h30** Elaboration of a valid engineered multispecies endodontic biofilm, and an in vitro evaluation of the antimicrobial activity of five calcium silicate-based root canal sealers against it.
Wajih Al Hajj
- 17h30 - 17h45** How an acute stress impacts immunity in elderly patients?
Manon Chauvin

Tuesday, 4th June 2024

9h - 10h30

Oral Session: Cellular mechanisms and pathophysiological insights in metabolism and inflammation

Chaired by:

Lubka Roumenina and Joan Tordjman

9h - 9h15

Autocrine function for hepcidin in Kupfer Cells during iron overloading

Margault Blanchet

9h15 - 9h30

Role of adipose tissue macrophages in $\beta 3$ adrenergic-mediated beige adipogenesis and thermogenesis

Raoul Manuel

9h30 - 9h45

Untying the role of Kupffer cells in the pathophysiology of acute liver failure

Caroline Chabat-Courrède

9h45 - 10h

Oxidative stress influences the evolution of a reductionnist community of gut bacteria and bacteriophage

Coline Meynard

10h - 10h15

Intermediate filament synemin acts as a regulator of cell remodelling during cardiac hypertrophy

Caterina Gargano

10h30 - 11h00 Coffee Break



Tuesday, 4th June 2024

11h - 11h30



Ma thèse en 180 secondes

Characterisation of extracellular vesicles in hepatocellular carcinoma

Clément Berthy

Role of CD36 in breast cancer vulnerability to ferroptosis

Lara Closset

Role of *Pseudomonas aeruginosa* virulence factor ExoY during lung cell infection

Gabrielle Dupuis

Identification, isolation, and characterization of autoantibodies against the neuronal nicotinic acetylcholine receptor in psychotic patients

Alicia Velazquez De Castro Esteve

Left ventricle unloading during acute myocardial infarction-related cardiogenic shock and reperfusion

Alexander Moiroux-Sahraoui

Aiming to better understand syndromic high myopia by studying inherited retinal disorders with a focus on the role of lipoprotein receptor related protein 2b (LRP2B)

Filip Španić

A new approach to biomarker identification in single-cell transcriptomics

Lara Jerman

Pathophysiological Approach in hyperparathyroidism

Caroline Halimi

Tuesday, 4th June 2024

11h30 - 12h30

Oral Session: Innovative approaches to understand tissue and system dynamics in physiology and pathology

Chaired by:

Bertrand Blondeau and Catherine Monnot

11h30 - 11h45

Effects of blood-brain barrier opening with ultrasounds combined to microbubbles on tau pathology and prion-like propagation

Amandine Geraudie

11h45 - 12h

Characterization of CD14, TLR4 and ICAM3 contribution to the circadian regulation of retinal phagocytosis

Leila Dhaoui Hajem

12h - 12h15

Modeling growth plate dynamics using hypertrophic chondrocytes to understand growth retardation in Silver-Russell Syndrome

Céline Selenou

12h15 - 12h30

Matrix Vesicle-driven mineralization in osteoarthritis.

Fanny Duhalde

12h30 - 12h45

Study of the Ankle Ligamentoplasty Process: Towards Novel Biomarkers

Alexandre Hardy

12h30 - 12h45

Sponsors Time

Merck Group

Tuesday, 4th June 2024

12h45 - 13h45

Lunch Break



13h45 - 15h45

Poster Session 2

15h45 - 16h

Coffee Break



16h - 17h45

Round Table

The break between science and the general public: What is the place for scientific discourse on health in the societies of tomorrow and in public debate? Who are the players and what are the issues?

Presented by:

Dr. Michel Dubois - DR1, GEMASS

Olivier Monod - Scientific journalist, Libération

Françoise Alliot - President, AFLAR (French anti rheumatism association)

Dr. Catherine Bourgain - CERMES3, Human genetics researcher at INSERM.

17h15 - 17h45

Awards and Acknowledgment,
Closing speech

18h00

Alumni Afterwork