



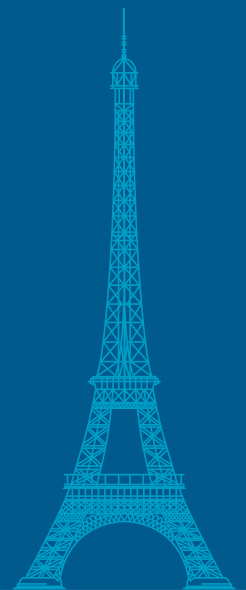
Institut Necker Enfants Malades
Centre de Recherche

INEM INTERNATIONAL SYMPOSIUM



FROM INTEGRATIVE BIOLOGY TO MOLECULAR MEDICINE

13 - 14 FEBRUARY 2020
FACULTY OF MEDICINE
NECKER-ENFANTS MALADES
Paris, France



Université
de Paris



La science pour la santé
From science to health



SUMMARY



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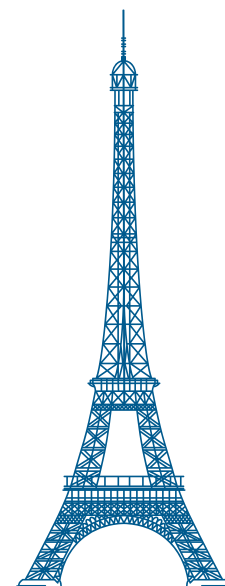
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MESSAGE FROM THE DIRECTOR & THE CHAIR



Dr Fabiola Terzi
Director of INEM



Dr Patrice Codogno
Chair

Dear colleagues,

It is our immense pleasure to welcome you to the Symposium « From Integrative Biology to Molecular Medicine » organized on the occasion of the opening of the new Medicine School building at the hospital Necker in Paris, which hosts the Necker-Enfants Malades Institute (INEM).

We are grateful to an outstanding group of speakers from France, Europe and the USA for presenting their insights, and proud of having attracted more than 250 attendees for this two-day meeting.

The aim of this symposium is to shed light on the interface between basic and clinic research developed in the perimeter of the Medicine School at the University of Paris. Research is crosscutting from basic aspects to clinic and new therapeutic treatments in the fields of metabolism, immunology, microbiology and infectious diseases, endocrinology, cardiology, nephrology and cancer.

In establishing the symposium program, we wished to provide a forum for gathering researchers and clinicians with a special focus on young researchers (PhD students and post-docs). To that aim a « meet the speakers » session is organized, which provides a unique opportunity to discuss with leaders in their field of research.

It is our hope that this symposium will contribute to creating awareness, inside INEM, the local scientific community and beyond, of the tremendous recent achievements in Molecular Medicine and, more importantly, of the exciting possibilities for progress in the future.

Finally, we would like to express our gratitude to all the sponsors whose support made this exciting meeting possible. Among them, a special acknowledgment goes to the « Fondation Recherche Necker-Enfants Malades », Université de Paris and Medical School. We would like also to thank ENYO Pharma, DIM1 Health, Ligue Nationale Contre le Cancer, and Fondation ARC for their generous support.



COMMITTEES

SCIENTIFIC COMMITTEE

Patrice Codogno

Team : Autophagy pathway and intracellular compartments dynamics

Mathieu Coureuil

Team : Pathogenesis of systemic infections

Franck Oury

Team : Hormonal regulation of brain development and functions

Ganna Panasyuk

Team : Cell growth control by nutrients

Sandra Weller

Team : Development of the immune system

ORGANIZING COMMITTEE

Monique Barel

Sophie Koutouzov

Fernanda Magnin

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FONDATION RECHERCHE NECKER-ENFANTS MALADES



PROGRAMME

THURSDAY FEBRUARY 13TH 2020

- 13:30 - 13:50** **Welcome address**
Prof Christine Clerici, President of Université de Paris
Mr Serge Morel, Director General of the Public Hospitals of Paris -
Université de Paris
Prof Gérard Friedlander, Dean of Medicine Faculty
- Université de Paris
Dr Fabiola Terzi, Director of INEM
- 13:50 - 14:50** **Keynote Lecture**
Chairperson: Claude-Agnès Reynaud
Alain Fischer, *Collège de France, Paris, France*
Genetic errors teach us about the human immune system
- 14:50 - 16:20** **Session 1: Growth and metabolic control**
Chairpersons: Etienne Morel/Ganna Panasyuk
- 14:50 - 15:20** Michael N. Hall, *Biozentrum, Basel, Switzerland*
mTOR signalling in growth and metabolism
- 15:20 - 15:50** Guillaume Canaud, *INEM, Paris, France*
**Targeted therapy for patient with PIK3CA-related
overgrowth syndrome**
- 15:50 - 16:20** Satchidananda Panda, *Salk Institute, San Diego, USA*
**The Circadian Code to maintain metabolic fitness
and its failure in cancer**
- 16:20 - 16:50** **Coffee break**
- 16:50 - 18:20** **Session 2: Tissue Homeostasis and Cancer**
Chairpersons: Vincent Goffin/Franck Oury
- 16:50 - 17:20** Cedric Blanpain, *Université libre de Bruxelles, Brussels, Belgium*
Mechanisms regulating EMT tumor transition states
- 17:20 - 17:50** Agata Cieslak, *INEM, Paris, France*
**Epigenomic dynamics of human T-cell precursors
reveal TCRA enhancer silencing by HOXA**
- 17:50 - 18:20** Jessica Zucman-Rossi, *Cordeliers Centre, Paris, France*
Genetic Tumor Profiling
- 20:00** **Speaker Dinner**

PROGRAMME

FRIDAY FEBRUARY 14TH 2020

9:00 - 10:30

Session 3: Infection and immunity

Chairpersons: Laurence Arbibe/Mathieu Coureuil

9:00 - 9:30

Andreas Baumler, *University of California, Davis, USA*
**Gastrointestinal Host-Pathogen interaction
in the age of Microbiome research**

9:30 - 10:00

Claudia Mauri, *University College London, London, UK*
**The role of gut microbiota in the development
of regulatory B cells**

10:00 - 10:30

Nadine Cerf-Bensussan, *Imagine Institute, Paris, France*
**Mechanisms of the human gut barrier.
Lessons from monogenic disorders**

10:30 - 11:00

Coffee break

11:00 - 12:30

Session 4: Systemic regulation

Chairpersons: Peter van Endert/Sandra Weller

11:00 - 11:30

Agnès Lehuen, *Cochin Institute, Paris, France*
Role of MAIT cells in metabolic diseases

11:30 - 12:00

Gérard Karsenty, *Columbia University, New York, USA*
Mediation of the acute stress response by the skeleton

12:00 - 14:00

Lunch

**Event « Association de Recherche contre le Cancer » (ARC):
Meet the speakers (13:00 – 14:00)***

*Registration required

PROGRAMME

FRIDAY FEBRUARY 14TH 2020

14:00 - 15:30

Session 5: Integrative physiology and aging

Chairpersons: Patrice Codogno/Fabiola Terzi

14:00 - 14:30

Sophie Lotersztajn, *Center for Research in Inflammation, Paris, France*

Inflammation and liver fibrosis: dangerous liaisons and new targets

14:30 - 15:00

Nabila Bouata-Naji, *PARCC, Paris, France*

Genetic investigation of challenging arterial diseases, predominant in women

15:00 - 15:30

Jean-Louis Mas, *CPNeurosciences, Paris, France*

Patent foramen ovale and « cryptogenic » stroke: What's new, what's next ?

15:30 - 16:00

Coffee break

16:00 - 16:30

Perspectives by Jean-Claude Weill,

INEM, Académie des Sciences

Human memory B cells in context

16:30

Cocktail