

NOVEMBER 27-29, 2024

INTERDISCIPLINARY PERSPECTIVES ON IDENTITY: FROM SINGLE CELLS TO ORGANISMS, AND BEYOND

KEYNOTE SPEAKERS

Denis Duboule

Collège de France, FR

Luca Longo

Technological University Dublin, IE

Claude Romano

Sorbonne Université, FR

Sara Wickström

Max Planck Institute for Molecular
Biomedicine, DE

INVITED SPEAKERS

Fanny Jaulin

Institut Gustave Roussy, FR

Kinneret Keren

Technion Israel Institute of
Technology, IL

Pierre-François Lenne

Developmental Biology Institute
of Marseille, FR

Maxime Mahé

Nantes Université, FR

Leïla Perié

Institut Curie, FR

Thierry Voet

Katholieke Universiteit Leuven, BE

Wednesday to Friday, November 27-29, 2024

Buffon auditorium

15 rue Hélène Brion, 75013 PARIS, France



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**INTERDISCIPLINARY
PERSPECTIVES ON IDENTITY:
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PROGRAM

WEDNESDAY, NOVEMBER 27
(AFTERNOON)

- 1.30 PM: Welcome coffee
- 2.00 PM: Introduction by **Claire ROUGEULLE** and **Benoit LADOUX**
- 2.15 PM: **BIOLOGY KEYNOTE** Chair : Claire Rougeulle
Using pseudo-embryos to study developmental gene regulation
Denis DUBOULE, Collège de France
- 3.00 PM: **ORGANOIDS SESSION 1** Chair : Denis Duboule
Building the human gut: When stem cells know what to do
Maxime MAHE, Nantes Université
Self-organization of tumor hierarchy and stemness
Danijela VIGNJEVIC, Institut Curie
- 4.00 PM: Coffee break
- 4.30 PM: **ORGANOIDS SESSION 2** Chair : Daniela Vignjevic
Mechanisms of Mitotic Spindle Orientation in Intestinal Organoids
Nicolas MINC, Institut Jacques Monod
Unlocking defective Genomics and Mechanics associated to spina bifida with PAX and Organoids
Vanessa RIBES, Institut Jacques Monod
Stress-responsive pathways in pathophysiological neurodevelopment : in the light of organoids
Valérie MEZGER, Epigenetics and Cell Fate Center
Vascular integration in brain organoid engineering to model the complexity of the human blood-brain-barrier
Diana PASSARO, Institut Cochin
- 6.00 PM: End of Day 1

THURSDAY, NOVEMBER 28
(MORNING)

Chair : Pierre-Antoine Defossez

8.30 AM: Coffee and viennoiseries

9.00 AM: **SINGLE-CELL SESSION**

Family matters: The role of single cell families in hematopoiesis

Leïla PERIE, Institut Curie

The nature, extent and biology of cellular heterogeneity in health and disease

Thierry VOET, KU Leuven

Evolution of temporal patterning of neural stem cells

Konstantina FILIPPOPOULOU, Institut Jacques Monod

10.30 AM: Coffee break

11.00 AM: **SINGLE CELL SESSION (CONTINUED)**

Deciphering changes at the maternal-fetal Interface during parturition using Single Nucleotide RNA Sequencing

Céline MEHATS, Institut Cochin

X-chromosome inactivation is required for proper extraembryonic cell fate acquisition in humans

Jean-François OUIMETTE, Epigenetics and Cell Fate Center

12.00 PM: **PROJECT DECODERS**

Decoding loci-specific molecular interaction networks

Benoît PALANCADE, Institut Jacques Monod

12.30 PM: Lunch break & **POSTER SESSION 1**

THURSDAY, NOVEMBER 28
(AFTERNOON/EVENING)

2.00 PM: **PHILOSOPHY KEYNOTE** Chair : Philippe Huneman

Practical Identity

Claude ROMANO, Sorbonne Université

2.45 PM: **SOCIAL SCIENCE SESSION** Chair : Marco Araneda

Psychosocial challenges induced by the significant extension of neonatal screening (NBS)

Anne-Laure SEBERT, CRPMS

Plasticity: a key concept in the identity of living organisms

Antonine NICOGLU, Université de Tours

3.45 PM: Coffee break & **POSTER SESSION 2**

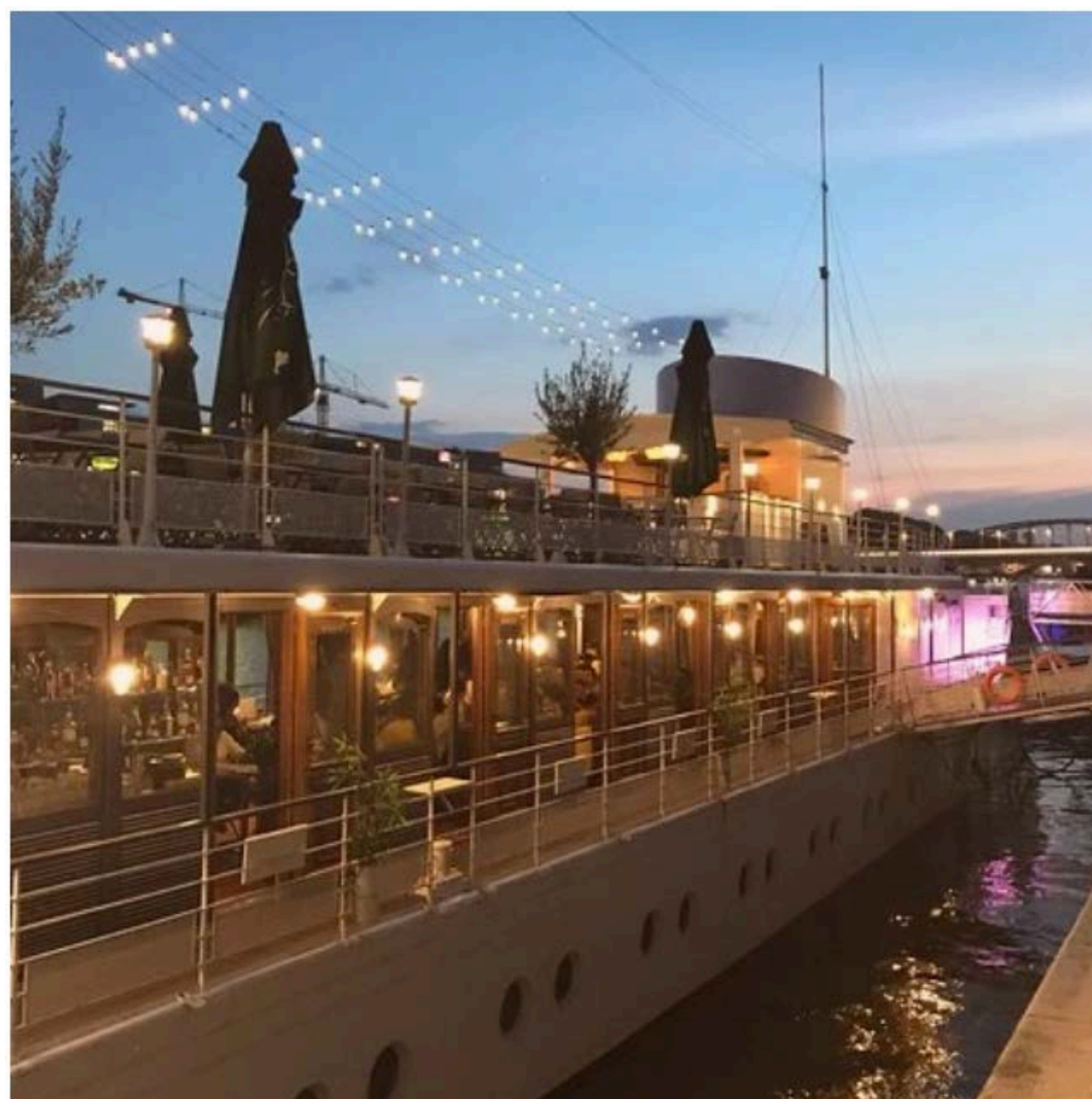
5.30 PM: **AI KEYNOTE** Chair : Philippe Huneman

Artificial Intelligence: conscious organisms or powerful black boxes?

Luca LONGO, Technological University Dublin

6.15 PM: End of Day 2

7.00 PM: Dinner & Party at L'Olivia
12 Port de la Rapée, 75012 Paris



FRIDAY, NOVEMBER 29
(MORNING)

Chair : Myriam Reffay

9.00 AM: Coffee and viennoiseries

9.30 AM: **BIOMECHANICS SESSION**

Tissue flows and patterns during symmetry breaking of multicellular systems

Pierre-François LENNE, IBDM

Mechanical aspects of Hydra morphogenesis

Kinneret KEREN, Technion

Tweezing intracellular mechanics

Jean-Baptiste MANNEVILLE, MSC

11.00 AM: Coffee break

11.30 AM: **BIOMECHANICS SESSION (CONTINUED)**

Coordination between metabolism and mechanics during epithelial-mesenchymal transition

Mariia BALATSKAIA, Institut Jacques Monod

Emergence of self-organised glioblastoma vortex pattern under confinement

Pan JIANG, Institut Jacques Monod

12.00 PM: **BIOPHYSICS KEYNOTE**

Mechanical regulation of cell states

Sara WICKSTROM, Max Planck Institute for Molecular Biomedicine

12.45 PM: Poster prizes & Concluding remarks

1.00 PM: End of Day 3