

Membrane-less organelles and liquid condensates

ITMO Bases moléculaires et structurales du vivant

September, 25th 2023

Amphithéâtre Buffon

15 rue Hélène Brion 75013 Paris

- ▶ **9.00 am – 9.15 am** **Opening**
- ▶ **9.15 am – 12.25 pm** **Session 1 Chairpersons Yves Gaudin & Dominique Weil**
- ▶ **9.15 am – 9.40 am** *Cell cycle-dependent dynamics of mRNA storage in P-bodies, **Dominique Weil** – IBPS – Paris*
- ▶ **9.40 am – 10.05 am** *Chromatin as a biomolecular condensate, **Fabian Erdel** – CBI – Toulouse*
- ▶ **10.05 am – 10.30 am** *Repair foci as liquid phase separation: Evidence and Limitations, **Judith Mine Hattab** – IBPS – Paris*
- ▶ **10.30 am – 10.45 am** *Short talk 1 : Molecular modeling of biomolecular condensates at multiple resolutions, **Alessandro Barducci** – CBS – Montpellier*
- ▶ **10.45 am – 11.15 am** **Coffee Break**
- ▶ **11.15 am – 11.40 pm** *Interplay between PML NBs and histone chaperones for the regulation of chromatin dynamics, **Armelle Corpet** – INMG – Lyon*
- ▶ **11.40 pm – 12.05 pm** *Liquid viral factories: the example of respiratory syncytial virus, **Marie-Anne Rameix Welti** – Pasteur Institute – Paris*
- ▶ **12.05 pm – 12.30 pm** *NMR provides unique insight into the structure, dynamics and function of intrinsically disordered proteins in biomolecular condensates, **Martin Blackledge** – IBS – Grenoble*
- ▶ **12.30 pm – 12.45 pm** *Short talk 2 : Molecular and functional characterization of the condensates formed by adaptor proteins upon induction of the interferon pathway, **Damien Glon** – I2BC – Saclay*
- ▶ **12.45 pm – 2.00 pm** **Lunch break and poster session**
- ▶ **2.00 pm – 5.50 pm** **Session 2 Chairpersons Fabian Erdel & Marie-Anne Rameix Welti**
- ▶ **2.00 pm – 2.45 pm** *Keynote: The cell as a polyphasic system, **Anthony Hyman** – MPI CBG – Germany*
- ▶ **2.45 pm – 3.10 pm** *It's just a phase- structural characterization of LLPS and its role in temperature sensing in plants, **Chloe Zubieta** – CEA – Grenoble*
- ▶ **3.10 pm – 3.35 pm** *Bioengineered condensates to study protein aggregation and manipulate intracellular organelles, **Zoher Gueroui** – ENS – Paris*
- ▶ **3.35 pm – 3.50 pm** *Short talk 3 : DciA, the bacterial replicative helicase loader, is a DNA condenser, **Stéphanie Marsin** – I2BC – Saclay*
- ▶ **3.50 pm – 4.30 pm** **Coffee break and poster session**
- ▶ **4.30 pm – 4.45 pm** *Short talk 4 : Multivalent interactions of the disordered regions of XLF and XRCC4 foster robust cellular NHEJ and drive the formation of ligation-boosting condensates in vitro, **Vu Duc-Duy** – ENS – Paris*
- ▶ **4.45 pm – 5.00 pm** *Short talk 5 : Investigating KIF2C in cancer progression via BRCA2 binding and molecular condensate formation, **Anastasiia Skobelkina** – CEA – Saclay*
- ▶ **5.00 pm – 5.25 pm** *Synthetic RNA condensates in E. coli, **Ariel Lindner** – INSERM / Université Paris Cité – Paris*
- ▶ **5.25 pm – 5.50 pm** *Robust sorting and buffering within condensates control transcriptome stoichiometries, **Arnaud Hubstenberger** – IBV – Nice*
- ▶ **5.50 pm** **Closure**