

## RNA : biology and applications

ITMO Bases moléculaires et structurales du vivant

**February, 2nd to 3rd 2023**

Amphithéâtre Buffon

15 rue Hélène Brion 75013 Paris

### February, 2<sup>nd</sup> 2023

- ▶ 9.00 am – 9.10 am                      **Opening**
- ▶ 9.10 am – 12.25 pm                    **RNA biogenesis, structure, RNA-mediated regulation**
- ▶ 9.10 am – 9.55 am                      Keynote : *Dynamic riboregulatory assemblies in the control of gene expression* - **Ben Luisi** – University of Cambridge
- ▶ 9.55 am – 10.25 am                      Title to be announced - **Pascale Romby** – CNRS, IBMC
- ▶ 10.25 am – 10.55 am                    Title to be announced - **Remdond Smyth** – Helmholtz
- ▶ 10.55 am – 11.25 am                    **Coffee Break**
- ▶ 11.25 am – 11.55 am                    RNA maturation and decay in *B. subtilis* - **Ciaran Condon** - IBPC
- ▶ 11.55 am – 12.15 pm                    Short talks
- ▶ 12.15 pm – 2.00 pm                      **Lunch break**
- ▶ 2.00 pm – 4.15 pm                      **RNA modifications, Epitranscriptomics**
- ▶ 2.00 pm – 2.45 pm                      Keynote: *Expanding world of RNA modification and its disease relevance* - Tsutomu Suzuki – University of Tokyo
- ▶ 2.45 pm – 3.15 pm                      *When the Heat Is On - Turn Up the Ac(4C) - A Near Atomic Resolution Glimpse into RNA Acetylation* - Moran Shalev-Benami - Weizmann Institute
- ▶ 3.15 pm – 3.45 pm                      RNA modifications – from zero to hero - **Mark Helm** – University of Mainz
- ▶ 3.45 pm – 4.15 pm                      RNA modification mapping and quantification using deep sequencing - **Iouri Motorine** – University of Lorraine
- ▶ 4.15 pm – 4.45 pm                      **Coffee break**
- ▶ 4.45 pm – 6.05 pm                      **RNP and phase separation**
- ▶ 4.45 pm – 5.15 pm                      *What drives the specificity of RNA storage in P-bodies* - **Dominique Weil** - IBPS, CNRS
- ▶ 5.15 pm – 5.45 pm                      *Engineering Phase Separations in Cells to Study RNA-Protein Condensates* - **Zoher Gueroui** - ENS
- ▶ 5.45 pm – 6.05 pm                      Short talks

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### February, 3rd 2023

- ▶ **8.30 am – 11.00 am**      **RNP and RNA metabolism -Technical advances**
- ▶ **8.30 am – 9.00 am**      *Title to be announced* - **Hervé Le Hir** - IBENS
- ▶ **9.00 am – 9.30 am**      *Title to be announced* - **Olivier Namy** – I2BC
- ▶ **9.30 am – 10.00 am**      *Imaging the life and death of mRNAs in single cells* - **Jeff Chao** - Friedrich Miescher Institute for Biomedical Research
- ▶ **10.00 am – 10.30 am**      *Title to be announced* - **Florian Mueller** – Pasteur Institute
- ▶ **10.30 am – 10.50 am**      Short talk
- ▶ **10.50 am – 11.10 am**      **Coffee Break**
- ▶ **11.10 am – 12.25 am**      **RNA therapeutics –Novel RNA platforms**
- ▶ **11.10 am – 11.55 am**      Keynote : *Title to be announced* - **Frank de Rosa** - Sanofi
- ▶ **11.55 am – 12.25 pm**      *Trans-amplifying RNA: a versatile vector system to deliver therapeutic proteins and RNAs* - **Tim Besseirt** - TRON
- ▶ **12.25 pm – 12.55 pm**      *Title to be announced* - **Piotr Kovalski** – University of Cork
- ▶ **12.55 pm – 1.20 pm**      *Title to be announced* - **Pascale Bouille** - Flash Therapeutics
- ▶ **1.20 pm – 2.00 pm**      **Lunch break**
- ▶ **2.00 pm – 4.00 pm**      **RNA therapeutics –Applications**
- ▶ **2.00 pm – 2.30 pm**      *mRNA based-cancer vaccines* - **Eric Tartour** – AP-HP
- ▶ **2.30 pm – 3.00 pm**      *Targeting PIM kinases in cancer using an antisense oligonucleotide strategy* - **Thierry Fest** – University of Rennes
- ▶ **3.00 pm – 3.30 pm**      *New generation of antisense oligonucleotides for the treatment of Duchenne Muscular Dystrophy by exon-skipping* - **Aurélie Goyenville** – UVSQ
- ▶ **3.30 pm – 3.50 pm**      Short talks
- ▶ **3.50 pm – 4.00 pm**      **Closure**