

WEDNESDAY FEBRUARY 7th 2018

2:15 – 2:30 pm – **WELCOME REMARKS** - Barbara Bardoni Florence Besse

2:30 – 3:30 pm – **OPENING Lecture:** Introduction and Chairperson: Bernard MARI

VICTOR AMBROS (UMASS, USA) - *Perspectives on the functions of MicroRNAs in animal development*

Session 1: Non coding RNAs: from basic research to therapy
(Chairpersons: Pierre Abad; Thomas Maurin)

3:30 – 4:00 pm - **Aimee Jackson (Miragen Therapeutics, USA)** - *Development of microRNA-based Therapeutics*

4:00 – 4:15 pm - **David Gilot (Université de Rennes, France)** - *A noncoding function of TYRP1 mRNA promotes melanoma growth*

4:15-4:45 pm Coffee break

4:45 – 5:15 pm - **Reini Fernandez de Luco (IGH, Montpellier, France)** – *Beyond the DNA: the role of chromatin and lncRNAs in the regulation of alternative splicing*

5:15 – 5:30 pm - **Maria Duca (ICN, Nice, France)** - *Interference with oncogenic microRNAs network using synthetic small molecules: scope and applications*

5:30 – 5:45 pm - **Valérie Grandjean (C3M, Nice, France)** - *RNA-mediated epigenetic inheritance of environmentally-induced pathologic variations*

5:45 – 6:15 pm - **Hervé Vaucheret (IJBP, Paris, France)** - *Regulation of gene expression by small RNAs in plants*

6:15 – 6:30 pm - **Stéphanie Jaubert-Possamai (INRA, Valbonne, France)** - *Characterization of small RNAs involved in the plant response to parasitic nematodes, genus *Meloidogyne*.*

THURSDAY FEBRUARY 8th 2018

Session 2: RNA Metabolism in Cancer

(Chairpersons: Enzo Lalli; Sophie Tartare-Deckert)

9:00 – 9:30 am - **Andrzej Dziembowski (iBB, Warsaw, Poland)** - *The role of FAM46C, a novel non-canonical poly(A) polymerase, in the pathogenesis of multiple myeloma*

9:30 – 9:45 am - **Patrick Brest (IRCAN, Nice, France)** - *Unexpected miRNA dynamics in tumor progression.*

9:45 – 10:00 am - **Martin Teichmann (Université de Bordeaux, France)** - *Regulation of RNA polymerase III transcription during transformation of human IMR90 fibroblasts with defined genetic elements*

10:00 – 10:15 am - **Felix Kröner (Dynamic Biosensors GmbH, Munich, Germany)** - *Biophysical characterization of Cas9 – DNA Interactions with Electro-Switchable Biosurfaces - switchSENSE*

10:15-10:45 am Coffee break

Session 3: RNA metabolism in Disease and Development

(Chairpersons: Patrick Brest ; Jean-Louis Nahon)

10:45 – 11:15 am - **Markus Stoffel (ETH, Switzerland)** - *RNA regulatory networks in metabolism*

11:15 – 11:30 am - **Elias Bechara (CRG, Barcelona, Spain)** - *When STARs influence pluripotency*

11:30 – 11:45 am - **Grégoire Savary (University of Lille 2, France)** - *Targeting non-coding RNA networks in fibrogenic diseases*

11:45 – 12:00 am - **Thomas Maurin (IPMC, Valbonne, France)** - *Fragile X Syndrome : from CLIP-assay a clue for effective therapies.*

12:00 – 12:15 pm - **Amélie Piton (IGBMC, Illkirch, France)** - *Novel genes encoding RNA binding proteins involved in post-transcriptional regulation of gene expression are mutated in intellectual disability*

12:15 – 12:45 pm - **Laurence Colleaux (Imagine Institute, Paris, France)** - *Role of miR-146a in differentiation and neural lineage determination of neural stem cell: relevance for neurodevelopmental disorders*

12:45-2:30 pm- Lunch



Session 4: Methodological advances

(Chairpersons: Florence Besse; Arnaud Hubstenberger)

2:30 – 2:45 pm - **François Berdou (Thermo Fisher)** - *Robust RNA biomarkers selection made easy with Clariom arrays*

2:45 – 3:00 pm - **Laure Emmanuelle Zaragosi (IPMC, Valbonne, France)** - *Single-cell transcriptomics unravels cell trajectories during normal and pathological regeneration of the airway epithelium*

3:00 – 3:15 pm - **Mohamed Fareh (Delft University of Technology, the Netherlands)** - *Single-molecule fluorescence reveals how Dicer-TRBP recognizes precursor microRNA in crowded cellular environment*

3:15 – 3:30 pm - **Marion Peter (IGMM, Montpellier, France)** - *A dual protein/RNA localization screen reveals locally translated mRNAs in human cells*

3:30 – 3:45 pm – **Sergio Afonso (Advanced Cell Diagnostics, Newark, USA)** - *Visualization of gene expression and of their in-situ modulations: applications of in-situ RNAscope® and BaseScope hybridization technologies*

Session 5: Spatio-temporal regulation of gene expression

(Chairpersons: Barbara Bardoni; Gaël Cristofari)

3:45 – 4:15 pm - **Edouard Bertrand (IGMM, Montpellier, France)** - *Visualization of gene expression in single living cells*

4:15 – 4:30 pm - **Danielle Adekunle (MIT, Cambridge, USA)** - *Transcriptome-wide discovery of subcellular RNA and protein localization in liver*

04:30-05:00 pm Coffee break

5:00 – 5:15 pm - **Florence Besse (iBV, Nice, France)** - *Regulating neuronal granules in space and time*

5:15 – 5:30 pm - **Jeshlee Vijayakumar (iBV, Nice, France)** - *Role of the Prion-like domain of Imp in RNP granules*

5:30 – 6:00 pm - **Marvin Tanenbaum (Hubrecht Institute, the Netherlands)** - *Live cell single molecule imaging reveals translation dynamics and control mechanisms*

Session 6: Poster session

6:30-8:30pm Cheese & Wine – Poster Session



FRIDAY FEBRUARY 9th 2018

Session 7: RNA regulatory networks

(Chairpersons: Pascal Barbry; Michele Trabucchi)

9:15 – 9:45 am - **Gian Gaetano Tartaglia (CRG, Barcelona, Spain)** - *Discovery of Protein-RNA Networks*

9:45 – 10:00 am - **Silvia Bottini (C3M, Nice, France)** - *A Nucleoplasmic Post-transcriptional Control of microRNA-Mediated Silencing*

10:00 – 10:15 am - **Diogo Ribeiro (TAGC Inserm U1080, Marseille, France)** - *Long non-coding RNAs predicted to scaffold human protein complexes*

10:15-10:45 am Coffee break

10:45 – 11:00 am - **Arnaud Hubstenberger (iBV, Nice, France)** - *P-body purification reveals how repressed mRNA regulons condense*

11:00 – 11:30 am - **Jernej Ule (Crick Institute, UK)** – *Dual evolutionary consequences of LINE-dependent RNP assembly shaped the mammalian transcriptomes*

11:30 – 11:45 am - **Gaël Cristofari (IRCAN, Nice, France)** - *Developing new genomic approaches to study LINE-1 activation in human cells*

11:45 – 12:00 am - **CONCLUSION Remarks** (Bernard Mari, Florence Besse)

12:00-13:00 pm Lunch