11th Bordeaux RNA Club Symposium

June 27-28, 2019
IECB Auditorium
2, rue Robert Escarpit
33600 Pessac, France

Organized jointly with
APTAMERS in Bordeaux
June 28-29, 2019
Bordeaux, France
Thursday, June 27, 2018 | IECB auditorium

8:20 – 8:40 Registration

8:40 – 8:50 Opening remarks (Y. Hashem)

8:50 – 10:35 1st Session - Ribosome and translation (Chair: Y. Hashem)

8:50 – 9:30 Christine Clayton (invited speaker)
Mechanisms of selective translation stimulation and suppression by the multiple elF4E isoforms of Trypanosoma brucei

9:30 – 9:50 Philippe Giegé
Composition and architecture of Arabidopsis mitochondrial ribosome

9:50 – 10:10 Hakim Mireau
The translational landscape of plant mitochondria and control by PPR proteins

10:10 – 10:25 Natalia Korniy
Modulation of HIV-1 Gag/Gag-Pol Frameshifting by tRNA abundance

10:25 – 10:35 Sponsor talk (NEB)

10:35 – 10:55 Coffee break

10:55 – 13:10 2nd Session - Ribosome and translation (Chair: F. Darfeuille)

10:55 – 11:35 Sarah Woodson (invited speaker)
The dynamics of Hfq-small RNA interactions and mRNA targeting

11:35 – 11:55 Grégory Boël
ABC-F type translation factors modulate the stereochemistry of the peptidyl transferase center in the ribosome and are necessary for bacteria to adapt to their environment

11:55 – 12:10 Victorii Murina
Antibiotic resistant ABCFs: straight from structure to mechanism?

12:10 – 12:30 Daniel Wilson
Structures of antibiotic-resistance ABCF proteins in complex with the ribosome

12:30 – 13:10 Zoya Ignatova (invited speaker)
Alterations of translation (components) with age

13:10 – 15:00 Lunch break and poster session

15:00 – 16:40 3rd Session - RNA Biology (Chair: A. Innis)

15:00 – 15:40 Alessandro Vannini (invited speaker)
Watching (class III) gene transcription in HD

15:40 – 16:00 Suparna Sanyal
Bimodal effect of RNA on aggregation of the tumor suppressor protein p53

16:00 – 16:20 Dmitri Ermolenko
mRNAs and lncRNAs intrinsically form secondary structures with short end-to-end distances

16:20 – 16:40 Sanjeev Shukla
Interplay between epigenetics, alternative splicing, and cancer metabolism

16:40 – 17:00 Coffee break
17:00 – 18:30 4th Session - RNA Biology (Chair: C. Mackereth)

17:00 – 17:40 Eduardo Eyras (invited speaker)
Long read transcriptomics - beyond model organisms

17:40 – 18:00 Grégoire de Bisschop
Unwinding of HIV RNA dimers by DDX3 questions its role during infection

18:00 – 18:15 Lina Hamouche
Dynamics of RNase Y membrane localization in Bacillus subtilis

18:15 – 18:30 Jörg Morf
Spatial transcriptome organization in the nucleus

20:00 – Dinner in Bordeaux for invited and selected speakers

Friday, June 28, 2018 | Cité du Vin, joined session

8:20 – 10:30 5th Session - Aptamers (Chair: C. Mackereth)

8:20 – 8:40 James Attwater
Emergence of cooperativity during in vitro selection of a self-synthesising ribozyme

8:40 – 9:00 Florian Bernard
Full-length analysis of Caenorhabditis elegans transcriptome using Nanopore sequencing technology

9:00 – 9:20 Josef Wachtveitl
Structure guided fluorescence labeling reveals a two-step binding mechanism of neomycin to its RNA aptamer

9:20 – 9:40 P. Johnson
Fine-tuning the binding affinity of a structure-switching aptamer using dangling nucleotides

9:40 – 10:30 Judy Lieberman (invited speaker)
Aptamer delivery of siRNAs to knockdown cancer

10:30 – 11:10 Coffee break

11:10 – 12:30 6th Session - Aptamers (Chair: L. Azéma)

11:10 – 11:30 Murat Sunbul
Genetically encoded light-up aptamers for live-cell super-resolution RNA imaging

11:30 – 11:50 Arghya Sett
Light-up aptasensors - A tool for the detection of RNA hairpins and small molecules

11:50 – 12:10 Farah Bouheda
Evolution of efficient RNA-based fluorescent probes using ultrahigh-throughput functional screening

12:10 – 12:30 Olga Puchta
High-throughput screening of fluorescent RNA aptamers

12:30 Departure