

11th Bordeaux **RNA Club** Symposium

JUNE 9
27-28 **2019** **IECB Auditorium**
2, rue Robert Escarpit
33600 Pessac, France

 Institut
Européen
de Chimie
et Biologie
I E C B

 **RNA CLUB**
Bordeaux



Organized
jointly with

 **APTAMERS**
in Bordeaux

June 28-29, 2019
Bordeaux, France

www.aptamers-in-bordeaux.com

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 eIF4E 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 **Victoria 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 **Jorg 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