

SIFRARN 2016 PROGRAM

TUESDAY, MARCH 8

11:00 - 12:00 ARRIVAL & REGISTRATION

12:00 - 13:30 LUNCH

13:30 - 13:45 WELCOME

13:45 - 14:45 **O1- INTRODUCTORY LECTURE: TAMAS KISS**
The first twenty years of RNA modification guide RNAs

14:45 - 16:15 **SESSION 1 - SMALL NCRNA**
Chairs: *B. Charpentier, B. Felden*

O2- Laetitia Attaiech

Silencing of natural transformation by an RNA chaperone and a multi-target small RNA in *Legionella pneumophila*.

O3- Pierre Mandin

A mixed “incoherent” regulatory circuit composed of a transcription factor, IscR, and a regulatory RNA, RyhB, controls an essential step in Fe-S cluster biogenesis.

O4- Sylvain Egloff

The 7SK snRNP associates with the little elongation complex to promote snRNA gene expression.

O5- Mélodie Migault

A new class of regulators of microRNAs activity: impact on melanoma aggressiveness.

O6- Stéphanie Lalande

Biogenesis and functions of tRNA-derived small non-coding RNAs in plants.

O7- Delphine Kapps

Optimal development of the malaria parasite depends on tRNA trafficking between host and pathogen

16:15 - 16:45 COFFEE BREAK

16:45 - 18:15 **SESSION 2 - TRANSLATION**
Chairs: *A.C. Prats, D. Weil*

O8- Nicolas Locker

Regulation of cytoplasmic RNA granules formation during calicivirus infection.

O9- Dominique Weil

General landscape of DDX6- sensitive pathways in human cells reveals that translation repression protects from decay.

O10- Stefania Millevoi

A novel cytoprotective function for the DNA repair protein Ku in regulating p53 mRNA translation and function.

O11- Estelle Dacheux

Generation of gene expression noise by 5'UTR elements in the yeast *Saccharomyces cerevisiae*.

O12- Bruno Sargueil

Recrutement direct du ribosome par des ARN viraux structurés.

O13- Fransky Hantelys

IRESs as translational enhancers of gene expression in hypoxic stress.

18:30 - 22:00

DINNER & *POSTER SESSION 1* (even numbers)

WEDNESDAY, MARCH 9

08:30 - 09:30

SESSION 3 – DISEASE- EPIGENETIC & LONG NCRNA

Chairs: A. Morillon, J. Cavaillé

O14- Antoine Graindorge

Detection of Xist lncRNA interacting proteins using a novel Luciferase-based Protein-RNA interaction screen.

O15- Sylvain Maenner

Roles for roX RNA and the RNA helicase MLE in the assembly of the dosage compensation complex in *Drosophila*.

O16- Gwenael Badis

Transcriptional interference in exponential and G0 phases in yeast: gene regulation by non-coding antisense transcription.

O17- Maxime Wery

Nonsense-Mediated Decay restricts lncRNAs levels in yeast unless blocked by double-stranded RNA structure

09:30 - 10:30

O18- LABEX NETRNA LECTURE: CLAIRE ROUGEULLE

Long non-coding RNAs and X chromosome inactivation, from mice to men.

10:30 - 11:00

COFFEE BREAK

11:00 - 12:30

SESSION 4 - RNA TURNOVER

Chairs: D. Gagliardi, P. Romby

O19- Magali Leroy

Role of a new endoribonuclease YacP in selective mRNA turnover in *Bacillus subtilis*.

O20- Peter Redder

Controlling RNA decay in *Staphylococcus aureus*.

O21- Duy-Khanh Phung

Towards the identification of archaeal β -CASP ribonuclease and Ski2-like helicase complexes in *P. abyssi*.

O22- Marine Dehecq

Composition and dynamics of NMD complexes in yeast.

O23- Fabienne Mauxion

BTG2 bridges PABPC1 RNA binding domain and CAF1 deadenylase to control cell proliferation.

O24- Cécile Bousquet-Antonelli

Heat-Induced ribosome pausing triggers mRNA co-translational decay in *Arabidopsis thaliana*.

12:30 - 15:00 LUNCH & **POSTER SESSION 2** (odd numbers)- Biorad presentation

15:00 - 16:00 **O25- FEBS NATIONAL LECTURE: JOHN VAN DER OOST**

Bacterial RNA and DNA interference systems : from exploration to exploitation

16:00- 16:45 **SESSION 5 - SFBBM Prizes**

O26- Audrey Coornaert - Prix Dina Surdin 2014

The Two-Component System PhoQ-PhoP is Regulated by Small Regulatory RNAs in *E. coli*

O27- Stefano Marzi - Prix Maurice Nicloux 2015

Role of Escherichia coli ribosomal protein S1 in translation initiation and RNA mediated translation regulation

O28- Lionel Tarrago - Article de l'Année 2015 SFBBM

Monitoring methionine sulfoxide with stereospecific mechanism-based fluorescent sensors.

16:45 - 17:15 COFFEE BREAK

17:15- 19:30 **SESSION 6 - RIBOSOME BIOGENESIS**

Chairs: *M. Fromont-Racine, I. Iost*

O29- Marie Bouvier

Cytoplasmic RNase E interferes with normal ribosome biogenesis.

O30- Natacha Larbaru

Structure of a human pre-40S particle points to a role for RACK1 in the final steps of 18S rRNA processing.

O31- Clément Madru

Chaperoning 5S RNA assembly.

O32- Markus Bohnsack

On the life of the RNA methyltransferase EMG1 and the molecular basis of the Bowen-Conradi syndrome.

O33- Maral Halladjian

Potential role of the Rpf2/Rrs1 heterodimer in the coupling between RNA polymerase I transcription and pre-ribosome maturation in yeast cells.

20:15 - 23:00 DINNER Hôtel Dieu-Toulouse / POSTER AWARDS

THURSDAY, MARCH 10

08:30 - 09:45 **SESSION 7 – SPLICING, 3'END- & RNA MODIFICATION**

Chairs: *D. Auboeuf, M. Simonelig*.

O34- Cyril Bourgeois

The 70K subunit of U1 snRNP controls alternative splicing of a specific class of exons and is involved in neuronal differentiation.

O35- Constance Ciaudo

DGCR8 protein controls the exit of pluripotency of mouse embryonic stem by regulating alternative splicing of Tcf711 mRNA.

O36- Lionel Minvielle-Sébastien

Identification of a new domain adjacent to Pcf11-CID essential for transcription termination

O37- Flore Sinturel

Polyadenylation of ribosomal RNAs at the crossroads of the clock and the food.

O38- Yuri Motorin

High-throughput mapping of 2'-O-methylated residues in RNA by next-generation sequencing

09:45 - 10:45

O39- LABEX NETRNA LECTURE: JEAN-JACQUES TOULME

Riboswitches, aptamers and aptaswitches

10:45 – 11:15

COFFEE BREAK

11:15 - 13:15

SESSION 8 - RNP & RNA STRUCTURE

Chairs: *N. Leulliot / E. Westhof*

O40- Mireia Ferrer

Unveiling the subcellular mechanisms of HIV-1 gRNA dimerization through advanced imaging.

O41- Dominique Burnouf

Folding Dynamics of TPP Riboswitches.

O42- Fabien Darfeuille

The importance of mRNA folding in controlling type I toxin antitoxin expression in *Helicobacter pylori*.

O43- Hubert Becker

Identification of circular RNAs formed by archaeal RNA ligases.

O44- Hilal Yeter

Identification and characterization of the protein partners and RNA substrates of the DEAD-box helicase Ded1: an mRNP cap-associated factor that actively shuttles between the cytoplasm and nucleus.

O45- Séverine Massenet

Implication of NUFIP and components of the SMN complex in the biogenesis of box H/ACA RNPs.

O46- Caroline Vindry

Investigating the possible role of Pat1b, an integral P-body component, in tri-snRNP recycling.

O47- Anne-Catherine Dock-Bregeon

The crystal structure of the 5' functional domain of the non-coding RNA 7SK

13:15 - 13:30

CLOSING REMARKS

13:30

LUNCH (lunch bag) – End of Meeting