

# 1<sup>st</sup> Young Researchers Meeting GDR RNA

Online meeting, June 2, 2021

GDR 2083



**GDR** Groupement  
de recherche

**GDR RNA** RNA as a tool and a target  
for medicinal chemistry and chemical biology

10:00 **Opening & Introduction**

**Session 1.** Session chairs Carine TISNE and Sébastien FRIBOURG

- 10:10 **Amplified fluorescence in situ hybridization by small and bright dye-loaded polymeric nanoparticles**  
Sylvie EGLOFF, Nina MELNYCHUK, Elisabete CRUZ DA SILVA, Andreas REISCH, Sophie MARTIN, Andrey S. KLYMCHENKO  
Laboratoire de Bioimagerie et Pathologies (LBP), Illkirch
- 10:25 **Phosphine-Mediated Bioconjugation of the 3'-end of RNA**  
Camélia KITOUN, Mélanie ETHEVE-QUELQUEJEU  
Laboratoire de Chimie et Biochimie Pharmacologiques et Toxicologiques (LCBPT), Paris
- 10:40 **Dbp6, an RNA helicase essential for ribosome biogenesis**  
Ali KHREISS, Régine CAPEYROU, Anthony HENRAS, Yves HENRY and Odile HUMBERT  
Unité de biologie moléculaire, cellulaire et du développement (MCD), Toulouse
- 10:55 **A rationalized definition of tumor suppressor microRNAs excludes miR-34a**  
Sophie MOCKLY, Hervé SEITZ  
Institut de Génétique Humaine (IGH), Montpellier
- 11:10 **Structural and functional insights into Archaeoglobus fulgidus m2G10 tRNA methyltransferase Trm11 and its Trm112 activator**  
Can WANG, Marc GRAILLE  
Structures biomoléculaires et cellulaires (BIOC), Palaiseau
- 11:25 **Characterization of the 5'UTR elements regulating  $\beta$ -catenin translation in cancer**  
Javier ROL MORENO, Eric ENNIFAR  
Architecture et Réactivité de l'ARN (ARN), Strasbourg
- 11:40 **Biasing RNA coarse-grained folding simulations with Small-Angle X-ray Scattering (SAXS) data**  
Lina ALFERKH, Samuela PASQUALI, Bruno SARGUEIL  
Cibles Thérapeutiques et Conception de Médicaments (CiTCoM), Paris
- 12:00 – 14:00 Lunch break



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**Session 2.** Session chairs Eric ENNIFAR and Françoise DEBART

- 14:00 **lncRNA-directed regulation of adult neural stem cells and neuroregeneration**  
Anna NAWROCKA, Alena SHKUMATAVA  
Génétique et biologie du développement (UGBD), Paris
- 14:15 **New approach for the discovery of new RNA ligands to inhibit the production of oncogenic microRNAs**  
Sylvain POULET, Audrey DI GIORGIO, Maria DUCA  
Institut de Chimie de Nice (ICN), Nice
- 14:30 **Partition of tRNAGly isoacceptors between protein and cell-wall peptidoglycan synthesis in *Staphylococcus aureus***  
Lauriane RIETMEYER, Michel ARTHUR, Matthieu FONVIELLE  
Laboratoire pour Immunologie et Cancérologie Intégratives, Gif sur Yvette
- 14:45 **Dimerization-based fluorogenic dye-aptamer probes for RNA imaging**  
Kyong Tkhe FAM, Rémi PELLETIER, Farah BOUHEDDA, Michael RYCKELYNCK, Mayeul COLLOT, Andrey S. KLYMCHENKO  
Laboratoire de Bioimagerie et Pathologies (LBP), Illkirch and Architecture et Réactivité de l'ARN, Strasbourg
- 15:00 **RNA thermal denaturation under the computational microscope**  
Aimeric DABIN  
Laboratoire de Biochimie Théorique (LBT), Paris
- 15:15 **Mapping RNA-capsid interactions within MS2 Phage using DMS AlkAniline sequencing**  
Katsuri RAORANE  
Ingénierie Moléculaire et Physiopathologie Articulaire (IMoPA), Nancy
- 15:30 **Divalent cations and ribozyme catalysis: a molecular dynamics study**  
Julie PUYO  
Laboratoire de Biochimie Théorique (LBT), Paris
- 15:45 **The G-Quadruplex-RNA-specific precipitation (G4RP)**  
Jérémie MITTEAUX, David MONCHAUD  
Institut de Chimie Moléculaire de l'Université de Bourgogne (ICMUB), Dijon
- 16:00 Concluding remarks

