



PROGRAMME

Day 1 | 17 October 2024

12:00-14:00 **Registration**

14:00-14:10 **Welcome**

SESSION 1 **ECOLOGY** - *Chair Guillaume BORREL*

14:15-14:45 **Purification LOPEZ-GARCIA** (ESE, U. Paris-Saclay) Archaea thriving in geothermal chaotropic brines near life limits

14:45-15:00 **Victoria SEVILLIA** (Institute Pasteur, Paris) Hyperparasitism in the hot springs: Interactions between a virus and its satellite coinhabiting a hyperthermophilic archaeon

15:00-15:15 **Ihab MALAT** (MEPHI, Marseille) Unveiling phages-nanogen interplay: human gastrointestinal tract microbiota dynamics and clinical perspectives

15:15-15:30 **Virginie PILLIOL** (MEPHI, Marseille) *Methanobrevibacter massiliense*–*Pyramidobacter piscolens* partnership from past to present

15:30-15:45 **Emma BOHUON** (ICMCB, Bordeaux) Combining extreme microfluidics and in situ analyses techniques to get close insights into deep-sea vents microbial ecosystems

15:45-16:10 **BREAK & POSTER SESSION**

SESSION 2 **CELL BIOLOGY** - *Chair Bruno FRANZETTI*

16:10-16:40 **Roxane LESTINI** (LOB, E. Polytechnique) Deciphering the replication programme in the archaea *Haloferax volcanii*: Replication of a multicopy circular chromosome with four origins

16:40-16:55 **Tom GARNIER** (BIOC, E. Polytechnique) Elucidating the intracellular organization and biogenesis of *Haloferax volcanii*'s translation machinery by microscopy

16:55-17:10 **Margot SARACCO** (INSA, Lyon) Two sides of a coin: How mutations expose hidden lipids and gene annotation failures in *Pyrococcus furiosus*.

17:10-17:25 **Elisa RAVARO** (MNHN, U. Sorbonne) Development of a Fluorescent Detection System to Analyze Cell Envelope Stability and Activity in Halophilic Archaea

17: 25-17:40 **Emmanuelle MASSOURIDES** (SATT, Paris-Saclay) SATT: its innovation catalysts and calls for applications

17:40-19:15 **ROUND TABLE: FUTURE GDR ARCHAEA**

19:30-23:00 **DINNER AT CHÂTEAU DE BUTTON**



PROGRAMME

Day 2 | 18 October 2024

SESSION 3 PROTEINS & DNA/RNA METABOLISM - *Chair Emmanuelle SCHMITT*

- 9:00- 9:30 **Tristan WAGNER** (IBS, Grenoble) Enlightening the biochemical dark matter of archaea, a crystal-clear guide for investigating native proteins
- 9:30- 9:45 **Leonardo BETANCURT** (Institute Pasteur/NEB, USA) Proofreading Mechanism for Family D DNA polymerases
- 9:45-10:00 **Marie BOUVIER** (MCD, CBI Toulouse) HAN nucleases, key proteins at the interface of DNA and RNA metabolism?
- 10:00- 10h15 **Mael ANSART** (MCD, CBI Toulouse) The RNA Exosome in Thermococcal Archaea: its Interactome and the Heterogeneity
- 10:15- 10:30 **Parsifal Islas MORALES** (CINVESTAV, Mexico) The putative nucleolus in Archaea
- 10:30 – 11:00 **BREAK & POSTER SESSION**

Session 4 EVOLUTION - *Chair Céline BROCHIER*

- 11:00-11:30 **Sophie ABBY** (TIMC, U. Grenoble Alpes) MacSyFinder v2: Improved modelling and search engine to identify molecular systems in genomes
- 11:30-11:45 **Brittany BAKER** (ESE, U. Paris-Saclay) A unique origin of DPANN archaea from free-living, euryarchaeal-like ancestors
- 11:45-12:00 **Clémence LAUDEN** (LABGeM, Genoscope Evry) MetaPangenomic analysis within the Thermococcales
- 12:00-12:15 **Patrick FORTERRE** (I2BC, U. Paris-Saclay) Evidence that gene transfers between Asgard archaea and proto-eukaryotes played a major role in eukaryogenesis
- 12:15-12:30 **Laura Eme** (ESE, IDEEV, U. Paris-Saclay) Relationships between Archaea and Eukaryotes: what do we know, and how?"
- 12:30-12:45 **Closing- Talk & Poster prizes (SFBBM)**