



Symposium Archaea 2026

Muséum National d'Histoire Naturelle, Paris
Auditorium Grande Galerie de l'Evolution

PROGRAMME

Day 1 | 2 April 2026 Registration starts at 11am

12:30-12:45 **Welcome**

12:45-13:30 **Invited Speaker David Moreira** (*AgroParisTech /CNRS /University of Paris-Saclay*)

The long road toward a resolved phylogeny of Archaea (and eukaryotes)

Chair : Tamara Basta-Le Berre

SESSION 1 The Evolution, Diversity and Ecology of Archaea

Chairs : Mart Krupovic & Puri Lopez-Garcia

13:30-13:45 **Tom Garnier*** (*Ecole Polytechnique/CNRS, Palaiseau*) Characterizing intracellular organization and stress adaptation of *Haloferax volcanii*'s translation machinery and its biogenesis by microscopy

13:45-14:00 **Clémence Lauden*** (*CEA/Genoscope/Université Evry-Val-d'Essonne/CNRS*) Meta Pangenomic analysis of the metabolic pathways within the *Thermococcales*

14:00-14:15 **Brittany Baker*** (*Institut Pasteur, Paris*) Unraveling the Biosynthetic Pathways and Evolution of Archaeal Peptidoglycan Cell Walls

14:15-14:30 **Océane Lazzeroni*** (*MIO/IRD/universités AIX-Marseille & Toulon/CNRS, Marseille*) Culture of extremophilic microorganisms into Enceladus-like conditions: in search of biosignatures for future space missions

14:30-14:45 **Margot Saracco** (*INSA de Lyon/CNRS/Université de Lyon*) Reassessment of *Thermococcales* membrane lipids reveals determinants of thermal stability.

COFFEE BREAK & POSTER SESSION 1

SESSION 2 Fundamental Molecular Mechanisms - From translation to replication

Chairs : Roxane Lestini & Marta Kwapisz

15:15-15:30 **Clément Madru** (*Ecole Polytechnique/CNRS, Palaiseau*) A New Family of Ribosome Hibernation Factor in Archaea

15:30-15:45 **Federico Musso*** (*IBS/CEA/Univ Grenoble*) Apa is a new ATP-independent proteasome activator from hyperthermophilic Archaea

15:45-16:00 **Joaquin Atalah*** (*IBS/CEA/Univ Grenoble*) Structural basis of substrate specificity in hyperthermophilic tetrahedral peptidases

16:00-16:15 **Yann Moalic** (*LabISEN/ISEN Yncréa Ouest/Bretagne*) Genome-wide mapping of ribonucleotides in Archaea reveals new insights into DNA replication and repair

16:15-16:30 **Marion Tassoni*** (*MCD-CBI/CNRS/Université de Toulouse*) HAN: an Archaea specific exonuclease, at the crossroads of transcription–replication conflicts ?

16:45-17:00 **Marie Imbert*** (*Institut Pasteur/CNRS/Université Paris Cité*) Uncovering the Molecular Mechanisms of Homologous Recombination in Archaea

*PhD or Postdoc



Symposium Archaea 2026

Muséum National d'Histoire Naturelle, Paris
Auditorium Grande Galerie de l'Evolution

17:00-18:30 **POSTER SESSION 2 (PHD/POSTDOC)**
(Salle des Collections, 63 rue Buffon, Laboratoire MCAM)

17:45-18:30 **ROUND TABLE** Chair : *Ludovic Sauguet*
Réseau thématique Archées Project
(Salle des Collections, 63 rue Buffon, Laboratoire MCAM)

Day 2 | 3 April 2026

10:00-10:45 **Invited Speaker Christa Schleper** (Dep. of Functional and Evolutionary Ecology, Univ. of Vienna, Austria) Cell Biology and Crawling Motility of an Asgard Archaeon
Chair : *Tamara Basta-Le Berre*

SESSION 3 Fundamental Molecular Mechanisms - From Virus to Metabolism

Chairs : *Ghislaine Henneke & Ludovic Sauguet*

10:45-11:00 **Murielle Seif Dahan*** (Institut Pasteur/CNRS/Université Paris Cité) A new family of tiny archaeal virus polymerases with high DNA and RNA synthesis potential

11:00-11:15 **Magdalena Gerhalter*** (BIOC, Ecole Polytechnique, Palaiseau) Development of orthogonal archaeal ribosomes for the targeted production of biomolecules

11:15-11:30 **COFFEE BREAK**

11:30-11:45 **Miguel V. Gomez-Raya-Vilanova*** (Institut Pasteur/CNRS/Université Paris Cité) Archaeal virus rewires the host metabolism and manipulates the cell cycle

11:45-12:00 **Julie Mathieu*** (Institut Pasteur/CNRS/Université Paris Cité) Identification and characterization of a potential CoM transporter

12:15-12:30 **Marion Illartin*** (Ifremer/CNRS/Université de Bretagne Occidentale) Sulfur and hydrogen metabolism regulation in *Thermococcus barophilus*

12:30- 12:45 **CONCLUDING & SFBBM POSTER /TALK PRIZES**

14:00-15:00 **SEMINAR FOR THE GENERAL PUBLIC® (IN FRENCH)**

Adrienne Kish (MNHN, Paris) Universe! ? De la vie dans un cristal de sel à l'exploration spatiale

link @ <https://teams.microsoft.com/meet/32120015029824?p=me8Nbm5GuuNgfjMz4q>

Meeting ID: 321 200 150 298 24

Passcode: aS3Ce2So

*PhD or Postdoc