

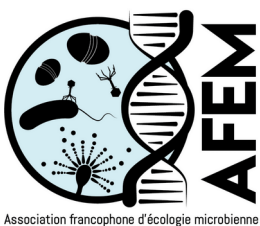


Microbes Symposium - May 28-29, 2026

Building 530, Université Paris-Saclay,

Rue Andre Riviere, Orsay

Generously supported by :



Microbes Symposium by young researchers

Thursday, May 28th 2026

Welcome - Coffee

9h00 - 9h30 Breakfast & coffee
9h30 - 9h35 Introduction

Session 1) Ecology and evolution

Chairs: Benjy Sedano-Herrera, Malak Chhimi

9h35 - 10h00 **Lisa Jourdain** (Swiss Federal Institute of Technology Lausanne, Switzerland)
Environmental selection constrains metabolic network architecture despite taxonomic turnover in anaerobic digestion communities

10h00 - 10h25 **Rugile Puteikiene** (Vilnius University, Lithuania)
A bacterial antiphage system driven by SSB-mediated ssDNA sensing and tRNA cleavage

Pitch session

10h25 - 10h40 **Ambre Giau** (Institut de M canique des Fluides de Toulouse, France)
Microfluidic generation of combined antibiotic and oxygen gradients to probe the interplay between taxis and antimicrobial resistance

Louise Penven (Paris-Saclay University, France)
c-di-AMP–regulated stress-response pathways and their role in cell wall remodeling in *Clostridioides difficile*

Maud Hofmann (Institut Micalis, INRAE, France)
The Split GFP Rheostat : a novel tool for quantifying protein expression costs

Break

10h40 - 11h10 Poster session/ Coffee break

Session 1) Ecology and evolution (continued)

11h10 - 11h35 **Aniket Saraf** (Institut Pasteur, France)
Loss of multicellularity and sporadic microcystin production in the 4 basal cyanobacterial order *Pseudanabaenales*

11h35 - 12h00 **Paul Roginski** (Paris-Saclay University, France)
Neglected microbial lineages and the birth of eukaryotic protein domains: A structural phylogenetics perspective

Break

12h - 13h30 Lunch time

Session 2) Extreme environments

Chairs: Ines Ochoa, Victor Septavaux

- 13h30 - 13h55 **Raul Roman** (Almeria University, Spain)
Who wakes up when it rains? Fast responders control microbial activity in dryland soils
- 13h55 - 14h20 **Lewen Liang** (Paris-Saclay University, France)
Cultivating Asgard archaea from microbial mats in the Chilean Altiplano
- 14h20 - 14h45 **Agathe Struillou** (Paris-Saclay University, France)
Environmental gradients shape microbial communities and Asgard archaeal associations across the Andean Altiplano

Pitch session

- 14h45 - 15h **Erik Habek** (Institut Micalis, France)
Development of a platform strain of *Yarrowia lipolytica* optimized for acetate utilization and pigment bioproduction
- Imene Mehidi** (Paris-Saclay University, France)
Penicillin-Binding Protein 3 in carbapenem-resistant *Escherichia coli* isolates from France: phylogeny, β -Lactamases, and β -Lactam susceptibility profiles
- Ylan Clodine-Florent** (ENS Paris-Saclay, France)
A Vascularized Liver-on-a-Chip for Early Detection of Sepsis

Break

- 15h - 15h30 Poster session/ Coffee break

Session 2) Extreme environments (continued)

- 15h30 - 15h55 **Guillaume Masson** (Centrale Sup elec, France)
Astrobiology, Titan and the Dragonfly Mission: Exploration of a planet-sized prebiotic environment to understand life's origin
- 15h55 - 16h20 **Gautier Prot** (INRAE, France)
Enriching for extremophilic, autotrophic sulfide oxidizers growing on nitrate: toward sustainable depollution of sulfidic streams

Pitch session

- 16h20 - 16h35 **Maria Al Chidiac** (INRAE, France)
Altered cell wall architecture in a small colony variant of *Staphylococcus aureus*
- Clara Sube** (Paris-Saclay University, France)
Understanding proteome allocation regulation mediated by Crp and DksA for an optimized microbial bioproduction
- Margot Magnier** (INRAE, France)
Mechanisms of synthesis and release by the exocyst complex of fungal extracellular vesicles produced by phytopathogens

Poster session

- 16h35 - 18h30

Dinner at Brass&Co

19h15

Microbes Symposium by young researchers

Friday, May 29th 2026**Welcome - Coffee**

9h00 - 9h30 Breakfast & coffee

Session 3) Biotechnology and engineering**Chairs:** Amel Abdennour, Arthur Loup

9h30 - 9h55 **Chloe Sasson** (Center for Structural Biology, France)
Engineering synthetic differentiation circuits for bacterial therapeutic combination

9h55 - 10h20 **Christlain Coubard** (Centrale Sup lec, France)
Growth and oxygen profiles in microalgae biofilms

Pitch session

10h20 - 10h35 **Rania Kamergi** (Centrale Sup lec, France)
Tracking *Haematococcus lacustris* biofilm traits using proximal sensors

Matisse Ferrer (G noscope, France)
Development and evolution of synthetic auxotrophic mutualistic bacterial co-cultures for optimized bioproduction

Houda Moustaghfir (Paris-Saclay University, France)
Development of a triple staining method to evaluate *Saccharomyces cerevisiae* vitality in challenging conditions via Flow Cytometry

Break

10h35 - 11h05 Poster session/ Coffee break

Session 3) Biotechnology and engineering (continued)

11h05 - 11h30 **M lanie Pietri** (ENS Paris-Saclay, LumIN, France)
Scaling microalgae cultivation: from environmental effects on biomass productivity to a predictive hybrid modeling framework

11h30 - 11h55 **Clara Dupre** (ESPCI Paris, France)
Microbial communities: can we link a function to an initial composition?

Break

11h55 - 13h30 Lunch time

Sponsor

13h30 - 13h55 Novogene

Session 4) Health and diseases

Chairs: Ang line Girard, Laetitia Cardona

13h55 - 14h20 **Jazmin Meza Torres** (Oxford University, UK)
Harnessing the competitive abilities of gut commensals to clear antimicrobial resistant pathogens in a gut-on-a-chip model

14h20 - 14h45 **Eleanor Rockliff** (Newcastle University, UK)
Characterizing an exposed pathogen: insights from s-layer deletion in *C. difficile*

Pitch session

14h45 - 15h00 **Siqi Qiu** (Paris-Saclay University, France)
Fungal dysbiosis in alcohol-associated liver disease: community level restructuring associated with host exposure and disease progression
C lia Kemmat (Paris-Saclay University, France)
Human Papillomavirus 18 replication reshapes innate immune receptors expression in 3D epithelial cultures
Magali Tirado (Universit  de Lorraine, CNRS, INRAE, France)
The coelimycin cis-AT polyketide synthase forms macro-complexes in its host *Streptomyces coelicolor*

Break

15h00 - 15h30 Poster session/ Coffee break

Session 4) Health and diseases (continued)

15h30 - 15h55 **Ronan Soudy** (Paris-Saclay University, INRAE, France)
Exploring gut inflammation and microbial dysbiosis in spondyloarthritis using patient-derived caecal organoids

15h55 - 16h20 **Ferial Lounis** (ANSES - Foug res Laboratory, France)
Reevaluation of tetracyclines dosing regimens in livestock using a pharmacokinetic/pharmacodynamic (PK/PD) approach

Poster awards from AFEM

16h20 - 16h40

Closing remarks

16h40 - 17h