

3RD MICROBIOLOGY DAY 2022

Domaine du Haut-Carré, Agora, Talence

• 8.30 am

Welcome

• 9.00-9.05 am

Introduction

Sabine Pereyre on behalf of the organization committee

• 9.05 am-10.35 am

Understanding infectious agents

Chairs : Karine Frenal, Fabienne Rayne

- **9.05 am:** Lamia Azzi-Martin: The bacterial genotoxin, cytolethal distending toxin, modulates cell differentiation and elicit epithelial to mesenchymal transition.
- **9.20 am:** Deborah Schöneegger: Network analysis of the carrot virome in managed and wild ecosystems.
- **9.35 am:** Lucia Torrez Sanchez: Crystal-clear: Mechanistic insights into crystalline cellulose secretion.
- **9.50 am:** Léa Bientz: Silent outbreak of IMP-13-producing *Pseudomonas aeruginosa*, a carbapenemase located on an ICE.
- **10.05 am:** Simon Bonabal: Lessons from toxin-antitoxin systems in bacterial pathogens.
- **10.20 am:** Zahyra Kaouah: *In vitro* efficacy of antibiotic combinations on clinical isolates of

Helicobacter pylori.

• 10.35-11 am

Coffee break

• 11 am-12 pm

La microbiologie dans l'industrie

Chair: Thierry Noël

- **11.00 am:** Christophe Frémaux: International Flavors and Fragrances (IFF)
 - **11.15 am:** Wilfried Mazier: Ysopia Biosciences
 - **11.30 am:** Philippe Marullo: BioLaffort
 - **11.45 am:** Antoine Brège: Dionymer
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• 12 pm

Lecture

Olivier Neyrolles: Host-pathogen interactions in tuberculosis

Chair : Laure Béven

• 1 pm-2 pm

Lunch

• **2 pm-3.15 pm**

Innovations in microbiology

Chairs: Marie Sissler, Fabien Darfeuille

- **2 pm:** [Fernanda Lopez Garcia](#): Development of an “Intestine-On-Chip” with advanced customized optical microscopy to study infections by opportunistic pathogenic yeast *Candida*.
- **2.15 pm:** [Anaïs Cario](#): Monitoring extremophiles’ growth using extreme microfluidics.
- **2.30 pm:** [Alexia Damour](#): Evaluation of anti-SARS-CoV-2 vaccination efficacy with a syncytia-fusion assay applied to high content microscopy applied to patients with severe neuromuscular diseases.
- **2.45 pm :** [Audrey Gauthier](#): Rapid antimicrobial susceptibility testing by SdFFF: a proof-of-concept study.
- **3.00 pm:** [Ulysse Guyet](#): ARSENAL: Antimicrobial ReSistance prEdictionN by mAchine Learning approach.

• **3.15-3.30 pm**

Coffee break

• **3.30-4.30 pm**

Poster session

• **4.30-5.15 pm**

Physiology of microorganisms

Chairs: Olivier Barraud , Eugenia Basyuk

- **4.30 pm:** [Sandra Da Re](#): Microniches in biofilm depth are hot-spots for antibiotic resistance acquisition in response to in situ stress.
- **4.45 pm:** [Bastien Lambert](#): Shape control of minimal cells by reconstitution of *Spiroplasma citri* cytoskeleton.
- **5 pm:** [Cécile Feuillie](#): Evaluation of *Staphylococcus aureus* adhesion on different vascular grafts by atomic force microscopy.

• **5.15-5.30 pm**

Awards and conclusion

Sabine Pereyre, Laure Béven on behalf of the organization committee

