

Programme

PHAGES in LYON 2023



Eighth Symposium of the French Phages.fr Network

27-29 Novembre 2023

Domaine Lyon Saint Joseph



Lundi 27 Novembre 2023

12:45 - 13:45	Pause	Enregistrement et accueil des participants
13:45 - 14:00	Discours	Accueil au nom du réseau Phages.fr et des organisateurs.rices
14:00 - 16:00	Session	Ecologie et Evolution Modérateur.trice : M. Ansaldi / F. Lecointe <i>with the support of SFM</i>
14:00 - 14:40		› Bacteriophages in battle – how an anti-phage system distinguishes friend from foe - Jakob Rostøl, Centre for Bacterial Resistance Biology, Imperial College - INVITED SPEAKER
14:40 - 15:00		› Genomics-based prediction of the phage-bacteria interactions at the species level - Hugo Vaysset, Institut Pasteur
15:00 - 15:20		› Study of a potential antiphage system of the "abortive infection" type regulated by a non-coding RNA in <i>Clostridioides difficile</i> - Marion Saunier, AP-HP. Université Paris Saclay, Université de Sherbrooke
15:20 - 15:40		› The diversity and mobilization potential of P4-like phage satellites - Jorge Moura de Sousa, Université de Paris, Institut Pasteur, CNRS UMR3525, Microbial Evolutionary Genomics
15:40 - 16:00		› Origins and rate of mutations in bacteriophage Lambda - Julien Lopez, Microbiologie de l'alimentation au service de la santé
16:00 - 16:30	Pause	Pause café et rafraichissements
16:30 - 18:30	Session	Ecologie et Evolution Modérateur.rice : M-A Petit / S. Gandon
16:30 - 16:50		› Inferring the life-history traits of new viral variants from epidemiological and evolutionary dynamics - Wakinyan Benhamou, Centre d'Ecologie Fonctionnelle et Evolutive
16:50 - 17:10		› Phage susceptibility in phytopathogenic <i>Pseudomonas syringae</i> strains from different ecological niches - Chloé Feltin, Pathologie végétale, INRAE
17:10 - 17:30		› Advances in understanding the ecology of bacteriophages in cheese - Eric Dugat-Bony, UMR SAYFOOD
17:30 - 17:50		› Identifying novel virus families infecting nitrifying archaea and bacteria in soil - Sungeun Lee, Ecole Centrale de Lyon
17:50 - 18:10		› Oxidative stress influences the evolution of a synthetic community of gut bacteria and bacteriophage - Coline Meynard-Doumenc, Microbiote, intestin et inflammation [CRSA]
18:10 - 18:30		› Induction of prophages by bacteriocins in <i>Escherichia coli</i> fecal isolates - Caroline Henrot, Bactériophage, bactérie, hôte, MICrobiologie de l'Alimentation au Service de la Santé
19:00 - 19:45	Pause	Assemblée Générale PHAGES.fr
20:00 - 21:30	Pause	Gala d'ouverture
21:30 - 23:30	Pause	Happy Hour - Détente au bar / Networking / Posters

Mardi 28 Novembre 2023

07:00 - 08:20	Pause	Petit déjeuner
08:30 - 10:10	Session	Structure et Assemblage Modératrices : A. Goulet / C. Breyton
08:30 - 09:10		› Probing the world of phage specificity: a glimpse into receptor binding protein structures and their development as diagnostic bio-probes - Matthew Dunne, ETH Zurich, Switzerland INVITED SPEAKER
09:10 - 09:30		› Cryo-electron tomography study of bacterial cell wall perforation by bacteriophage T5 - D'Acapito Alessio, Institut de biologie structurale
09:30 - 09:50		› Mechanisms of assembly and evolution of the dsDNA gatekeeper from the tailed viruses-herpesviruses lineage - Paulo Tavares, I2BC
09:50 - 10:10		› Structural insights into host-binding machineries of mycobacteriophages revealed by AlphaFold2 - Adeline Goulet, Laboratoire d'ingénierie des systèmes macromoléculaires
10:10 - 10:40	Pause	Pause café et rafraichissements - Session Posters
10:40 - 12:00	Session	Interaction Phage-hôte Modératrices : O. Rossier / P. Boulanger
10:40 - 11:00		› Deciphering the interaction specificity of <i>Clostridioides difficile</i> bacteriophages - Alexia Royer, Université Paris-Saclay, Université de Sherbrooke
11:00 - 11:20		› Molecular mechanisms of phage MDAΦ entry in <i>Neisseria meningitidis</i> - Clémence MOUVILLE, Institut Necker Enfants-Malades
11:20 - 11:40		› Bacteriophage 933W can reach brain tissues of <i>Escherichia coli</i> monocolonized mice, provided its <i>stx</i> eukaryotic promoter is functional - Marie-Agnès PETIT, MICrobiologie de l'Alimentation au Service de la Santé
11:40 - 12:00		› Determining the main causes of phage resistance in clinical strains of <i>Pseudomonas aeruginosa</i> - Clarisse Plantady, Institut Cochin, Phaxiam Therapeutics

12:00 - 14:00	Pause	Déjeuner Cocktail - Session Posters
14:00 - 16:00	Session	Thérapie et Biotechnologie Modérateurs : F. Laurent / A. Bleibtreu <i>with the support of the SPILF</i>
14:00 - 14:40		› Phages for Infections in Israel – The Israeli phage therapy center - Ran Nir-Paz, IPTC and Department of Clinical Microbiology and Infectious Diseases, Hadassah-Hebrew University Medical center, Israel - INVITED SPEAKER
14:40 - 15:00		› Phage therapy and multidrug-resistant Escherichia coli: Isolation, selection, production of therapeutic phages and demonstration of their in vivo effectiveness in gut decolonization - Floriane Laumay, Institut des Agents Infectieux, Lyon.
15:00 - 15:20		› Anti- <i>P. aeruginosa</i> phage development for clinical applications - Cindy Fevre, Phaxiam Therapeutics
15:20 - 15:40		› Antigen self-anchoring onto bacteriophage T5 capsid-like particles for vaccine design - Pascale BOULANGER, Institute for Integrative Biology of the Cell (I2BC)
15:40 - 16:00		› Optical trapping for the SUpErfast Photonic detection of bacterioPhage Lysis (SUPPLY) - Pierre R. Marcoux, Univ. Grenoble Alpes, CEA, Leti
16:00 - 16:30	Pause	Pause café et rafraichissements - Session Posters
16:30 - 17:50	Session	Thérapie et Biotechnologie Modérateurs : R. Froissart / L. Debarbieux <i>with the support of the ESGS</i>
16:30 - 16:50		› Selection of therapeutic anti- <i>Staphylococcus</i> phages: in-depth in vitro characterization and in silico study of putative bacterial determinants of phage activity - Camille Kolenda, Service de bactériologie, Centre National de Référence des Staphylocoques, Institut des Agents Infectieux, Equipe StaPath
16:50 - 17:10		› Current and future clinical phage product quality control in Belgium - Mathieu De Jode, Sciensano
17:10 - 17:30		› Engineered phages as a potential solution to treat <i>Clostridioides difficile</i> infections? - Louis-Charles Fortier, Université de Sherbrooke
17:30 - 19:30	Pause	Session Posters
20:00 - 21:30	Pause	Diner de Gala
21:30 - 23:30	Pause	Happy Hour - Détente au bar / Networking / Posters

Mercredi 29 Novembre 2023

07:00 - 08:20	Pause	Petit déjeuner
08:30 - 10:10	Session	Interaction Phage-hôte Modératrices : Clara Torres-Barcelo / L. de Sordi
C. H08:30 - 09:10		› Bacteriophages crossing bacterial envelopes - Stefanie BARBIRZ, MSB Medical School Berlin INVITED SPEAKER
09:10 - 09:30		› Assessment of the carrier state life cycle in the lactic acid bacterium <i>Oenococcus oeni</i> following infection by distinct virulent phages - Amel Chaïb, Unité Mixte de Recherche Œnologie, Villenave d'Ornon
09:30 - 09:50		› The phages which don't kill <i>Xanthomonas hortorum pv. vitians</i> , doesn't make it stronger: molecular determinants and trade-off in planta - Anaelle BAUD, Laboratoire d'Ecologie Microbienne, UMR CNRS 5557, UMR INRAE 1418, VetAgro Sup
09:50 - 10:10		› A novel strategy evolved by bacteriophage T5 to prevent <i>E. coli</i> general stress response - Nicolas Ginet, Laboratoire de chimie bactérienne
10:10 - 10:40	Pause	Pause café et rafraichissements - Session Posters
10:40 - 12:00	Session	Interaction Phage-hôte Modérateurs : C. Le Henaff / X. Bellanger
10:40 - 11:00		› The blood virome in Crohn's disease - Quentin Lamy-Besnier, MICALIS, Centre de Recherche Saint-Antoine
11:00 - 11:20		› Bacteriophage translocation across the intestinal barrier in inflammatory bowel disease - Clara Douadi, Microbiote, intestin et inflammation [CRSA], Paris Center for Microbiome Medicine
11:20 - 11:40		› Characterization of a (p)ppApp synthetase belonging to a new family of polymorphic toxin associated with temperate phages - Julie VIALA, Laboratoire d'ingénierie des systèmes macromoléculaires
11:40 - 12:00		› Characterization of new molecular partners involved in filamentous phage infection - Callypso Pellegri, Laboratoire d'ingénierie des systèmes macromoléculaires
12:00 - 12:10	Discours	Conclusions

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