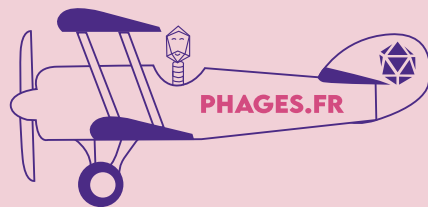


12-14 NOVEMBRE NANCY



10th SYMPOSIUM!

PROGRAM 2025



2025 PHAGES_{IN}
NANCY

Wednesday, Nov 12	Thursday, Nov 13	Friday, Nov 14
	8:30-8:45 Welcome participant	
	8:45-10:15 Session 2 <i>Phage-Host interaction / Cellular Scale</i>	8:45-9:00 Welcome participant
	8:45 Plenary of Jennifer Mahony	9:00-10:00 Session 4 <i>Social Sciences</i>
	10:15-10:45 Coffee Break	9:00 Plenary of Dmitriy Myelnikov
	10:45-11:30 Session 2 <i>Phage-Host interaction / Cellular Scale</i>	10:00-10:30 Coffee break
	11:30-12:00 Flash Talks Session 2	10:30-12:15 Session 5 <i>Applications in Therapy and Biotechnologies</i>
		10:30 Plenary of Rob Lavigne
	12:15-14:00 Lunch at the Hippodrome	12:15-12:30 Concluding of the conference
13:00-14:00 Welcome participant & badge pick up		12:30-14:00 Lunch bag - upon registration
14:00-14:15 Opening of the conference	14:00-15:30 Session 3 <i>Structure and Assembly / Molecular Scale</i>	14:00-17:00 Phages, MICI, Phagothérapie & Co Free, upon registration
14:15-16:00 Session 1 <i>Ecology and Evolution / Population Scale</i>	14:00 Plenary of Giuseppina Marianov	
14:15 Plenary of Maite Muniesa	15:30-16:00 Coffee Break	
16:00-16:30 Coffee Break	16:00-16:30 Session 3 <i>Structure and Assembly / Molecular Scale</i>	
16:30-17:00 Session 1 <i>Ecology and Evolution / Population Scale</i>	16:30-17:30 General assembly of Phages.fr	
17:00-17:30 Flash Talks Session 1		
17:30-19:00 Poster viewing	17:30-19:00 Poster viewing	
19:00-21:00 Welcome party		
21:00-23:00 General audience conference Amphi 400	20:30 Gala dinner - CCI Nancy upon registration	

WEDNESDAY, NOVEMBER 12

13:00-14:00	Welcome participant
14:00-14:15	Opening of the conference
14:15-17:00	Session 1. Ecology and Evolution / Population Scale Chairs: Sébastien Weilgoss and Marianne de Paepe
14:15	Novel CrAss-phages as indicators of antibiotic resistance genes Maite MUNIESA <i>University of Barcelona, Spain</i>
15:00	Impact of infection by virulent phages on prophage induction in <i>Staphylococcus aureus</i> Pierre-Alexandre PASTOURIAUX <i>Université Claude Bernard Lyon 1, France</i>
15:15	tyPPing enhances identification of phage-plasmids Karina ILCHENKO - <i>Université Paris-Saclay, INRAE, France</i>
15:30	Strain-specific phage predation modulates bacterial diversity under contrasting nutrient conditions Thania SBAGHDI <i>Department of Fundamental Microbiology, University of Lausanne, Switzerland</i>
15:45	Microviridae diversity and host association in the Seine river Alisa LANGLAIS <i>ECOBIO, Université de Rennes, France</i>
16:00-16:30	Coffee Break
16:30	The phageome of apricot trees and its association with bacterial canker disease Chloé FELTIN <i>INRAE, Pathologie Végétale, France</i>
16:45	Latent period variability and viral dynamics Marian DOMINGUEZ-MIRAZO <i>PHIM Plant Health Institute, INRAE, France</i>
17:00-17:30	Flash Talks Session 1 F1-F6
17:30-19:00	Poster viewing – Room Bagard
19:00-21:00	Welcome party – Hall of the Faculty of Pharmacy, Building 2
21:00-23:00	General audience conference – Amphi 400, Building 2

THURSDAY, NOVEMBER 13 | MORNING

8:30-8:45	Welcome participant
8:45-11:30	Session 2. Phage-Host interaction / Cellular Scale Chairs: Marion Dalmasso and Eugen Pfeifer
8:45	Phage-host interactions in <i>Streptococcus thermophilus</i>: "Variations on a theme" Jennifer MAHONY <i>University College Cork, Ireland</i>
9:30	Diversity and activity of prophages in <i>Streptococcus agalactiae</i>: insights into phage-host interactions Amel CHAÏB <i>Laboratoire de Chimie Bactérienne, AixMarseille Université, Marseille, France</i>
9:45	From host to phage: evolution and function of Nucleoid-Associated Proteins Pauline MISSON <i>Department of Epigenetics, Medical Research Council Laboratory of Medical Sciences, UK</i>
10:00	Prophage-inducing bacteriocins are frequent in <i>Escherichia coli</i> intestinal isolates Caroline HENROT <i>Micalis, INRAE & Institut Pasteur, France</i>
10:15-10:45	Coffee Break
10:45	Latent glucosyltransferase functionality enables phage survival in hosts encoding multiple defense systems Luis RAMIREZ-CHAMORRO <i>Micalis Institute, INRAE, France</i>
11:00	Targeting Shiga toxin-converting phage: from taxonomic analysis to protective defence systems Samantha TUCKER <i>School of Infection and Immunity, University of Glasgow, Scotland</i>
11:15	Imaging of bacteriophage particle assembly <i>in vivo</i>: a path from the cytoplasmic membrane to warehouses in the compartmentalized bacterial cell Audrey LABARDE <i>Université Paris-Saclay, CEA, CNRS, France</i>
11:30-12:00	Flash Talks Session 2 F7-F14
12:15-14:00	Lunch – Hippodrome restaurant

THURSDAY, NOVEMBER 13 | AFTERNOON

14:00-16:30	Session 3. Structure and Assembly / Molecular Scale Chairs: Benoît Pons and Christophe Rouillon
14:00	Modularity of Zorya defense systems during phage inhibition Giuseppina MARIANO <i>University of Glasgow, Scotland</i>
14:45	The auxiliary protein gp12 of bacteriophage SPP1, a model of prokaryotic collagens Héloïse CROIZET <i>Department of Virology, I2BC, France</i>
15:00	Cryo-electron tomography study of bacterial cell wall perforation by bacteriophage T5 Alessio D'ACAPITO <i>Université Grenoble Alpes – Institut de Biologie Structurale, Grenoble, France</i>
15:15	Diversification of molecular pattern recognition in bacterial NLR-like proteins Nathalie BECHON <i>IAME, UMR 1137, Université Paris Cité et Inserm, France</i>
15:30-16:00	Coffee break
16:00	Duplication-rich <i>Felixounavirus</i> genomes encode GlaF, a Gp2.5-like annealase defining a new family of phage recombinases Quentin LAMY-BESNIER <i>Institut Pasteur, Université Paris Cité, France</i>
16:15	Empathi: Embedding-based phage protein annotation tool by hierarchical assignment Alexandre BOULAY <i>Mathématiques appliquées et Informatique, LJK Université Grenoble Alpes, France</i>
16:30-17:30	General assembly of Phages.fr
17:30-19:00	Poster viewing - Room Bagard
20:00	Gala dinner – CCI Nancy

FRIDAY, NOVEMBER 14 | MORNING

8:45-9:00	Welcome participant
9:00-10:00	Session 4. Social Sciences Chairs: Charlotte Whittington and Carole Eldin
9:00	The history of bacteriophage therapy across the Iron Curtain Dmitriy MYELNIKOV <i>University of Cambridge, UK</i>
9:45	Public Hospital-Based Phage Therapy in France: Rethinking Innovation Through a Public Health Lens Koichi KAMEDA <i>Institut de Recherche pour le Développement, France</i>
10:00-10:30	Coffee Break
10:30-12:15	Session 5. Applications in Therapy and Biotechnologies Chairs: Marianne Nicolas and Laurent Debarbieux
10:30	Developing novel SynBio and antibacterial design strategies inspired by phage Rob LAVIGNE <i>KU Leuven, Belgium</i>
11:15	Self-regenerating phage-loaded hydrogels: a synergistic prophylactic approach against staphylococcal skin infections Emilie CENRAUD <i>LCPME, CNRS, Université de Lorraine, France</i>
11:30	Activity of a cocktail of therapeutic phages in an ex vivo model of <i>Staphylococcus aureus</i> keratitis Lucas SEJOURNET <i>Croix Rousse Hospital, Hospices Civils de Lyon, France</i>
11:45	PHAGEinLYON – THERAPhage: isolation and characterization of bacteriophages active against <i>Pseudomonas aeruginosa</i> for therapeutic human use Cindy GUERIN <i>Institut des Agents Infectieux, Hospices Civils de Lyon, France</i>
12:00	Phage-derived endolysins enable targeted editing of the gut microbiota and uncover niche overlap between oral and butyrate-producing taxa Julian R. GARNEAU <i>Department of Fundamental Microbiology, University of Lausanne, Switzerland</i>
12:15-12:30	Concluding of conference

FLASH TALKS & POSTERS

2025 PHAGES^{IN}
NANCY

Ecology and Evolution / Population Scale
Session 1 | Wednesday, Nov 12 | 17:00-17:30

F1	Viruses in your cider? Uncovering new phages in fermentation Alexandre MÉGEVAND <i>Normandie Univ, UNICAEN, UNIROUEN, ABTE, Caen, France</i>
F2	Role of prophages in antiviral resistance in <i>Pseudomonas aeruginosa</i> Josie ELLIOTT <i>MMSB-Lyon, CNRS, France</i>
F3	Abundance and diversity of phage populations in different cheese varieties Eric DUGAT-BONY <i>UMR SayFood, Université Paris-Saclay, INRAE, AgroParisTech, France</i>
F4	OCCIPHAGE: Exploring phage diversity for a sustainable biocontrol of <i>Xanthomonas</i> crop pathogens Lionel GAGNEVIN <i>PHIM, CIRAD-IRD-INRAE, France</i>
F5	1st year of EPIPHAGES-OI project: Extended EPIdemiological surveillance of the <i>Ralstonia solanacearum</i> species complex and their bacterioPHAGES as natural antagonists – presents in the Indian Ocean Fernando CLAVIJO-COPPENS <i>CIRAD - UMR PVBMT Pôle de protection des plantes (3P), Saint Pierre-Ile de la Réunion, France</i>

Phage-Host interaction / Cellular Scale
Session 2 | Thursday, Nov 13 | 11:30-12:00

F6	Characterization of CtMAD Domain in MuF Phage Proteins: A Potential Factor in Phage-Host Interactions Adrián GARCÍA PÉREZ <i>Laboratoire d'Ingénierie des Systèmes Macromoléculaires, Aix-Marseille University, France</i>
F7	Regulation of anti-phage systems: a single-cell approach in <i>E. coli</i> F Judith SAR <i>Laboratoire de Chimie Bactérienne, CNRS/Aix-Marseille Université, Marseille, France</i>
F8	Distinct endocytosis pathways mediate hepatic uptake of bacteriophages Alice SAUGRAIN <i>Centre de Recherche Saint Antoine, Sorbonne Université, INSERM, Paris, France</i>
F9	Isolation and characterization of a phage collection against <i>Pseudomonas aeruginosa</i> of veterinary origin Séverine MURRI <i>ANSES Laboratoire de Lyon, Unité AVB, France</i>
F10	Ag85A-dependent lipid remodeling impairs therapeutic mycobacteriophage adhesion Morgane ILLOUZ <i>Institut de Recherche en Infectiologie de Montpellier, CNRS UMR9004, France</i>

Structure and Assembly / Molecular Scale

Session 2 | Thursday, Nov 13 | 11:30-12:00

F11	Termini and packaging identification using PhageTermVirome software with Nanopore data Florence JAGOREL <i>Département Génomes et Génétique, Institut Pasteur, France</i>
F12	Interaction between the <i>Neisseria meningitidis</i> type IV pili machinery and the MDA bacteriophage extrusion system Lison REBOUL <i>Université Paris Cité, INSERM, CNRS, Institut Necker-Enfants Malades, France</i>

Social Sciences

Session 2 | Thursday, Nov 13 | 11:30-12:00

F13	From Lab to Field: What's Holding Back Phage-Based Biocontrol? Fabien MILANOVIC <i>Biotechnologies in Society Research Group, SupBiotech (School of Biotechnology Engineering), France</i>
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POSTERS

2025 **PHAGES_{IN}**
NANCY

Ecology and Evolution / Population Scale

P1	Frequent and rapid turnover of defence systems in P2-like prophages and their P4-like satellites Jorge MOURA DE SOUSA <i>Microbial Evolutionary Genomics, Institut Pasteur, France</i>
P2	Profiling the human virome landscape using Inviria Simeon NTHUKU <i>INSERM, Sorbonne University, Paris, France</i>
P3	Determinants of phage resistance in clinical <i>Pseudomonas aeruginosa</i> strains Clarisse PLANTADY <i>CNRS UMR5086, MMSB MEEP & Phaxiam Therapeutics Lyon, France</i>
P4	Phage evolutionary relationships emerge from protein Language Model-based proteome representation Nicolas GINET <i>Laboratoire de Chimie Bactérienne, CNRS/Aix-Marseille Université, France</i>
P5	Evolutionary dynamics of phage domestication across prokaryotes Youn LE CRAS <i>Institut Pasteur, Université Paris Cité, CNRS, & Sorbonne Université, France</i>
P6	Diversity and prevalence of prophages and anti-phage defense systems in a major rice pathogen Sarah DELAFOSSE <i>PHIM, IRD, France</i>
P7	Atypical replication error pattern and limited repair efficiency contribute to elevated mutation rate in phage Lambda Magali VENTROUX <i>Université Paris-Saclay, INRAE, AgroParisTech, Micalis Institute, France</i>
P8	Host-virus dynamics in anaerobic digesters facing abiotic inhibition Ariane BIZE <i>Université Paris-Saclay, INRAE, PROSE, France</i>
P9	Decoding host-parasite encounters in soil bacteria through CRISPRspacer footprinting and cell-surface genotype analysis Sébastien WIELGOSS <i>Department of Environmental Systems Science, ETH Zürich, Switzerland</i>
P10	Gut microbiome resilience promoted by phages following antibiotic treatment Chloé FELTIN <i>Université Paris-Saclay, INRAE, AgroParisTech, MICALIS, France</i>
P11	Exploring the role of conjugative plasmid in the spread of phage resistance Anne CHEVALLEREAU <i>Université Claude Bernard Lyon 1, France</i>

Phage-Host interaction / Cellular Scale

P12	The toxigenic conversion of <i>Vibrio cholerae</i> is favored by bacteriophage-encoded Xer activating factors Orlando MORANCHEL <i>Institute of Integrative Biology of the Cell, France</i>
P13	Tracking filamentous phage infection at the single-cell level Romane GUARINO <i>CNRS - Aix-Marseille Université, France</i>
P14	Exploring the functions of phage T5 pre-early genes in host takeover Ombeline ROSSIER <i>Université Paris-Saclay, CEA, CNRS, Gif-sur-Yvette, France</i>
P15	Immunity, defence, anti-defence, anti-anti-defence... What else? Christophe ROUILLON <i>Department of Microbiology, Synthetic Biology, Institut Pasteur, France</i>
P16	Structure-function relationships between bacteriophage tail fibers and host range: investigations with Nankovirus and Pakpunavirus infecting <i>Pseudomonas aeruginosa</i> Solène ECOMARD <i>Pasteur, Université Paris Cité DGA Sorbonne Université, Paris, France</i>
P17	Persistent virulent phages exist in bacterial isolates Charles BERNARD <i>Institut Pasteur, Université Paris Cité, CNRS, France</i>
P18	Explorations on the mechanisms that bacteria deploy to survive a bacteriophage cocktail challenge Camille SIVELLE <i>Institut Pasteur, Université Paris Cité, CNRS, France</i>
P19	Interspecies competition between <i>Citrobacter rodentium</i> and <i>Escherichia coli</i> involves prophages Nandita SHARMA <i>Institut Pasteur, Université Paris Cité, France</i>
P20	From mouse to man: building models to quantify the dynamic interactions between bacteriophages and bacteria on the pulmonary epithelium Chau NGUYEN <i>Institut Pasteur, Université Paris Cité Sorbonne Université, France</i>
P21	Production de phages par synthèse acellulaire Brunelle ARCHAMBEAUD <i>CEA-Leti, France</i>
P22	Systematic functional assessment of anti-phage systems in their native host Ellie DAVID <i>Université Paris Cité, CNRS, INSERM, Institut Cochin, France</i>

Structure and Assembly / Molecular Scale

P23	The cryoEM structure of the <i>Mycobacterium abscessus</i> phage Jabs reveals a unique host-binding machinery Adeline GOULET <i>Institut de Microbiologie, CNRS and Aix-Marseille Université, France</i>
P24	The bacteriophage SPP1 connector reopening is triggered by the tail binding Stephane ROCHE <i>Institut de Biologie Integrative de la Cellule, Université Paris-Saclay, France</i>
P25	Structural characterization of a sugar-binding siphophage Alice DECOMBE <i>Institut de Biologie Structurale, France</i>

Social Sciences

P26	Alteration of Gut Phageome in Patients with Multiple Sclerosis Lejla IMAMOVIC <i>Centre for Immunology and Microbial Infections, Inserm Paris, Sorbonne University, France</i>
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Applications in Therapy and Biotechnologies

P27	Alphagos: an AI-designed phage cocktail for controlling <i>Enterococcus cecorum</i> in broiler chickens Yosr HAKEM <i>Phagos, France</i>
P28	Interaction between bacteriophages and innate immunity as a determinant for the efficacy of phage therapy Jose Alejandro BOHORQUEZ <i>Bacteriophage, Bacterium, Host unit, Institut Pasteur, France</i>
P29	The potential of phage endolysins in wine preservation Cas MOSTERD <i>Université de Bordeaux, Bordeaux INP, INRAe, ISVV, France</i>
P30	Design of phage-based hydrogels as innovative strategy for the treatment of severe acne by phage therapy Emmanuel MOUTOU <i>LCPME, UMR 7564, Université de Lorraine - CNRS, France</i>
P31	Dissemination of antibiotic resistance by environmental bacteriophages in a constructed wetland Florian GIUDICI <i>LCPME, Université de Lorraine - CNRS, France</i>
P32	Enhanced killing of multidrug-resistant <i>Enterococcus faecium</i> by Porthos phage–daptomycin combination therapy Jichan JANG <i>MICALIS Institute, France</i>