

2nd BSVoM symposium, Liège 2023 - PROGRAM

8h30: Registration & poster set-up

9h00: Welcome by **Prof. Damien Thiry** (ULiège)

9h10-10h40: Fundamental research in phage ecology and biology – Part I

Chair: Prof. Jelle Matthijssens (KU Leuven)

9h10: Keynote lecture: **Prof. Bas Dutilh** (University of Jena, Germany) - Mapping the Microverse and modelling its drivers (30 min talk/5 min QA)

9h50: **Ella Sieradzki** (Ecole Centrale de Lyon) - Phages succession follows microbial resuscitation during seasonally dry soil rewetting (10 min talk/5 min QA)

10h05: **Lore Van Espen** (KU Leuven) - Exploration of >1000 human gut viromes and matched metagenomes discovers phages with unexpected integration potential and broad host range (10 min talk/5 min QA)

10h20: Invited talk: **Prof. Daniel Nelson** (University of Maryland, USA) - Structure of the Escherichia coli O157:H7 bacteriophage CBA120 tailspike complex (15 min talk/5 min QA)

10h40-11h10: Coffee Break

11h10-12h10: Fundamental research in ecology and phage biology – Part II

Chair: Prof. Gipsi Lima-Mendez (University of Namur)

11h10: **Susanna Grigson** (Flinders University) - Phytomy: Synteny-based annotation of viral genes (10 min talk/5 min QA)

11h25: **Ekaterina Jalomo-Khayrova** (Philipps-Universität Marburg) - Structural and biochemical dissection of the SP β prophage master repressor MprR (YopR) (10 min talk/5 min QA)

11h40: **Albinas Cepauskas** (ULB) - Direct activation of an innate immune system in bacteria by a viral capsid protein (10 min talk/5 min QA)

11h55: Sponsor talk: Biolog - 15 min

12h10-12h45: Student pitches - 3 min each, no QA

- **Laura Bessems** (UZ Leuven) - Optimization of bacteriophage therapy for difficult-to-treat musculoskeletal infections: from bench to bedside and vice versa
- **Salomé Desmecht** (ULiège) - Isolation, in vitro characterization and efficacy assessment in *Galleria mellonella* larvae of four bacteriophages targeting *Aeromonas salmonicida*
- **Lene Bens** (KU Leuven) - Hidradenitis suppurativa: a challenging opportunity for phage therapy
- **Céline Antoine** (ULiège) - Genomic analysis and in vitro/in vivo characterization of phage resistant *E. coli* K1 isolates
- **Wouter Magnus** (VUB) - Transcription regulatory program of the ssv1 virus infecting the thermoacidophilic archaeon *Saccharolobus solfataricus*
- **Claudia Campobasso** (KU Leuven) - Antibiofilm activity of a *Staphylococcus aureus* phage: potential key role of its baseplate protein
- **Diana Bittremieux** (ULB and UNamur) - Discovery of new antiviral mechanisms in oceanic bacteria using adam
- **Fanny Laforêt** (ULiège) - Impact assessment of vb_kpnp_k1-ulip33 bacteriophage on the human gut microbiota using a dynamic in vitro model

12h45-13h00: Group picture

13h00-14h30: Lunch & poster session

14h30-16h55: Present and future applications of phages

Chair: Dr Pieter-Jan Ceyskens (Sciensano)

14h30: Keynote lecture 1: **Prof. Lone Brøndsted** (University of Copenhagen, Denmark) - Advancing our knowledge of phage-host interactions for the benefit of science and society (30 min talk/5min Q&A)

15h10: Keynote lecture 2: **Prof. Patrick Soentjens** (Queen Astrid military hospital/Institute of Tropical Medicine, Belgium) – How to start a phage therapy hub for human applications in your own clinic: the 5 year experience of the Military Hospital Brussels? (30 min talk/5min Q&A)

15h45: **Eveline-Marie Lammens** (KU Leuven) - Mining genetic parts and tools from bacteriophage genomes for Synthetic Biology (10 min talk/5 min QA)

16h00: **Roberto Vázquez** (UGent) - Structural and functional diversity of cell wall binding domains in staphylococcal endolysins (10 min talk/5 min QA)

16h15: **Michele Molendijk** (Erasmus MC) - Bacteriophage efficacy against *Staphylococcus aureus* in burn wounds, using an ex vivo skin model (10 min talk/5 min QA)

16h30: **Manon Nuytten** (UC Louvain) - Towards rapid detection of pathogens using phage-based lateral flow assay (10 min talk/5 min QA)

16h45: Sponsor talk: Vésale Bioscience - 15 min

17h00: Prize winners' announcements, closing remarks & reception

19h00: Symposium Dinner (optional) – Billie Jean (*Rue St Jean en Isle 20, 4000 Liège*)

