



Day 1 – 24 April 2017

15:00: **Welcome addresses by the organizers**
Christian Bréchet, President of Institut Pasteur
Mzia Kutateladze, Director of Eliava Institut

Keynote Lectures, chair by the organizers

15:15/15:45: Michel Morange – The persistent importance but changing significance of the bacteriophage in the last 100 years

15:45/16:30: Bruce Alberts – DNA transactions and protein machines: What we have learned, and can still learn, from the T4 family of bacteriophages

16:30/17:15: Roger Hendrix – Assembly and structure of phage lambda virions

17:15/18:30 Welcome party

Day 2 – 25 April 2017

Session 1: Environmental Virology

Chair: David Prangishvili

9:00/9:30: Matthew Sullivan – The global ocean virome: Re-imagining patterns, processes and paradigms on the high seas

9:30/9:45: Ruth-Anne Sandaa – Light and depth - main drivers of marine virus diversity and dynamics in the Arctic – Metagenomic analysis of total viral assemblages from surface to the deep

9:45/10:00: Pilar Manrique – A healthy prophage reservoir associated with the core gut bacterial community

10:00/10:30: Debby Lindell – Dramatic differences in cyanophage abundances and distribution patterns across environmental gradients in the oceans

10:30/11:15: coffee break + posters

Session 2: Evolutionary Legacy of Bacteriophages

Chair: Mart Krupovic

11:15/11:45: John Johnson – The structure, evolution and function of the major capsid protein of double strand DNA bacteriophage: the unique niche occupied by the HK97 tertiary fold.

11:45/12:00: Marie-Agnès Petit – Homologous recombination in phages: what's new?

12:00/12:15: Franklin Nobrega – Understanding inter-species gene exchange and compatibility in a bacteriophage model

12:15/12:30: Victoria Novitska – V-table: The virosphere structured in one comprehensive table

12:30/13:00: Dennis Bamford – Ordering the viral universe

13:00/15:30: lunch buffet + posters

Session 3: Bacteriophages as Models

Chair: Lucienne Letellier and Patrick Forterre

15:30/16:00: Paulo Tavares – Bacteriophage SPP1 (*Subtilis* Phage Pavia-1) Research: From Phage Genetics to Viral NanoMachines at Work

16:00/16:15: Rinat Arbel-Goren – Location of the unique integration site on an *Escherichia coli* chromosome by bacteriophage lambda DNA *in vivo*

16:15/16:30: Peter Stockley – Viral assembly 101: Yet more lessons for biology from a humble RNA phage.

16:30/16:45: Sebastien Lemire – Resistance is futile: Bacteriophage host Range engineering through Accelerated Evolution (BRACE) and its application to bacterial resistance anticipation.

16:45/17:00: Alfonso Jaramillo – Engineering phages and their hosts for the directed evolution of biomolecules

17:00/17:15: Pascale Boulanger – Assembly and maturation of dsDNA bacteriophage capsids in the light of bacteriophage T5

17:15/17:45: Petr Leiman – Structure and function of bacteriophage T4 tail

17:45/18:45: coffee break + posters

20:00/23:00: Gala Dinner

Day 3 – 26 April 2017

Session 4: Virus-Host Interactions

Chair: Ariane Toussaint and Harald Brüssow

9:30/10:00: Sylvain Moineau – Deciphering phage-host interactions using CRISPR-Cas systems

10:00/10:15: Artem Isaev – Some insights from the study of BREX - novel bacteriophage resistance system

10:15/10:30: Witold Kot – Bacteriophages use hypermodified nucleosides to evade host's defence systems

10:30/11:15: coffee break + posters

11:15/11:30: Anat Herskovits – Listeria-phage cooperation during mammalian infection.

11:30/11:45: David Bikard – A eukaryotic-like serine/threonine kinase protects Staphylococci against phages

11:45/12:00: Rotem Sorek – Small molecule communication between phages guides lysis-lysogeny decisions

12:00/12:30: Rob Lavigne – Hostile take-over: Pseudomonas as prey for lytic bacteriophages

12:30/15:00: lunch buffet + posters

Session 5: Bacteriophage Applications

Chair: Laurent Debarbieux

15:00/15:30: Dwayne R. Roach – Immunophage synergy to treat pulmonary infections

15:30/15:45: Salvatore. Cincquerrui – Microfluidic encapsulation of bacteriophage in liposomes

15:45/16:00: Karin Moelling – Microbiome and stable core virome after human fecal transfer

16:00/16:15: Biswajit Biswas – Intravenous application of phage therapy to treat a terminally ill patient who was infected with multi drug resistant *A. baumannii*.

16:15/16:45: Mzia Kutateladze – Bacteriophages for wide application for diagnostics and eradication of bacterial pathogens

16:45/17:00: Poster Prizes

17:00/18:00: Goodbye party