

6th World Conference on

Targeting

Phage Therapy

June 1-2, 2023 - Paris, France

Agenda

PHAGE
THERAPY 2023

m INTERNATIONAL SOCIETY OF
ICROBIOTA

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6th World Conference on Targeting Phage Therapy

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mICROBIOTA

June 1-2, 2023
Paris, France

Speakers 2023



Phage Therapy: Vision, Gaps and Evolution
Domenico Frezza,
University of Roma Tor Vergata, Italy



Challenges and Opportunities for Bacteriophage Therapy
Martha Clokie,
University of Leicester, United Kingdom



The Use of Bacteriophage Therapy for Complex Bacterial Infections: the PHAGEinLYON Experience
Ferry Tristan,
Hospices Civils de Lyon, France



Potential of Therapeutic Phages to Combat MDR ESKAPE Pathogens in Developing Nations
Lilian Musila,
U.S. Army Medical Research Directorate, Kenya



Bacteriophages: It's a medicine, Jim, but not as we know it
Jean-Paul Pirnay,
Queen Astrid Military Hospital, Belgium



Phage 3.0: Spotighting the Viral Genosphere for Drug Discovery, Biotechnology, and Novel Biological Functions
Anthony Maressa,
TailΦr Labs, Baylor College of Medicine, USA



The Use of Bacteriophage Therapy for Difficult-to-Treat Musculoskeletal Infections: the PHAGEFORCE Experience
Jolien Onsea,
KU Leuven, Belgium



From Patient to Advocate - Introducing Phage Therapy to India
Pranav Johri,
Founder of Vitalis Phage Therapy, India



Regulatory Considerations in the Development of Bacteriophage Products for Use in Humans, in the US
Cara Fiore,
Food and Drug Administration (FDA), USA



Phage-inducible Chromosomal Islands (PICIs): What are they? What can they do?
Rodrigo Ibarra Chavez,
University of Copenhagen, Denmark



Combined Therapies of Wound Infections with Phages/MSCs Aggregates
Farzaneh Moghtader,
SET Medikal/NanoBMT, Turkey



Retrospective outcomes of personalized phage therapy for ESKAPE pathogen
Austen Terwiliger,
TailΦr Labs, Baylor College of Medicine, USA



Phage & Microbiota Modulation: Synergetic Role of Phage and Probiotics
Ben Raymond,
University of Exeter, United Kingdom



Bacteriophage Therapy: From Soviet Clinical Experience to Current Activities at the Eliava Institute
Mzia Kutateladze,
Eliava Institute of Bacteriophage, Georgia



Historical Reflections of the Trials and Tribulations of Phage Therapy: 1930-1950
William Summers,
Yale University, USA



Investigating the Therapeutic Potential of Phages as Antibacterials and Immunomodulators in a Zebrafish Model of Cystic Fibrosis
Anna Pistocchi,
Università degli Studi di Milano, Italy



Introduction to Bacteriophages & Microbiota: On the Way to a Medical Revolution
Marvin Edeas,
Université de Paris, INSERM 1016, Institute Cochin, France



Therapeutic Monitoring of Phage Therapy
Aleksandra Petrovic Fabijan,
Westmead Institute for Medical Research, Australia



Phages in the Medical Research Activity in Poland
Ryszard Międzybrodzki,
Hirsfeld Institute of Immunology and Experimental Therapy PAS, Poland



Safety, Pharmacokinetics, and Antibacterial Activity of AP-PA02 Multi-phage Cocktail in Patients with Cystic Fibrosis and Chronic Pulmonary Pseudomonas aeruginosa Infection
Mina Pastagia,
Armata Therapeutics, USA



Modern Approaches for Optimizing Therapeutic Phage Preparations
Alexander Sulakvelidze,
President and CEO of Intralytix, Inc., USA



Phage Therapy's Data Problem, and How to Solve It
Jessica Sacher,
Cofounder of Phage Directory, Australia



Modelling Phage Infection Kinetics with the Cocktail Computer Program
Anders S. Nilsson,
Stockholm University, Sweden



Phage-based drugs for the treatment of biofilm-associated infections
Mariagrazia Di Luca,
University of Pisa, Italy



Phage-Bacteria Interaction Network in Human Intestinal Tract
Martial Marbouty,
Institut Pasteur, France

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Program of Targeting Phage Therapy 2023

Day 1 - June 1, 2023

8h00 Welcoming of attendees & Badge Distribution

8h50 Welcome Note of Targeting Phage Therapy 2023:

Domenico Frezza, University of Roma Tor Vergata, Italy

Marvin Edeas, INSERM – Institut Cochin, Université de Paris, France

Session 1 – Phage Therapy: A Glance Throughout the Years

Chair: *Domenico Frezza*

9h00 - Challenges and Opportunities for Bacteriophage Therapy

Martha Clokie, University of Leicester, United Kingdom

9h25 - Phage Therapy: Vision, Gaps and Evolution

Domenico Frezza, University of Roma Tor Vergata, Italy

9h50 - Bacteriophage Therapy: From Soviet Clinical Experience to Current Activities at the Eliava Institute

Mzia Kutateladze, Eliava Institute of Bacteriophage, Georgia

Coffee Break, Networking, Poster & Exhibition Sessions (10h15 – 10h55)

Session 2 - Phage Therapy in Action: A Glimpse Within the Nations

Chair: *Martha Clokie*

11h00 - Historical Reflections of the Trials and Tribulations of Phage Therapy: 1930-1950

William Summers, Yale University, USA

11h25 - Bacteriophages: It's a medicine, Jim, but not as we know it

Jean-Paul Pirnay, Queen Astrid Military Hospital, Belgium

11h50 - Potential of Therapeutic Phages to Combat MDR ESKAPE Pathogens in Developing Nations

Lilian Musila, U.S. Army Medical Research Directorate, Kenya (online talk)

12h15 - Phage Therapy's Data Problem, and How to Solve It

Jessica Sacher, Cofounder of Phage Directory, Australia (online talk)

Lunch Break, Networking, Poster & Exhibition Sessions (12h40 – 14h00)

Chairs: *Cara Fiore and William Summers*

14h00 - Phages in the Medical Research Activity in Poland

Ryszard Międzybrodzki, Hirsfeld Institute of Immunology and Experimental Therapy PAS, Poland

14h25 - From Patient to Advocate – Introducing Phage Therapy to India

Pranav Johri, Founder of Vitalis Phage Therapy, India

14h50 - The Use of Bacteriophage Therapy for Complex Bacterial Infections: the PHAGEinLYON Experience

Tristan Ferry, Hospices Civils de Lyon, France

15h15 - The Use of Bacteriophage Therapy for Difficult-to-Treat Musculoskeletal Infections: the PHAGEFORCE Experience

Jolien Onsea, KU Leuven, Belgium

15h40 - Regulatory Considerations in the Development of Bacteriophage Products for Use in Humans, in the US

Cara Fiore, Food and Drug Administration (FDA), USA

Coffee Break, Networking, Poster & Exhibition Sessions (16h05 – 16h35)

Session 3 – Bacteriophages & Microbiota: On the Way to a Medical Revolution?

Chairs: Mzia Kutateladze and Marvin Edeas

16h35 – Introduction to Bacteriophages & Microbiota: On the Way to a Medical Revolution?

Marvin Edeas, Chairman of The Scientific Committee, Université de Paris, INSERM 1016, Institute Cochin, France

17h00 – Phage-Bacteria Interaction Network in Human Intestinal Tract

Martial Marbouty, Institut Pasteur, France

17h25 - Phage & Microbiota Modulation: Synergetic Role of Phage and Probiotics

Ben Raymond, University of Exeter, United Kingdom

17h50 – Short Oral Presentations

First Report of Bacteriophages for Biocontrol of Escherichia Coli at the North Colombian Coast in Typical Caribbean Cheese (Queso Costeño)

Maryoris Elisa Soto Lopez, Universidad De Córdoba, Colombia

Crack the Wall from Side to Side - Phage Lytic Proteins as Potential Antimicrobials

Sophia Baldysz, Adam Mickiewicz University Poznań, Poland

Proposal for Therapy with Bacteriophages in Former Military Fire Fighters

Raquel De Souza Praia, Escola Superior de Tecnologia, Brazil

Phage Therapy in Post-Covid Rehabilitation

Ekaterina Chermenskaya, Federal Research and Clinical Center of Intensive Care Medicine and Rehabitology, Russia (online talk)

Results of a Study of a Drug for Intravesical Administration Based on Bacteriophages in Patients with Chronic Recurrent Cystitis

Oksana Arefieva, Yevdokimov Moscow State University of Medicine and Dentistry, Russia (online talk)

18h40 – End of Conference Day 1

20h00 – Speakers' Dinner (reserved for ticket holders)

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Program of Targeting Phage Therapy 2023

Day 2 - June 2, 2023

8h00 Welcoming of attendees & Badge Distribution

Session 4 - Bacteriophages Today: Prophylactic & Therapeutic Potential

Chair: Anna Pistocchi

8h30 - Phage-Based Drugs for the Treatment of Biofilm-Associated Infections

Mariagrazia Di Luca, University of Pisa, Italy

8h55 - Combined Therapies of Wound Infections with Phages/MSCs Aggregates

Farzaneh Moghtader, SET Medikal/NanoBMT, Turkey

9h20 - Investigating the Therapeutic Potential of Phages as Antibacterials and Immunomodulators in a Zebrafish Model of Cystic Fibrosis

Anna Pistocchi, Università degli Studi di Milano, Italy

Session 5 - Phage Therapy: Towards Amplification and Innovation

Chairs: Anders S. Nilsson and Jean-Paul Pirnay

9h45 - Safety, Pharmacokinetics, and Antibacterial Activity of AP-PA02 Multi-phage Cocktail in Patients with Cystic Fibrosis and Chronic Pulmonary *Pseudomonas aeruginosa* Infection (SWARM-P.a. Clinical Trial)

Mina Pastagia, Armata Therapeutics, USA

10h10 - Modern Approaches for Optimizing Therapeutic Phage Preparations

Alexander Sulakvelidze, President and CEO of Intralytix, Inc., USA

Coffee Break, Networking, Poster & Exhibition Sessions (10h35 – 11h05)

11h05 - Therapeutic Monitoring of Phage Therapy

Aleksandra Petrovic Fabijan, Westmead Institute for Medical Research, Australia (online talk)

11h30 - Phage 3.0: Spotlighting the Viral Genosphere for Drug Discovery, Biotechnology, and Novel Biological Functions

Anthony Maresso, TailΦr Labs, Baylor College of Medicine, USA (online talk)

11h55 - Retrospective Outcomes of Personalized Phage Therapy for ESKAPE Pathogen

Austen Terwilliger, TailΦr Labs, Baylor College of Medicine, USA

12h20 - A phase 1b/2a randomized, double-blind, placebo-controlled study evaluating nebulized phage therapy in cystic fibrosis subjects with chronic *Pseudomonas aeruginosa* pulmonary infection

Iddo Weiner, BiomX Inc., Israel

Lunch Break, Poster & Exhibition Sessions (12h30 – 13h30)

13h30 - Modelling Phage Infection Kinetics with the Cocktail Computer Program

Anders S. Nilsson, Stockholm University, Sweden

13h55 - Phage-Inducible Chromosomal Islands (PICIs): What are they? What can they do?

Rodrigo Ibarra Chavez, University of Copenhagen, Denmark

Chairs: Mariagrazia Di Luca and Martial Marbouty

14h20 – Short Oral Presentations & Innovations: 10 minutes to convince (8 minutes + 2 minutes of discussion)

Creating Patient Ready Products in a Remedy Ready World

Amanda Burkardt, CEO of Phiogen, USA

Implementing GMP Manufacturing for Phage Therapy

Adam Ostrowski, Cellexus, United Kingdom

Enhancing Phage Therapy Safety: Reliable and Sensitive Phage Genome Annotation with RTOOLS2 High-throughput Pipeline

Antoine Culot, Rime Bioinformatics, France

Developing a Rapid Phenotypic Assessment of Phage Susceptibility Using a Nanomotion Technology Platform

Alexander Sturm, Resistell AG, Switzerland

Borrelia Phelix Phage Test: Use of Specific Borrelia Phages as a New Strategy for Improved Diagnostic Tests

Tatjana Mijatovic, R.E.D. Laboratories, Belgium

Comparison of Several Preservation Methods for Long-term Storage of Morphologically Distinct Bacteriophages

Wanqi Huang, Helmholtz Centre Munich, Germany

Catch Me if You Conjugate! Plasmid Recovery from Complex Ecosystems Using Secreted Pilus Machinery as a Hook

Van Hung Vuong Le, University of Copenhagen, Denmark

Coffee Break, Networking, Poster & Exhibition Sessions (15h30 – 16h00)

Phage Therapy Potentiates Second-line Antibiotic Treatment against Pneumonic Plague

Emanuelle Mamroud, Israel Institute for Biological Research, Israel

Bacteriophage-Antibiotic Combination Therapy against Extensively Drug-Resistant Pseudomonas aeruginosa Infection to Allow Liver Transplantation in a Toddler

Brieuc Van Nieuwenhuysse, UC Louvain, Belgium

Formulation of Bacteriophage Cocktails against Multidrug-Resistant Clinical Pseudomonas Aeruginosa Isolates From South India: Implications in Phage Therapy

Geetha Kumar, Amrita University, India

Comparative Genomics and Proteomics Analysis of Novel Phages Infecting Multi-Drug Resistant Escherichia coli O177 Strain

Peter Kotsoana Montso, North-West University, South Africa

Bacteriophages to Treat Urinary Tract Infections: Preliminary Studies against Klebsiella pneumonia

João Duarte, University of Aveiro, Portugal

Bacteriophage Resistance is Associated with Reduced Bacterial Fitness in the Urinary Environment

Jacob Zulk, Baylor College of Medicine, USA

Synergies Between Phage and Antibiotic Therapy on Endotracheal Tube Biofilm

Lai Fernandez Barat, University of Barcelona, Spain (online talk)

17h10 – Discussion & Concluding Remarks

Phage Therapy: What's Next?

17h30 – Awards of Targeting Phage Therapy 2023

17h45 – End of Targeting Phage Therapy 2023

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