WELCOME

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WORLD
CONGRESS

PHAGE THERAPY 2025

TARGETING PHAGE THERAPY



International Society

"Cobiota

June 10-11, 2025 - Berlin

TARGETING
PHAGE
THERAPY 2025

Targeting Phage Therapy 2025

June 10 - 11, 2025 - Berlin, Germany

Day 1 - June 10, 2025

8h00 Welcoming of attendees & Badge Distribution

8h50 Welcome Note of Targeting Phage Therapy 2025

Chairs: Christian Willy, Marvin Edeas

9h00 Keynote Speech



Phage Therapy 2030: Getting from Here to There
Robert T. Schooley, University of California, San Diego, USA

Session 1 – Phage-Bacteria Interactions & Resistance



9h30 - Bacteriophage Therapy: A Renaissance - From Military Medicine to Civilian Healthcare Christian Willy, Military Academic Hospital Berlin, Germany



9h55 - Phage Defense Systems: Are They an Obstacle for Phage Therapy? Stan J.J. Brouns, Delft University of Technology, The Netherlands

10h20 Coffee Break, Networking and Poster Sessions

Chairs: Stan J.J. Brouns, Alberto Danielli



11h00 - Yersinia Phage Stories: Impact on Phage Therapy Mikael Skurnik, University of Helsinki, Finland



11h25 - Biocontrol of Phage Resistance in Pseudomonas Infections – Fitness Trade-Offs Between Phages and Antibiotic Sensitivity

Jumpei Fujiki, Rakuno Gakuen University, Japan

11h50 Short Oral Presentations & Innovations

DUOFAG - Human Clinical Trial Phase I

Dana Štveráková, MB PHARMA s.r.o., Czech Republic

Successful Eradication of Chronic Pseudomonas Aeruginosa Infection with Personalised Bacteriophage Therapy in Children with Cystic Fibrosis: An Early Phase Clinical Trial

Jagdev Singh, The Children's Hospital at Westmead, Australia

First Use of Phage Therapy in Canada for the Treatment of a Life-Threatening, Multidrug-Resistant Staphylococcus Epidermidis Periprosthetic Joint Infection: An N-of-1 Trial

Marisa A. Azad, University of Ottawa at the Ottawa Hospital, Canada

A Multifaceted Experience with Phage Therapy: A Short Review of Successful and Challenging Cases across Multiple Body Systems *Mariam Dadiani*, *Eliava Phage Therapy Center*, *Georgia*

Anti-Quorum Sensing Phages Rescue Galleria mellonella Larvae from Pseudomonas aeruginosa Infection *Kira Céline Koonce*, *University of Copenhagen*, *Denmark*

12h40 Lunch Break, Networking, Poster Group photo

Session 2 – Phage Therapy Across Systems: From Gut Ecosystems to Precision Oncology

Chairs: Robert T. Schooley, Domenico Frezza



14h00 - Complex Phage Communities Control Gut (im)balances and May Hold the Key to Restore Gut Biosis Dennis Sandris Nielsen, University of Copenhagen, Denmark



14h25 - KlebPhaCol: Novel Gut Phage Order Associated with the Human Gut Franklin Nobrega, University of Southampton, United Kingdom



14h50 - Targeting Tumors with Engineered Phages: A New Frontier in Precision Oncology Alberto Danielli, University of Bologna, Italy



15h15 - Engineering Phages for Cancer Therapy: Insights into Immune Interactions and Targeting in Ex-Vivo and In-Vivo Models

Alena Kaltenbrunner, University of Bologna, Italy

15h40 Coffee Break, Networking, Poster

16h20 Short Oral Presentations & Innovations

PHAGE–Postbiotic Synergy: A Novel Strategy against Pseudomonas Aeruginosa in Burn Wound Infection in Galleria Mellonella *Mine Egin*, *Karadeniz Technical University, Turkey*

Bacteriophage-based vaccine and IL-12 Gene Therapy Eradicate Aggressive Melanoma *Andrej Cör*, *Valdotra Orthopaedic Hospital*, *Slovenia*

Session 3 - Phage Therapy in Veterinary Medicine, Agricultural & Industrial Applications

Chairs: Hidetomo Iwano, Loris Rizzello



16h40 - Phage Therapy in Veterinary Medicine: Presentation of First Clinical Trial in Japan Hidetomo Iwano, Rakuno Gakuen University, Japan



17h05 - Bacteriophages Applications in Broiler Farms: Strategies & Perspectives Sandra Sevilla, Centro de Calidad Avícola y Alimentación Animal, Spain

17h30 Short Oral Presentations & Innovations

New Insights into Bacteriophage Therapy in Dogs *Eva Maria Kalbhenn*, *LABOKLIN GmbH & Co. KG, Germany*

In Ovo Phage Administration as a Novel Prophylactic Approach against Salmonella Typhimurium in Broiler Chickens **Jan Torres-Boncompte**, Centro de Calidad Avícola y Alimentación Animal de la Comunidad Valenciana, Spain

From Cells to Larvae: A Two-Front Approach to Salmonella Eradication Using Bacteriophage Vb_Sen-Miriam1 **Łukasz Grabowski**, University of Gdansk, Poland

Cure of a Difficult-To-Treat Pseudomonas Aeruginosa Canine Chronic Otitis Externa (Oe) with the PyoBacteriophage Cocktail Followed by Antibiotics

Raphaël Baudin, Lausanne University Hospital, Switzerland

Coevolution of Bacteriophages Enhances Biocontrol of Shiga Toxin-Producing Escherichia Coli in Food Matrix *Nicola Mangieri*, *University of Milan*, *Italy*

18h20 End of Conference Day One

20h00 Speakers' Dinner (reserved for ticket holders)



Targeting Phage Therapy 2025

June 10 - 11, 2025 - Berlin, Germany

Day 2 - June 11, 2025

8h25 Welcoming of attendees & Badge Distribution

Chairs: Marco Cafora, Mikael Skurnik

8h30 Short Oral Presentations & Innovations

Addressing Phage Resistance in Pseudomonas Aeruginosa Isolates from People with Cystic Fibrosis **Federica Briani**, Università degli Studidi Milano, Italy

Isolation, Characterization and Anti-Biofilm Activity of Lytic Bacteriophage K2 against Klebsiella Pneumoniae Isolates **Damla Damar Celik**, Marmara University, Turkey

Collateral Effects of Bacteriophage Resistance on Antibiotic Sensitivity in Pseudomonas Aeruginosa Laura Rianne Baars, Leiden University, Netherland

Session 4 - Innovative Phage Applications in Clinical Research



09h00 - Translating Phage Therapy into the Clinic: Recent Accomplishments and Next Challenges Jeremy Barr, Monash University, Australia



09h25 - Inhaled Bacteriophage Therapy for Multidrug Resistant Pseudomonas Aeruginosa: Advances & Perspectives Gail L. Stanley, Yale University, USA



9h50 - Bacteriophage Therapy for Critical Infections Related to Cardiothoracic Surgery Christian Kühn, Hannover Medical School, Germany

10h15 Coffee Break, Networking, Poster

Chairs: Anna Pistocchi, Gail L. Stanley

11h00 - Short Oral Presentations & Innovations

Endolysin (Lysk04) Combined with Plant-Derived Phenylpropanoid Disrupt Outer Membrane Barriers and Exhibits Broad-Spectrum Antibacterial Activity Against High-Risk Gram-Negative Pathogens

Susweta Das, Dayananda Sagar University, India

Biohybrid Composites of Platelet-Rich Fibrin and Gelatin Hydrogel Beads (Nano/Micro) for Targeted Phage Delivery in the Treatment of Infected Wounds

Farzaneh Moghtader, TiPhage, Turkey

Phage P04 Loaded Polysaccharide Hydrogel to Combat Biofilm-Forming Klebsiella Pneumoniae Infected Lesions **Harshitha N**, Dayananda Sagar University, India

Antibody Alternatives from Bacterial Viruses: Phage Receptor Binding Proteins as Novel Tools for Diagnostics and Therapy of Bacterial Infections

Peter Braun, Fraunhofer Institute for Translational Medicine and Pharmacology ITMP, Germany

Determining the potential of Bacteriophages to evolve their host range *Wallapat Phongtang*, *Friedrich-Schiller-Universität Jena*, *Germany*

Phage-Antibiotic Composite Efficacy on Dual-Species Biofilm *Tea Glonti*, *Queen Astrid Military Hospital*, *Belgium*

Freeze-Dried Tablets for Therapeutic Application of Bacteriophages

Marie Komárková, Masaryk University, Czech Republic

Source-Dependent Variability in Staphylococcus Aureus Susceptibility to Bacteriophage Infection *Hanife Nur Karakoc Parlayan*, *KaradenizTechnical University Trabzon*, *Turkey*

12h20 Lunch Break, Poster & Exhibition Sessions

Chairs: Christian Kühn, Franklin Nobrega



13h30 - Endolysin B as a New Approach & Archetype in M. Tuberculosis Treatment Loris Rizzello, University of Milan, Italy



13h55 - Ex Vivo Pig Lung as a New Cystic Fibrosis Model for the Study of Pseudomonas aeruginosa Biofilm Infection and Phage Therapy Application

Marco Cafora, University of Milan, Italy

14h20 - Short Oral Presentations & Innovations

Novel Mycobacteriophages as a Promising Adjunct in the Fight Against Drug-Resistant TB and NTM Infections **Anthony Vocat**, Lausanne University Hospital, Switzerland

Phage Heteroresistance in Clinical Klebsiella Pneumoniae Isolates: Impact of Differential Capsule Expression on Phage Efficacy **Iris Najjar**, Escola Paulista deMedicina-Universidade Federal de São Paulo, Brazil

Broad-Spectrum Lytic Bacteriophages from Wastewater as Therapeutic Candidates against Antibiotic-Resistant Clinical Strains *Erva Rakici*, Recep Tayyip Erdogan University, Turkey

Five Years of Adaptive Phage Therapy in the Intensive Care Unit: Prospects, Limitations, Opportunities **Ekaterina A. Chernevskaya**, Federal Research and Clinical Center of Intensive Care Medicine and Rehabilitology, Russia

Session 5 – From Bench to Market: GMP Production, Regulation & the Future of Phage Therapies

Chairs: Barbara Brenner, Jeremy Barr



14h50 - Phage Therapy in Europe: Legal, Regulatory, and Ethical Issues Barbara Brenner, Kanzlei BRENNER, Germany



15h15 Practical Session: GMP (Good Manufacturing Practices) for phage production. Scaling production. Quality control and standardization. Market access and commercialization strategies

Frenk Smrekar, JAFRAL, Slovenia



15h35 CellMaker- The Ideal Solution for Scalable Phage Manufacturing

Ruta Teterovska, Cellexus International Ltd., United Kingdom

15h45 The Lausanne University Hospital GMP Production Pipeline for Manufacture of Therapeutic Bacteriophages **Gregory Resch**, Lausanne University Hospital, Switzerland

GMP-Compliant Bacteriophage Bulk Production as APIs for Personalized Human Medicine: A European Perspective **Milan Bunata**, FAGOFARMA, Czech Republic

From Biology to Business: INCATE as a Catalyst in the Antibacterial Innovation Pipeline *Mercedes Gonzalez Moreno*, Hans KnöllInstitute (HKI), Germany

AWMF Sk2 Guideline Personalized Bacteriophage Therapy in Germany **Simone Lieberknecht-Jouy**, University Hospital Frankfurt, Germany

16h25 Concluding Remarks

Phage Therapy in Transition: A Vision for the Coming Decade Christian Willy, Military Academic Hospital Berlin, Germany

16h40 Discussion & Awards of Targeting Phage Therapy 2025

17h00 Drinks and Appetizer - Networking

17h00 End of Targeting Phage Therapy 2025

For more information, please visit: www.phagetherapy-site.com

