

5th World Congress on Targeting Infectious Diseases

TARGETING PHAGE & ANTIBIOTIC RESISTANCE

Phage therapy and other innovative ideas

May 17 - 18, 2018

Florence - Italy



TASKFORCE
INFECTIOUS
DISEASES

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Topics:

- Phage Therapy 2018: recent advances & challenges
- Innovations against antibiotic resistance

Tracks:

- Phage isolation and characterization
- Phage/Host interaction
- Phage therapy & pathologies
- Clinical Trials
- Strategies to combat antibiotic resistance
- New generation of antibiotics
- Veterinary settings

Call for Abstracts:

- Oral Presentations Submission: April 3, 2018
- Poster Presentations Submission: April 24, 2018

Early Bird Registration: April 17, 2018

Students: 370 €
Academics: 470 €
Industrials: 770 €

CONFIRMED SPEAKERS



Impact of virulent bacteriophages on vibrio cholerae infection and their use in preventing cholera

Minmin Yen, Tufts University, USA



Fighting multi-drug resistant Klebsiella pneumoniae by using lytic phages

Marco Maria D'Andrea, University of Siena, Italy



Control of catheter associated biofilms through efflux inhibition

Brian Jones, University of Brighton, United Kingdom



Lytic bacteriophages in the treatment of biofilm-forming bacteria involved in prosthetic joint infections

Mariagrazia Di Luca
Charité-Universitätsmedizin, Germany



Microencapsulation of purified bacteriophages for targeted therapeutic applications

Danish Malik
Loughborough University, United Kingdom



Microarray patches for prevention and treatment of infectious diseases and their potential for reducing antibiotic resistance

Ryan Donnelly
Queen's University Belfast, United Kingdom



Phage-based antimicrobials: novel approaches for managing drug-resistant bacteria

Alexander Sulakvelidze
Intralytix Inc., USA



Antimicrobial discovery from extreme halophiles

Brendan Gilmore
Queen's University Belfast, United Kingdom



General overview on the transmission of multidrug-resistant Mycobacterium tuberculosis

Qian Gao, Fudan University, China



Development of infection-responsive surface coatings for bacteriophage delivery in the catheterised urinary tract

Scarlet Milo, School of Pharmacy and Biomolecular Sciences, University of Brighton, United Kingdom



Characterisation and genome sequence of the lytic Acinetobacter baumannii bacteriophage

Mark Sutton, National Infections Service
Public Health England, United Kingdom

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Day 1 – May 17, 2018

- 7h30 Registration & welcoming of attendees – Badges & Abstracts book Distribution
- 8h55 Opening Ceremony
- 9h00 General Introduction: How to overcome and combat antibiotic resistance in 2018?

Session 1: Phage Therapy 2018: recent advances & challenges

- 9h20 **Fighting multi-drug resistant *Klebsiella pneumoniae* by using lytic phages**
Marco Maria D'Andrea, Università di Siena, Italy
- 9h45 **Control of catheter associated biofilms through efflux inhibition**
Brian Jones, Queen Victoria Hospital NHS Foundation Trust, United Kingdom
- 10h10 **Impact of virulent bacteriophages on vibrio cholerae infection and their use in preventing cholera**
Minmin Yen, Tufts University, USA

10h35 Coffee Break, Poster & Exhibition Session
- 11h20 **Lytic bacteriophages in the treatment of biofilm-forming bacteria involved in prosthetic joint infections**
Mariagrazia Di Luca, Charité – Universitätsmedizin Berlin Hospital, Germany
- 11h45 **Microencapsulation of purified bacteriophages for targeted therapeutic applications**
Danish Malik, Loughborough University, United Kingdom
- 12h10 **Direct phenotypic screening to identify new antimicrobial agents**
Mark Sutton, National Infections Service, Public Health England, United Kingdom

12h35 Lunch Break, Poster & Exhibition Session
- 14h00 **Development of infection-responsive surface coatings for bacteriophage delivery in the catheterised urinary tract**
Scarlet Milo, Queen Victoria Hospital NHS Foundation Trust, United Kingdom
- 14h25 **Development and use of personalized bacteriophage-based therapeutic cocktails to treat a patient with a disseminated resistant *Acinetobacter baumannii* infection**
Robert T. Scholley, University of California, USA

14h50 Short Oral Presentations (7 minutes for presentation + 3 minutes for questions)

You have until April 3 to submit your abstract for a short oral presentation.

Among Short Oral Presentations already selected:

Selection and characterisation of phages able to degrade biofilm produced by clinical isolates of *E. faecalis*

Pasquale Marmo, University of Roma Tor Vergata, Italy

State-of-the-art of modeling in vivo dynamics of naturally-occurring phages and in vivo dynamics of therapeutic phages

Victoriya Volkova, Kansas State University, USA

Bacteriophage therapy and urinary tract infections

Tamara Perepanova, S.R. Institute of Urology and Interventional Radiology, Russia

Safe & active sustained release of phages in gastro-intestinal tract

Farzaneh Moghtader, Hacettepe University, Turkey

Mycobacteriophage based platforms to discover drug targets for mycobacteria

Sujoy Das Gupta, Bose Institute, India

Efficient in vivo phage therapy via immunological cloaking

Yoon Sung Nam, Korea Advanced Institute of Science & Technology, Korea

15h30 Coffee Break, Poster & Exhibition Session

16h15 Short Oral Presentations – Part 2 (7 minutes for presentation + 3 minutes for questions)

Use of a biologTM system for monitoring and overcoming phage and antibiotic resistance during the treatment of MDR infections in humans

Biswajit Biswas, Biological Defense Research Directorate, USA

17h45 End the first day

20h00 Targeting Phage & Antibiotic Resistance 2018 Dinner

You can register online before May 2.

Day 2 – May 18, 2018

8h55 Opening of the second day

Session 2: Innovations against antibiotic resistance

Focus on the new generation of antibiotics

Focus on the strategic role of microbiota to overcome antibiotic resistance

9h00 Antimicrobial discovery from extreme halophiles

Brendan Gilmore, Queen's University Belfast, United Kingdom

9h25 General overview on the transmission of multidrug-resistant *Mycobacterium tuberculosis*

Qian Gao, Fudan University, China

9h50 Microarray patches for prevention and treatment of infectious diseases and their potential for reducing antibiotic resistance

Ryan Donnelly, Queen's University Belfast, United Kingdom

10h15 Reincarnation of a staphylococcal pathogenicity island as an antibacterial drone

Richard Novick, New York University, USA

10h40 Coffee Break, Poster & Exhibition Session

11h15 Short Oral Presentations (7 minutes for presentation + 3 minutes for questions)

You have until April 3 to submit your abstract for a short oral presentation.

Inhibition of Shikimate kinase from *M. Tuberculosis* and *H. Pylori* for antibiotic discovery

Concepción González-Bello, Universidade de Santiago de Compostela, Spain

12h45 Lunch Break, Poster & Exhibition Session

Session 3: Special Session for Industrials: Innovations & Perspectives

14h00 – 17h00

This session is dedicated only to industrials, pharma companies, biotech and start-ups, to showcase their innovations.

You have until April 3 to submit your abstract for a short oral presentation.

Phage-based antimicrobials: novel approaches for managing drug-resistant bacteria

Alexander Sulakvelidze, Intralytix, USA

Novel phage based therapeutics to address antibiotic resistance

Naomi Zak, Biomx, United Kingdom

16h00 Coffee Break, Poster & Exhibition Session

16h30 Short Oral Presentations (7 minutes for presentation + 3 minutes for questions)

17h15 Round Table Discussion & Concluding Remarks

Targeting Phage & Antibiotic Resistance 2018 Awards

17h30 End of Targeting Phage & Antibiotic Resistance 2018