

5<sup>th</sup> World Congress on Targeting Infectious Diseases

# TARGETING PHAGE & ANTIBIOTIC RESISTANCE

*Phage therapy and other innovative ideas*

May 17 - 18, 2018

Florence - Italy



**T**ASKFORCE  
**I**NFECTIOUS  
**D**ISEASES

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## TARGETING PHAGE & ANTIBIOTIC RESISTANCE

*Phage therapy and other innovative ideas*  
**May 17 - 18, 2018** **Florence - Italy**

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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



**Phage therapy of infectious biofilms**

Joana Azeredo, University of Minho, Portugal



**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



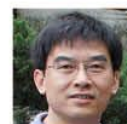
**Phage-based antimicrobials: novel approaches for managing drug-resistant bacteria**

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



**Characterisation and genome sequence of the lytic Acinetobacter baumannii bacteriophage**

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



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

Jonathan Nzakizwanayo  
University of Brighton, United Kingdom

# TARGETING PHAGE & ANTIBIOTIC RESISTANCE

## Phage therapy and other innovative ideas

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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 **Phage therapy of infectious biofilms**  
*Joana Azeredo, CEB – University of Minho, Portugal*

11h45 **Lytic bacteriophages in the treatment of biofilm-forming bacteria involved in prosthetic joint infections**  
*Mariagrazia Di Luca, Charité – Universitätsmedizin Berlin Hospital, Germany*

12h10 **Microencapsulation of purified bacteriophages for targeted therapeutic applications**  
*Danish Malik, Loughborough University, United Kingdom*

12h35 Lunch Break, Poster & Exhibition Session

14h00 **Direct phenotypic screening to identify new antimicrobial agents**  
*Mark Sutton, National Infections Service, Public Health England, United Kingdom*

14h25 **Development of infection-responsive surface coatings for bacteriophage delivery in the catheterised urinary tract**  
*Jonathan Nzakizwanayo, Queen Victoria Hospital NHS Foundation Trust, United Kingdom*

14h50 **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*

15h15 Coffee Break, Poster & Exhibition Session

**16h00 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.*

**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*

**17h45 End the first day**

**19h45 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