

Bacteriophage

2017



AGENDA

17th - 19th January 2017
Location: Online

EuroSciCon 

This annual event will discuss emerging research relating to bacteriophage structure and mechanism of action, and their application in medical and industrial biotechnologies.

This event has [CPD accreditation](#)

**This is a draft agenda
The agenda will be finalised two weeks before the event**

www.lifescienceevents.com/phage2017

[#PhageESC](#)

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Day 1: Phage Structure & Function

London GMT	New York EDT	Tokyo JST		
Early Session				
07:15	03:15	16:15	Session online	Speaker practice session Poster Viewing
07:45	03:45	16:45	Euroscicon Welcome	<i>Euroscicon Host</i>
07:50	03:50	16:50	Introduction by the chair	<i>Dr Mark J van Raaij, Centro Nacional de Biotecnología (CNB-CSIC), Spanish National Research Council, Madrid, Spain</i>
08:00	04:00	17:00	Talk title to be confirmed Q and A	<i>Speaker to be confirmed</i>
08:30	04:30	17:30	Talk title to be confirmed Q and A	<i>Speaker to be confirmed</i>
09:00	05:00	18:00	Session break	Poster Viewing
09:30	05:30	18:30	Crystal structures of bacteriophage fibre proteins Q and A	<i>Dr Mark J van Raaij, Centro Nacional de Biotecnología (CNB-CSIC), Spanish National Research Council, Madrid, Spain</i>
10:00	06:00	19:00	Oral Presentations	<i>Speakers to be confirmed</i>
10:45	06:45	19:45	Session Break	Poster Viewing
11:15	07:15	20:15	Talk title to be confirmed Q and A	<i>Speaker to be confirmed</i>
11:45	07:45	20:45	Detection of phage ϕ1207.3 in Streptococcus pneumoniae by immunoassays targeting the major capsid protein Q and A	<i>Dr. Francesco Santoro, University of Siena, LAMMB - Dept of Medical Biotechnologies, Siena, Italy</i>
12:15	08:15	21:15	Closing remarks, End of Early Session	

Day 1: Phage Structure & Function

London GMT	New York EDT	Tokyo JST		
Late Session				
13:15	09:15	22:15	Session online	Speaker practice session Poster Viewing
13:45	09:45	22:45	Euroscicon Welcome	<i>Euroscicon Host</i>
13:50	09:50	22:50	Introduction by the chair Essential head genes in the giant PhiKZ-related phages Q and A	<i>Professor Julie Thomas, Rochester Institute of Technology, Rochester, United States</i>
14:30	10:30	23:30	Old, New, Widely True ... Useful Too: The Bacteriophage T4 DNA Packaging Motor Q and A	<i>Professor Lindsay W. Black, Department of Biochemistry and Molecular Biology, University of Maryland, Baltimore, USA</i>
15:00	11:00	00:00	Session break	Poster Viewing
15:30	11:30	00:30	Phage Sf6 ejection mechanisms Q and A	<i>Professor Kristin N. Parent, Michigan State University, East Lansing, United States</i>
16:00	12:00	01:00	Oral Presentations	<i>Speaker to be confirmed</i>
16:45	12:45	01:45	Session Break	Poster Viewing
17:15	13:15	02:15	A novel role for phage P22's scaffolding protein: triggering portal ring oligomerization and incorporation during procapsid assembly Q and A	<i>Dr. Tina Motwani, University of Connecticut, Storrs, United States</i>
17:45	13:45	02:45	Comparative genomics and proteomics of paenibacillus larvae bacteriophages Q and A	<i>Assistant Professor Philippos Tsourkas, University of Nevada, Las Vegas, Las Vegas, Nevada, United States</i>
18:15	14:15	03:15	Closing remarks, End of Late Session	

Day 2: Host-Phage Interactions

London GMT	New York EDT	Tokyo JST		
Early Session				
07:15	03:15	16:15	Session online	Speaker practice session Poster Viewing
07:45	03:45	16:45	Euroscicon Welcome	<i>Euroscicon Host</i>
07:50	03:50	16:50	Introduction by the chair	<i>Dr Darren L. Smith, Northumbria University, UK</i>
08:00	04:00	17:00	Bacteriophage translocation across epithelial cells provides a mechanism for phage to penetrate the body Q and A	<i>Dr Jeremy J Barr, Monash University, Victoria, Australia</i>
08:30	04:30	17:30	The transcriptional battle between phage and host in the Pseudomonas phage infected cell Q and A	<i>Mr Bob G Blasdel, KU Leuven, Leuven, Belgium</i>
09:00	05:00	18:00	Session break	Poster Viewing
09:30	05:30	18:30	The bacteriophage carrier state of Campylobacter Q and A	<i>Professor Ian Connerton, Northern Foods Chair of Food Safety, Division of Food Sciences, School of Biosciences, Sutton Bonington Campus, Loughborough, United Kingdom</i>
10:00	06:00	19:00	Oral Presentations	<i>Speaker to be confirmed</i>
10:45	06:45	19:45	Session Break	Poster Viewing
11:15	07:15	20:15	Phage-host interactions at single-cell resolution Q and A	<i>Professor Abram Aertsen, Laboratory of Food Microbiology, Department of Microbial and Molecular Systems (M²S), Faculty of Bioscience Engineering, KU Leuven, Leuven, Belgium</i>
11:45	07:45	20:45	Talk title to be confirmed Q and A	<i>Dr Rob Lavigne, Ku Leuven, Leuven, Belgium</i>
12:15	08:15	21:15	Closing remarks, End of Early Session	

Day 2: Host-Phage Interactions

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Late Session				
13:15	09:15	22:15	Session online	Speaker practice session Poster Viewing
13:45	09:45	22:45	Euroscicon Welcome	<i>Euroscicon Host</i>
13:50	09:50	22:50	Introduction by the chair The effect of phage on modifying the genome of Clostridium difficile Q and A	<i>Prof Peter Mullany, UCL Eastman Dental Institute, London, United Kingdom</i>
14:30	10:30	23:30	Antimicrobial tolerance encoded by temperate bacteriophages'	<i>Dr Darren L. Smith, Northumbria University, UK</i>
15:00	11:00	00:00	Session break	Poster Viewing
15:30	11:30	00:30	Dissecting the potential impact of the BTP1 prophage of Salmonella Typhimurium strain D23580, a representative of the emerging invasive non-typhoidal salmonellae Q and A	<i>Dr. Angela Makumi, KU Leuven, Leuven, Belgium</i>
16:00	12:00	01:00	Oral Presentations	<i>Speakers to be confirmed</i>
16:45	12:45	01:45	Session Break	Poster Viewing
17:15	13:15	02:15	Prophage control of the host phenotype Q and A	<i>Dr Heather E. Allison, University of Liverpool, Merseyside, Liverpool, United Kingdom</i>
17:45	13:45	02:45	Ecology, Applied and Otherwise, of Phage-Biofilm Interactions Q and A	<i>Dr Stephen T. Abedon, The Ohio State University, Unites States</i>
18:15	14:15	03:15	Closing remarks, End of Late Session	

Day 3: Applications of Phage in Medicine & Industry

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Early Session				
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07:45	03:45	16:45	Euroscicon Welcome	<i>Euroscicon Host</i>
07:50	03:50	16:50	Introduction by the chair	<i>Chair to be confirmed</i>
08:00	04:00	17:00	The IV route of phages	<i>Dr. Peter Speck, Flinders University, Adelaide, Australia</i>
08:30	04:30	17:30	Bacteriophages application diversity after antibiotics resistance and green biology Q and A	<i>Associate Professor Robert Armon, Faculty of Civil & Environmental Eng., Technion, Israel Institute of Technology</i>
09:00	05:00	18:00	Session break	Poster Viewing
09:30	05:30	18:30	Exploiting Bacteriophage for rapid detection of Mycobacteria Q and A	<i>Dr Catherine E.D. Rees, University of Nottingham, United Kingdom</i>
10:00	06:00	19:00	Application of bacteriophages in commercial broiler houses- results and population dynamics in field trials Q and A	<i>Dr. Sophie Kittler, University of Veterinary Medicine Hannover, Hannover, Germany</i>
10:30	06:30	19:30	Oral Presentations	<i>Speakers to be confirmed</i>
10:45	06:45	19:45	Session Break	Poster Viewing
11:15	07:15	20:15	Bacteriophage; the future cure to treat antibiotic resistant bacteria in Egypt Q and A	<i>Professor Ayman El-Shibiny, Zewail City of Science and Technology, Giza, Egypt</i>
11:45	07:45	20:45	Phages and derived enzymes to control bacterial biofilms Q and A	<i>Professor Joana Azeredo, Universidade do Minho, Campus de Gualtar, Braga, Portugal</i>
12:15	08:15	21:15	Genomics approaches for analysing therapeutic bacteriophages Q and A	<i>Ms Henrike Zschach, Technical University of Denmark, Kongens Lyngby, Denmark</i>
12:45	08:45	21:45	Speaker to be confirmed	Talk tittle to be confirmed
13:15	09:15	22:15	Closing remarks, End of Early Session	

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14:00	10:00	23:00	Phages and CRISPR-Cas in the classroom Q and A	<i>Professor Sylvain Moineau, Universite Laval, Quebec, Canada</i>
14:30	10:30	23:30	Ecology, Applied and Otherwise, of Phage-Biofilm Interactions Q and A	<i>Dr Stephen T. Abedon, The Ohio State University, Mansfield, United States</i>
15:00	11:00	00:00	Session break	Poster Viewing
15:30	11:30	00:30	Computational biology and tools for uncovering hidden information from the viral dark matter. Q and A	<i>Professor Alejandro Reyes Munoz, Universidad de los Andes, Bogota, Colombia</i>
16:00	12:00	01:00	Morphologically distinct phages differ in their kinetic and dynamic Q and A	<i>Dr. Mohammadali Khan Mirzaei, McGill University, Montreal, Canada</i>
16:30	12:30	01:30	Oral Presentations	<i>Speakers to be confirmed</i>
16:45	12:45	01:45	Session Break	Poster Viewing
17:15	13:15	02:15	Lambda Display Phage as a Mucosal Vaccine Delivery Vehicle for Peptide Antigens Q and A	<i>Professor Sidney Hayes and Dr Philip J. Griebel, University of Saskatchewan, Saskatoon, Canada</i>
17:45	13:45	02:45	Coat to Protect or Print to Detect: Phage-based Smart paper to Enhance Food Safety Q and A	<i>Dr Hany Anany, Canadian Research Institute for Food Safety, University of Guelph, Guelph, Canada</i>
18:15	14:15	03:15	Closing remarks, End of Late Session	

ABOUT THE SPEAKERS

Joana Azeredo, Universidade do Minho, Campus de Gualtar, Braga, Portugal

Joana Azeredo is an Associate Professor with habilitation at the Department of Biological Engineering of the University of Minho and develops her research activity at Centre of Biological Engineering (CEB). She belongs to the direction board of CEB and is the head of the Phage Biotechnology Research Group. Her main research interests are biofilm science and technology and bacteriophage biotechnology.

Joana Azeredo obtained her PhD in Chemical and Biological Engineering from the University of Minho (1998) on Biofilm Science and Technology. She has been responsible for several national and European projects related to the areas previously mentioned. She is/was responsible for the supervision of 14 PhD students and 25 MSc students and has published more than 120 international refereed papers, 10 international book chapters, 2 books and 2 patents. Her H-index is 30.

Robert Armon, Technion, Haifa, Israel

Prof. Robert Armon started his academic career on bacteriophages in water, wastewater and effluents as indicators of hygienic quality. During his Post-Doc studies (in USA and Canada) he developed new methods of bacteriophages concentration and detection. Since then he performed environmental research on phages in Israel and in collaboration with researchers from Spain. Recently he performed new directions on phages' application: 1. prevention of biofilm formation on filtration membrane (UF) as a new anti-biofouling measure; 2) use of bacteriophages to prevent hygienic bacterial colonization on human body; and 3) to prevent deep wells clogging by IOB, via specific bacteriophages.

Stephen T. Abedon, The Ohio State University, Mansfield, United States

BS, University of Massachusetts, in Biochemistry; Ph.D., University of Arizona, in Microbiology, concentration in Molecular Genetics, minor in Ecology and Evolutionary Biology; Dissertation title (1990): The Ecology of Bacteriophage T4; Postdoc, University of Pennsylvania. I've been at the Ohio State University since 1995, tenured there in 2001. My interests are in especially the organismal ecology of phages, the applied ecology and, indeed, pharmacology of phage-mediated biocontrol of bacteria, a.k.a., phage therapy, and also issues of phage history. I'm closing in on 100 publications including ~5 monographs and the two most cited and three most read articles in the journal, Bacteriophage.

Bob G Blasdel, KU Leuven, Leuven, Belgium

Bob Blasdel is a PhD student supervised by Rob Lavigne in the Laboratory of Gene Technology at KU Leuven studying the transcriptomes of bacteriophage infected *Pseudomonas aeruginosa* cells through RNA-Seq analysis. He has worked in phage for the last eight years, having gotten his masters at The Ohio State University with Steve Abedon and his Bachelors from The Evergreen State College with Betty Kutter. Bob currently sits on the boards of the PhageBiotics Foundation as well as P.H.A.G.E. and have been active in coordinating the biannual Evergreen International Phage Conference since 2009.

Ian Connerton, Northern Foods Chair of Food Safety, Division of Food Sciences, School of Biosciences, Sutton Bonington Campus, Loughborough, United Kingdom

Ian Connerton is Professor of Food Safety at the University of Nottingham, UK. He joined the University of Reading in 1987 to teach Microbiology before joining the Institute of Food Research in 1991 first as a Section Leader and then Deputy Head of Food Macromolecular Science. He was appointed as the first Northern Foods Chair of Food Safety in 1998 (now 2 Sisters Chair). Current research includes host pathogen interactions of food borne bacterial (*Campylobacter* and

enterovirulent *E. coli*) and viral pathogens, and the influence of bacteriophage on foodborne bacterial pathogen populations.

Ayman El-Shibiny, Zewail City of Science and Technology, Giza, Egypt

Dr. Ayman El-Shibiny is currently an associate professor of biomedical sciences at the University of Science and Technology, Egypt. He completed his Ph.D degree in food microbiology (food safety) from Nottingham University, UK. His main research area is phage therapy and his current research interests include the therapeutic use of bacteriophages. Prior to joining Zewail City, El-Shibiny worked as a postdoctoral fellow at Nottingham University in the U.K., Cardiff University in the U.K., and The Evergreen State College in the U.S. He also served as an associate professor and head of the food sciences department in Suez Canal University (Egypt).

Philip J. Griebel, University of Saskatchewan, Saskatoon, Canada

Dr. Griebel is a Research Fellow at the Vaccine and Infectious Disease Organization (VIDO-Intervac) and Professor in the School of Public Health at the University of Saskatchewan, Saskatoon, SK, Canada. He has been active in research related to mucosal immunity and vaccines for over 25 years and has published over 150 peer-reviewed articles. His current research focus is the role of the microbiome in the development of the mucosal immune system in newborn calves, developing mucosal vaccine delivery vehicles, and vaccination strategies to optimize protection against enteric and respiratory infections.

Sophie Kittler, University of Veterinary Medicine Hannover, Hannover, Germany

Dr. Sophie Kittler is group leader of the phage group at the University of Veterinary Medicine Hannover, Germany. Her main research interests are the practical application of phages in food production and especially in livestock farming. She has been working on phages for six years, performing field trials in commercial broiler flocks during her doctoral research study and in ongoing projects.

Mohammadali Khan Mirzaei, McGill University, Montreal, Canada

After finishing a PhD. in phage therapy at Stockholm University, I joined the Maurice lab at McGill University as a postdoctoral fellow in May 2016 to work on a microbiome engineering project using phages. I am keen to understand the phage-bacteria dynamics in different environments including human body for the targeted manipulation of the gut microbiome and effective infection treatment.

Peter Mullany, UCL Eastman Dental Institute, London, United Kingdom

I have been working on *C. difficile* mobile genetic elements for the past 20 years and have published extensively in this field. I have also used some of these elements to investigate virulence of this organism. In addition I have been investigating the genetics underlying the transfer of antibiotic resistance in bacteria.

Alejandro Reyes Munoz, Universidad de los Andes, Bogota, Colombia

Assistant Professor in the Biological Sciences Department at Universidad de los Andes, Bogotá, Colombia. Microbiologist with M.Sc in molecular microbiology from Universidad de los Andes, Bogotá, Colombia and a PhD in Computational and Systems Biology from Washington University in Saint Louis, MO, USA. Interested in understanding relationships and dynamics in microbial communities, in particular among microbes and their viruses. This approach is taken by the use and development of computational tools that take advantage of latest DNA sequencing technologies.

Sylvain Moineau, Université Laval, Quebec, Canada

Prof. Moineau obtained his BSc in microbiology in 1987 and his Ph.D. in food science in 1993 from the Université Laval. After an industrial postdoctoral fellowship with Quest International/ Unilever,

he returned to his alma mater to start his academic career in 1996. In 2003, he was designated the Curator of the Félix d'Hérelle Reference Center for Bacterial Viruses (www.phage.ulaval.ca). In 2005, he was nominated full Professor of Microbiology. He holds the Canada Research Chair in Bacteriophages since 2011. He was on Thomson Reuters's list of highly cited researchers in the Microbiology Category in 2014 and 2015.

Tina Motwani, University of Connecticut, Storrs, United States

Dr. Tina Motwani received her PhD in Molecular Biology and Biochemistry from Wesleyan University. She is an Assistant Research Professor in Dr. Carolyn Teschke laboratory at the University of Connecticut. The main goal of Teschke lab is focused on understanding the folding of viral proteins. Using bacteriophage P22 as a model system, they are trying to study how the viral proteins assemble with high fidelity into complex structures that form viruses. Dr. Motwani's project is to investigate the assembly of the portal protein complex during the procapsid assembly of bacteriophage P22.

Kristin N. Parent, Michigan State University, East Lansing, United States

Dr. Kristin Parent is a structural biologist, who joined the Department of Biochemistry and Molecular Biology as an Assistant Professor in January, 2013. She is mainly interested in the processes of virus assembly and infection mechanisms. Her work has recently been funded through the National Institutes of Health, as well as through a AAAS award for women in the chemical sciences. Dr. Parent was also the recipient of the College of Natural Sciences outstanding mentor award from Michigan State in 2015.

Philippos Tsourkas, University of Nevada, Las Vegas, Las Vegas, Nevada, United States

Dr. Philippos Tsourkas is from Athens, Greece. He obtained his Ph.D. in Mechanical Engineering from the University of California, Berkeley, in 2004. He worked as a post-doc in the Department of Biomedical Engineering at the University of California, Davis between 2005 and 2011, and at the Curie Institute in Paris in 2012. Since 2013 Dr. Tsourkas is Assistant Professor in the School of Life Sciences at the University of Nevada Las Vegas since 2013, where he works in bioinformatics. Since 2014 he has been active in the area of Paenibacillus larvae bacteriophages, on which he has currently published 4 papers.

Abram Aertsen, Laboratory of Food Microbiology, Department of Microbial and Molecular Systems (M²S), Faculty of Bioscience Engineering, KU Leuven, Leuven, Belgium

Heather E. Allison, University of Liverpool, Merseyside, Liverpool, United Kingdom

Hany Anany, Canadian Research Institute for Food Safety, University of Guelph, Guelph, Canada

Dr. Hany Anany is currently a Research Associate at the Canadian Research Institute for Food Safety, Food Science Department of University of Guelph, Canada. Dr. Anany achieved his Bachelor of Science (BSc) with Honours in 1996 and his Masters of Science (MSc) in Microbiology in 2003 from Ain Shams University, Egypt. In 2010, he completed his PhD in Food Science at University of Guelph, Canada.

He is involved in several research projects that use bacteriophages to enhance food safety since 2006. Dr. Anany's current research areas involve isolation and genome characterization of bacteriophages for taxonomical and application purposes. He is investigating the use of non-immobilized and immobilized bacteriophages to control and detect various foodborne pathogens including, but not limited to, E. coli O157:H7, Listeria monocytogenes and Salmonella spp. in food. He is also studying the effect of the development of resistance against the lytic phages on the virulence fitness of different pathogens. He has published 15 peer reviewed scientific journal articles, 3 book chapters and 16 scientific talks in different meetings and conferences.

Jeremy J Barr, Monash University, Victoria, Australia

Lindsay W. Black, Department of Biochemistry and Molecular Biology, University of Maryland, Baltimore, USA

Lindsay W. Black is a Professor of Biochemistry and Molecular Biology at the University of Maryland Medical School, Baltimore, Md. USA. He received his BS degree from the University of Chicago, and his PhD in Biochemistry from the Stanford University School of Medicine. He was a postdoc in Institute for Molecular Biology at the University of Geneva, Geneva, Switzerland. He took a sabbatical at the Biozentrum at the University of Basel, Basel, Switzerland. He received an NIH Merit award as well as being supported by NIH for over 30 years. He has been on the editorial board of a number of virology and bacteriophage journals.

Sidney Hayes, University of Saskatchewan, Saskatoon, Canada

Rob Lavigne, Ku Leuven, Leuven, Belgium

Sylvain Moineau, Université Laval, Quebec, Canada

Catherine E.D. Rees, University of Nottingham, United Kingdom

Francesco Santoro, University of Siena, LAMMB – Dept. of Medical Biotechnologies, Siena, Italy
Francesco Santoro obtained his M. D. degree at the University of Siena, where he later specialized in clinical microbiology. He studies the genetics of Streptococci with a focus on the biology of chromosomally integrated mobile genetic elements, such as prophages and conjugative transposons.

Peter Speck, Flinders University, Adelaide, Australia

Henrike Zschach, Technical University of Denmark, Kongens Lyngby, Denmark

Henrike Zschach holds a B.Sc in Biophysics from the Humboldt University of Berlin and a M.Sc in Bioinformatics from the Technical University of Denmark. She is currently a PhD candidate and started her PhD studies in November 2014.

Chair Persons

Angela Makumi, KU Leuven, Leuven, Belgium

Mark J van Raaij, Centro Nacional de Biotecnología (CNB-CSIC), Spanish National Research Council, Madrid, Spain

Mark J. van Raaij is Group Leader in the Department of Macromolecular Structures at CNB. His group research focuses on structural biology of the tail fibres of viruses and bacteriophages. Knowledge of the structures of viral and bacteriophage fibre proteins could lead to a variety of biotechnological applications. Modification of the bacteriophage fibre receptor binding specificities could permit improved detection and elimination of specific bacteria. The skills and expertise of the group cover construction of bacterial expression vectors, protein expression, purification, characterization and crystallisation and crystallographic structure determination by de novo or molecular replacement phasing.

Julie Thomas, Rochester Institute of Technology, Rochester, United States

Dr. Julie Thomas is an Assistant Professor in the Gosnell School of Life Sciences at Rochester Institute of Technology. Dr. Thomas first became interested in giant phages during her postdoctoral studies at the University of Texas Health Science Center at San Antonio. At that time it became evident these phages, which were previously thought to be rare, were actually abundant in the environment. It also became apparent there was a massive gap in knowledge as to what makes a giant phage “giant”. To address this problem the Giant Phage Lab uses multi-disciplinary approaches to study the virion and host interactions of phage SPN3US.

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Missing Speakers

It is unfortunate that occasionally a speaker cannot attend. Whilst we do everything possible to ensure that our speakers are present at the event we apologise in advance if you were at a session where a speaker could not attend. We always try to keep our agendas as up to date as possible, however if a speaker cancels the night before an event or on the day, there is little we can do to rectify this.