



MAX-PLANCK-GESELLSCHAFT

November 19-22, 2017

## 3<sup>rd</sup> Ringberg Symposium on Giant Virus Biology

Ringberg Castle, Tegernsee, Germany

### - Scientific Program -

#### Sunday, November 19

15:00 Arrival, Coffee & Cake  
17:00 Welcoming Remarks

17:15-18:15 **Greg Chinchar**  
University of Mississippi, USA  
*Iridoviruses and Their Place in the Virosphere*

18:30 Sandwiches

#### Monday, November 20

08:00-09:00 Breakfast

##### **New Isolates**

Chair: Ruth-Anne Sandaa

09:00 **Masaharu Takemura**  
Tokyo University of Science, Japan  
*Giant Viruses Isolated from Japanese Aquatic Environments*

09:30 **Claudia Wylezich**  
Friedrich Loeffler Institute, Germany  
*A New Giant Virus Isolated from Its Natural Host Saccamoeba sp. Shows a Narrow Host Range*

10:00 **Chris Deeg**  
University of British Columbia, Canada  
*The Kinetoplastid-Infecting Bodo saltans virus (BsV), a Window into the Most Abundant Giant Viruses in the Sea*

10:30 Coffee Break

##### **Infection Biology**

Chair: Avi Minsky

11:00 **Jônatas Abrahão**  
Federal University of Minas Gerais, Brazil  
*Giant Virus Replication in Amoebas: Expanding the Repertoire of the Virosphere*

11:30 **Liran Ben-Yaakov**  
Weizmann Institute of Science, Israel  
*Quantitative, Large-Population Analysis of Mimivirus Infection Cycle Kinetics*

#### Monday, November 20 - continued

12:00 **Yael Fridmann-Sirkis**  
Weizmann Institute of Science, Israel  
*Fibril Deficiency Following Mutations in Three Mimivirus Genes*

12:30 Lunch

##### **Virus-Host Interactions**

Chair: Daouda Traore

14:30 **Sandra Jeudy**  
IGS Aix-Marseille University, France  
*Virion Proteomic Studies Reveal Clues about Marseillevirus Physiology*

15:00 **Assaf Vardi**  
Weizmann Institute of Science, Israel  
*Mapping the Virus-Induced Metabolic Seascape during Algal Blooms in the Ocean*

15:30 **Sheree Yau**  
Observatoire océanologique de Banyuls-sur-Mer, France  
*Genomics of Viral Infection and Virus-Host Coexistence in Ostreococcus*

16:00 Coffee Break

##### **Tools and Updates**

Chair: David Dunigan

16:30 **Gilbert Greub**  
University Hospital Lausanne, Switzerland  
*Lausannevirus – What's New?*

17:00 **Jacques Bou-Khalil**  
IHU Aix-Marseille University, France  
*Fishing Giant Viruses: Strategies, Tips, and Tools*

17:30 Tour of Ringberg Castle  
18:30 Dinner

20:00-21:30 Poster Session

##### Symposium Sponsors:

**DFG**



## Tuesday, November 21

08:00-09:00 Breakfast

### Ecology

Chair: Assaf Vardi

09:00 **Steven Wilhelm**

University of Tennessee, USA

*Ecological Interactions of Giant Viruses Revealed by Metatranscriptomics*

09:30 **Hiro Ogata**

Kyoto University, Japan

*Diversity and Biogeography of Marine Giruses and Their Association with the Biological Carbon Pump*

### Diversity & Evolution

Chair: Jim Van Etten

10:00 **Eugene Koonin**

National Institutes of Health, USA

*New Insights into the Evolution of Giant Viruses and Their Mobilome from Metagenomic Analysis*

10:30 Coffee Break

11:00 **Lutz Becks**

Max Planck Institute for Evolutionary Biology, Germany

*Rapid Coevolution of Chlorella and PBCV1 – from Genes to Populations*

11:30 **Jean-Michel Claverie**

IGS Aix-Marseille University, France

*The Emerging Family Pandoraviridae*

12:00 **Philippe Colson**

IHU Aix-Marseille University, France

*Definition and Classification of Giant Viruses of Amoebae*

12:30 Lunch

Free Afternoon (Hiking etc.)

16:00 Coffee Break

### Structure & Assembly

Chair: Simon Roux

16:30 **Michael Rossmann**

Purdue University, USA

*Evolution of the Capsid Structures in Large dsDNA Viruses*

17:00 **Chuan Xiao**

University of Texas at El Paso, USA

*Jelly-Roll Spiraling All the Way*

## Tuesday, November 21 - continued

17:30 **Thomas Klose**

Purdue University, USA

*The Structure of Pacmanvirus*

18:00 **Jochen Reinstein**

Max Planck Institute for Medical Research, Germany

*Folding, Processing and Assembly of Mavirus Capsid Proteins*

18:30 Conference Dinner

### Phycodnaviruses for Dessert

Chair: Steven Short

20:00 **Jim Van Etten**

University of Nebraska, USA

*Chloroviruses: On a Sugar High*

20:30 **David Dunigan**

University of Nebraska, USA

*The Rise and Fall in Chlorovirus Biology*

21:00 **Gerhard Thiel**

Technical University Darmstadt, Germany

*Codon Usage Affects Function of Viral K+ Channels*

## Wednesday, November 22

08:00-09:00 Breakfast

### Virophages

Chair: Eugene Koonin

09:00 **Matthias Fischer**

Max Planck Institute for Medical Research, Germany

*Virophages As a Defense System in Cafeteria roenbergensis*

09:30 **Simon Roux**

Joint Genome Institute, USA

*Exploring Viral Dark Matter through Time-Series Metagenomes: The Case of Virophages*

10:00 **Steven Short**

University of Toronto Mississauga, Canada

*Genome and Activity of Chrysochromulina parva Virus and Its Constituent Virophage*

10:30 Coffee Break

11:00 Final Discussion

12:00 Departure

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