



MAX-PLANCK-GESELLSCHAFT

November 19-22, 2017

3rd 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 & Beer

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 Metabolic Imprint of Host-Virus Interactions During an Algal Bloom 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

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

Global Distribution 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

Insights into Giant Virus and Virophage Evolution from Metagenome 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

The Capsid Structure of Icosahedral Viruses: the Jelly-Roll Fold, Quasi Symmetry and Evolution

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

Mapping the Virophage Genome Sequence Space Through Metagenomics

10:00 **Steven Short**

University of Toronto Mississauga, Canada

*A New Giant Virus and Virophage Infecting *Chrysochromulina parva**

10:30 Coffee Break

11:00 Final Discussion

12:00 Departure

Sponsored by:



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