



MAX-PLANCK-GESELLSCHAFT

December 6-9, 2023

5th Ringberg Symposium on Giant Virus Biology

Ringberg Castle, Tegernsee, Germany

- Scientific Program -

Wednesday, December 6

15:00 Arrival, Coffee & Cake

16:00 – 16:30 M. Fischer, T. Hackl
Welcoming remarks

16:30 – 17:15
Jean-Michel Claverie (online)
IGS-CNRS Marseille
Keynote lecture: Ringberg Castle: An Ideal Venue to Celebrate 20 Years (already!) of Research on Giant Viruses

17:30 – 18:00
Poster Flash Talks (1 min each)

18:00 Dinner

19:30 – 21:00 **Poster Session**

Thursday, December 7

08:00 – 09:00 Breakfast

Session 1 Viral Diversity
9:00 – 10:30
Chair: Thomas Hackl

J. Andreani, B. La Scola, P. Colson
IHU Aix-Marseille University, France
A Novel Virus Growing in Vermamoeba and a New Trio of Amoeba, Giant Virus and Virophage

Qi Yang
University of British Columbia, Vancouver, Canada
CspV1, the First Isolate of a Giant Virus in the Seatoskyviridae (IM_14)

Julie Thomy
University of Hawai'i Mānoa, USA
Genomic features of two novel marine viruses in the family Mesomimiviridae

Jeff Blanchard
University of Massachusetts at Amherst, USA
New Genomic and Morphological Diversity in Giant Viruses and Relatives of Insect Viruses from Harvard Forest

10:30 Coffee Break with posters

Session 2 Virus-host interactions A
11:00 – 12:30
Chair: Curtis Suttle

Susana Coelho
Max Planck Institute for Biology, Germany
Host-Virus Interactions in the Brown Alga Ectocarpus

Constanze Kuhlisch
Weizmann Institute of Science, Israel
A Tripartite Microbial Interaction Generates a Halogenated Metabolic Hallmark of Viral Infection

Guy Schleyer
Hans-Knöll Institute Jena, Germany
Lipid Modulation During Viral and Virophage Infection in Cafeteria burkhardae

Keizo Nagasaki
Kochi University, Japan
Complex Relationship Between a Bloom-Forming Raphidophyte and its Infectious Virus

12:30 Lunch

Session 3 Biochemistry
14:30 – 15:30
Chair: Sandra Jeudy

Anna Notaro
University of Naples, Italy
Biochemical Characterization of Mimivirus L143 Enzyme: the First Pyruvyl Transferase from a Giant Virus

Cristina de Castro
University of Naples, Italy
The Role of A111/114R in the Biosynthesis of PBCV-1 N-glycan Assembly

David Lamb
Swansea University, UK
Exploring Potential Lipid Metabolism Pathways in Pandoravirus massiliensis

Thursday, December 7 - continued

15:30 Coffee Break with posters

Session 4 Metagenomics

in memoriam Disa Bäckström

16:15 – 17:15

Chair: Ruixuan Zhang

Frederik Schulz

Joint Genome Institute, USA

Expanded Diversity of the Nucleocytoviricota Reveals New Extremes

Tom Delmont

Genoscope, Université Paris-Saclay, France

Mirusviruses Link Herpesviruses to Giant Viruses

Matthias Fischer

Max Planck Institute for Medical Research, Germany

Metagenomics and Electron Microscopy: An Uneasy Alliance?

17:30 Tour of Ringberg Castle
by castle manager Jochen Essl

18:30 Dinner

20:00 Podcast Recording

"This Week in Virology"

With Vincent Racaniello

Friday, December 8

08:00 – 09:00 Breakfast

Session 5 Ecology

09:00 – 10:30

Chair: TBA

Hiroyuki Ogata

Kyoto University, Japan

Polar Adaptation of Giant Viruses in the Ocean

Amir Fromm

Weizmann Institute of Science, Israel

Homing in on the Rare Virosphere Reveals the Native Host of Giant Viruses

David Dunigan

University of Nebraska-Lincoln, USA

The Chlorovirus Farm

Ruth-Anne Sandaa

University of Bergen, Norway

Survival Strategies of Marine Haptophyte-Infecting Viruses in K-Strategist Hosts

10:30 Coffee Break with posters

Session 6 Evolution

11:00 – 12:30

Chair: Morgan Gaïa

Rodrigo Rodrigues

Universidade Federal de Minas Gerais, Brazil

Genomics and Evolution of Chloroviruses: Diving into the Algvirales Taxonomy

Victória Queiroz

Universidade Federal de Minas Gerais, Brazil

Analysis of the Genomic Features and Evolutionary History of Pithovirus-Like Isolates

Christopher Bellas

University of Innsbruck, Austria

Polinton-Like Viruses, Polintoviruses, Polintons, Mavericks and Adintoviruses: Are we all Talking About the Same Thing?

Eugene Koonin

National Institutes of Health, USA

Evolution of the Vast Virus Realm Varidnaviria

12:30 Lunch

Free time for individual discussions, table tennis, chess, reading, napping or exploring

15:15 Coffee Break with posters

Session 7 Virus-host interactions B

15:45 – 16:45

Chair: Gabriel de Freitas Almeida

Anouk Willemsen

University of Vienna, Austria

Giant Virus Interactions from the Micro to the Macro Scale

Hiroyuki Hikida

Kyoto University, Japan

Diversity of Virocells Formed by Different Giant Viruses

Matthias Horn

University of Vienna, Austria

A Giant Virus Infecting the Amoeboflagellate Naegleria

Friday, December 8 - continued

Session 8 Virus-host interactions C

17:00 – 18:30

Chair: Matthias Fischer

Katie Deets

University of Utah, USA

Hunting for Giant Viruses in the Ciliate Tetrahymena

Max Emil Schön

Max Planck Institute for Medical Research,
Germany

*Chlorarachniophytes and their Viruses:
Landlords, Vagrants, and Lodgers*

Sheree Yau

Oceanographic Observatory of Banyuls,
France

*Resistance is Inevitable: Antiviral
Defences in the Ostreococcus-
Prasinovirus Model System*

Hugo Bisio

IGS - Aix Marseille Université, France

*Dissecting Giant Virus Biology Through
a Genetic Lens*

18:30 Conference Dinner

20:00 Open Mic Evening

Saturday, December 9

08:00 – 09:00 Breakfast

Session 9 Structure

in memoriam Michal Rossmann

09:00 – 10:45

Chair: Vasudha Sharma

Pavel Plevka

CEITEC, Masaryk University,
Czech Republic

*Structure and Replication Cycle of a
Virus Infecting Climate-Modulating Alga
Emiliana huxleyi*

James Van Etten

University of Nebraska at Lincoln, USA

Structure of Chlorovirus PBCV-1

Haina Wang

University of Bergen, Norway

*A Novel Architecture of the Marine
Giant Virus Prymnesium kappa virus
RF01 (PkV-RF01) and its Assembly in
the Host Cell*

Kiran Kondabagil

Indian Institute of Technology Bombay,
Mumbai, India

DNA Compaction in Mimivirus

Chuan Xiao

University of Texas at El Paso, USA

*The Role of Tape Measure Protein in
Assembly of Icosahedral Nucleocytovirus
Capsids*

10:45 Coffee Break

11:15 *Final Discussion*

12:00 Departure

sponsored by



MAX-PLANCK-GESELLSCHAFT

German Research Foundation

DFG

Version: 2023-12-05