The RdRp Summit 2025 Program

Day 1 – May 11, 2025

10:00 - 10:10
Welcome & Opening Remarks
Speaker: Ingrida Olendraite (VUGENE - Vilnius, Lithuania)
An introduction to the RdRp Summit and a welcome to all participants.

10:10 - 10:40
Introduction: The RdRp summit initiative: An overview of the last 2 years

- **10:10 - 10:40**

Keynote talk: An overview of the initiative based on the 2023 consensus statement perspectives.
Speakers: Li Chuin Chong (Twincore GmbH / MHH / DKFZ - Hannover, Germany) and Hisham Shaikh (Ghent University - Ghent, Belgium)

10:40 - 12:20
Session 1: RNA Virus Categorization (Classification, Taxonomy & Naming)
Chair: Uri Neri (Joint Genome Institute - California, USA)

- **10:40 - 11:20**

Keynote talk: Perspectives on the ICTV Computational Taxonomy Challenge.
Speaker: Cedric Lood (University of Oxford - Oxford, UK)

- **11:20 - 11:40**

High-throughput taxonomic assignments of environmental viromes based on the ICTV taxonomy framework.
Speaker: Kaiyang Zheng (Ocean University of China - Qingdao, China)

- **11:40 - 12:00**

Tracing Viral Histories: When and Where watermelon mosaic virus and grapevine pinot gris virus emerged.
Speaker: Karima Ben Mansour (Czech Agrifood Research Center- Prague, Czechia)
- 12:00 - 12:20

Phosphate amendment drives bloom of RNA phages after soil wet-up.
Speakers: Ella Tali Sieradzki (Aarhus University - Aarhus, DK)

12:20 - 13:40 - LUNCH BREAK

13:40 - 15:20 pm
Session 2: Best Practices, Standards, and Annotations
Chair: Anne Kupczok (Wageningen University & Research - The Netherlands)

- 13:40 - 14:20

Keynote talk: Minimum Information about an Uncultivated Virus Genome (*MiUViG v2)* and best practices in viral genome annotation.
Speaker: Luke Hillary (University of California, Davis - Davis, USA)
- 14:20 - 14:40

suvtk: making viral genome submission FAIRly easy.
Speaker: Lander De Coninck (KU Leuven - Leuven, Belgium)
- 14:40 - 15:00

The Global RNA Virome in Urban Environments..
Speaker: Alexander Lucaci (Weill Cornell Medicine - New York, USA)
- 15:00 - 15:20

Metagenomic analysis of viral diversity in norwegian rats from Serbia.
Speaker: Vladimir Gajdov (Scientific Veterinary Institute Novi Sad - Novi Sad, Serbia) (remote)

15:20 - 15:50 - AFTERNOON TEA/COFFEE BREAK

15:50 - 17:30
Session 3: Sequencing & Extraction methodologies for RNA virus discovery
Chair: Marco Forgia (Istituto per la Protezione Sostenibile delle Piante - CNR - Turin, Italy)

- 15:50 - 16:30 pm

Keynote talk: Nanopore sequencing for viral detection and surveillance.
Speaker: Anja Pecman (National Institute of Biology - Ljubljana, Slovenia)
- 16:30 - 16:50

Different bio-fractionation methods select for unique DNA and RNA viruses, and unearth a multifaceted relationship between viruses and soil moisture.
Speaker: Josue Rodriguez-Ramos (Pacific Northwest National Laboratory, - Washington state, USA) (remote)

- 16:50 - 17:10

Portable viral genomic surveillance with ViMOP, an easy-to-use Nanopore field sequencing analysis tool.
Speaker: Mia Le (Bernhard Nocht Institute for Tropical Medicine - Hamburg, Deutschland).

- 17:10 - 17:30

Detection of viral sequences at single-cell resolution reveals putative novel viruses perturbing host gene expression.
Speaker: Laura Luebbert (Broad Institute of MIT and Harvard - Massachusetts, USA)

17:30 - 18:00
Session 4: *Community Project - Part 1 (Launch Session)*

- 17:30 - 17:50 pm

Keynote talk: RdRpCATCH: A unified framework for RNA virus discovery based on RdRp profile databases.
Speaker: Dimitris Karapliafis (Wageningen University & Research - The Netherlands)

- 17:50 - 18:00 pm

Flash talks: to introduce new collaborative project ideas within our community.
Speakers: Every participant who's interested in launching an initiative.

Day 2 – May 12, 2025

9:00 - 10:20
Session 5: Data Mining and Metadata Analysis in RNA virus discovery
Chair: Justine Charon (Research Institute for Agronomy, Food and Environment (INRAE) - Bordeaux, France)

- 09:00 - 09:40

Keynote talk: Logan: Planetary-scale assembly of DNA/RNA sequencing data.
Speaker: Rayan Chikhi (Pasteur Institute - Paris, France)

- 09:40 - 10:00

Identifying and characterising endogenous viral elements amongst uncharacterised proteins in public protein databases.
Speaker: Katy Brown (University of Cambridge - Cambridge, UK)

- 10:00 - 10:20

PREDICTORix: A scalable phylogeny-aware approach for quantifying viral spillover risk.
Speaker: Li Chuin Chong (Twincore GmbH / MHH / DKFZ - Hannover, Germany)

10:20 - 10:40
PCI Sponsor talk: Peer Community In (PCI), PCI Plants and Peer Community Journal: from preprint recommendation to diamond open access publication
Speaker: Barbara Class (PCI support officer)

10:40 - 11:10 - MORNING TEA/COFFEE BREAK

11:10 am - 12:50 pm
Session 6: Viral Dark Matter: Detecting Divergent Viruses
Chair: Rachid Tahzima (Vrije Universiteit Brussel (VUB) - Brussels, Belgium)

- 11:10 - 11:50

Keynote talk #1: Using artificial intelligence to document the hidden RNA virosphere.
Speaker: Xin Hou (Pasteur Institute - Paris, France)

- 11:50 - 12:30

Keynote talk #2: BFVD-Foldseek: An integrative structure-based approach to highlight viral dark matter
Speaker: Rachel Seongeun Kim (Seoul National University - Seoul, Republic of Korea)

- 12:30 - 12:50

Soaring above profound depths of RdRP diversity
Speaker: Gytis Dudas (Vilnius University Life Sciences Center - Vilnius, Lithuania)

12:50 - 14:10 - LUNCH BREAK

14:10 - 15:40
Community Project - Part 2 (Group discussion)
Participants can gather into study groups to discuss/develop the collaborative initiatives introduced during day 1.

15:40 - 16:10 - AFTERNOON TEA/COFFEE BREAK

16:10 – 18:00
Conclusion: The RdRp summit initiative: A projection for the next 2 years

- 16:10 – 16:30 pm

Keynote talk: EVBC Projects and Initiatives - VirJenDB: FAIR resources for virus researchers

Speaker: Noriko Cassman (Friedrich Schiller University Jena, Jena - Germany)

- 16:30 – 17:15

Community projects = main discussion outcomes/perspectives.

Speakers (flash talks): Selected community project representatives.

- 17:15 – 18:00

Future perspectives, Announcements & Closing remarks

Discussion: How to consolidate our community, to improve our inclusivity, to carry out community-based initiatives, to keep it active (etc...) ? Come with your ideas to make the RdRp summit a great and long-term story !

* Announcements for upcoming initiatives, workshops, jobs (etc...)

* Formation of the RdRp summit 2027 Organizing / Scientific Committee

* Closing remarks