



## Programme

### Wednesday 22 March

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| 18:00 | Registration (Hotel)                          |
| 19:00 | Reception with light refreshments (Ishavet 1) |

### Thursday 23 March

| Time        | Title   | Speaker  |
|-------------|---|--|
| 08:30-08:45 | Welcome   | Organizing Comitee   |
| 08:45-10:00 | <b>One world and one health. Emerging viruses from a Nordic POV</b><br>Chair: Sofie Elisabeth Midgley, Senior scientist, Virus & Mikrobiologisk Specialdiagnostik, Statens Serum Institut, Copenhagen, DK |  |
| 08:45       | <i>One Health approach to understanding infectious disease emergence</i>  | Tarja Sironen, Adjunct Professor, Director of Helsinki One Health, FI                        |
| 09:15       | <i>Update on avian influenza and Newcastle disease in Norway (online lecture)</i>   | Britt Gjerset, Researcher, Norwegian Veterinary Institute, N                                 |
| 09:35       | <i>Monkeypox – risk of transmission through transfusion or transplantation</i>  | Heli Harvala Simmonds, Associate professor, Laboratory Medicine, University of Edinburgh, UK |
| 10:00       | <b>Coffee Break and poster viewing</b>  |  |

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| <b>10:15-11:30</b> | <b>Antivirals: What's new?</b><br><b>Chair: Varpu Marjomäki, Professor, Vice head, Department of Biological and Environmental Science / Nanoscience center, University of Jyväskylä, FI</b> |  |
| 10:15              | <i>Seven classes of antiviral agents</i>  | Denis E. Kainov, Professor, Department of Clinical and Molecular Medicine, Norwegian University of Science and Technology Trondheim, N   |
| 10:30              | <i>Characterizing the viral-host interaction changes of SARS-CoV-2 variants via BioID-MS</i>  | Sini Huuskonen, PhD Student, University of Helsinki, FI  |
| 10:45              | <i>Development of monoclonal antibodies as antiviral therapy against orthohantaviruses using the bank vole (<i>Myodes glareolus</i>) as a model organism</i>                                | Janne Tynell, Post-doc researcher, Department of Clinical Microbiology, Umea University, S   |
| 11:00              | <i>Tannic acid driven antiviral functionality of cellulose fibers</i>   | Marjo Haapakoski, PhD student, University of Jyväskylä, FI   |
| 11:15              | <i>Natural antiviral compounds</i>  | Varpu Marjomäki, Professor, Vice head, Department of biological and environmental science, University of Jyväskylä, FI   |
| <b>11:30-1430</b>  | <b>Lunch and optional social event (3 hours)</b>  |  |
| <b>14:30-15:30</b> | <b>Are we ready for the next pandemic? SARS-CoV-2, Experiences from the Nordic countries</b><br><b>Chair: Ásgeir Erlendur Ásgeirsson, Landspítali-University Hospital, Reykavik, ISL</b>    |  |
|                    | <i>Short overview (5 min each) followed by <u>panel discussion</u></i>  | Fredrik Müller, Professor, MD, Head of Department, Department of Microbiology, Oslo University Hospital, N<br>Ásgeir Erlendur Ásgeirsson, Landspítali-University Hospital, ISL<br>Claus Nielsen, Head of Department, Virus & Mikrobiologisk Specialdiagnostik, Statens serum Institut, Copenhagen, DK (online)<br>Carita Savolainen-Kopra, Head of Expert Microbiology unit, National Institute for Health and Welfare, FI<br>Anders Vahlne, Senior Professor, Department of Laboratory Medicine, Karolinska Institutet, S |
| <b>15:30</b>       | <b>Coffee Break (15 min)</b>  |  |

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| <b>15:45</b>       | <b>Clinical virology</b>  |   |
|                    | <b>Chair: Svein Arne Nordbø, Associate Professor, MD, Department of Medical Microbiology, St Olavs Hospital, Trondheim, N</b> |   |
| 15:45              | <i>Correlate of protection against fatal COVID-19 among nursing home residents</i>  | Linnea Vikström, PhD student, Department of Clinical Microbiology, Umea University, S                   |
| 16:00              | <i>Parvovirus B19 DNAemia, infection or not that's the question</i>   | Regine Barlinn, MD, PhD, Senior Consultant, Department of Microbiology, Oslo University Hospital, N     |
| 16:15              | <i>HBV transmission via blood transfusion in England – confirmed by sequence analysis, donor with occult HBV</i>              | Heli Harvala Simmonds, Associate professor, Laboratory Medicine, University of Edinburgh, UK            |
| <b>16:30</b>       | <b>Coffee Break (15 min)</b>  |   |
| <b>17:00-18:05</b> | <b>Hepatitis</b>  |   |
|                    | <b>Chair: Susanne Dudman, Associate professor, MD, Oslo University Hospital and Oslo University, N</b>                        |   |
| 17:00              | <i>Hepatitis E virus: The important, but neglected European zoonosis</i>  | Lars Erik Larsen, Professor, Department of Veterinary and Animal Sciences, University of Copenhagen, DK |
| 17:30              | <i>Acute severe hepatitis of unknown etiology in children</i>   | Gülşen Özkaya Sahin, MD, PhD, Division of Medical Microbiology, University of Lund, S                   |
| 17:50              | <i>Promising results from a hepatitis E vaccine study in rural Bangladesh</i>   | Joakim Øverbø, MD, PhD student, Norwegian Institute of Public Health, N                                 |
| <b>18:05</b>       | <b>Leisure time and poster viewing</b>  |   |
| <b>19:00</b>       | <b>Gala dinner (with Poster Prize) and going out "North Norwegian style" (open end)</b>                                       |   |

## Friday 24 March

| Time               | Title  | Speaker   |
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| <b>09:00-10:00</b> | <b>The virus vs the Immune system</b><br><b>Chair: Anders Sönnerborg, Professor, MD, Department of Laboratory Medicine, Karolinska Institutet, S</b>                     |   |
| 09:00              | <i>SARS-COV-2 immunity after mRNA vaccination in healthy individuals and immune deficient patients</i>   | Marcus Buggert, Associate professor, Centre of Infectious Medicine, Karolinska Institutet, S  |
| 09:30              | <i>Humoral and T cell-mediated immune responses to coronaviruses in Finnish adolescent and children</i>  | Laura Kakkola, Adjunct Professor, Institute of Biomedicine, University of Turku, FI   |
| 09:45              | <i>Sigmoid colon is implicated as an anatomic site linked to mechanisms causing incomplete immune recovery in people living with HIV</i>                                 | Mari Kaarbø, PhD, Reseacher, Group leader, PhD, Departmet of Microbiology, Oslo University Hospital, N  |
| <b>10:00</b>       | <b>Coffe Break</b>   |   |
| <b>10:15-11:15</b> | <b>Future methods and diagnostic in virology</b><br><b>Chair: Laura Kakkola, Adjunct Professor, Institute of Biomedicine, University of Turku, FI</b>                    |   |
| 10:15              | <i>Applications of NGS in diagnostic virology and as part of future pandemic preparedness</i>  | Teemu Smura, Postdoc, Department of Virology, University of Helsinki, FI  |
| 10:40              | <i>Near-Patient Molecular Testing – the journey to patient self-test</i>   | Uffe Vest Schneider, Head of section for virus preparedness, Department of Virus & Special Diagnostics, Statens Serum Institut, Copenhagen, DK (online) |
| 11:00              | <i>Efficient and accurate whole-genome sequencing of HBV using Nanopore</i>  | Johan Ringlander, MD, PhD student, Sahlgrenska University Hospital Gothenburg, S  |
| <b>11:15</b>       | <b>Q&amp;A and Poster session</b>  |   |
| <b>11:30</b>       | <b>Lunch (hotel)</b>   |   |
| <b>12:30-13:45</b> | <b>Basic virology</b><br><b>Chair: Christine Hanssen Rinaldo, Senior reseacher/Professor, University Hospital of North Norway/UiT The Arctic University of Norway, N</b> |   |
| 12:30              | <i>Discovery and characterisation of novel molecular mechanisms of bacterial innate antiviral immunity</i>   | Vasili Hauryliuk, senior lecturer, University of Lund, S  |
| 12:45              | <i>Isolation and characterization of the first Nordic giant virus found in Finland</i>   | Gabriel Magno de Freitas Almeida, Associate professor, The Norwegian College of Fishery Science, Faculty of Biosciences,                                |

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| 13:00              | <i>Modeling bk polyomavirus infection in polarized renal epithelial cells</i>  | Fisheries and Economics, UiT - The Arctic University of Norway, Tromsø, N   |
| 13:15              | <i>Ribavirin therapeutic as a mutagen of Crimean-Congo haemorrhagic fever virus (CCHFV) genome in clinical samples</i>   | Elias Myrvoll Lorentzen, PhD student, Department of Microbiology and Infection Control, University Hospital of North Norway/UiT The Arctic University of Norway, N  |
| 13:30              | <i>Rapid blood clearance of phage K1F-GFP is mediated by the liver and executed by Kupffer cells and liver sinusoidal endothelial cells in collaboration</i>                                 | Nadina Wand, Senior Research Scientist, UK Health Security Agency, Science Group, Poorton Down, Salisbury, UK<br>Anett Kristin Larsen, Reseacher, Department of Medical Biology, UiT The Arctic University of Norway, N |
| <b>13:45</b>       | <b>Coffee break</b>  |   |
| <b>14:00-15:00</b> | <b>An ever-changing epidemiology? Changing epidemiology post pandemic</b><br><b>Chair: Andreas Lind, MD, PhD, Senior Consultant, Department of Microbiology, Oslo University Hospital, N</b> |   |
| 14:00              | <i>The effect of COVID-19 on seasonal Influenza and respiratory syncytial virus</i>  | Ramona Trebbien, Head of section, Virus & Mikrobiologisk Specialdiagnostik, Statens Seruminstitut, DK   |
| 14:20              | <i>Incidence of airway virus in Norway</i>   | Olav Hungnes, Senior reseacher, Norwegian Institute of Public Health, N   |
| 14:40              | <i>Global Virus Network</i>  | Anders Vahlne, Senior Professor, Department of Laboratory Medicine, Karolinska Institutet, S  |
| <b>15:00</b>       | <b>Wrap-up and good bye (15 min)</b>   |   |
|                    | Organizing comitee   |   |

## Abstracts

| Title (link to abstract)  | Corr. Author                     |
|---|----------------------------------|
| <a href="#">A Serological Report on Bovine Herpes Virus Type 1 (BHV-1) in Mid Black Sea Region of Turkey: Traces from Cattle and Sheep local Herds</a>                                  | Ahmed Eisa Elhag Ibrahim         |
| <a href="#">Characterizing the viral-host interaction changes of SARS-CoV-2 variants via BioID-MS</a>   | Sini Huuskonen                   |
| <a href="#">Correlate of protection against fatal COVID-19 among nursing home residents</a>   | Linnea Vikström                  |
| <a href="#">Detection and genetic characterization of tick-borne encephalitis virus from sylvatic rodents from north-eastern Poland</a>   | Martyna Krupińska                |
| <a href="#">Detection and recovery of bacteriophage ΦX174 from filters and the effect of ZnO to inactivate microorganisms.</a>  | Lucia Gonzales Strömberg         |
| <a href="#">Development of a translational pipeline for better comprehension of coronavirus mutational patterns and antibody escape</a>   | Milena Samojlović                |
| <a href="#">Development of monoclonal antibodies as antiviral therapy against orthohantaviruses using the bank vole (<i>Myodes glareolus</i>) as a model organism</a>                   | Janne Tynell                     |
| <a href="#">Discovery and characterisation of novel molecular mechanisms of bacterial innate antiviral immunity</a>   | Vasili Hauryliuk                 |
| <a href="#">Dynamics of SARS-CoV-2 spike-IgG throughout three Covid-19 vaccination regimens: a 21-month longitudinal study of 82 Norwegian healthcare workers</a>                       | Marita Helen Augustinussen       |
| <a href="#">Efficient and accurate whole-genome sequencing of HBV using Nanopore</a>  | Johan Ringlander                 |
| <a href="#">High immune response and long-term persistence of anti-HBs antibodies after vaccination with a 3-antigen HBV vaccine compared to a single-antigen HBV vaccine in adults</a> | Timo Vesikari                    |
| <a href="#">High-Throughput Drug Repurposing Screen for Antivirals Targeting Orthohantaviruses</a>  | Wanda Christ                     |
| <a href="#">Humoral and T cell-mediated immune responses to coronaviruses in Finnish adolescent and children</a>  | Laura Kakkola                    |
| <a href="#">HUNT-One Health project</a>   | Øyvind Øines                     |
| <a href="#">Isolation and Characterization of Bacteriophages from the Arctic</a>  | Sabuj Hosen                      |
| <a href="#">Isolation and characterization of the first Nordic giant virus found in Finland</a>   | Gabriel Magno de Freitas Almeida |
| <a href="#">Modeling bk polyomavirus infection in polarized renal epithelial cells</a>  | E. M. Lorentzen                  |
| <a href="#">Of course you would never publish in a predatory journal...or would you?</a>  | Henriette Christie Ertsås        |

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|--|-------------------|
| <a href="#"><u>Promising results from a hepatitis E vaccine study in rural Bangladesh</u></a>  | Joakim Øverbø     |
| <a href="#"><u>Rapid blood clearance of phage K1F-GFP is mediated by the liver and executed by Kupffer cells and liver sinusoidal endothelial cells in collaboration</u></a> | Anett K. Larsen   |
| <a href="#"><u>Respiratory viruses above the arctic circle: 5-years of diagnostics in Northern Norway</u></a>  | Øyvind Trydal     |
| <a href="#"><u>Ribavirin therapeutic as a mutagen of Crimean-Congo haemorrhagic fever virus (CCHFV) genome in clinical samples</u></a>                                       | Nadina Wand       |
| <a href="#"><u>Secretome profiling of BK polyomavirus (BKPyV) infected cells: new clues to understand persistent BKPyV infection?</u></a>                                    | Stian Henriksen   |
| <a href="#"><u>Seven classes of antiviral agents</u></a>   | Denis E. Kainov   |
| <a href="#"><u>Sigmoid colon is implicated as an anatomic site linked to mechanisms causing incomplete immune recovery in people living with HIV</u></a>                     | Mari Kaarbø       |
| <a href="#"><u>Tannic acid driven antiviral functionality of cellulose fibers</u></a>  | Marjo Haapakoski  |
| <a href="#"><u>The dynamin-inhibitor dynasore blocks cytomegalovirus infection in primary mouse liver sinusoidal endothelial cells</u></a>                                   | Ingelin Kyrrestad |