



16th Smögen Summer Symposium on Virology

August 22-24, 2019

Program

Venue: Smögens Havsbad

Arranged by Swedish Society for Virology

<http://www.swedishvirology.se>

Welcome to the 16th Smögen Symposium on Virology!

It is a pleasure for the Organizing Committee to announce that the 16th symposium will be held at Smögens Havsbad, Smögen, Thursday August 22 to Saturday August 24, 2019.

The scientific as well as the social agenda will be very much alike previous Smögen meetings. This year we will have the pleasure to listen to, and discuss with Dr Stan Lemon, Dr Stephanie Karst, and Dr Noël Tordo, on the subjects of Hepatitis virus, viral gastroenteritis, and rabies virus, respectively. This year there will also be a memorial lecture by Dr Anders Widell for our colleague and friend Dr Jonas Blomberg who is no longer with us. The latest exciting addition to the program is Dr Vincent Racaniello and TWiV (This Week in Virology) event with Dr Erling Norrby on the topic Nobel Prizes and virology.

Smögens Havsbad or “Havsbadet” is a famous spa establishment with traditions from 1903, and with a splendid view of the beautiful archipelago north-west of Smögen. Havsbadet is a fully modern hotel with high-class cuisine, and an excellent conference facility, including an indoor swimming pool. As the number of expected delegates exceeds the number of beds at Havsbadet we have reserved one excellent alternative: “Makrillviken”, a high standard youth hostel, situated less than 200 m from Havsbadet. We wish you all very welcome in Smögen!

Kristina Nyström, Niklas Arnberg, David Persson, Lennart Svensson, Michael Lindberg och Åke Lundkvist



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Thursday, August 22

All events are at Smögens Havsbad unless otherwise stated.

Please note that all information provided during the sessions is considered as privileged. You are therefore not allowed to take any photographs of the slides.

12.00 Lunch + Registration (collect information and nametag outside conference hall)

13.30 Welcome and Practical Information: Kristina Nyström

13.45-14.30 **Keynote 1**
Introduction: Åke Lundkvist

Dr. Noël Tordo	Paris, France	Recent progress in rabies research : filling the gap from basic science in Paris to field reality in Conakry
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14.30-15.30 **Session 1: Virus-Cell Interactions**
Chair: Anna Överby

Gerry McInerney	Stockholm	Separate domains of G3BP promote efficient clustering of alphavirus replication complexes and recruitment of the translation initiation machinery
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Gisa Gerold	Umeå	Quantitative proteomics of Uukuniemi virus - host cell interactions reveals GBF1 as proviral host factor for phleboviruses
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Per Eriksson	Uppsala	Receptor Tropism of Avian Influenza A Viruses H1-16
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Yara Abidine	Umeå	The role of cell-surface glycosaminoglycans in modulating the herpes simplex virus binding and diffusion on the cell membrane
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Richard Lindqvist	Umeå	Tick-borne Encephalitis Virus Pathogenesis: Virulence Factors
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Ebba Samuelsson	Gothenburg	Distinct glycosylation profiles of keratinocytes, fibroblasts and stem cells infected with different strains of Herpes Simplex Type 1 virus
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15.30 Coffee Break

16.00-16.45	Session 3: Virus-Cell Interactions II Chair: Gerry McInerney	
Emeli Torsson	Uppsala	Peste-des-petits-ruminants virus V and C protein modulate the type I and type II interferon response
David Persson	Umeå	Human adenovirus type 56 uses membrane cofactor protein (CD46) as a cellular receptor
Annasara Lenman	Umeå	Cell surface nucleolin promotes lactoferrin-dependent adenovirus infection of human airways
Troels Scheel	Copenhagen	MicroRNA-17 is an important host factor for pestiviruses
16.45-17.05	Session 2: Molecular and Structural Virology Chair: Marianne Jansson	
Lars-Anders Carlsson	Umeå	In situ structural studies of enterovirus replication using cryo-electron tomography
Göran Akusjärvi	Uppsala	Function of ZC3H11A – a cellular RNA-binding protein required for efficient growth of multiple human nuclear-replicating viruses
17.05-17.35	Session 3: Emerging Viruses Chair: Marie Hagbom	
Maja Malmberg	Uppsala	A cross-sectional seroprevalence study of Crimean-Congo Hemorrhagic Fever Virus in cattle, Uganda, 2017
Pontus Öhlund	Uppsala	Characterization of the virome of Swedish mosquitoes reveal a number of new/novel RNA viruses
Raphael Wolfisberg	Copenhagen	Establishment of <i>in vitro</i> systems for rodent hepacivirus, a highly relevant surrogate model for HCV
17.35-18.00	Technical News Flash	
18.30	Welcome reception, <i>Smögen Fishing Harbour</i>	
20.00	Dinner	

Friday, August 23

07.30 Breakfast

09.00-09.45 **Keynote 2**
Introduction: Lennart Svensson

Dr. Stephanie Karst	Gainesvill, FL	The influence of age and the intestinal microbiota on norovirus pathogenesis
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09.45-10.45 **Session 4: Viral Immunology and Vaccines**
Chair: Kristina Eriksson

Torbjörn Ramqvist	Stockholm	Protein expression in oropharyngeal and hypopharyngeal cancer in relation to Human Papillomavirus and clinical outcome
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Matti Sällberg	Stockholm	Targeting CAR-T cells to the liver using hepatitis B
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Britta Wahren	Stockholm	Preclinical data supporting gene-based immunotherapy against HIV
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Malin Alsved	Lund	Experimental assessment of infectivity of aerosolized murine noroviruses
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Annika Karlsson	Stockholm	Features of early HIV-specific CD8 T cell responses in association with protective HLA-alleles
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Sofia Appelberg	Stockholm	mRNA-LNP Immunization Protects IFNAR ^{-/-} Mice Against Crimean-Congo Hemorrhagic Fever Virus Infection
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10.45 **Poster Session** including Coffee (the floor below the main venue)

11.35-12.45 **Session 5: Pathogenesis**
Chair: Gustaf Rydell

Yiming Shao	China	The evolution of HIV-1 CRF01_AE Clusters and their impacts on pathogenesis
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Clas Ahlm	Umeå	Neutralizing antibodies against hantaviruses derived from human survivors – potential for future treatment
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Nunya Chotiwan	Umeå	Whole Tissue <i>Ex Vivo</i> Imaging Sheds Light on Tropism and Neuroinvasion of Tick-borne Flavivirus in Mouse Brain
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Marie Hagbom	Linköping	Neurotrophic factors protect the intestinal barrier from rotavirus insult in mice
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Arash Hellysaz	Linköping	Gastrointestinal rotavirus infection activate/deactivate specific neuronal populations in the mouse brain
Ujjwal Neogi	Stockholm	A mechanism based integrated multi-omics approach to understand natural immune control mechanism in HIV-infection

12.45 Lunch

14.00-15.15 TWiV

Dr. Vincent Racaniello New York, NY TWiV recording with Dr Erling Norrby on the topic Nobel Prizes and virology

15.15-15.30 Jonas Blomberg Memorial Session

Anders Widell Lund Jonas Blombergs accomplishments in Clinical Virology

15.30 Coffee Break

16.00-17.10 Session 6: Clinical Virology and Diagnostics

Chair: Magnus Evander

Martin Lagging Gothenburg Introducing the Fever After Tick Bite (FATB) Study; Evaluating the Early Phase of TBE and other Tick-Borne Infections

Anders Fomsgaard Copenhagen Metagenomic Array Detection of Emerging Virus in EU (The MAD-VIR project)

Charlotta Nilsson Stockholm HIV diagnosis in the presence of HIV vaccine-induced antibody responses

Joanna von Hofsten Halmstad Acute Retinal Necrosis- characteristics of alpha herpes virus found in intraocular fluids

Lars-Magnus Andersson Gothenburg Measles outbreak in Gothenburg urban area, Sweden, 2017 to 2018: low viral load in breakthrough infections

Benjamin Nilsson New York Inherent replication conflicts in the biology of negative-strand RNA viruses

18.30 Archipelago Cruise & Seafood buffet (see page 11)

Saturday, August 24

07.30 Breakfast

09.00-09.45 **Keynote 3**
Introduction: Anders Widell

Dr. Stanley Lemon	Chapel Hill, NC	Cellular entry of naked and quasi-enveloped hepatoviruses
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09.45-10.05 **Session 7: Antivirals and Chemotherapy**
Chair: Tomas Bergström

Jacob Westman	Stockholm	The development of a novel heterocyclic candidate drug for treatment of enterovirus induced disease
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Jackson Mollel	Gothenburg	Antiviral Activity of Medicinal Plants from Kagera Region in Tanzania
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10.05 Coffee Break

10.35-11.25 **Session 8: Tumor Virology**
Chair: Stefan Schwarz

Tina Dalianis	Stockholm	Studies on human papillomavirus (HPV) - related Head and Neck cancers and identification of biomarkers for individualized targeted therapy
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Johan Ringlander	Gothenburg	Liver tissue transcriptomes from chronic HBV patients show extensive expression of integrated hepatitis B virus DNA
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Xiaoxu Cui	Lund	Are HPV mRNAs m6A-methylated and how does it affect HPV16 mRNA processing?
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Johanna Jönsson	Lund	Expression of the major HPV16 E6 and E7 oncogene mRNAs is controlled by three distinct splicing regulatory RNA elements
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11.25 Annual Meeting Swedish Society for Virology

12.00 Lunch

13.00 Bus 1 leaves for Gothenburg
13.30 Bus 2 leaves for Gothenburg

The Venue: Smögens Havsbad

A fully modern hotel with a capacity of more than 100 guests in comfortable single and double rooms. Indoor swimming-pool and exclusive spa services available. The conference facilities include a fully equipped lecture hall taking 100-200 people, and a lot of smaller meeting rooms. The cuisine is excellent, the



Foto: SYEN LINDWALL

same overwhelming view of the Skagerrak archipelago as experienced by the first summer guests of Smögens Havsbad in 1903 is still available from the dining room and the western terrace. The hotel is situated close to the heart of Smögen offering excellent sea baths and easy access to the classical wooden quay of the Smögen Sailing Harbour.

Additional lodgings: Makrillviken & Pensionat Bryggan:



Ideal accommodation for the young virologists accepting shared rooms, all renovated 2015 with private shower and toilet. Modern standard. Full board, incl. bed cloths and bathroom towels also for the delegates staying at Makrillviken and Bryggan (fallback). All meals and service at Havsbadet. Delegates registering for "Bed in shared room" will primarily be checked in at Makrillviken.

Useful information:

Accommodation

Registration includes Full Board and all conference activities listed in the program. You **do not** need to bring any bedclothes etc, but please bring your own towel for outdoor swimming activities.

Bus Transfer Göteborg-Smögen

Buses will leave from Downtown Göteborg (Drottningtorget) at about 10.20 on August 22 and from Smögen after lunch on August 24. All transfer is complimentary. The bus ride takes 1 hour 50 minutes. We will schedule the bus to wait for trains from Stockholm and Malmö arriving between 10-10.40. However, should extreme train delays occur, the delegates concerned will be instructed by mobile telephone how to act. To sign up for bus transport please mail your (a) e-mail address and (b) mobile phone number to Bus Captain Maria Johansson (maria.johansson@microbio.gu.se).

Usually the Swedish West Coast climate is dry and sunny in late August (19-22°C daytime and the sea temperature about 20°C) but the temperate climate zone means a slight but definite risk for occasional low pressure weather with wind and showers. Please bring a sweater, rain jacket, and an umbrella just to be sure. The sea is excellent for swimming and diving, flippers and snorkel recommended.

Scientific presentations

There will be a number of sessions, each addressing a specific topic. Most of them will be opened by a short introduction lecture. One of the intentions is to give a background for the “preclinical” audience for more “clinically” oriented sessions and vice versa. In addition, participants are offered to submit an oral presentation (no longer than 7 minutes + time for a few questions) that will be scheduled to appear in a suitable session. There will be a maximal number (7) of slides.

Registration Fee includes everything!

As soon as you embark the complimentary bus shuttle to Smögen, the Registration fee will cover everything: Admittance to all sessions, full board, all social activities, bus shuttle from Gothenburg (Round trip), and a three (3) year membership in Swedish Society for Virology.

Conference dinner on Friday:

Seafood Buffet on board of M/S “Byfjorden” during an evening cruise in the Smögen Archipelago



Welcome onboard the “Byfjorden” to a traditional Smögen Seafood Buffet including, shrimps, crayfish and a lot of other sea food specialities.

“Byfjorden” was built in 1968 at Skaalurens Skibsbyggeri, Rosendal, Norway. The ship was lengthened in 1989

by 5 meters and she is now 31 m long with a cruising speed of 11 knots. She recently became thoroughly restored and modernized and takes up to 120 dining guests. Her large upper deck offers great possibilities for wonderful views of the scenery.

Alternative Friday Night Activity: Gourmet Three Course Dinner

The Gourmet Dinner will take place at Smögens Havsbad as an alternative for delegates not interested in Archipelago Cruises and Seafood mainly based on shellfish.

Map of important places



The positions of the two hotels are indicated. Läsidan is a room annex for Havsbadet

A: Where boarding for the Seafood Cruise on Friday takes place.

B: Place for Welcome Reception Thursday