

14th Smögen Summer Symposium on Virology

August 24-26, 2017

Program

Venue: Smögens Havsbad

Arranged by Swedish Society for Virology

<http://www.swedishvirology.se>

Welcome to the 14th Smögen Symposium on Virology!

It is a pleasure for the Organizing Committee to announce that the 14th symposium will be held at Smögens Havsbad, Smögen, Thursday August 24 to Saturday August 26, 2017.

The scientific as well as the social agenda will be very much alike previous Smögen meetings. One aim is to bring together Scandinavian virologists, representing clinical, preclinical and environmental 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 a 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 to Smögen!

Sigvard Olofsson, Tomas Bergström, Magnus Lindh, Kristina Eriksson, Lennart Svensson, Kristina Nyström



ThermoFisher
SCIENTIFIC

TRIOLAB

QIAGEN

Roche

Thursday, August 24

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: Sigvard Olofsson

13.45-14.20 Keynote 1
Introduction: Michael Lindberg, Kalmar

Dr. Johan Neyts	Leuven, Belgium	Antivirals, a lot has been achieved, yet a long way to go
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14.25-15.15 Session 1: Virus-Cell Interactions
Chair: Susann Teneberg, Gothenburg

Per Eriksson	Uppsala	The pig as a "mixing vessel" for IAVs revisited; new data from virus attachment studies
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Annasara Lenman	Umeå	Polysialic acid is a cellular receptor for human adenovirus 52
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Anandi Rajan	Umeå	Role of Capsid Proteins of Enteric Human Adenoviruses
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Marta Bally	Gothenburg	Cell-surface mimics to probe interactions between herpes simplex viruses and cell-surface carbohydrates
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Ola Blixt	Copenhagen	Synthesis of Cholesterol-Substituted Glycopeptides for Tailor-Made Glycocalyxification of Artificial Membrane Systems
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15.15 Coffee Break

15.45-17.05 Virus-Cell Interactions, part 2
Chair: Marta Bally, Gothenburg

Ali Mirazimi	Stockholm	The molecular pathogenesis of Zika Virus
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Kwon Yongdae	Umeå	Localization of Zika virus capsid protein expression in HEK 293 cells
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Göran Bucht	Umeå	Quantification and kinetics of individual RNA segments in Hantavirus infected cells
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Cristiano Salata	Stockholm	Genome-wide screening of haploid stem cells for the discovery of essential genes for marburg virus infection
Michael Kann	Bordeaux, France	Retrograde transport of hepatitis B virus capsids
Kariem Ezzat Ahmed	Stockholm	Viral Protein Corona and Viral-Induced Amyloidogenesis
Niklas Arnberg	Umeå	Nucleolin is a cellular receptor for lactoferrin-dependent HAdV infection of human airways

18.30 Welcome reception, *Smögen Fishing Harbour*

20.00 Dinner

Friday, August 25

07.30 Breakfast

09.00-09.35 **Keynote 2**
Introduction: Kristina Eriksson, Gothenburg

Dr. Didier Raoult	Marseille, France	The world of giant viruses
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09.40-10.00 **Session 2: Pathogenesis**
Chair: Malgorzata Krzyzowska, Wroclaw, Poland

Vanessa Monteil	Stockholm	An in vitro assay to study the molecular pathogenesis of Crimean-Congo Hemorrhagic Fever Virus
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Marie Hagbom	Linköping	Enteric glia cells control intestinal permeability during rotavirus infection
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10.00 **Poster Session** including Coffee (the floor below the main venue)
Chair: Marianne Jansson, Lund

10.50-11.30 **Session 3: Antivirals and Chemotherapy**
Chair: Jan Albert, Stockholm

Kristina Nyström	Gothenburg	Inosine triphosphate pyrophosphatase enhances the effect of ribavirin on hepatitis C virus cell culture infection
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Mårten Strand	Umeå	Discovery and development of benzavir-2, a novel broad-acting antiviral compound
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Dario Akaberi	Uppsala	In-silico identification of potential Zika Virus NS2B-NS3 protease inhibitors
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Britta Wahren	Stockholm	Neutralizing antibody and antiviral effects to HIV are induced by transmembrane DNA/proteins
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11.30-12.40 **Session 4: Clinical Virology and Diagnostics**
Chair: Tina Falkeborn, Linköping

Peter Norberg	Gothenburg	Asymptomatic shedding of human herpesviruses in saliva
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Mahesh Anagandula	Uppsala	Characterization of BK polyomavirus associated pathology in kidney transplant recipients
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Ebba Samuelsson	Gothenburg	Hepatitis E virus-infection in allogenic hematopoietic stem cell transplant recipients
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Simon Larsson	Gothenburg	Comparison of real-time PCR with droplet digital PCR for quantification of hepatitis D virus
Helena Vandesande	Kalmar	Screening and analysis of saffold virus in Sweden
Mia Brytting	Stockholm	National reference laboratory network launched and the viral microbial surveillance performed at the public health agency of Sweden

12.40 Lunch & Free Activities

15.00-15.35 Keynote 3

Introduction: Tomas Bergström, Gothenburg

Dr. Marilyn Roossinck	University Park, Pennsylvania	Ecology of Plant and Fungal Viruses
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15.40-16.10 Session 5: Environmental and Emerging Viruses and Epidemiology Chair: Ali Mirazimi, Stockholm

Hao Wang	Gothenburg	Identification of Viruses in Sewage Water Using NGS Technology
Maria Hellmér	Kongens Lyngby, Denmark	Viral indicators for fecal contamination - a one year metagenomic study of treatment efficiency in Danish waste water treatment

16.00 Coffee Break

16.30-17.20 Environmental and Emerging Viruses and Epidemiology, part 2 Chair: Ali Mirazimi, Stockholm

Sofia Persson	Uppsala	Quantification of norovirus RNA in oysters using reverse transcription droplet digital PCR
Soizick Le Guyader	Nantes, France	Norovirus detection in sewage and oyster samples by next generation sequencing methods
Marianela Patzi Churqui	Gothenburg	Prevalence of Sexually Transmitted Viral Infections among women in the Bolivian Amazonas
Matti Sällberg	Stockholm	New concept for therapeutic vaccination in chronic hepatitis B and D

18.45 Archipelago Cruise & Seafood buffet (see page 11)

Saturday, August 26

07.30 Breakfast

09.00-09.20 **Special Subject Address**
Introduction: Niklas Arnberg, Umeå

Dr. Lars-Anders Carlson	Umeå	In vitro reconstitution of selective HIV-1 genome packaging
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09.20-09.30 **Session 6: Tumor virology**
Chair: Matti Sällberg, Stockholm

Haoran Yu	Lund	The nucleosides adenosine and guanosine activate HPV16 late gene expression in a synergistic manner
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09.30-09.40 **Session 7: Molecular and Structural Virology**
Chair: Matti Sällberg, Stockholm

Anna Munke	Uppsala	Coherent diffraction of single rice dwarf virus particles
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09.40 Coffee Break

10.10-11.10 **Session 8: Viral Immunology and Vaccines**
Chair: Mia Brytting, Stockholm

Gulsen Özkaya Sahin	Lund	Broad and Potent plasma neutralizing antibody response develops already during the first year of an HIV-2 infection
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Charlotta Nilsson	Stockholm	Three-year durability of immune responses induced by HIV-DNA and HIV-modified vaccinia virus Ankara (MVA) and effect of a late HIV-MVA boost in Tanzanian volunteers
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Marianne Jansson	Lund	HIV-1 and HIV-2 cross-reactive antibody effector functions
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Clas Ahlm	Umeå	Therapeutic monoclonals - a potential approach for treatment of hantavirus infection
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Eric Seruyange	Gothenburg	Seroepidemiology of Chikungunya virus, West Nile virus and Zika viruses among blood donors in Rwanda
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11.10 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: SVEN 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

Ideal accommodation for the young virologists accepting shared rooms, all of which from 2015 with private shower and toilet. Modern standard. Full board, incl. bed cloths and bathroom towels also for the delegates staying at Makrillviken. All meals and service will be at Havsbadet. Delegates registering for "Bed in shared" will be checked in at Makrillviken in the first place.



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 (outside Clarion Post Hotel, Drottningtorget) at about 10.30 on August 24 and from Smögen after lunch on August 26. All transfer is complimentary. The bus ride takes 1 hour 50 minutes. For questions contact bus captain Maria Johansson (maria.johansson@microbio.gu.se, 0736-841807).

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