



# 15<sup>th</sup> Smögen Summer Symposium on Virology

August 23-25, 2018

## Program

**Venue: Smögens Havsbad**

**Arranged by Swedish Society for Virology**

<http://www.swedishvirology.se>

## Welcome to the 15<sup>th</sup> Smögen Symposium on Virology!

It is a pleasure for the Organizing Committee to announce that the 15th symposium will be held at Smögens Havsbad, Smögen, Thursday August 23 to Saturday August 25, 2018.

The scientific as well as the social agenda will be very much alike previous Smögen meetings. However, one novel feature is the introduction of a special lecture to honour Professor Erik Lycke, responsible for the virus inactivation studies, critical for the success of the inactivated Swedish polio vaccine that was contrived by the late Professor Sven Gard and his group. The organizers are proud to announce that Dr. Stanley Prusiner, Nobel Laureate 1997 and a personal friend of Dr. Lycke, has accepted to give the first Erik Lycke Lecture.

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 in Smögen!

*Sigvard Olofsson, Tomas Bergström, Niklas Arnberg, Magnus Lindh, Kristina Nyström, Rickard Nordén*



## Thursday, August 23

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

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**13.45-14.30** **Keynote 1**  
Introduction: Niklas Arnberg

<b>Dr. Nihal Altan-Bonnet</b>	Bethesda, MD	Vesicular Transmission of Viral Populations: Strength in Numbers
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**14.30-14.50** **Session 1: Antivirals and Chemotherapy**  
Chair: Marianne Jansson

<b>Marjo Puumalainen</b>	Stockholm	Exploring virus-host cell interactions to battle against highly pathogenic RNA viruses
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<b>Vanessa Monteil</b>	Stockholm	Three-Dimensional Human Hepatocyte Spheroids as a model system for antiviral drug screening
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**14.50-15.00** **Session 2: Tumor Virology**  
Chair: Marianne Jansson

<b>Haoran Yu</b>	Lund	Adenosine causes read-through into the late region of the HPV16 genome in a guanosine-dependent manner
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**15.00** Coffee Break

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**15.30-17.15** **Session 3: Viral Immunology and Vaccines**  
Chair: Kristina Eriksson

<b>Mattias Forsell</b>	Umeå	Functional consequence of atypical B cells for in vivo development of antiviral B cell responses in patients with hemorrhagic fever
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<b>Tyler Sandberg</b>	Stockholm	Human plasmablast and B cell response to vaccination with the yellow fever vaccine
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<b>Chengyu Hao</b>	Lund	Control of human papillomavirus E6/E7 oncogene expression by cellular hnRNP proteins
<b>Kim Blom</b>	Stockholm	Prospects for induction of CD8 T cell-mediated immunity to Zika virus infection by yellow fever virus vaccination
<b>Britta Wahren</b>	Stockholm	Future immunotherapy with HIV genetic vaccines in children
<b>Wessam Melik</b>	Örebro	Development of an edible TBEV vaccine
<b>Matti Sällberg</b>	Stockholm	In vivo neutralization of hepatitis B virus
<b>Marianne Jansson</b>	Lund	Enhanced viral infectivity mediated by Galectin-8 provide novel insights into evolution of HIV-1 Env glycosylation
<b>Jonas Blomberg</b>	Uppsala	Multiplex serology, ME/CFS and an antibody for everybody.

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**17.15-17.30 Technical News Flash**

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**18.30** Welcome reception, *Smögen Fishing Harbour*

**20.00** Dinner

## Friday, August 24

**07.30** Breakfast

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**09.00-09.45** **Keynote 2**  
Introduction: Clas Ahlm

<b>Dr. Kartik Chandran</b>	New York, NY	Unraveling and inhibiting the cell invasion mechanisms of emerging RNA viruses
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**09.45-11.00** **Session 4: Virus-Cell Interactions**  
Chair: Anna Överby

<b>Kariem Ezzat Ahmed</b>	Stockholm	The Viral Protein Corona Directs Viral Pathogenesis and Amyloid Nucleation
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<b>Jonas Klingström</b>	Stockholm	Hantavirus, cell death and beyond
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<b>Gisa Gerold</b>	Hannover, Germany	How hepatitis C virus high-jacks and shapes protein networks to enter human hepatocytes
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<b>Emeli Torsson</b>	Uppsala	Small ruminant morbillivirus V and C proteins inhibit the activity of the p125 interferon $\beta$ promoter and the interferon-stimulated response element
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<b>Engin Baturcam</b>	Gothenburg	MEK signaling negatively regulates viral induced interferon response through IRF-3 in primary human airway epithelial cells
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<b>Leo Hanke</b>	Stockholm	Nanobody-assisted functional and structural characterization of chikungunya virus replication
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<b>Benjamin Götte</b>	Stockholm	G3BP promotes efficient translation of alphaviral mRNAs via recruitment of 40S ribosomal subunits to the sites of viral mRNA production
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**11.00** **Poster Session** including Coffee (the floor below the main venue)

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**12.00-13.00** **Session 5: Emerging Viruses**  
Chair: Ali Mirazimi

<b>Anne-Lie Blomström</b>	Uppsala	The virome of Culex quinquefasciatus mosquitoes in Brazil
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<b>Magnus Evander</b>	Umeå	Rift Valley fever transmission - man, mosquitoes and movement
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<b>Johanna Lindahl</b>	Uppsala	Vector-borne flaviviruses and the urban epidemiology
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<b>Olivia Lwande</b>	Umeå	Vector competence of Sindbis virus in mosquitoes from northern Sweden
<b>Sofia Appelberg</b>	Stockholm	Protection Against Crimean-Congo Hemorrhagic Fever Virus Infection in Mice After Immunization with DNA Plasmids Coding for Different Viral Proteins

**13.00** Lunch & Free Activities

**15.00-15.45 First Erik Lycke Lecture**

<b>Dr. Stanley Prusiner</b>	San Francisco, CA	Discovering Therapeutics for Alzheimer's and Parkinson's
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**16.00** Coffee Break

**16.30-17.00 Session 6: Glycovirolology**

Chair: Johan Nordgren

<b>Ebba Samuelsson</b>	Gothenburg	Carbohydrate epitopes of the recombinant varicella zoster virus glycoprotein E implications for vaccine efficacy
<b>Annasara Lenman</b>	Umeå	Heparan sulfate functions as cellular receptors for short fibers of enteric human adenoviruses
<b>Kwon Yongdae</b>	Umeå	N-Glycosylation in the pre-membrane protein is essential for the life cycle of ZIKA virus

**17.00-17.20 Special Subject Address**

Introduction: Lennart Svensson

<b>Dr. Erling Norrby</b>	Stockholm	The Virocentric View of Life
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**18.30** Archipelago Cruise & Seafood buffet (see page 11)

## Saturday, August 25

**07.30** Breakfast

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**09.00-09.20** **Special Subject Address**  
Introduction: Kristina Eriksson

<b>Dr. Søren Paludan</b>	Aarhus, Denmark	Early events in antiviral defense – interferon dependent and independent mechanisms
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**09.20-09.30** **Session 7: Clinical Virology and Diagnostics**  
Chair: Simon Larsson

<b>Magnus Simonsson</b>	Uppsala	Presentation of the European Union Reference Laboratory (EURL) for foodborne viruses
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**09.30-09.50** **Session 8: Pathogenesis**  
Chair: Marta Bally

<b>Marie Hagbom</b>	Linköping	Neurotropic factors from enteric glia cells contribute to maintain the intestinal epithelial barrier during rotavirus infection
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<b>Per Eriksson</b>	Uppsala	Insights into the pathobiology and interspecies transmission of different mallard-origin low pathogenic avian influenza viruses in tufted ducks and chickens
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**09.50-10.10** **Session 9: Molecular and Structural Virology**  
Chair: Simon Larsson

<b>Elenore von Castelmur</b>	Linköping	Structural and functional repurposing of H-box 2A proteins in picornaviruses
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<b>Marta Bally</b>	Umeå	The mucin-like region of glycoprotein gC regulates the attachment, detachment and mobility of HSV-1 on cell-surface glycosaminoglycans
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**10.10** Coffee Break

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**10.40-11.20** **Session 10: Epidemiology and Evolution**  
Chair: Heléne Norder

<b>Theogene Twagirumugabe</b>	Gothenburg	Hepatitis A and E virus infections are common in Rwanda but with different epidemiological patterns
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<b>Johan Nordgren</b>	Linköping	Long term evolution of norovirus in a chronically infected immunodeficient host
<b>Yaoska Reyes</b>	Linköping	DC-SIGN and TLR3 polymorphism are associated with Chikungunya infection and Disease, respectively
<b>Anders Kvarnheden</b>	Uppsala	Geminiviruses, a global threat to crops

**11.20** 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

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 (Drottningtorget, outside Clairion Post Hotell) at about 10.20 on August 23 and from Smögen after lunch on August 25. All transfer is complimentary. The bus ride takes 1 hour 50 minutes. One bus will wait for passengers from the train from Stockholm scheduled to arrive in Gothenburg about 10.35. 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, 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