

August 25-27, 2022

Program

Arranged by Virus- och Pandemifonden –

Swedish Society for Virology

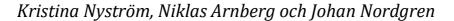
http://www.swedishvirology.se

Welcome to the 19th Smögen Symposium on Virology!

It is a pleasure for the Organizing Committee to announce that the 19th symposium will be held at Smögens Hafvsbad, Smögen, Thursday August 25 to Saturday August 27, 2022 with the possibility to participate online as well.

The scientific as well as the social agenda will be very much like previous Smögen meetings. This year we will have the pleasure to listen to, and discuss with Dr Michael Worobey, Dr Timo Vesikari, and Dr. Karen Mossman on the subjects of virus origins, vaccines, and viruses in bats.

Smögens Hafvsbad or "Hafvsbadet" is a famous spa establishment with traditions from 1903, and with a splendid view of the beautiful archipelago north-west of Smögen. Hafvsbadet 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 Hafvsbadet we have reserved excellent alternatives: Wallentinska Huset and Pensionat Bryggan, bed and breakfasts at the Smögen Harbour. We wish you all very welcome in Smögen!













Thursday, August 25

All events are at Smögens Havsbad unless otherwise stated and sessions also through zoom.

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: Jan Albert
Dr. Michael Worobey	Tucson, AZ The origins of the SARS-CoV-2 pandemic

14.30-14.50	Session 1: Epidemiology Chair: Magnus Evander		
Joel Gustafsson	Gothenburg	Genomic signatures in viruses and their hosts	
Julia Widström	Gothenburg	Complex norovirus transmission dynamics at hospital wards revealed by deep sequencing	

14.50-15.20 Coffee Break

15.20-16.00	Session 2: SARS Coronavirus-2 Chair: Tomas Bergström	
Ria Lassauniere	Copenhagen	Antigenic characterization of SARS-CoV-2
Jonas Klingström	Stockholm	SARS-CoV-2 and cell death
Francis Hopkins	Linköping	Sustained T cell perturbations after COVID-19
Melissa Govender	Linköping	Long-term alterations in monocyte and DC subtypes revealed in hospitalized COVID-19 patients

16.00-16.20	Session 3: Emerging viruses		
	Chair: Anna Överby		
Ainhoa Moliner- Morro	Stockholm	Averting chikungunya virus infection: nanobodies	
Anisha Wasberg	Uppsala	Assessing the reassortment compatibility of short and intact wild-bird Neuraminidase (N1-N9) with poultry-adapted H9N2 subtype	
16.20-16.50	Session 4: Viral Immunology and Vaccines I Chair: Anders Widell		
Linn Persson Berg	Gothenburg	Serum IgG levels to Epstein-Barr and measles viruses in patients with multiple sclerosis during natalizumab and interferon beta	
Anders Fomsgaard	Copenhagen	SARS-CoV-2-Beta DNA vaccine candidate for clinical trial	
Anna Olofsson	Stockholm	Cross-reactive SARS-CoV-2 CD4 T cell immunity in children	
16.50-17.10	Memorial Sess	ion 2022	
17.10-17.30	Technical News Flash		
18.30	Welcome Reception, Smögen Fishing Harbour		
20.00	Dinner		

Friday, August 26

07.30	Breakfast	
09.00-09.45	Keynote 2 Introduction: Le	nnart Svensson
Dr. Timo Vesikari	Tampere, Finland	Rotavirus vaccine: past, present and future
09.45-10.25	Session 5: Viral Chair: Kristina E	Immunology and Vaccines II
Magnus Johansson	Örebro	How can vaccination directly applied on mucosal membranes of the body be optimized for diffe
Nikolai Scherbak	Örebro	Production and delivery of anti-viral vaccines using probiotic bacteria
Matti Sällberg	Stockholm	Generation of new vaccines using DNA and mRNA: In-house production for research and phase 1 clinical trials
Yaoska Reyes	Linköping	Host genetic factors and rotavirus infections in a vaccinated birth cohort of Nicaragua
10.25-10.55	Coffee Br	eak
10.55-11.15	Session 6: Vi Chair: Kristin	iral Immunology and Vaccines III na Eriksson
Emil Johansso	n Lund	Hierarchical clustering and trajectory analyses reveal B-cell perturbations in HIV-2 infection independent of viremia
Davide Angele	tti Gothenburg	Computationally designed stem-epitope mimetics elicit influenza cross-group protective responses
11.15-11.35	Session 7: An Chair: Johan	ntivirals and Clinical Virology and Diagnostics Westin
Justina Zigmantaviciu	Uppsala te	Association with rs12979860 SNP and characterization of BK polyomavirus-specific antibodies in Swedish kidney transplant recipients with different viral kinetics
Josef Järhult	Uppsala	Resistance development to influenza antivirals

11.35-12.35	Session 8: Tumor Virology and Molecular and Structural Virology Chair: Gustaf Rydell	
Chengyu Hao	Lund	Control of human papilloma virus (HPV) 16 gene expression by hnRNP G/RBMX
Johanna Jönsson	Uppsala	Identification of cis-regulatory RNA elements and cellular trans-factors that control production of the spliced HPV16 E7 mRNA
Filipe Diogo	Uppsala	Uncovering functions of unique structures in a mosquito totivirus-like virus
Joshua Fingal	Gothenburg	ADAR-deamination signatures are associated with lower viral loads in influenza-infected patients
Fredy Saguti	Gothenburg	UV Inactivation of enteric viruses in drinking water
Luisa Fernanda Bustamante Jaramillo	Gothenburg	Detection of AAV2 genomes in living cells

12.35 Lunch

15.00-16.00	Cossion 11, Dat	th agonosis
15.00-16.00	Session 11: Pathogenesis Chair: Johan Nordgren	
Azadeh Reyahi	Gothenburg	A heterozygous IKBKE variant with dominant negative activity predispose to recurrent HSV2 meningitis
Arash Hellysaz	Linköping	Investigation of gut-brain cross-talk during viral gastroenteritis – Part 1: The effects on the CNS
Marie Hagbom	Linköping	Investigation of gut-brain cross-talk during viral gastroenteritis – Part 2: Nerve regulation of intestinal motility
Magdalena Neijd	Linköping	Gastrointestinal organoid model to study viral host response in immunocompromised individuals
Stefanie Willekens	Umeå	Short-term systemic and CNS effects after subcutaneous tick-borne flavivirus infection in mice
Priya Devi	Uppsala	Modulation of host cell signaling pathway by hepatitis C virus core protein in human T cell

16.00 Poster Session including Coffee

Posters the floor below the venue, short presentation of posters in the lecture hall

18.30 Archipelago Cruise & Seafood buffet or Gourmet Dinner (see page 11)

Saturday, August 28

07.30	Breakfast		
09.00-09.45	Keynote 3 Introduction: M	arianne Jansson	
Dr. Karen Mossman	Hamilton, Canada	Tackling pandemics: what we can learn from bats	
09.45-10.45	Session 12: Virus-cell Interactions Chair: Marianne Jansson		
Marie Peters	Umeå	Investigating the role of NUP153 in TBEV infection	
Vanessa Monteil	Stockholm	A diabetic milieu increases ACE2 expression and cellular susceptibility to SARS-CoV-2 infections in human kidney organoids and patient cells	
Wanda Christ	Stockholm	SARS-CoV-2 and the integrated stress response	
Stephanie Devignot	Stockholm	Low Density Lipoprotein Receptor-Related Protein 1 (LRP1) is a host factor for RNA viruses including SARS-CoV-2	
Patrik Ellström	Uppsala	Expression of glycan receptors for influenza A viruses in mallards, chickens, and tufted ducks	
Steinar Mannsverk	Uppsala	The late endosome-resident lipid Bis(monoacylglycero)phosphate enhances influenza virus membrane fusion	
10.45-11.05	Coffee Break		
11.05-11.35	Session 13: Mixed Virology Chair: Michael Kann		
Anders Bergqvist	Uppsala	Rapid typing of emergent coronavirus variants in a clinical setting	
Anna Martner	Gothenburg	Transient and durable T cell reactivity after COVID- 19	
Ola Forslund	Lund	Self-sampling within routine cervical cancer screening in Region of Skåne, Sweden	

11.35-12.15 ca Annual Meeting Swedish Society for Virology

12.15 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 renovated 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 at Havsbadet. Delegates registering for "Bed in shared room" will primarily be checked in at Makrillviken.

Useful information:

Accomodation

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 (Nils Ericson-platsen) at about 10.20 on August 25 and from Smögen after lunch on August 27. All transfer is complimentary. The bus ride takes 1 hour 50 minutes. We will schedule the buss 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 email 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. 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. The URL to the form for electronic registration is http://www.swedishvirology.se/smogen_meeting_registration.html and contains a field for Presentation Title. Instructions for abstract preparation will be sent to the presenters in late June. Please do not forget to mark the box "I am not a spam robot" of the electronic form. This is a protection measure against spam attacks interfering with the electronic registration procedure.

Registration information

Symposium information will be continuously updated at the official homepage of the Swedish Society for Virology: http://www.swedishvirology.se where you also will find an electronic form for convenient on-line registration. Those who are not on the mailing list, please notify kristina.nystrom@gu.se.

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
- C: Pensionat Bryggan
- D: Wallentinska Huset