20th Smögen Summer Symposium on Virology August 24-26, 2023 Program

Arranged by Virus- och Pandemifonden –

Swedish Society for Virology

http://www.swedishvirology.se

Welcome to the 20th Smögen Symposium on Virology!

It is a pleasure for the Organizing Committee to announce that the 20th symposium will be held at Smögens Havsbad, Smögen, Thursday August 24 to Saturday August 26, 2023 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 Emma Thomson, Dr Hugo Zeberg, Dr. Gunilla Karlsson-Hedestam, and Dr. Ralf Bartenschlager on the subjects of Adenovirus in children with hepatitis, Neandertal genetics and virology, viral immunology and Hepatitis C.

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. Hafvsbadet is a fully modern hotel with high-class cuisine, and an excellent conference facility, including an indoor swimming pool. This year we wish to acknowledge the support from LidPol AB as well. We wish you all very welcome in Smögen!



Kristina Nyström, Ali Mirazimi och Johan Nordgren





Thursday, August 24

All events are at Smögen's 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: Anders Sönnerborg
Dr. Emma Thomson	Glasgow, UK Acute hepatitis in children

14.30-15.00	Session 1: Emerging viruses I Chair: Anders Widell	
Janina Krambrich	Uppsala	Vector competence of Swedish Culex pipiens molestus for Usutu virus
Peter Norberg	Gothenburg	The Emergence of Tick-Borne Encephalitis Virus in Sweden
Magnus Simonsson	Uppsala	Surveillance of Emerging Pathogens and Antibiotic Resistances in Aquatic Ecosystems, JPI-SARA

15.00-15.30 Coffee Break

15.30-16.00	Session 2: Emerging viruses II Chair: Anders Widell	
Anne-Lie Blomström	Uppsala	Detection and characterization of zoonotic viruses in Swedish bats
Neogi Ujjwal	Stockholm	Genome-scale metabolic atlas for emerging and re- emerging viruses
Charlotta Polacek	Copenhagen	The current state of Tick-borne encephalitis virus (TBEV) in Denmark

16.00-16.20		Session 3: Clinical virology, Diagnostics and Epidemiology Chair: Peter Norberg	
Justina Zigmantaviciu	Uppsala te	Donor relevance in BK polyomavirus infection after kidney transplantation	
Naima Ali	Uppsala	BK polyomavirus variants in Kidney Transplant Recipients	
16.20-16.30	Session 4: Path Chair: Emmi Ar	0	
Vikas Sood	Stockholm	Epithelial Stromal Interaction 1 regulates RNA virus replication via modulating type I IFN signalling	

16.30-17.10	Pandemifonden and Sigvard Olofsson Award prize recipients Chair: Ali Mirazimi	
Leo Hanke	Stockholm	How to prevent the next pandemic
Ka-Wei Tang	Gothenburg	Function of Epstein-Barr virus non-coding RNA
Annasara	Umeå	Hyaluronan in COVID-19 morbidity, a bedside-to-
Lenman		bench approach to understand mechanisms and
		long-term consequences of hyaluronan
Mahmoud	Uppsala	Avian influenza virus: evolutionary trajectories and
Maguib		host response at single-cell level

17.10-17.20 1	echnical Ne	ews Flash
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18.30 Welcome Reception, *Smögen Fishing Harbour*

20.00 Dinner

Friday, August 25

07.30	Breakfast	
09.00-09.45	Keynote 2 Introduction: Jar	n Albert
Dr. Gunilla Karlsson- Hedestam	Stockholm	Acquisition of SARS-CoV-2 neutralization breadth through B cell somatic hypermutation
09.45-10.35	Session 5: Viral I Chair: Marianne	mmunology and Vaccines I Jansson
Ebba Samuelsson	Gothenburg	Importance of glycosylation for the protective and immunostimulatory capacities of a recombinant vaccine candidate against HSV-2
Anna Offersgaard	Copenhagen	An inactivated SARS-CoV-2 vaccine based on a Vero cell culture-adapted high-titer variant is immunogenic in small animals
Ria Lassouniere	Copenhagen	Pinning down the elusive protective influenza M2e antibodies
Laura Reusch	Gothenburg	Effect of pre-existing memory B cells and antibodies on memory responses and reshaping immunodominance patterns to influenza A virus
Danica Fae Besavilla	Gothenburg	Monoclonal antibodies to Influenza A Neuraminidase affect its enzymatic properties
10.35-11.05	Coffee Bre	eak
11.05-11.45	Session 6: Vi Chair: Magnu	ral Immunology and Vaccines II Is Johansson
Nimitha Rose Mathew	Gothenburg	CD4 tissue resident memory T cells: Understanding the role of the gate keepers
Rita Jaafar	Örebro	Development of Live attenuated Langat virus infectious clone as potential new TBEV vaccine candidate: Study of cellular and humoral immune response in mice
Md Abdul Alin	n Örebro	Tick-borne encephalitis virus protein expression to develop novel subunit vaccines and diagnostic tools
Britta Wahren	Stockholm	Therapeutic HIV-1 vaccines for HIV-1 infected children, update from the RV534 study

Janarthan Rama	Gothenburg	Rapid Prototyping of Influenza A Epitope
Murti		Mutants: A Synthetic Virology Approach

11.45-12.35	Session 7: Mole Chair: Ka-Wei T	ecular Virology and Tumor Virology ang
Tina Dalianis	Stockholm	Studies on single and combined targeted therapies with/without radiotherapy or chemotherapy on human papillomavirus positive and negative tonsillar and base of tongue squamous cell lines with/without PIK3CA and FGFR mutations
Christina Holmboe Olesen	Copenhagen	Insertions in hepatitis C virus hypervariable region 1 as a novel antibody evasion mechanism
Lars-Anders Carlson	Umeå	Architecture of the chikungunya virus replication organelle
Troels Scheel	Copenhagen	Hepatitis C virus RNA is 5' capped with flavin adenine dinucleotide (FAD)
Kasturika Shankar	Umeå	Reconstitution of the membrane binding and RNA recruitment of the Enteroviral helicase 2C

12.35 Lunch

14.00-14.45	Keynote 3	
	Introduction: Ma	atti Sällberg
Dr. Ralf	Heidelberg,	New insights into flavivirus – host cell interactions:
Bartenschlager	Germany	a tale of proteins and lipids

14.45-16.00	Session 8: Virus Chair: Anna Öve	-Cell Interactions erby
Marie Berit Akpiroro Peters	Umeå	Investigating the role of nucleoporins (NUPs) in flavivirus infection
Kerstin Seier	Umeå	Characterization of the Physicochemical Properties of Fluorescent Filovirus Pseudotypes

Lifeng Liu	Umeå	Recruitment of apolipoprotein E facilitates Herpes simplex virus 1 attachment, entry, and release
Jan Schlegel	Stockholm	A Multiparametric and High-Throughput Platform for Host-Virus Binding Screens
Anoop Ambikan	Stockholm	scRNA-seq analysis identifies immuno-metabolic impairment of monocytes in people living with HIV on long term treatment
Malgorzata Graul	Umeå	Comparison of entry efficiency of different species of Filoviridae-derived VLP
Vanessa Monteill	Stockholm	Identification of an essential endosomal trafficking regulator in Marburg and Ebola virus infections

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 26

07.30	Breakfast	
09.00-09.45	Keynote 4 Introduction: Le	nnart Svensson
Dr. Hugo Zeberg	Stockholm	Ancient DNA, Neandertals, and how modern humans entered viral times
09.45-10.25	Session 9: SARS-CoV-2 and Influenza Chair: Magnus Evander	
Matti Sällberg	Stockholm	Phase I clinical trial of a COVID-19 DNA vaccine
Clas Ahlm	Umeå	Intravenous immunoglobulin against COVID-19 in immunosuppressed patients - a new option for treatment
Charlotta Nilsson	Stockholm	SARS-CoV-2 seroprevalence in Sweden 2020 to 2023
Marie Hagbom	Linköping	Human Nose Organoids (HNOs): A novel model to study human influenza virus infection and zoonotic risk of avian flu

10.25-10.55 Coffee Break

10.55-11.15	Session 10: Antivirals		
	Chair: Martin Lagging		
Karen Anbro	Copenhagen	Determinants of HCV resistance to clinically relevant	
Gammeltoft		NS5A inhibitors	
Adelinn	Stockholm	Multi-layered phenotypic screening to identify	
Kalman		antivirals and host protein targets	

11.15-11.25	Session 11: BSL3 Network		
	Chair: Niklas Arnberg		
Marianna	Stockholm	The Swedish BSL3 Network - enabling cutting-edge	
Tampere		virology research on risk-group 3 viruses	

11.25-12.15 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: Smögen's 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



same overwhelming view of the Skagerrak archipelago as experienced by the first summer guests of Smögen's 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:

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 at about 10.20 on August 24 and from Smögen after lunch on August 26. 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 Soten during an evening cruise in the Smögen Archipegalo



Welcome aboard Soten for a traditional Smögen Seafood Buffet including shrimp, crayfish and a lot of other sea food specialities. This years cruise will be onboard "Soten". Soten was built in 1969, where she started trafficking Oslo to Flåm, Norway.

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 Samuelsson
- C: Extra location for Welcome Reception Thursday Spelmansskär