XVIth INTERNATIONAL NIDOVIRUS SYMPOSIUM

Congress office Management
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Registration via
www.nido2023.com

Abstract book link
https://www.meeting-com.ch/fileadmin/user_upload/programme_pdf/Divers_2023/BOOK_OF_ABSTRACTS_NIDO2023.pdf

WELCOME WORD

Dear colleagues and friends,

We are pleased to announce that registration and abstract submission is now open for the XVIth International Nidovirus Symposium, which will take place from May 14-18, 2023, in Montreux, Switzerland.

Over the past 40 years, the Nidovirus Symposium has evolved into a triennial event covering all aspects of nidoviruses and nidovirology. This eclectic group of viruses are found in humans and animals and include pathogens such as SARS-CoV-2, zoonotic SARS- and MERS-coronaviruses, common cold viruses, and many other economically and highly relevant livestock viruses.

This meeting will provide the opportunity for researchers from across the world to share their latest discoveries and scientific results and exchange ideas face to face. The meeting will take place between the 14th and 18th May 2023 with the stunning backdrop of Lake Geneva at the Montreux, Music and Convention Centre (2m2c), Switzerland.

We have an excellent scientific program planned that includes many international experts in the field of Nidovirology, including keynote talks from Mike Ryan (WHO, Switzerland), Christian Drosten (Charité, Germany), and Ralph Baric (University of North Carolina at Chapel Hill, USA). Other confirmed speakers include Edward Holmes, Lisa Gralinski, Stanley Perlman, Linda Saif, Elizabeth Campbell, Vincent Munster, Shane Crotty, and many more respected colleagues.

We are happy to share that Vincent Racaniello will be onsite to broadcast an episode of TWIV from the Symposium. Furthermore, we are pleased to announce that Virus Research will publish a Nidovirus Special Issue and waive the APC fees for papers submitted to this issue for attendees of the Symposium.

After the last online meeting in 2021, we are excited to have an in-person meeting again and are looking forward to welcoming you here in Switzerland!

Also, please check our website for all the details: www.nido2023.com

We are looking forward to welcoming you soon in Montreux.

Best wishes,

Volker Thiel & Isabella Eckerle & Ronald Dijkman

University of Bern, Institute of Virology and Immunology (IVI)
University of Geneva, Centre for Emerging Viral Diseases
University of Bern, Institute for Infectious Diseases (IFIK)

SCIENTIFIC COMMITTEE

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Ronald Dijkman, University of Bern

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Susan Weiss, University of Pennsylvania, USA
David Wentworth, CDC, Atlanta, USA
John Ziebuhr, University of Giessen, Germany

GENERAL INFORMATION

Registration

Congress office management : meeting.com congress organisation
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Fees

Early bird fee (deadline February 28, 2023)

Participant	CHF 825.–
Graduate Student	CHF 725.–

Late fee (starting from March 1, 2023)

Participant	CHF 950.–
Graduate Student	CHF 850.–

Onsite (from May 14, 2023 to May 18, 2023)

Participant	CHF 1100.–
Graduate Student	CHF 900.–

Social Program 16.05.2023 afternoon (fully booked)

Excursion 1 (visit of the Chocolaterie Cailler, in Broc)	CHF 85.– (TTC)
Excursion 3 (visit of Pringy and Gruyères)	CHF 85.– (TTC)
Excursion 4 (wine testing)	CHF 85.– (TTC)

Networking Dinner 17.05.2023 (fully booked)

Dinner	CHF 80.– (TTC)

Abstract submission

The submission of abstract is handled by the congress office management, as above. Abstracts must be submitted online on https://nido2023.exordo.com/ until February 28, 2023.

Abstract book

The book of abstract will not be printed, and will be available online on a QR code.

GENERAL INFORMATION

Venue

2m2c Montreux Music & Convention Centre
Avenue Claude Nobs 5
CH-1820 Montreux, Switzerland

Hotels accommodation

- Eurotel ****
- Montreux Youth Hostel
- Bon Port Hotel ***
- Bon Rivage Hotel ***
- J5 Hotels Helvetie & La Brasserie ***
- La Rouvenaz (Hotel) ***
- Les Negociants Hotel & Restaurant ***
- Tralala Hotel ***
- Villa Toscane Hotel ***
- Astra Vevey Hotel & Restaurant ****
- Grand Hotel Suisse Majestic ****
- Hotel Eden Palace au Lac ****

Other accommodation possibilities are offered at the Montreux Riviera on the website of Montreux Tourist Office.

Travel directions

FROM ZURICH AIRPORT TO MONTREUX
Take the train heading to Lausanne and change for another one heading to Montreux. The travel time is around 3 hours.

FROM GENEVA AIRPORT TO MONTREUX
Take the train heading to Montreux. The travel time is around 1 h 30 min.

FROM MONTREUX TRAIN STATION TO 2M2C
Just walk 8 min to reach the 2m2c.

BY CAR
If you are staying at the Eurotel you can park your car there. Other parking possibilities are at the parking du palace located just next to the 2m2c.

GENERAL INFORMATION

Social program

WELCOME APERO – Sunday, 14th May 2023

We are pleased to welcome you in Montreux, Switzerland, on Sunday, 14th May 2023 with wine from the region.

EXCURSIONS – Tuesday, 16th May 2023

An amazing and relaxing afternoon, discovering several attractions in the French-speaking region of Switzerland, is waiting for you.
Transport will be organized specially for you from the Montreux Music & Convention Center at 14 h 00. You will be arriving back at the end of the afternoon.
Excursions are to be booked when registering for the congress (first come, first served).

- **La Chocolaterie Cailler:** Visit the factory of the oldest Swiss chocolate brand and Charmey, a typical small village where you can taste meringue & crème double de la Gruyère.
- **Wine degustation in Lavaux:** Visit this UNESCO world heritage site, distinctive for the kilometers of terraced vineyards. Here you will get the possibility to taste four wines accompanied by small appetizers.
- **La Maison du Gruyère:** Guided tour of the Gruyère cheese dairy and tasting of three different maturations of their AOP cheese. Followed by a visit of the charming Gruyères village, where you will taste meringue and crème double de la Gruyère.

If you wish to discover Montreux and its region by yourself, please check the website of Montreux Tourist Office offering a large choice of other interesting attractions in the region.

NETWORKING DINNER – Wednesday, 17th May 2023

We are looking forward seeing you at the Networking dinner on wednesday, 17th May, registration is mandatory.

SCIENTIFIC PROGRAM

SUNDAY, MAY 14th, 2023

15.00	Registration	foyer
17.00-17.15	**Welcome Address**	**PLENARY ROOM**
17.15-18.45	**Keynote lecture supported by ROCKETVAX** Chair : Isabella Eckerle, University of Geneva (CH)	**PLENARY ROOM**
17.15-18.00	**SARS-CoV-2 and beyond: the WHO perspective** Mike Ryan, Executive Director, WHO Health Emergencies Programme, Geneva (CH)	
18.00-18.45	**Communicating science in times of crisis** Christian Drosten, Institute of Virology, Charité, Berlin (DE)	
18.45-21.00	Get together	**EXHIBITION**

ROCKETVAX

MONDAY, MAY 15th, 2023

07.30	Registration	FOYER
08.30-10.00	**SESSION** **GENETIC DIVERSITY AND EVOLUTION** Chairs: Leo Poon, University of Hong Kong (CN); Alexander Gorbalenya, Leiden University Medical Centre (NL)	PLENARY ROOM
08.30-08.55	**The ancient origin and recent emergence of nidoviruses** Edward Holmes, University of Sydney (AU)	
08.55-09.20	**Realising the Promise: Sequencing & Surveillance Today & Tomorrow** Emma Hodcroft, Bern (CH)	
09.20-09.35 S-01	**Doubling the known macrodiversity in the Nidosphere and discovering a 54 kilobase RNA virus genome, bi- and tri-segmented nidovirus genomes and new modes of replicase expression** – Chris Lauber, Hannover (DE)	
09.35-09.50 S-02	**Discontinuous transcription in the Nidosphere: metagenomic insight** – Benjamin Neuman, Texas (US)	
09.50-09.55 PF/P-01	**Recurrent viral acquisition of a host-derived immune antagonist** – Stephen Goldstein, Utah (US)	
09.55-10.00 PF/P-02*	**Exploring the RNA methylation diversity in nidoviruses** – Bhawna Sama, Marseille (FR)	
10.00-10.30	**Coffee break**	EXHIBITION

* Student paper

MONDAY, MAY 15th, 2023

10.30-12.15	**SESSION** **EPIDEMIOLOGY AND SURVEILLANCE** Chairs: David Wentworth, CDC Atlanta(US); Nadine Ebert, University of Bern (CH)	PLENARY ROOM
10.30-10.55	**SARS-CoV-2 and emerging coronaviruses: Interspecies transmission, tissue tropisms and threats to animals and humans** Linda Saif, Ohio State University, Wooster (US)	
10.55-11.20	**Large scale genome analysis reveals fundamental characteristics of bat SARS-related coronaviruses** Zhengli Shi, Wuhan (CN)	
11.20-11.35 S-03	**Host Range, Transmissibility and Antigenicity of a Pangolin Coronavirus** – Nicholas Catanzano, Chapel Hill (US)	
11.35-11.50 S-04	**Illuminating Nidovirales through ultra-massive sequence analysis** – Artem Babaian, Toronto (CA)	
11.50-12.05 S 05	**The molecular epidemiology of multiple zoonotic origins of SARS-CoV-2** – Joel Wertheim, San Diego (US)	
12.05-12.10 PF/P 03*	**Long-term follow-up of a SARS-CoV sister-clade circulating in a Rhinolophus bats' colony highlights evolutionary drivers and dynamics of sarbecoviruses** – Daphné de Riols de Fonclare, Caen (FR)	
12.10-12.15 PF/P 04*	**A Multi-species approach to in vivo characterize SARS-CoV-2 VOC Alpha, Delta and Omicron subvariant fitness advantages** – Nico joel Halwe, Greifswald-Insel Riems (DE)	
12.15-13.30	**Lunch break**	EXHIBITION

* Student paper

MONDAY, MAY 15th, 2023

13.30-15.00	**SESSION** **VIRUS ENTRY** Chairs: Jason McLellan, University of Texas, Austin (US); Gary Whittaker, Cornell (US)	**PLENARY ROOM**
13.30-13.55	**Evolution of Coronavirus Entry** Thomas Gallagher, Chicago (US)	
13.55-14.20	**Simian arteriviruses: a zoonotic threat?** Cody Warren, Ohio State University, Columbus (US)	
14.20-14.35 S 06	**Sialoglycan binding triggers spike opening in a human coronavirus** – Daniel Hurdiss, Utrecht (NL)	
14.35-14.50 S 07	**Unlocking the secrets of coronavirus spike proteins using neutralizing antibodies** – Berend-Jan Bosch, Utrecht (NL)	
14.50-14.55 PF/P 05	**Understanding the mechanisms of IFITM resistance and sensitivity of SARS-CoV-2 variants** – Helena Winstone, London (GB)	
14.55-15.00 PF/P 06	**Using precision editing tools and novel pig stem cell technology to generate PRRSV- resistant pigs** – Sarah Fletcher, Edinburgh (GB)	
15.00-15.30	**Coffee break**	**EXHIBITION**

MONDAY, MAY 15th, 2023

15.30-17.00	**SESSION** **VIRAL REPLICATION** Chairs: Stephanie Pfaender, Ruhr University Bochum (DE); Bruno Canard, Marseille (FR)	**PLENARY ROOM**
15.30-15.55	**Alphacoronavirus RNA structural elements** John Ziebuhr, University of Giessen (DE)	
15.55-16.20	**The structural basis of transcription and replication in SARS-CoV-2** Elisabeth Campbell, Rockefeller University, New York (US)	
16.20-16.35 S 08*	**Structural and biochemical insights into the enzymatic plasticity of the SARS-CoV-2 NiRAN domain** – Gabriel Small, New York (US)	
16.35-16.50 S 09	**Atomistic model of the coronavirus nsp3/nsp4 dimembrane vesicle pore** – Jason Perry, Gilead Sciences (US)	
16.50-16.55 PF/P 07	**The SARS-CoV-2 Omicron subvariants are undergoing spike-independent evolution to enhance viral RNA replication** – Taha Taha, San Francisco (US)	
16.55-17.00 PF/P 08	**MOV10 helicase interacts with coronavirus nucleocapsid protein and has antiviral activity** – Sonia Zuñiga (ES)	
17.00-19.00	**POSTER SESSION I**	**POSTER AREA**
19.00	**End of the day**	

* Student paper

TUESDAY, MAY 16th, 2023

07.30 Registration **FOYER**

08.30-10.00 **SESSION** **PLENARY ROOM**
VIRUS-HOST INTERACTION I
Chairs: Marjolein Kikkert, Leiden University Medical Centre (NL); Jenna Kelly, University of Bern (CH)

08.30-08.55 S 10* **The nsp15 paradox: how an RNA virus gets along with an endoribonuclease**
Monika Evdokimova, Chicago (US)

08.55-09.20 **Infection of primary nasal epithelial cells differentiates among human coronaviruses**
Susan Weiss, University of Pennsylvania, Phidalephia (US)

09.20-09.35 S 11 **Visualising the interplay between SARS-CoV-2 and the cellular hypoxic response using cryo-soft X-ray tomography** – Peter Wing, Oxford (GB)

09.35-09.50 S 12 **Nonstructural protein 1 of arteriviruses downregulates promyelocytic leukemia protein expression and promotes viral replication** – Dongwan Yoo, Urbana-Champaign (US)

09.50-09.55 PF/P 09 **Deciphering the function of NSP1 ribosome binding during SARS-CoV-2 infection** – Silvio Steiner, Bern (CH)

09.55-10.00 PF/P 10* **Correlative cryo-bioimaging to study coronavirus replication organelles** – Patrick Phillips, The Pirbright Institute (GB)

10.00-10.30 **Coffee break** **EXHIBITION**

* Student paper

TUESDAY, MAY 16th, 2023

10.30-11.15 **KEYNOTE** **PLENARY ROOM**
Chair: Vineet Menachery, University of Texas Medical Branch, Galveston (US)

Genetics of acute and chronic COVID19 Pathogenesis
Ralph Baric, University of North Carolina, Chapel Hill (US)

11.15-12.45 **TWIV supported by UK International Coronavirus Network** **PLENARY ROOM**

Vincent Racaniello, Columbia University, New York (US)
Maria van Kerkhove, World Health Organization, Geneva (CH)
Kanta Subbarao, Melbourne (AU)

12.45-13.30 **Lunch break** **EXHIBITION**

14.00-18.00 **SOCIAL PROGRAM**
Excursions

WEDNESDAY, MAY 17th, 2023

07.30	Registration	FOYER
08.30-10.00	**SESSION** **VIRUS-HOST INTERACTION II** Chairs: Manel Essaidi-Laziosi, University of Geneva (CH); John Ziebuhr, University of Giessen (DE)	PLENARY ROOM
08.30-08.55	**Complement signaling mediates acute and chronic coronavirus-induced lung injury** Lisa Gralinski, University of North Carolina, Chapel Hill (US)	
08.55-09.20	**CoV macrodomain vs PARPs: The impact of ADP-ribosylation on viral replication and IFN antagonism** Srivatsan Parthasarathy, Lawrence (US)	
09.20-09.35 S 13	**Coronavirus cross-species transmission at the interface of camels and humans** – Annika Kratzel, Bern (CH)	
09.35-09.50 S 14*	**Bat SARS2-like viruses have enhanced evasion of human IFN-mediated restriction but lack transmission capacity** – Mario Pena-Hernandez, Yale (US)	
09.50-09.55 PF/P 11	**Impact of MERS coronavirus accessory open reading frame 4b mutations on innate immune responses in culture models of the human airways and lung** – Daniela Niemeyer, Berlin (DE)	
09.55-10.00 PF/P 12*	**Betacoronaviruses Limit Immune Detection By Balancing Antagonism of Innate Immune Responses and ER Stress Responses** – David Renner, Philadelphia (US)	
10.00-10.30	**Coffee break**	EXHIBITION

* Student paper

WEDNESDAY, MAY 17th, 2023

10.30-12.05	**SESSION** **PATHOGENESIS** Chairs: Bart Haagmans, Erasmus Medical Centre, Rotterdam (NL); Neeltje van Doremalen, Rocky Mountain Laboratories, NIAID/NIH (US)	PLENARY ROOM
10.30-10.55	**Pathogenesis of Neuro PASC in mice** Stanley Perlman, University of Iowa, Iowa City (US)	
10.55-11.20	**Contribution of host miRNA-223-3p to SARS-CoV-induced lung inflammatory pathology** Isabel Sola, Spanish National Research Council, Madrid (ES)	
11.20-11.35 S 15	**A recurrent nsp6 L232F mutation in human MERS-CoV from multiple zoonotic transmissions enhances viral replication efficiency and viral loads in upper human respiratory tracts** – Ray So, Hong Kong (HK)	
11.35-11.50 S 16	**Feline coronavirus-1 and feline infectious peritonitis: moving beyond the FECV-FIPV paradigm** – Gary Whittaker, Cornell (US)	
11.50-11.55 PF/P13	**Phenotypic and functional characterization of Betacoronavirus Internal protein in relation to virulence** – Lok Yin Roy Wong, Iowa (US)	
11.55-12.00 PF/P 14	**Spike and nsp6 are key determinants of SARS-CoV-2 Omicron BA.1 attenuation** – Mohsan Saeed, Boston (US)	
12.00-12.05 PF/P 15	**Human ACE2 expression, a species and cellular tropism factor for SARS-CoV-2, is determined by upstream and intragenic elements** – Alexandra Schäfer, Chapel Hill (US)	
12.05-13.30	**Lunch break**	EXHIBITION

WEDNESDAY, MAY 17th, 2023

13.30-15.00	**SESSION** **IMMUNE RESPONSE TO VIRUS INFECTION** Chairs: Benjamin Meyer, University of Geneva (CH); Susan Weiss, University of Pennsylvania, Philadelphia (US)	**PLENARY ROOM**
13.30-14.00	**Understanding adaptive immunity and immune memory to SARS-CoV-2 infection and COVID-19 vaccines** Shane Crotty, University of California San Diego, La Jolla (US)	
14.00-14.25	**Potent neutralizing antibodies from COVID-19 patients define multiple targets of vulnerability** Marit Van Gils, Amsterdam UMC (NL)	
14.25-14.40 PF/P 16	**Antigenic cartography of emerging SARS-CoV-2 Omicron variants BM.1.1.1, BQ.1.1 and XBB.1** – Anna Mykytyn, Rotterdam (NL) (given as short talk)	
14.40-14.55 S 18*	**Antiviral interferon responses are critical for control of human coronavirus infection in the nasal epithelium** – Clayton Otter, Philadelphia (US)	
14.55-15.00 PF/P 17*	**Non-pathogenic variation in mitochondrial DNA modulates murine SARS-CoV-2 pathogenesis** – Yentli E. Soto Albrecht, Pennsylvania (US)	
15.00-15.30	**Coffee break**	**EXHIBITION**

* Student paper

WEDNESDAY, MAY 17th, 2023

15.30-17.00	**SESSION** **VIRUS TRANSMISSION AND VACCINES** Chairs: Bin Zhou, CDC Atlanta (US); Stanley Perlman, University of Iowa, Iowa City (US)	**PLENARY ROOM**
15.30-15.55	**Transmission of emerging coronaviruses, Pathway towards the development of transmission blocking countermeasures** Vincent Munster, National Institute of Health, Bethesda (US)	
15.55-16.20	**SARS-CoV-2 and the human animal interface** Marion Koopmans, Rotterdam (NL)	
16.20-16.35 S 19	**A single-administration Therapeutic Interfering Particle (TIP) reduces SARS-CoV-2 viral shedding & pathogenesis in hamsters** – Sonali Chaturvedi, San Francisco (US)	
16.35-16.50 S 20	**Intranasal ChAdOx1 nCoV-19/AZD1222 vaccination reduces viral shedding after SARS-CoV-2 D614G challenge in preclinical models** – Neeltje van Doremalen, Hamilton (US)	
16.50-16.55 PF/P 18	**SARS-CoV-2 mucosal antibody responses to vaccination and infection** – Olha Puhach, Geneva (CH)	
16.55-17.00 PF/P 19	**Exploring the utility of the coronavirus spike S2 subunit as a vaccine antigen to elicit broad protection among sarbecoviruses** – Peter Halfmann, Madison (US)	
17.00-19.00	**POSTER SESSION II**	**POSTER AREA**
19.00-23.59	**Aperitif & Networking Dinner**	**EXHIBITION AREA**

THURSDAY, MAY 18th, 2023

07.30	Registration	FOYER
08.30-10.00	**SESSION** **VACCINES** Chairs: Helena Maier, Pirbright (GB); Olha Puhach, University of Geneva (CH)	PLENARY ROOM
08.30-08.55	**Development of Coronavirus Spike S2 Vaccine Antigens** Jason McLellan, University of Texas, Austin (US)	
08.55-09.20	**Lost in translation: live-attenuated SARS-CoV-2 vaccines by genome recoding** Volker Thiel, Bern (CH)	
09.20-09.35 S 21*	**FcR mediated pan-sarbecovirus protection after alphavirus vector vaccination** – Lily E. Adams, Chapel Hill (US)	
09.35-09.50 S 22	**Correlates of protection against MERS-CoV in mice immunized with an S-protein encoding measles-based vaccine candidate** – Aileen Ebenig, Paul-Ehrlich-Institut (DE)	
09.50-09.55 PF/P 20	**Poxvirus MVA-based vaccine candidates expressing the SARS-CoV-2 S protein induce potent humoral and T cellular immune responses and full efficacy against SARS-CoV-2 infection in several animal models** – Juan García-Arriaza, Madrid (ES)	
09.55-10.00 PF/P 21	**A recombination-resistant PEDV genome for the development of live attenuated vaccines by targeting the transcriptional regulatory sequences** – Qiuhong Wang, Ohio (US)	
10.00-10.30	**Coffee break**	EXHIBITION

* Student paper

THURSDAY, MAY 18th, 2023

10.30-12.00	**SESSION** **ANTIVIRALS** Chairs: Eric Snijder, Leiden University Medical Centre (NL); Meriem Bekliz, University of Geneva (CH)	PLENARY ROOM
10.30-10.55	**Should we kill or corrupt the SARS-CoV-2 RNA synthesis/ editing machine?** Bruno Canard, Marseille (FR)	
10.55-11.20	**Targeting the coronavirus replicase for antivirals: opportunities and challenges** Mark Denison, Vanderbilt Institute of Chemical Biology, Nashville (US)	
11.20-11.35 S 23	**Avidity engineering of human heavy-chain-only antibodies mitigates neutralization resistance of SARS-CoV-2 variants** – Wenjuan Du, Utrecht (NL)	
11.35-11.50 S 24	**A MERS Antibody Neutralizes a Pre-emerging Group 2c Bat Coronavirus that Infects Human Airway Cells** – Victor Tse, Saint-Louis (US)	
11.50-11.55 PF/P 22	**A non-excisable nucleotide analogue active against SARS-CoV-2** – Ashleigh Shannon, Marseille (FR)	
11.55-12.00 PF/P 23*	**Discovery and characterization of a protective, pan-coronavirus S2-binding antibody** – Nicole Johnson, Austin (US)	
12.00-12.45	**KEYNOTE** **lecture supported by BATAVIA biosciences** Chair: Ronald Dijkman, University of Bern (CH)	PLENARY ROOM
	The implications of SARS-CoV-2 virus evolution on vaccines Kanta Subbarao, WHO Collaborating Centre for Reference and Research on Influenza, Melbourne (AU)	
12.45-13.00	**Meeting Summary and Farewell**	PLENARY ROOM
13.00	**End of the Symposium**	

* Student paper

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The meeting organizers would like to thank our partners and sponsors for their financial support of Nido2023.