

## Venues and sponsors

### Venues

#### Symposium

Campus Biotech  
Chemin des Mines 9, 1202 Geneva  
Acces: Bus n° 1, 11, 25, 28, Stop: Jardin Botanique

#### Dinner

Restaurant Vieux-Bois  
Avenue de la Paix 12, 1202 Geneva

#### Social event

International Red Cross Museum  
Avenue de la Paix 17, 1202 Geneva

### Sponsors

Gold sponsor



Silver sponsors

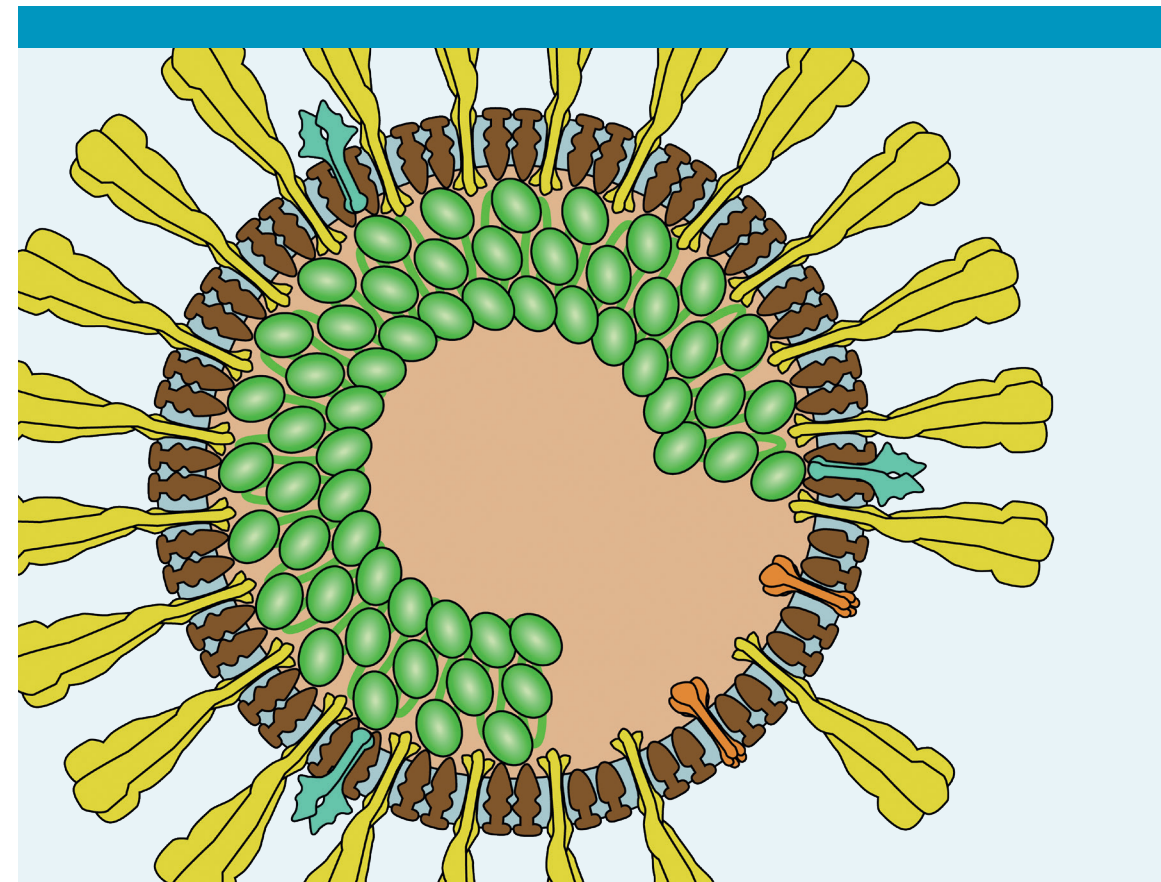


Bronze sponsors



## UNDERSTANDING EMERGING VIRAL DISEASES AND THEIR PUBLIC HEALTH IMPACT

2nd Symposium Geneva Centre for Emerging Viral Diseases  
April 10-12, 2019, Campus Biotech, Geneva, Switzerland



# Practical information

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## Registration procedures

Online registration:

➤ [www.unige.ch/emerging-virus-symposium/registration](http://www.unige.ch/emerging-virus-symposium/registration)

Please register by April 8, 2019

Please note that the number of participants will be limited to a maximum of 300.

Registrations on site are possible only if the limit of 300 is not reached

## Registration fees

CHF 380.- Regular participants

CHF 200.- Students, HUG and UNIGE/faculty members

CHF 500.- Industry

Included in the registration fee: admission to sessions, symposium badge, conference material, coffee breaks, lunch, social event (Tour of the International Red Cross Museum & apero), certificate of participation, but excl. dinner, accommodation and travel.

## Credits

This symposium is recognised by Conference Vetting System

20 CME Swiss Society for Infectious Diseases

We will post more information about the points on our website.

## Administration

Mrs Berivan Mutlu & Mrs Martine Moreillon

EmergingVirus.Geneva@hcuge.ch, ☎ +41 22 372 98 00

## Organisers

Prof. Laurent Kaiser & Prof. Isabella Eckerle

Geneva Centre for Emerging Viral Diseases

Division of Infectious Diseases and Laboratory of Virology

Faculty of Medicine University of Geneva and Geneva

University Hospitals, Switzerland

## More information

➤ [www.unige.ch/emerging-virus-symposium](http://www.unige.ch/emerging-virus-symposium)



## Welcome

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Dear colleagues,

We are delighted to welcome you to the 2nd Symposium „Understanding Emerging Viral Diseases and their Public Health Impact“, hosted by the Geneva Centre for Emerging Viral Diseases.

Within a short time frame, research on emerging viruses has changed from a small, rather exotic niche within the virology field to a topic of major public health interest, also raising tremendous attention in the community and in the public. The Geneva Centre for Emerging Viral Diseases is dedicated to serve at the interface between fundamental research, translational, clinical and diagnostic virology with a close connection to public & global health – and this is also the mission that we want to reflected in our symposium.

The recent outbreaks of Zika and Ebola have proven once more that we are not prepared, and our talks are dedicated to the important, and sometimes controversial issue in the field of emerging viruses: What can we learn from past and current outbreaks to prepare ourselves for the future? Can we prevent the next emerging viral outbreak? Are we prepared? Or can we even predict it?

In 11 sessions, evening-, award- and keynote-lectures and with a total of 32 speakers from more than 12 countries, we aim to cover the complete picture, and the challenges that we face. Our program is enriched with the medical perspective and the experience from people working in the field: clinical cases, real-life scenarios, lessons from the field, but also specific basic research findings on emerging viruses of high interest, all delivered by international top experts in the field.

We thank you for coming to Geneva, and we also thank our supporters and sponsors to make this exciting symposium possible.

We hope that you will get the best experience you possibly can from this symposium: meet colleagues, get inspired, stimulate exchange and collaborations, and enjoy the first days of spring in our cosmopolitan city located at the beautiful Lac Léman.

Welcome, and enjoy!

Isabella Eckerle & Laurent Kaiser



# Program

## **Wednesday April 10, 2019**

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**11.30 Registration**

**12.30 Introduction**

Laurent Kaiser, Head of Division of Infectious Diseases, Faculty of Medicine University of Geneva and Geneva University Hospitals, Switzerland  
Henri Bounameaux, Dean of the Faculty of Medicine, University of Geneva, Switzerland

### **Session I: Arbovirus Emergence in Europe**

*Chairs: Shindo Nahoko (World Health Organization)*

*Pascal Cherpillod (Geneva University Hospitals)*

**12.45 A Case of Autochthonous CCHF Transmission in Spain**

Jose Arribas, Hospital Universitario La Paz, Madrid, Spain

**12.55 CCHF in Europe – Lessons from Turkey**

Tom Fletcher, Liverpool School of Tropical Medicine, Liverpool, UK

**13.20 Mayaro, Usutu, West Nile – the Next Emerging Arbovirus?**

Jonas Schmidt-Chanasit, Bernhard-Nocht-Institute Hamburg, Germany

**13.45 Discussion**

**14.00 Coffee Break**

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**Session II: Yellow Fever Virus – Old Virus, New Challenges**

*Chairs: François Chappuis (Faculty of Medicine University of Geneva and Geneva University Hospitals, Switzerland)  
Amadou Sall (Institute Pasteur Dakar)*

- 14.25 A Case of Imported Yellow Fever in Switzerland**  
Annelies Zinkernagel, University Hospital Zurich, Switzerland
- 14.35 Severe Yellow Fever – Clinical Experience from Brazil**  
Ho Yeh Li, University of São Paulo, Brazil
- 15.00 Epidemiology & Ecology of the YFV Outbreak – why now?**  
Jan Felix Drexler, Charité Berlin, Germany
- 15.25 Discussion**
- 15.40 Mini-Break**

**Evening Lectures**

- 16.00 Welcome Note**  
Isabella Eckerle, Geneva Centre for Emerging Viral Diseases, Faculty of Medicine University of Geneva and Geneva University Hospitals, Switzerland  
Bertrand Levrat, General Director, Geneva University Hospitals, Switzerland
- 16.15 Snakebite: From Research to Public Health Interventions**  
François Chappuis, Faculty of Medicine University of Geneva and Geneva University Hospitals, Switzerland
- 16.45 Crisis Management in Emergency Situations**  
Esperanza Martinez, International Committee of the Red Cross, Geneva, Switzerland

**Social Program**

- 18.00 Guided Tour of the International Red Cross Museum & Aperó**

# Program

## Thursday April 11, 2019

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### Session I: Vaccines for Emerging Viruses – the Long and Winding Road to Protection

Chairs: *Olivia Keiser (Institute of Global Health Geneva)*  
*Ana Rita Gonçalves Cabecinhas (Geneva University Hospitals)*

#### 08.30 The Ups and Downs of Dengue Vaccination

Annelies Wilder-Smith, Initiative for Vaccine Research, WHO, Geneva, Switzerland

#### 08.55 Evolutionary Dynamics of Influenza Viruses

Colin Russell, Academic Medical Center of the University of Amsterdam, The Netherlands

#### 09.20 Discussion

### Session II: Novel Approaches to Tackle Emerging Viruses

Chairs: *Manuel Schibler (Geneva University Hospitals)*  
*Stephan Günther (Bernhard-Nocht-Institute Hamburg)*

#### 09.30 A Mobile Laboratory for Outbreak Situations

Rudi Pauwels, Praesens Foundation, Belgium

#### 09.40 Precision Global Health – Forecasting Outbreaks?

Antoine Flahault, Institute of Global Health, Faculty of Medicine University of Geneva and Geneva University Hospitals, Switzerland

#### 10.05 Discussion

#### 10.15 Coffee break

### Session III: Emerging Virus of Global Relevance: Measles, Enteric Viruses and HIV

Chairs: *Klara Posfay-Barbe (Faculty of Medicine University of Geneva and Geneva University Hospitals, Switzerland), Volker Thiel (University Bern)*

#### 10.45 Measles Epidemiology – Draw-backs and Current Challenges

Sabine Santibanez, Robert Koch Institute, Germany

#### 11.10 The Rapidly Evolving World of Enteric Viruses

Marion Koopmans, Erasmus Medical Centre, Rotterdam, The Netherlands

#### 11.35 HIV Control: Unresolved and Emerging Issues

Alexandra Calmy, Faculty of Medicine University of Geneva and Geneva University Hospitals, Switzerland

#### 12.00 Discussion

#### 12.15 Lunch

Venue: Foyer, Campus Biotech

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**Session IV: Ebola – Recent Challenges and New Approaches**

*Chairs: Olivier Engler (Federal Office for Civil Protection Switzerland)*

*Daniel Bausch (London School of Tropical Medicine and Hygiene)*

**13.20 Ebola in DRC – a Clinical Point of View**

Pauline Vetter, Geneva University Hospitals, Switzerland

**13.30 Challenges of the Current Ebola Outbreak in DRC**

Pierre Formenty, World Health Organization, Geneva, Switzerland

**13.55 Discussion**

**Session V: Emerging Rodent-borne Viruses: Lassa and Hantaviruses**

*Chairs: Gary Kobinger (University Laval), Stefan Kunz (University Hospital Lausanne)*

**14.05 A Case of Imported New World Hantavirus Infection to Switzerland**

Cornelia Staehelin, University Hospital Bern, Switzerland

**14.15 A Case of Imported Lassa Virus to Germany**

Timo Wolf, Goethe University Frankfurt, Germany

**14.25 Discussion**

**14.35 Coffee break**

**15.00 Lassa Fever – Lessons from the Field**

Daniel Bausch, London School of Tropical Medicine & Hygiene, London, UK

**15.25 Novel Diagnostics for Lassa Fever in the Field**

Stephan Günther, Bernhard Nocht Institute Hamburg, Germany

**15.50 Discussion**

**16.00 Mini break**

**Keynote Lectures: Virus Discovery and Viruses at the Human-Animal-Interface**

*Chairs: Antoine Flahault (Institute of Global Health), Isabella Eckerle (Faculty of Medicine University of Geneva and Geneva University Hospitals, Switzerland)*

**16.15 Expansion of the RNA Virosphere**

Edward Holmes, University of Sydney, Australia

**16.45 Microbial Discovery, Surveillance, and Diagnostics**

W. Ian Lipkin, Columbia University, New York, USA

**17.15 PREDICT and the Global Virome Project**

Peter Daszak, Ecohealth Alliance, New York, USA

**17.45 Discussion**

**Social program**

**19.30 Conference Dinner**

Restaurant Vieux-Bois

# Program

## Friday April 12, 2019

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### Session I: Emerging Viruses and the Brain

*Chairs: Philip Le Mercier (Swiss Institute of Bioinformatics)  
Samuel Cordey (Geneva University Hospitals)*

**08.30 The South East Asian Encephalitis Project**

Marc Lecuit, Pasteur Institute Paris, France

**08.55 Rabies Risk in Europe and Beyond**

Hervé Bourhy, Pasteur Institut Paris, France

**09.20 Discussion**

### Session II: Emerging Viruses from Africa

*Chairs: Pauline Vetter (Geneva University Hospitals)  
Cassandra Kelly (Foundation for Innovative New Diagnostics)*

**09.30 Imported Monkeypox to the UK**

Michael Jacobs, Royal Free Hospital, London, UK

**09.55 Arboviruses in Africa – Lessons from Senegal**

Amadou Sall, Pasteur Institute Dakar, Senegal

**10.20 Discussion**

**10.30 Coffee break**

### Session III: Febrile Illness – the Clinical Approach

*Chairs: Jérôme Pugin (Faculty of Medicine University of Geneva and Geneva University Hospitals, Switzerland)  
Marylyn Addo (University Hospital Hamburg)*

**10.55 Febrile Illnesses – What if it is not a Virus?**

Daniel Paris, Swiss TPH, Basle, Switzerland

**11.20 Discussion**



## Session IV: Climate Change and the Impact on Emerging Viruses

*Chairs: Rafael Ruiz de Castañeda (Institute of Global Health Geneva)*

*Micaela Serafini (Médecins Sans Frontières)*

**11.30 Climate Change and Health in Poor Countries**  
Rainer Sauerborn, Institute of Public Health, Heidelberg, Germany

**11.55 Rift-Valley-Fever Outbreak Assessment by Satellite-based Land Surface Analysis**  
Assaf Anyamba, University Space Research Association & NASA, Goddard Space Flight Center, USA

**12.20 Discussion**

**12.30 Mini-Lunch – Grab a sandwich**

### Award lecture

**13.00 Award Ceremony**  
Laurent Kaiser, Faculty of Medicine University of Geneva and Geneva University Hospitals, Switzerland

**13.10 Emerging Pathogens then and now - Three Decades of Hunting Deadly Viruses**  
Pierre Rollin, Atlanta, USA

**13.40 A Research Journey through Emerging Viruses**  
Gary Kobinger, University Laval, Quebec, Canada

**14.10 Closing Remarks & Farewell**  
Laurent Kaiser, Head of Division of Infectious Diseases, University Hospital Geneva, Switzerland  
Isabella Eckerle, Geneva Centre for Emerging Viral Diseases, Faculty of Medicine University of Geneva and Geneva University Hospitals, Switzerland



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