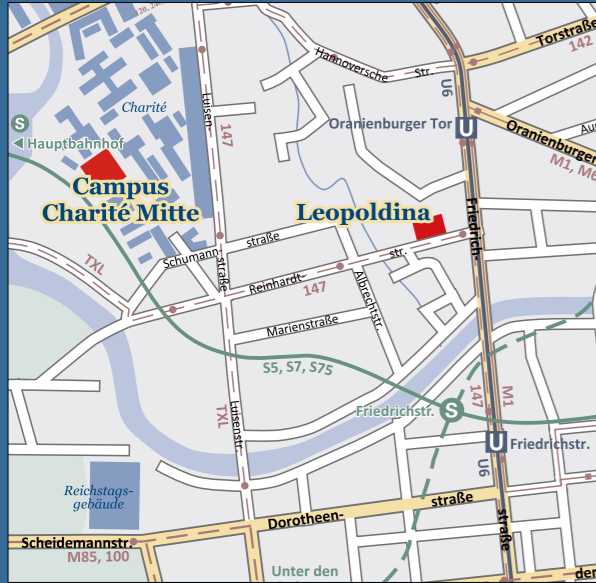


How to get there



Venues

Symposium:

seminar room 1
Max Planck Institute for Infection Biology
Charitéplatz 1
Campus Charité Mitte
10117 Berlin
www.mpiib-berlin.mpg.de

Panel Discussion:

foyer
Max Planck Institute for Infection Biology
Charitéplatz 1
Campus Charité Mitte
10117 Berlin
www.mpiib-berlin.mpg.de

The **German National Academy of Sciences Leopoldina** brings together the expertise of some 1,500 distinguished scientists to bear on questions of social and political relevance, publishing unbiased and timely scientific opinions. The Leopoldina represents the German scientific community in international committees and pursues the advancement of science for the benefit of humankind and for a better future.

The **Academy of Science of South Africa (ASSAf)** aspires to be the apex organisation for science and scholarship in South Africa, recognised and connected both nationally and internationally. Through its membership which represents the collective voice of the most active scholars in all fields of scholarly enquiry, ASSAf aims to generate evidence-based solutions to national problems.



Leopoldina-ASSAf Symposium

“New Research Perspectives on Infectious Diseases in Africa and Germany”

Infectious diseases represent an ongoing and severe threat to human health and prosperity of societies. Due to emerging and modifying diseases, increasing resistances as well as global travelling, infectious diseases can only be combated by internationally coordinated and interdisciplinary approaches. The German National Academy of Sciences Leopoldina, the Academy of Science of South Africa and the Max Planck Institute for Infection Biology organize the current symposium to discuss and coordinate most recent research results in the areas of HIV, tuberculosis, neglected diseases and resistance mechanisms. The speakers are mainly young scientists from Germany, South Africa and further African countries. Moreover, during a panel discussion with representatives from science, politics and society, ethical dimensions of clinical trials will be debated. The scientific coordinators of this event are Stefan H. E. Kaufmann ML, Max Planck Institute for Infection Biology, Germany and Quarraisha Abdool Karim, Columbia University, USA, and University of KwaZulu-Natal, South Africa.

The Schering Foundation and the Robert Bosch Foundation generously support this event financially. This includes the Science & Society Session (Schering Foundation) and the overall organisation (Robert Bosch Foundation).

Registration

Participation is free of charge. For participation at the symposium and/or the panel discussion, please kindly register here: www.leopoldina.org/en/infectious-diseases

New Research Perspectives on Infectious Diseases in Africa and Germany

Joint Symposium by the German National Academy of Sciences Leopoldina and the Academy of Science of South Africa (ASSAf)

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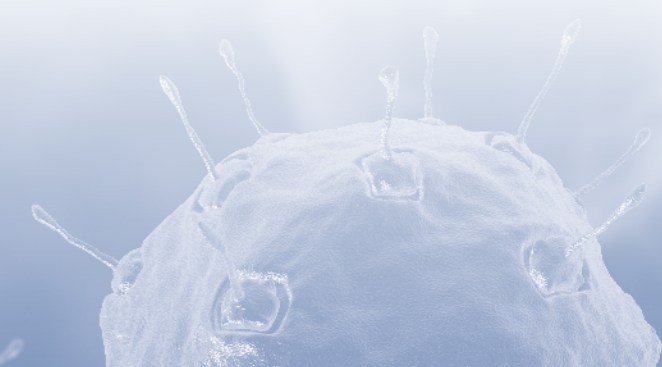
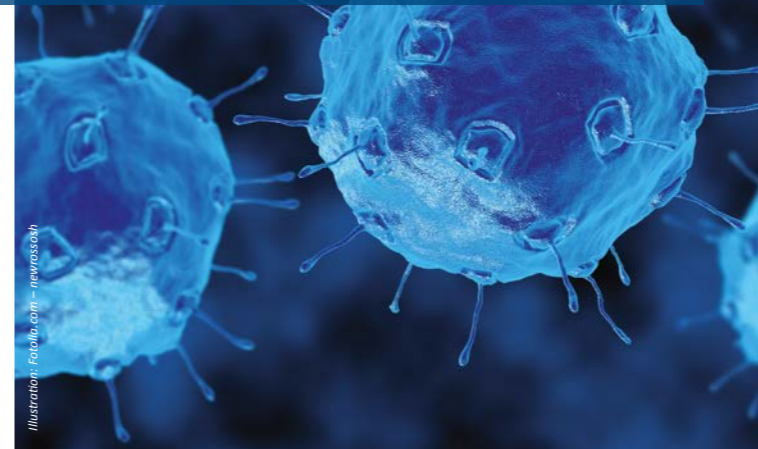
24 – 25 October 2016

Max Planck Institute for Infection Biology
Charitéplatz 1 | Campus Charité Mitte | 10117 Berlin

supported by:

Max-Planck-Institut
für Infektionsbiologie

Robert Bosch Stiftung



Programme

Monday, 24 October 2016

9:00 – 9:30 | Registration

9:30 – 9:45 | Welcome Addresses & Introduction

Stefan H. E. Kaufmann ML
Max Planck Institute for Infection Biology, Germany

Quarraisha Abdool Karim
Columbia University, USA, and University of KwaZulu-Natal, South Africa

Keynote I

9:45 – 10:15

Emerging infections – lessons learned from recent outbreaks
Marylyn Addo
University Medical Centre Hamburg-Eppendorf, Germany

Session 1: HIV

Chair: Kerrigan McCarthy
National Institute for Communicable Diseases, South Africa

10:15 – 10:45

Characterisation of broadly neutralizing antibody responses in HIV-1 subtype C infected children
Zanele Ditse
National Institute for Communicable Diseases, South Africa

10:45 – 11:15 | Coffee Break

11:15 – 11:45

Prevention of mother-to-child transmission of HIV: implementation and outcomes of Option B+
Stefanie Theuring
Charité – Universitätsmedizin Berlin, Germany

11:45 – 12:15

Mathematical modelling of R5 and X4 HIV: from within host dynamics to the epidemiology of HIV infection
Edna Chilenje Manda
University of KwaZulu-Natal, South Africa

12.15 – 13.00 | Lunch Break

Session 2: Novel Intervention Strategies for Neglected Diseases

Chair: Marylyn Addo
University Medical Centre Hamburg-Eppendorf, Germany

13:15 – 13:45

Challenges in clinical research in Africa
Meral Esen
University Hospital Tübingen, Germany

13:45 – 14:15

An evolutionary approach to identify novel vaccine targets against *Plasmodium falciparum*
Raymond Babila Nyasa
University of Buea, Cameroon

14:15 – 14:45

Antimycobacterial activity of the hydroethanolic extract, partitions, fractions and compounds from *Solanum torvum* leaves
Joseph Nguta
University of Ghana, Ghana

14:45 – 14:50 | Group Photo

14:50 – 15:15 | Coffee Break

15:15 – 15:45

Antiprotozoal and antimalarial plants from the Ethiopian flora
Mariamawit Yonathan Yeshak
Addis Ababa University, Ethiopia

15:45 – 16:15

Antibodies in urine and potential diagnosis of *Schistosoma* infection
Salma Medani El Hag Medani
National Center for Research, Sudan

Wrap-Up Day 1

16:15 – 16:30

Quarraisha Abdool Karim
Columbia University, USA, and University of KwaZulu-Natal, South Africa

Stefan H. E. Kaufmann ML
Max Planck Institute for Infection Biology, Germany

16:30 – 17:00 | Break

Science & Society Session of the Schering Foundation: “Ethical Dimensions in Clinical Trials”

Venue: Foyer Max Planck Institute for Infection Biology

Moderator: Stefan H. E. Kaufmann ML
Max Planck Institute for Infection Biology, Germany

17:00 – 17:15 | Welcome Addresses & Introduction

Jörg Hacker ML
President Leopoldina, Germany

Stefan H. E. Kaufmann ML
Max Planck Institute for Infection Biology, Germany

17:15 – 17:40 | Input Statement

The state of health research and financing in Sub-Saharan Africa
Debrework Zewdie
City University of New York, Graduate School of Public Health and Health Policy, USA

17:40 – 19:00 | Panel & Plenary Discussion

Günter Nooke
Personal Representative of the German Chancellor for Africa in the Federal Ministry of Economic Cooperation and Development and BMZ's Commissioner for Africa, Germany

Debrework Zewdie
City University of New York, Graduate School of Public Health and Health Policy, USA

Quarraisha Abdool Karim
Columbia University, USA, and University of KwaZulu-Natal, South Africa

David M. Serwadda
Makerere University, Uganda

19:00 | Reception

Tuesday, 25 October 2016

Keynote II

9:00 – 9:30

Emerging and re-emerging infectious diseases: challenges for Africa
David M. Serwadda
Makerere University, Uganda

Session 3: Resistance Mechanisms

Chair: Debrework Zewdie
City University of New York, Graduate School of Public Health and Health Policy, USA

9:30 – 10:00

Relationship between kdr genotypes and phenotypic-resistance to pyrethroids and DDT insecticides in *Anopheles gambiae*
Innocent Djegbe
Université des Sciences, Arts et Techniques de Natitingou, Benin

10:00 – 10:30

Strategies for combating bacterial infections in the light of antibiotic resistance development
Thomas Böttcher
University of Konstanz, Germany

10:30 – 11:00 | Coffee Break

11:00 – 11:30

Quantitative determinants of antibiotic resistance evolution
Tobias Bollenbach
Institute of Science and Technology Austria, Austria

11:30 – 12:00

The power of indigenous knowledge towards antimicrobial discovery
Never Mwambela Zekeya
Nelson Mandela African Institution of Science and Technology, Tanzania

12:00 – 12:30

Discovery and functions of small regulatory RNAs in the major human pathogens *Helicobacter pylori* and *Campylobacter jejuni*
Sandy Pernitzsch
University of Würzburg, Germany

12:30 – 13:30 | Lunch Break

Session 4: Tuberculosis

Chair: Stefan H. E. Kaufmann ML
Max Planck Institute for Infection Biology, Germany

13:30 – 14:00

Human latent M. tuberculosis infection drives differentiation of ESAT-6-specific CD4 T cells to a greater degree than Ag85B-specific cells
Munyaradzi Musvosvi
University of Cape Town, South Africa

14:00 – 14:30

Needles in haystacks: the search for biomarkers of tuberculosis
January Weiner
Max Planck Institute for Infection Biology, Germany

14:30 – 15:00 | Coffee Break

15:00 – 15:30

Unvisited players of eicosanoid pathway in Mycobacterium tuberculosis infection: Cysteinyl leukotrienes
Mumin Ozturk
University of Cape Town, South Africa

15:30 – 16:00

Human immune system mouse model for tuberculosis
Frida Arrey
Max Planck Institute for Infection Biology, Germany

Wrap-Up Day 2 & Close of Symposium

16:00 – 16:30

Quarraisha Abdool Karim
Columbia University, USA, and University of KwaZulu-Natal, South Africa

Stefan H. E. Kaufmann ML
Max Planck Institute for Infection Biology, Germany

ML = Member of Leopoldina