

German-African Workshop  
Freie Universität Berlin & Kenya Medical Research Institute

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# Parasite Infections in Global Health: Socioeconomics, Nutrition, Drug Resistance & Immunity



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**November 21 – 22, 2023**

**Location:** Freie Universität Berlin, Veterinarium Progressum, Oertzenweg 19b, 14163 Berlin

**Meeting Link:**

<https://fu-berlin.webex.com/fu-berlin-en/j.php?MTID=mc6a6bb0e622f16774b508b8ba6af2a9e>

**Organizer:**

Prof. Dr. Susanne Hartmann, Institute of Immunology, Centre for Infection Medicine, Department of Veterinary Medicine, Freie Universität Berlin

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Prof. Dr. Susanne Hartmann: susanne.hartmann@fu-berlin.de

# PROGRAM

Tuesday 21<sup>st</sup> of November

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**9:15** *Opening and Introduction by Dean for Research Prof. Marcus Fulde and Prof. Susanne Hartmann*

**9:30 – 11:00** *Social Determinants and Economics*

*Chair Susanne Hartmann*

**Dr. Doris Njomo** (KEMRI-ESACIPAC, Nairobi)

*Integrating Social and Behaviour Change Communication Strategies in Hygiene and Nutrition with Mass Drug Administration for Elimination of Soil-Transmitted Helminthiasis in Kenya*

**Prof. Dr. Lothar Wieler** (Hasso-Plattner-Institute, Potsdam)

*Human to human transmission of nontyphoidal Salmonella by asymptomatic convalescing children under five years in low-resource settings poses a risk to vulnerable household and community members*

**Dr. Francisco Pozo-Martin** (Robert Koch-Institute, Berlin)

*The economics of soil-transmitted helminth infection prevention and control*

**11:00 – 11:30** *Coffee Break*

**11:30 – 13:00** *Tropical Diseases*

*Chair Sebastian Rausch*

**Prof. Dr. Frank Mockenhaupt** (Charité Berlin, Institute of International Health)

*Malaria epidemiology and disease manifestation*

**Dr. Maurice Odiere** (KEMRI-CGHR, Kisumu)

*Schistosomiasis and soil-transmitted helminthiasis research and how this is shaping NTD policy*

**PD Dr. Jürgen Krücken** (FU Berlin, Institute for Parasitology and Tropical Veterinary Medicine)

*Tungiasis, a neglected tropical disease*

**13:00 – 14:00** *Lunch Break*

**14:00 – 15:30** *Nutrition and Infection*

*Chair Josephine Schlosser-Brandenburg*

**Prof. Dr. Jürgen Zentek** (FU Berlin, Institute of Animal Nutrition)

*Nutrition and gut health in monogastric animals*

**Prof. Dr. Sarah Atkinson** (KEMRI-Wellcome Trust, Kilifi and Oxford University)

*Nutrition and Ascaris infection*

**Philipp Höfler** (FU Berlin, Institute of Immunology)

*Ascaris infection and fibre nutrient supply in pigs*

**15:30 – 16:00** *Coffee Break*

## 16:00 – 18:00 **Drugs & Drug Resistance**

Chair Susanne Hartmann

**Prof. Dr. Georg von Samson-Himmelstjerna** (FU Berlin, Institute for Parasitology and Tropical Veterinary Medicine)

*Anthelmintic resistance: A major health problem in animals and a considerable threat in humans*

**Dr. Hannah Behrens** (Bernhard Nocht Institute, Hamburg)

*Impact of different mutations on Kelch13 protein levels, artemisinin resistance and fitness cost in Plasmodium falciparum malaria parasites*

**Zaneta Kidiavai** (FU Berlin, Institute of Immunology)

*Energy metabolism of Ascaris suum larvae exposed to artemisinin and its derivatives*

**Shahin Tajeri** (FU Berlin, Institute for Parasitology and Tropical Veterinary Medicine)

*A Theileria annulata parasite with a single mutation in cytochrome B is drug resistant*

**Prof. Dr. Raffi Aroian** (University of Massachusetts, Worcester, USA)

*Developing a simple-to-manufacture anthelmintic for soil-transmitted helminths*

**18:15 – 19:00 *Open discussion of future directions and funding option with Kenyan guests*** with Pretzels and Beer

## Wednesday, 22<sup>nd</sup> of November

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## 9:30 – 11:00 **Immunity to Malaria and Helminths**

Chair Susanne Hartmann

**Prof. Dr. Francis Ndung'u** (KEMRI-Wellcome Trust, Kilifi and Oxford University)

*Using experimental medicine to understand immunity to malaria*

**Dr. Sebastian Rausch** (FU Berlin, Institute of Immunology)

*T cell responses to intestinal nematode infections*

**Robert Mugo** (FU Berlin, Institute of Immunology)

*Antibodies to Ascaris excretory/secretory products as marker for an active Ascaris infection*

**11:00 – 11:30 *Coffee Break***

## 11:30 – 13:00 **Coinfections**

Chair Sebastian Rausch

**Dr. Erick Muok** (KEMRI-CGHR, Kisumu)

*Neglected Infectious Diseases (NIDs) in western Kenya: Historical studies in schistosomiasis and how that has shaped current interventions*

**Dr. Josephine Schlosser-Brandenburg** (FU Berlin, Institute of Immunology)

*The impact of tissue-invasive helminths on hepatic antiviral immunity*

**Ankur Midha** (FU Berlin, Institute of Immunology)

*Consequences of Ascaris-Salmonella coinfection on macrophages in pigs*

**13:00 – 13:45 *Lunch Break***

**14:00 – 14:30 *Veterinary Medicine Campus Tour and visit of Institute of Immunology***

**from 16:00 *Sightseeing Boat Tour on the river Spree with our Kenyan guests***

**from 18:00 *Dinner: Restaurant-Café Ephraim's, Nicolaiviertel*** (Rathausstraße 25, 10178 Berlin)