



Closing Symposium

DFG-Research Training Group RTG 2046 „Parasite Infections: From Experimental Models to Natural Systems“



Keynote speakers:

- Prof. Sebastian Lourido, MIT Cambridge, MA (USA)
- Prof. Sarah Atkinson, University of Oxford (UK) and KEMRI/Wellcome Trust (Kenya)
- Prof. Raffi Aroian, University of Massachusetts, Worcester, MA (USA)
- Dr. Mark Jago, University of Namibia, Windhoek (Namibia)

LOCATION: Veterinarium Progressum, Oertzenweg 19b, 14163 Berlin
Virtual attendance is possible, link via: grk2046@fu-berlin.de

Closing Symposium Research Training Group 2046



Day 1 (June 25)

10:00 **Welcome words and resumé: 9 years of RTG 2046**

RTG speaker Prof. Susanne Hartmann

Session 1: Protozoan infections: *Toxoplasma*, *Giardia* and *Plasmodium*

Chairs: Prof. Frank Seeber, Prof. Frank Mockenhaupt

10:15 Prof. **Sebastian Lourido**, Ph.D.

(Whitehead Institute for Biomedical Research, Cambridge, MA, USA)

Scalable analysis of an apicomplexan genome11:15 **David Warschkau** (project C3)*Organoids as Tools to Shed Light on the Intestinal Biology of Toxoplasma gondii*11:30 **Nishith Gupta**, Ph.D. (project A2)*Phospholipids-mediated regulation of calcium homeostasis and lytic cycle in Toxoplasma*11:45 – 12:05 **break**12:05 **Antonia Müller** (project B3)*Role of the CFTR in pathogenesis of Giardia duodenalis infections*12:20 **Otto Netzel** (project A6)*Host endocytic recycling during the liver stage of Plasmodium berghei*12:35 **Tinghuan Song** (project B1)*Immune Correlates of Protection against Plasmodium berghei Liver Stage Infection*12:50 **Marly Erazo Lugo** (project C6/A1)*Bacterial Microbiota Dynamics in Mosquitoes*13:05 **Welmoed van Loon** (project C7/B2)*Artemisinin resistance in Africa: networking for capacity building and surveillance*13:20– 14:20 **Lunch Break****Session 2: Parasites: nutrition, (co)infections and immune responses**

Chairs: Prof. Susanne Hartmann, Prof. Friederike Ebner

14:20 Prof. **Sarah Atkinson**, Ph.D.

(University of Oxford, UK and KEMRI-Wellcome Trust Research Programme, Kilifi, Kenya)

Iron in malaria and invasive bacterial infections15:20 **Philipp Höfler** (ES scholarship, project B4 - associated)*Highly fermentable fiber supplementation impacts roundworm infection in pigs*

 15:35 – 15:55 **break**

- 15:55 **Robert Mugo** (ES scholarship, project C9 - associated)
Acute Ascaris infection impairs effector functions of natural killer cells in single and Salmonella co-infected pigs
- 16:10 **Luis Enrique Elizalde Velazquez** (project B4)
Cellular analysis of susceptibility and resistance to a roundworm infection in the mouse model
- 16:25 **Joshua Adjah** (project B5)
A hepatic immune checkpoint shapes the Th2 response directed against strictly enteric worm infection
- 16:40 **Larissa Oser** (project C9)
The role of antigen-specific T cells in parasite distribution and predisposition to Ascaris suum in pigs
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16:55 – 17:15 **Break**

Session 3: ALUMNI: former doctoral researchers and their paths

Chair: Dr. Marko Janke

- 17:15 Prof. Dr. Susanne Hartmann, Dr. Marko Janke
Introduction
- Susana Ferreira**, Ph.D. (project C4, 1st generation, Postdoc Vienna)
Host-parasite interactions in wildlife populations
- Dr. **Felix Goerdeler** (project A3, 2nd generation, Postdoc Copenhagen)
My journey from a failed antibody screening against Plasmodium glycans to a promising strategy for targeting lymphoma
- Victor Hugo Jarquín Díaz**, Ph.D. (project C8 – associated, Postdoc Berlin)
The wild, the bug and the parasite

From 17:45 Get-together PhD students with pretzels and beer

Day 2 (June 26)

Session 4: Helminth infections: resistance and new treatments

Chairs: PD Dr. Jürgen Krücken, Prof. Georg von Samson-Himmelstjerna

- 09:00 Prof. Dr. **Raffi Aroian**
(University of Massachusetts Medical School, Worcester, MA, USA)
Fermented anthelmintics—a new evolution in parasite treatment
- 10:00 **Luise Grace Klass** (project C5)
Ecological interdependencies and bio/pathological consequences of equine multi-species infection complexes

 10:15 – 10:35 **break**

- 10:35 **Arkadi Kundik** (project B4 - associated)
Investigating Photo-Induced Bioeffects in Ascaris suum for Vaccine Development Strategies
- 10:50 **Zaneta Kidiavai** (project B1)
Energy metabolism of Ascaris suum larvae exposed to artemisinin and its derivatives
- 11:05 **Jost Lühle** (project A3)
Sialylated N-Glycans: Exploring Their Role in Malaria Parasite-Host Interactions
- 11:20 **Natalie Jakobs** (project A5)
The role of Cytochrome oxidase P450 enzymes in anthelmintic resistance
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11:35– 11:55 **Break**

Session 5: Parasites and wildlife research

Chairs: Dr. Bettina Wachter, Prof. Heribert Hofer

- 11:55 **Dr. Mark Jago**
(University of Namibia · School of Veterinary Medicine, Windhoek, Namibia)
“It all started with Growl”, reflections on the significance of pathogens in African wildlife
- 12:55 **Lilla Jordán** (project C1)
Effects of parasite infections on Namibian cheetahs (Acinonyx jubatus)
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13:10 – 14:00 **Lunch break**

- 14:00 **Susana Soares** (project C4)
Long term effects of gastrointestinal parasitism and immunosenescence – case study of wild spotted hyenas
- 14:15 **Fay Webster** (project C8/A4)
Tolerance of hybrid hosts against infections
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- From Prof. Heribert Hofer, PD Dr. Marion East, Dr. Bettina Wachter
14:30 *RTG 2046 Field Courses in Tanzania and Namibia*
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From 15:20 Go to S Wannsee

From 16:30 Boat trip (2 hours, terminates at S Wannsee at 18:20)