



Immuno MicroTope

RTG 2740

SCIENTIFIC PROGRAMME OF THE 2ND INTERNATIONAL CONFERENCE

“IMMUNOMICROTOPE – MICROENVIRONMENTAL, METABOLIC AND
MICROBIAL SIGNALS REGULATING IMMUNE CELL-PATHOGEN
INTERACTIONS”

Erlangen, April 9-11, 2025

Wednesday, April 9, 2025

12:30 – 02:00 pm Registration
02:00 – 02:30 pm **Christian Bogdan** | Speaker RTG 2740 and Director Institute of
Clinical Microbiology, Immunology and Hygiene, Erlangen, Germany |
Welcome and Introduction

SESSION 1: HEMATOPOIETIC CELLS AS HOST CELLS AND IMMUNOREGULATORS

Chair:

02:30 – 03:00 pm **Gordon Brown** | United Kingdom | C-type lectins in immunity.
03:00 – 03:30 pm **Tim Lämmermann** | Germany | Mast cell dynamics – unique among
immune cells.
03:30 – 03:45 pm Short Talk 1
03:45 – 04:00 pm Short Talk 2
04:00 – 04:30 pm *Coffee-Break*

SESSION 2: EPIGENETIC AND METABOLIC REGULATION OF T-CELL IMMUNITY

Chair:

04:30 – 05:00 pm **Wilfried Ellmeier** | Austria | Histone deacetylases and the control of T cell-mediated immunity.

05:00 – 05:30 pm **Kilian Schober** | Germany | Metabolic quiescence precedes and maintains human antigen-specific T cell memory *in vivo*.

05:30 – 05:45 pm Short Talk 3

05:45 – 06:00 pm Short Talk 4

7:00 pm *Speakers dinner (invited speakers and members of RTG 2740 only)*

Thursday, April 10, 2025

SESSION 3: EPIGENETICS, INFECTION AND HOST IMMUNITY

Chair:

09:00 – 09:30 am **Melanie Hamon** | France | Bacteria-mediated histone modifications in health and disease.

09:30 – 10:00 am **Monica de Rolando** | France | Exploring epigenetic reprogramming by *Legionella pneumophila* during infection.

10:00 – 10:15 am Short Talk 5

10:15 – 10:30 am Short Talk 6

10:30 – 11:00 am *Coffee-Break*

SESSION 4: TISSUE MICROMILIEU FACTORS AND INFECTIONS

Chair:

11:00 – 11:30 am **Fernanda Novais** | USA | Hypoxia and CD8 T cells in cutaneous leishmaniasis.

11:30 – 11:50 am **Jonathan Jantsch** | Germany | Title to be announced

11:50 – 12:10 pm **Baplu Rai** | Germany | Role of arginase and arginine in the pathogenesis and treatment of *L. mexicana* infections.

12:10 – 2:00 pm *Lunch Palmeria / Free time*

SESSION 5: IMMUNOMETABOLISM AND INFLAMMATION

Chair:

02:00 – 02:30 pm **Joanna Maria Kalucka** | Denmark | Endothelial interferon signaling drives inflammation through metabolic rewiring.

02:30 – 03:00 pm **Thomas Weichhart** | Austria | Metabolic regulation of tissue homeostasis by macrophages.

03:00 – 03:15 pm Short talk 7

03:15 – 03:30 pm Short talk 8

03:30 – 03:45 pm Short talk 9

03:45 – 04:15 pm *Coffee-Break*

SESSION 6: PATHOGEN METABOLISM, VIRULENCE AND IMMUNE CELL MODULATION

Chair:

04:15 – 04:45 pm **Gerald Späth** | France | Going nuclear: Leishmania epigenetic subversion of macrophage immuno-metabolic functions.

04:45 – 05:15 pm **Malcolm McConville** | Australia | Parasite metabolism and pathogenesis.

05:15 – 05:30 pm Short talk 10

05:30 – 05:45 pm Short talk 11

06:00 pm *Poster session with dinner (invited speakers and members of RTG 2740 only)*

Friday, April 11, 2025

SESSION 7: MUCOSAL AND INTESTINAL IMMUNOLOGY

Chair:

- 09:00 – 09:30 am** **Marco Colonna** | USA | Exploring the heterogeneity of Ror γ -positive cells in the intestinal mucosa.
- 09:30 – 10:00 am** **Matthew Hepworth** | United Kingdom | ILC regulatory networks in mucosal barrier tissue microenvironments.
- 10:00 – 10:15 am** Short talk 12
- 10:15 – 11:00 am** *Coffee-Break*

SESSION 8: HUMAN INFECTION MODELS (PART 1)

Chair:

- 11:00 – 11:30 am** **Richa Mishra** | Germany | Disrupting cord architectures to enhance antibiotic treatment and lung health in *Mycobacterium tuberculosis* infections.
- 11:30 – 12:00 am** **Franziska Faber** | Germany | *Bacteroides thetaiotaomicron* accelerates *Clostridioides difficile* virulence programs during co-colonization of hypoxic, mucus-producing human colon models.
- 12:00 – 12:15 pm** Short talk 13
- 12:15 – 12:30 pm** Short talk 14
- 12:30 – 12:45 pm** Short talk 15
- 12:45 – 02:15 pm** *Lunch Palmeria/ Free time*

SESSION 9: HUMAN INFECTION MODELS AND SYSTEMS IMMUNOLOGY (PART 2)

Chair:

- 02:15 – 02:45 pm** **Laura Dirx** | Belgium | Hematopoietic cells as niche for Leishmania.
- 02:45 – 03:15 pm** **Paul Kaye** | United Kingdom | Landscape immunology of Old World cutaneous leishmaniasis.
- 03:15 – 03:30 pm** Short talk 16
- 03:30 – 03:45 pm** Short talk 17
- 03:45 – 04:00 pm** Short talk 18
- 04:00 – 04:15 pm** **Christian Bogdan** | Closing remarks
- 05:00 pm** Social evening at “Klosterbräu” Bamberg