



**cmfi 2023**



## 3<sup>rd</sup> International Conference Controlling Microbes to Fight Infections

October 11–13, 2023  
Tuebingen, Germany  
[www.cmfi2023.com](http://www.cmfi2023.com)

**GREEN  
EVENT  
BW**

## Program



Universitätsklinikum  
Tübingen



MAX PLANCK INSTITUTE  
FOR BIOLOGY TÜBINGEN

Funded by

**DFG**

Deutsche  
Forschungsgemeinschaft  
German Research Foundation



Cluster of  
Excellence

Controlling Microbes to Fight Infections

## GENERAL INFORMATION



### Catering

Catering will be served during the official coffee and lunch breaks and is covered by the registration fee. The get together (day 1) and social evening (day 2) will also take place at the conference venue. Here, too, catering is included in the registration fee.



### Certificate of attendance

Certificates of attendance will be sent to you via e-mail after the conference.



### Cloakroom

The coat and luggage room at the conference is free and unsecured.



### General terms and conditions

Please find our general terms and conditions at [www.cmfi2023.com](http://www.cmfi2023.com).



### Name badge

Please wear your name badge during all conference events, including the networking activities.

Admission to scientific sessions and to the industrial exhibition is restricted to participants wearing their badge. Participants will receive their name badge when collecting their conference documents at the check-in desk.



### Poster awards

The top **3** poster presentations will be awarded prize money of **200, 150 and 100 EUR**. The award ceremony will be held on **Friday, 13 October** during the closing remarks.



### Publication of abstracts

All abstracts will be available online in a secure area on the CMFI homepage to all registered participants. You can obtain access directly on site at the message board.

User name: cmfi2023  
Password: cm87342f9



### Wi-Fi access

Wi-Fi is available for free throughout the whole conference area.

SSID: Guest  
Name: cmfi2023  
Password: Microbe




Follow us @CoE\_CMFI  
Conference tag #cmfi2023

# PROGRAM OVERVIEW

WEDNESDAY, 11 OCT

THURSDAY, 12 OCT

FRIDAY, 13 OCT

Hörsaal N6	Foyer	Hörsaal N6	Foyer	Hörsaal N2	Hörsaal N6
		<b>09:00–10:30</b>			<b>09:00–10:30</b>
		<b>Session 3</b> Microbiome-derived bioactive compounds			<b>Session 6</b> Controlling invasive infection
		<b>Coffee break</b>			<b>Coffee break</b>
<b>11:00–13:00</b>		<b>11:00–11:45</b>			<b>11:00–11:45</b>
Registration		Flash talks 1			Flash talks 3
		<b>Lunch break</b>		<b>11:45–12:30</b>	<b>11:45–12:00</b>
				<b>Lunch talk</b> Effectively publishing data-rich science	Closing remarks and poster awards 
<b>13:00–13:15</b>		<b>12:30–14:00</b>			
Welcome remarks		<b>Session 4</b> Bacteria instructing mucosal immunity			
<b>13:15–14:45</b>			<b>14:00–15:00</b>		
<b>Session 1</b> Enlisting commensals against pathogens			Poster session		
<b>Coffee break</b>		<b>15:00–15:45</b>			
<b>15:15–16:45</b>		Flash talks 2			
<b>Session 2</b> How microbiomes shape major human diseases and drug availability		<b>Coffee break</b>			
<b>16:45–20:00</b>	<b>16:45–18:40</b>	<b>16:15–17:45</b>			
Get together	Poster session	<b>Session 5</b> Host cell manipulation by intracellular pathogens			
			<b>18:00–24:00</b>		
			Buffet, band, and DJ		
				<b>Key</b>	
				<b>Welcome &amp; closing remarks</b>	
				<b>Poster session</b>	
				<b>Talks</b>	
				<b>Main session</b>	
				<b>Registration</b>	
				<b>Lunch talk</b>	
				<b>Social program</b>	

# SCIENTIFIC PROGRAM

## WEDNESDAY, 11 OCTOBER

### 11:00–13:00 Registration

Foyer

13:00–13:15 Welcome remarks

Lecture hall N6

13:00 President of the University of Tübingen  
Karla Pollmann

### 13:15–14:45 Session 1

Lecture hall N6

Chair

#### Enlisting commensals against pathogens

Heike Brötz-Oesterhelt (Tuebingen/DE)

13:15 Resurrecting the intestinal microbiota to combat  
IT01 antibiotic-resistant pathogens  
Eric Pamer (Chicago-IL/US)

virtual

13:45 A probiotic to prevent *Staphylococcus aureus* infection?  
IT02 Michael Otto (Bethesda-MD/US)

14:15 Evolutionary trajectories of gut bacteria determine resistance against  
FT01 pathogen colonization  
Simon Woelfel (Munich/DE)

14:30 Microbiota context dependent dual protective role of *Klebsiella oxytoca*  
FT02 against *Salmonella* infection  
Till Strowig (Braunschweig/DE)

### 14:45–15:15 Coffee break

### 15:15–16:45 Session 2

Lecture hall N6

Chair

#### How microbiomes shape major human diseases and drug availability

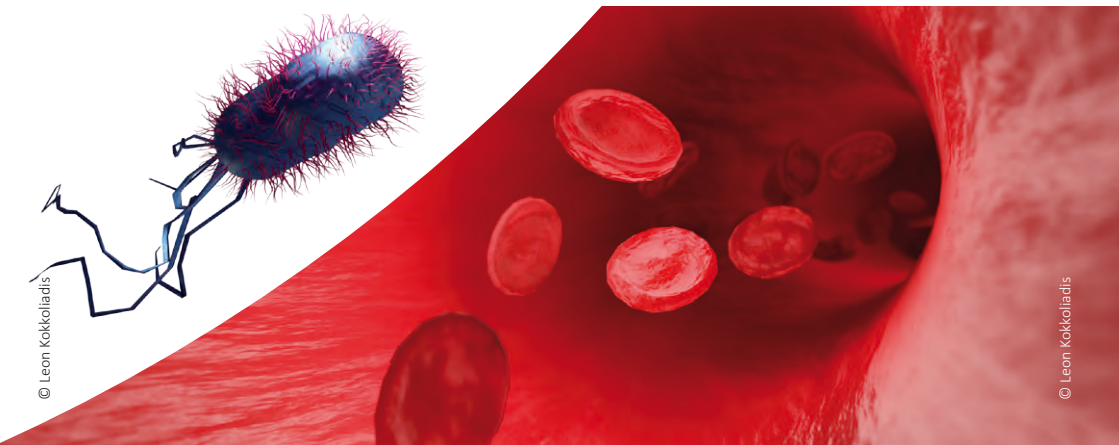
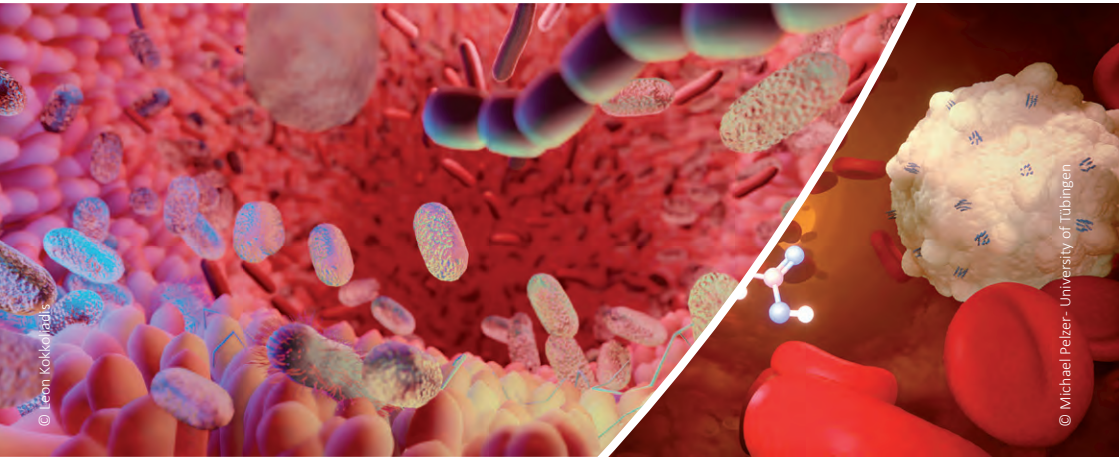
Reiner Jumpertz-von Schwartzberg (Tuebingen/DE)

15:15 Gut microbiome in the development and type 2 diabetes  
IT03 Fredrik Bäckhed (Gothenburg/SE)

15:45 The consequences of drugging the gut microbiome – from the individual  
IT04 microbe to the host  
Lisa Maier (Tuebingen/DE)

# SCIENTIFIC PROGRAM WEDNESDAY, 11 OCTOBER

- 16:15                    Impact of the microbiome composition on the fitness of antibiotic  
FT03                    resistant mutants  
                             Michael Knopp (Heidelberg/DE)
- 16:30                    Systematic evaluation of long-term drug effects on the gut microbiome in  
FT04                    the Estonian Microbiome Cohort  
                             Elin Org (Tartu/EE)
- 16:45–20:00        Poster session incl. get together  
Foyer



SCIENTIFIC PROGRAM  
THURSDAY, 12 OCTOBER

09:00–10:30 **Session 3**

Lecture hall N6 **Microbiome-derived bioactive compounds**  
Chair Elke Dittmann (Potsdam/DE)

09:00 Understanding and redirecting the host immune response to  
IT05 *Staphylococcus epidermidis*  
Michael Fischbach (San Francisco-CA/US)

09:30 Exploring the untapped Chemical diversity of bacterial  
IT06 specialized metabolites  
Nadine Ziemert (Tuebingen/DE)

10:00 Mining antimicrobials in the human skin microbiome  
FT05 Uyen Thy Nguyen (Hamilton/CA)

10:15 Exploiting microbial metabolites as narrow-spectrum antibiotics  
FT06 Thomas Böttcher (Vienna/AT)

10:30–11:00 Coffee break

11:00–11:45 **Flash talks 1**

Lecture hall N6  
Chair Daniel Petras (Tuebingen/DE)

11:00 Naturally occurring variants of the antimicrobial lasso peptide Microcin J25  
FT07 Julian D. Hegemann (Saarbrücken/DE)

11:15 From regulon to stimulus to metabolite – Zur – zinc – Transvalencins  
FT08 Marius Spohn (Giessen/DE)

11:30 Metabolic bottlenecks decrease antibiotic efficiency in *Escherichia coli*  
FT09 Paul Lubrano (Tuebingen/DE)

11:45–12:30 Lunch break

# SCIENTIFIC PROGRAM

## THURSDAY, 12 OCTOBER

### 11:45–12:30 Lunch talk

Lecture hall N2

#### Effectively publishing data-rich science

Andrew Hufton (Editor-in-Chief; Patterns – Cell Press)

### 12:30–14:00 Session 4

Lecture hall N6

#### Bacteria instructing mucosal immunity

Chair

Alexander Weber (Tuebingen/DE)

12:30

Sugar-coating mucosal vaccines

IT07

Emma Slack (Zurich/CH)

13:00

Evolutionary histories and adaptations of human gut microbiota

IT08

Ruth Ley (Tuebingen/DE)

13:30

Transient intestinal colonisation of germ-free mice demonstrates long-lived microbiota-specific T<sub>H</sub> cell memory

FT10

Jakob Zimmermann (Bern/CH)

13:45

Differential host response to *Staphylococcus aureus* Panton-Valentine leucocidin in Africans and Europeans

FT11

Tobias Grebe (Muenster/DE)

### 14:00–15:00 Poster session

Foyer

## SCIENTIFIC PROGRAM THURSDAY, 12 OCTOBER

### 15:00–15:45 Flash talks 2

Lecture hall N6

Chair Effie Bastounis (Tuebingen/DE)

15:00 Glycan-mediated immune selection of bacterial species at host barrier sites  
FT12 Jasper Mol (Amsterdam/NL)

15:15 Studying the effects of gut microbiome dysbiosis on the outcomes of T-cell  
FT13 dependent cancer immunotherapies  
Shivendra Dixit (Tuebingen/DE)

15:30 Vaccine-induced fevers are associated with diet and the gut microbiome  
FT14 Kelsey Huus (Tuebingen/DE)

### 15:45–16:15 Coffee break

### 16:15–17:45 Session 5

Lecture hall N6

#### Host cell manipulation by intracellular pathogens

Chair Jorge Galan (New Haven-CT/US)

16:15 Development of a novel antiinfective that blocks invasion of *Salmonella*  
IT09 Samuel Wagner (Tuebingen/DE)

16:45 Transkingdom signalling via *Legionella pneumophila* small regulatory RNAs  
IT10 and extracellular vesicles  
Carmen Buchrieser (Paris/FR)

17:15 Using complex human skin models to study the immunological response to  
FT15 colonization by *Staphylococcus spp.*  
Julia Lang (Solna/SE)

17:30 Biomechanical alterations of endothelial cells exposed to bacterially-  
FT16 infected immune cells  
Marie Mönkel (Tuebingen/DE)

### 18:00–00:00 Buffet, band, and DJ



# SCIENTIFIC PROGRAM

## FRIDAY, 13 OCTOBER

### 09:00–10:30 Session 6

Lecture hall N6

Chair

#### Controlling invasive infections

Christoph Ratzke (Tuebingen/DE)

09:00

IT11

Dissecting the impact of malnutrition and dehydration on nosocomial infections

Victor Torres (Memphis-TN/US)

09:30

IT12

How staphylococci balance commensal vs. pathogen lifestyles

Andreas Peschel (Tuebingen/DE)

10:00

FT17

Sensing host asparagine controls group A *Streptococcal pathogenesis*

Emanuel Hanski (Jerusalem/IL)

10:15

FT18

Understanding and fighting urinary tract infections (UTIs) in an innovative human bladder microtissue model

Carlos Flores (Basel/CH)

### 10:30–11:00 Coffee break

### 11:00–11:45 Flash talks 3

Lecture hall N6

Chair

Bastian Molitor (Tuebingen/DE)

11:00

FT19

Diversification of two-partner secretion *Ralstonia solanacearum* systems in the bacterial plant pathogen *Ralstonia solanacearum*

Daria Evseeva (Tuebingen/DE)

11:15

FT20

Radiolabeled antibody for translational specific PET imaging of invasive infections: the example of Aspergillosis

Nicolas Bézière (Tuebingen/DE)

11:30

FT21

Adaptive evolution of virulence and persistence in carbapenem-resistant *Klebsiella pneumoniae* infections

Christoph Ernst (Cologne/DE)

### 11:45–12:00 Closing remarks and poster awards



Please find the full program at

[www.cmfi2023.com/program/scientific-program](http://www.cmfi2023.com/program/scientific-program)



SCAN ME

# ORGANIZATIONAL REMARKS

## Venue

University of Tübingen  
Hörsaalzentrum  
Auf der Morgenstelle 16 | 72076 Tübingen/DE

## Date

October 11–13, 2023

## Conference website

[www.cmfi2023.com](http://www.cmfi2023.com)

## Social media



@CoE\_CMFI #cmfi2023

## Local organization



Cluster of Excellence „Controlling Microbes to Fight Infections“ (CMFI)

Leon Kokkoliadis

Dirk Kraus

Silke Schultz

## Conference chairs

Heike Brötz-Oesterhelt

Ruth Ley

Lisa Maier

Andreas Peschel

Samuel Wagner

Nadine Ziemert

## Professional conference organizer

Conventus Congressmanagement & Marketing GmbH

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