

BActerial Renal InfeCtion And DEfense (BARICADE)

From the pathogen to the host to therapy



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Welcome address

Dear Colleagues,

It is a great pleasure for us to welcome you to the International Conference on **BA**cterial Renal InfeCtion And **DE**fense in Giessen, Germany, which is organised by the DFG research group **BARICADE** (<https://www.baricade.de/>).

The urinary tract is often affected by bacterial infections, which often spread to the kidneys. Due to a variety of factors, such as host comorbidities and antimicrobial resistance, that reduce the success of therapy, this can potentially be life-threatening. A better understanding of these infections at the molecular level is therefore urgently needed. The interdisciplinary research group **BARICADE** therefore formed in 2022, involving researchers from 4 medical universities across Germany, to investigate the causes and molecular mechanisms of bacterial infections of the kidneys and pave the way for new treatment strategies. This international conference deals with the increasing burden of urinary tract and renal infections: **From the pathogen to the host to therapy.**

The meeting venue is in the historic teaching building of the Medical Faculty of the Justus Liebig University. This international conference will allow an intensive exchange of recent advances in the exciting field of urinary tract infections with a faculty of leading experts. The goal is to highlight cutting edge research in urinary tract and renal infections. Beside a challenging scientific program with keynote speakers, young investigator talks, basic science presentations and poster sessions, we cordially invite you to informally continue your discussions during the social events such as our congress dinner at the museum of mathematics in Giessen (<https://www.mathematikum.de/en/>).

Being a lively university city, Giessen is located centrally in Germany, only 45 min train ride away from Frankfurt airport. The workshop venue is in walking distance to the original 19th century laboratories of Justus von Liebig, founder of the world's first major school of chemistry and patron of our university.

We very much welcome you to Giessen!
On behalf of the **BARICADE** research group,

F. Wagenlehner

Acknowledgements: The Workshop organisers wish to thank the German research foundation for their generous support.

INTERNATIONAL CONFERENCE

04. – 05. APRIL 2025

Medizinisches Lehrzentrum Gießen, Germany

Venue: Medizinisches Lehrzentrum (MLZ)
Klinikstr. 23, 35392 Gießen, Germany

13:00 – 13:05	Welcome
13:05 – 15:15	Topic 1: The pathogen in UTI
13:05 – 13:40	Keynote 1 (30 min.+5)
	Ascending UTI and novel vaccine approaches studied in a pig model Thomas Emil Andersen, Odense, Denmark
13:40 – 14:00	Young researcher (15 min.+5)
	Using organoid-based models to revolutionize urinary tract infection research Carmen Aguilar, Würzburg, Germany
14:00 – 15:15	3 Presentations (20 min.+5)
14:00 – 14:25	UPEC host interaction in upper and lower UTI Uli Dobrindt, Münster, Germany
14:25 – 14:50	UTI metagenomics and microbiome Torsten Hain, Gießen
14:50 – 15:15	MALDI mass spectrometry imaging: Molecular insights into UTI and bacterial biofilm Klaus Dreisewerd, Münster, Germany
15:15 – 15:30	Coffee break

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15:30 – 17:15	Topic 2: The host immunity in UTI
15:30 – 16:05	Keynote 2 (30 min.+5)
	Innate immunity in UTI Catharina Svanborg, Lund, Sweden
16:05 – 16:25	Young researcher (15 min.+5)
	AMPs in UTI Olga Shevchuk, Essen, Germany
16:25 – 17:15	2 Presentations (20 min.+5 min.)
16:25 – 16:50	NETosis in kidney infections Sibylle von Vietinghoff, Bonn, Germany
16:50 – 17:15	ETosis in urogenital infections Carlos Hermosilla, Gießen, Germany
17:15 – 18:30	Poster presentations
19:00	Dinner (Mathematikum Gießen)

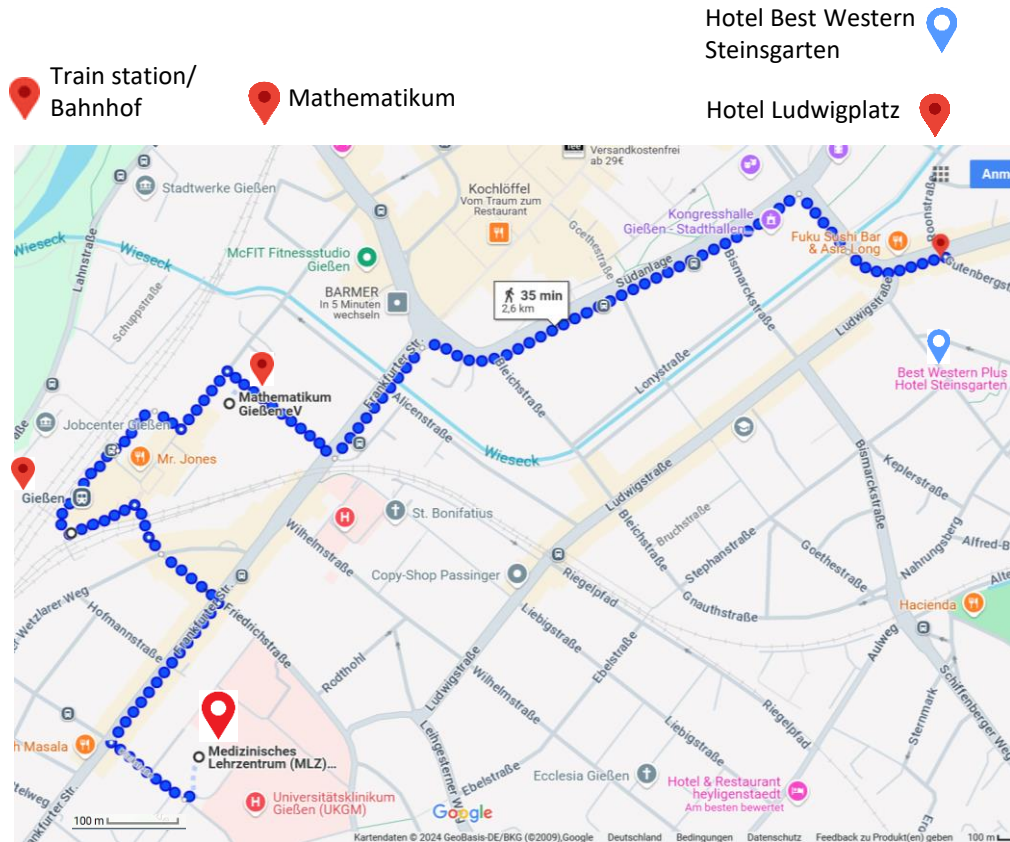
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09:00 – 11:10	Topic 3: The kidney in infection
09:00 – 09:35	Keynote 3 (30 min.+5)
	How AI advances kidney pathology Peter Boor, Aachen, Germany
09:35 – 09:55	Young researcher (15 min.+5)
	When kidney healing turns harmful: A story of monocytes and renal fibrosis after pyelonephritis Selina Jorch, Bonn, Germany
09:55 – 11:10	3 Presentations (20 min.+5)
09:55 – 10:20	Regulation of myeloid cells in the tissue context Daniel Engel, Essen, Germany
10:20 – 10:45	Role of myeloid immune cells in kidney inflammation Christian Kurts, Bonn
10:45 – 11:10	Renal cell remodelling and regeneration Ina Maria Schiessl, Aarhus, Denmark
11:10 – 11:30	Coffee break

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11:30 – 13:40	Topic 4: Clinically oriented research and management of UTI
11:30 – 12:05	Keynote 4 (30 min.+5)
	PK/PD, dosing and behaviour of antibiotics in various compartments in the urinary tract Jakob Friemodt-Møller, Copenhagen, Denmark
12:05 – 12:25	Young researcher (15 min.+5)
	Phage treatment in UTI Lorenz Leitner, Zürich, Switzerland
12:25 – 13:40	3 Presentations (20 min.+5)
12:25 – 12:50	Rapid point-of-care UTI diagnostics using nanopore sequencing Rafi Ahmad, Hamar, Norway
12:50 – 13:15	ExPEC conjugate vaccine in UTI Angela Huttner, Geneva, Switzerland
13:15 – 13:40	The hollow fiber infection model to study the PK/PD of anti-infectives in vitro Sebastian Wicha, Hamburg, Germany
13:40 – 14:00	General discussion and Lunch
14:00	Farewell

Map with venues and hotels



Conference Venue

Medizinisches Lehrzentrum
Justus-Liebig-Universität
Klinikstr. 29
35392 Giessen



Please register by email by March 20, 2025:
katharina.endres@chiru.med.uni-giessen.de

Parking garage

Gaffkystraße 9, 35392 Giessen
Google maps Plus Code:
HMF8+C5 Giessen

Dinner Venue

Mathematikum
(close to the train station)
Liebigstr. 8
35390 Giessen



<https://www.baricade.de/>