

## The German Genetics Society (GfG)



The German Genetics Society (GfG) is a scientific organization that unites scientists from universities and research institutions as well as from industry and governmental agencies working on all aspects of genetic research. It is also a home for high school teachers and everybody interested in genetics.

The GfG fosters scientific exchange and discussion of actual as well as long-term pressing scientific questions related to the field of genetics and aims for encouraging comprehensive interdisciplinary considerations across genetic disciplines.

The GfG meets this goal by regularly organizing for their members and interested guests international conferences hosting renowned experts and young academics to present their latest findings in a selected key topic of genetic research.

Find out more under: <https://www.gfgenetik.de>

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Sparked by the current global pandemic of COVID-19, the field of infection genetics experiences a rapid progress demanding an intense exchange of experience and knowledge.

Accompanying vivid scientific discussions will foster a common understanding of fundamental and newly evolving principles of inflammatory and infectious processes and stimulate novel ideas. Therefore, the scientific program of this conference is not only exciting for experts in the field but also rewarding for everybody interested in infection genetics.

Host of this conference is the Life Sciences Faculty of the Technische Universität Braunschweig with its key research area in infection and drug research. Together with the Helmholtz Centre for Infection Research and the German Collection of Microorganisms and Cell Cultures (DSMZ) as a member institute of the Leibniz Association a strong local infrastructure to organize this conference is provided for this prevailing scientific topic.

### Registration

Given the unclear development of the pandemic, it was therefore decided to hold the conference as an online meeting during the same days that had been fixed for April 2022, from April 4th until April 5th.

The conference is free of charge. Please register under: <https://gfg.itubs.de>

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## GfG-Conference 2022

# Genetics of Inflammation and Infection

*“The current conference is dedicated to shed light on fundamental genetic mechanisms of inflammatory and infectious events and the involved bacterial, viral and fungal pathogens.”*

**April 4<sup>th</sup>-April 5<sup>th</sup>, 2022**  
- online & free of charge -

## “Genetics of Inflammation and Infection”

April 4<sup>th</sup>-April 5<sup>th</sup> 2022

Monday April 4 <sup>th</sup> , 2022 Online Main Stage:	
09:00	Opening Ceremony
09:15	<b>Plenary Session I: Innate or Trained Immunity?</b> Chair: Prof. Yang Li, HZI Braunschweig
09:15	Talk 1: Prof. Mihai Netea (Limes, University of Bonn): <i>Variation and adaptation in innate immune responses</i>
09:45	Talk 2: Prof. Heiner Wedemeyer (Hannover MHH): <i>Genes and immunity in viral hepatitis: What can we learn from antiviral treatment?</i>
10:15	Break, Visit of Industrial Exhibition, Visit of Posters
10:45	<b>Plenary Session II: Adaptive or Tissue-Resident Immunity</b> , Chair: Prof. Jochen Hühn, HZI Braunschweig
10:45	Talk 1: Dr. Marc Veldhoen (University of Lissabon): <i>Generation, maintenance and activation of tissue resident T cells</i>
11:15	Talk 2: Dr. Janneke Samsom (Erasmus University Rotterdam): <i>Regulating intestinal immune responses to luminal antigens</i>
11:45	Talk 3: selected from submitted abstracts
12:00	Poster Flash Presentation (Session I)
12:15	Lunch Break, Visit of Industrial Exhibition, Visit of Posters
13:00	Poster Presentation (Session I)
14:00	<b>Plenary Session III: Bacterial Infections I</b> Chair: Prof. Dieter Jahn, TU Braunschweig
14:00	Talk 1: Prof. Ute Römling (Karolinska Institute Stockholm): <i>Intracellular signalling in pathogenic bacteria</i>
14:30	Talk 2: Prof. Isabelle Martin-Verstraete (Pasteur Institute Paris): <i>Stress responses of Clostridioides difficile</i>
15:00	Coffee Break, Visit of Industrial Exhibition, Visit of Posters
15:30	<b>Plenary Session IV: Inflammasome</b> Chair: Prof. Michael Steinert, TU Braunschweig
15:30	Talk 1: Dr. Mikael Sellin (University of Uppsala): <i>Epithelial Inflammasomes and Gut Bacterial Infection</i>

16:00	Talk 2: Prof. Dario Zombani (University of Sao Paulo): <i>Inflammasomes in host response to intracellular pathogens and in the pathogenesis of diseases</i>
16:30	Talk 3: selected from submitted abstracts
16:45	Talk 4: selected from submitted abstracts
17:00	Coffee Break, Visit of Industrial Exhibition, Visit of Posters
17:30	Max-Delbrück Lecture: Prof. Dr. Ulla Bonas (University of Halle-Wittenberg): <i>How bacterial plant pathogens manipulate the host</i>
18:30	End of Day 1

## Tuesday April 5<sup>th</sup>, 2022

Online Main Stage:

09:00	<b>Plenary Session V Bacterial Infections II</b> Chair: Prof. Simone Bergmann, TU Braunschweig
09:00	Talk 1: Prof. Marcus Fulde (FU Berlin): <i>Random mutagenesis to define new virulence determinants in streptococcal pathogenesis</i>
09:30	Talk 2: Prof. Jan-Willem Veening (University of Lausanne): <i>Systems and synthetic biology approaches to study pneumococcal pathogenesis</i>
10:00	Coffee Break, Visit of Industrial Exhibition, Visit of Posters
10:30	<b>Plenary Session VI: Neuroinflammation</b> Chair: Prof. Martin Korte, TU Braunschweig
10:30	Talk 1: Prof. Michael Heneka (DZNE Bonn): <i>Microglia in Alzheimer's disease: the good, the bad and the ugly</i>
11:00	Talk 2: Lotje de Witte (School of Medicine, Mount Sinai): <i>The effects of common genetic variants on the microglia transcriptome</i>
11:15	Talk 3: Dr. Shirin Hosseini (TU Braunschweig): <i>Respiratory viral infection, neuroinflammation and associated neurodegeneration</i>
11:30	Talk 4: selected from submitted abstracts
11:45	Poster Flash Presentation (Session II)
12.15	Lunch Break, Visit of Industrial Exhibition, Visit of Posters
13:00	Poster Presentation (Session II)

14:00	<b>Plenary Session VII: Viral Infections</b> Chair: Prof. Melanie Brinkmann, TU Braunschweig & Prof. Klaus Schughart, HZI Braunschweig
14:00	Talk 1: Prof. Trine Mogensen (Aarhus University): <i>Deciphering the genetics and immunology of enhanced susceptibility to viral infections in the brain</i>
14:30	Talk 2: Prof. Adam Grundhoff (HPI Hamburg): <i>Genetic and Epigenetic Determinants of Herpesvirus Latency</i>
15:00	Talk 3: Prof. Xavier Montgutelli (Pasteur Institute): <i>Exploring host-virus interactions in genetically diverse Collaborative Cross mice</i>
15:30	Talk 4: selected from submitted abstracts
15:45	Talk 5: selected from submitted abstracts
16:00	Coffee Break, Visit of Industrial Exhibition, Visit of Posters
16:30	<b>Plenary Session VIII: Fungal Infections</b> Chair: Prof. Gerhard Braus, University of Göttingen
16:30	Talk 1: Prof. Axel Brakhage (Hans-Knöll-Institute Jena): <i>The opportunistic human fungal pathogen Aspergillus fumigatus</i>
17:00	Talk 2: Prof. André Fleissner (TU Braunschweig): <i>Conserved cell-cell signaling mechanisms in filamentous fungi</i>
17:30	Talk 3: selected from submitted abstracts
17:45	Closing Remarks and Poster Prizes
18:00	End of Conference

### Seminar room: (separate)

*Poster viewing and visit of industrial exhibition during the entire conference*

*Meet the Prof, Young Scientist Career Counseling on the second conference day (April 5th 2022)*

**Details and free registration at:**  
<https://gfg.itubs.de>