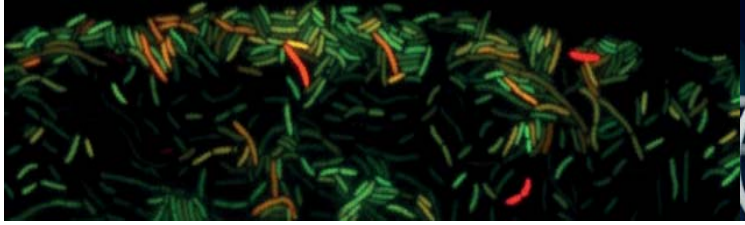


The students of the Marburg School of Microbiology and the Interfaculty Graduate School of Infection Biology and Microbiology (IGIM) Tübingen welcome you to Marburg. This year's **‚Spotlight Meeting'** is being held at the Max Planck Institute (MPI) for Terrestrial Microbiology. The MPI was founded in 1991 and aims to understand how microorganisms function at the molecular, cellular and community levels.

The **Marburg School of Microbiology** offers an internationally visible PhD programme with excellent research and training possibilities for young scientists. It is located at the Philipps-Universität Marburg and the study program is designed in close collaboration with the LOEWE Center for Synthetic Microbiology (SYNMIKRO) and the Collaborative Research Center 987.

The **Collaborative Research Center 987** at the Philipps-Universität Marburg comprises 17 research groups which contribute to scientific progress in all areas of modern Microbiology, including Microbial Ecology and Physiology, Cellular and Molecular Microbiology, Microbial Biochemistry, Structural Biology and Systems and Synthetic Biology.

The **IGIM** Tübingen provides a comprehensive and multi-disciplinary structured education for more than 120 PhD- and MD-students from all research groups in all fields of Microbiology and Infection Biology of the Eberhard Karls University Tübingen. The IGIM supports research training within the Cluster of Excellence Controlling Microbes to Fight Infections (CMFI), the Tübingen-branch of the German Center for Infection Research (DZIF), the Transregional Collaborative Research Centers 156 and 261, and the Research Training Group 1708.

EBERHARD KARLS UNIVERSITÄT TÜBINGEN

SFB 987

DFG

Philipps Universität Marburg

synmikro

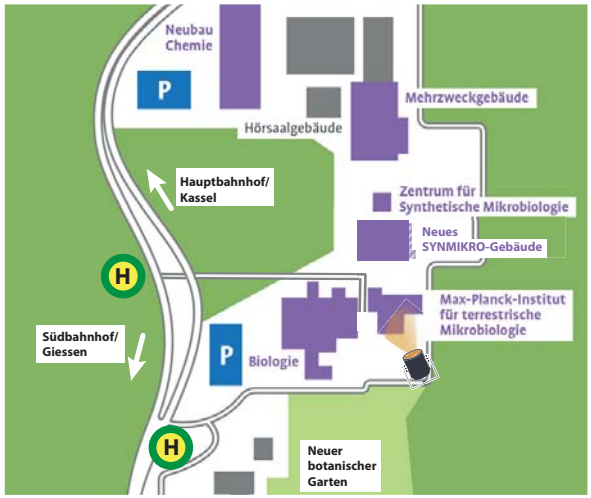
Attendance is free but registration is required!

Please register online at **www.sfb987.de**

Registration closes on October 28, 2019

For more information please contact us:
karin.sievers@synmikro. uni-marburg.de
Phone: +49-6421 28 24401

Address of the venue:
Max Planck Institute for
Terrestrial Microbiology
Karl-von-Frisch-Straße 10
35043 Marburg



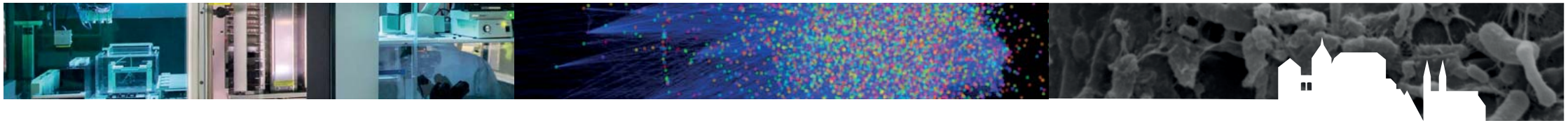
Spotlight on Methods in Microbiology

Organised by the

marburg school of microbiology

November 12th & 13th, 2019

Venue:
Max Planck Institute for
Terrestrial Microbiology
Karl-von-Frisch-Straße 10
35043 Marburg



Tuesday, November 12th

13:00 - 13:45 **Registration**

13:45 - 14:00 **Opening remarks**
by speakers of the Graduate Schools Marburg & Tübingen

Session 1 - „Advanced Fluorescent Microscopy“

14:00 - 14:30 **Ralf Jungmann**
(MPI of Biochemistry, Martinsried)
DNA-Paint/Microscopy/Super-resolution microscopy

14:30 - 15:00 **Ulrike Endesfelder**
(MPI for Terrestrial Microbiology, Marburg)
Visualizing the inner life of microbes by single-molecule localization microscopy

„Industry Session“

15:00 - 15:30 **Marco Schwieder**
(NanoTemper, München)
The NanoTemper Story
- and how you can become a part of it

15:30 - 17:00 Coffee Break and Poster Session

Presentations of methods used by the students of SFB 987 and SFB 766

Session 2 - „Computational Biology“

17:00 - 17:30 **Aleksej Zelezniak**
(Chalmers University of Technology, Sweden)
Finding links in genotype-Phenotype path: Predicting metabolic phenotypes by means of data, networks and artificial inteligence

17:30 - 18:00 **Mattia Zampieri**
(ETH Zürich, Switzerland)
Metabolomics and Bioinformatics

18:30 - 19:00 **Sean M. Murray**
(MPI for Terrestrial Microbiology, Marburg)
Modelling spatial organisation within bacterial cells

Dinner

Wednesday, November 13th

Session 3 - „Structual Biology“

9:00 - 9:30 **Angelo Gallo**
(University of Warwick, UK)
Protein-Protein Interaction in Natural Product Biosynthesis

9:30 - 10:00 **Bernhard Spengler**
(University Giessen)
High resolution in mass and space: Current methodology in mass spectrometry imaging

10:00 - 10:30 **Boris Maček**
(University of Tübingen)
Quantitative proteomics in analysis of bacterial persistence

10:30 - 11:00 **Sander Smits**
(University Düsseldorf)
Unstanding resistance against lantibiotics: a structural approach

11:00 - 11:30 **Coffee break**

Session 4 - „From Organisms to Mechanisms“

11:30 - 12:00 **Günter Kramer**
(University Heidelberg)
Co-translational folding and assembly of proteins

12:30 - 13:00 **Gary Sawers**
(University Halle)
How Streptomyces coelicolor deals with oxygen limitation: Anaerobic nitrate respiration by an obligate aerobe

13:30 - 14:00 **Thorsten Mascher**
(Technical University Dresden)
Cannibalism in Bacillus subtilis: From peptide toxins to coordinated population response

14:30 - 15:00 **Daniel N. Wilson**
(University Hamburg)
The ABC of Antibiotic Resistance

Nach David S. Goodsell & RCSB PDB