

## Speakers (alphabetical):

**Gerhard Braus**, University of Goettingen, Molecular Microbiology and Genetics: Fungal adhesion and defence systems.

**Jürgen Engel**, Professor Emeritus, Biocenter-Basel: Biomimicrization and extracellular matrix.

**Mary Goldring**, Hospital of Special Surgery, Cornell University, New York, Lab of Cartilage Biology: Transcription factors in bone and cartilage.

**Steven Goldring**, Hospital of Special Surgery, Cornell University, New York, Lab of Cartilage Biology: to be announced.

**Matthew Hoffman**, NIH, NIDCR, USA, Molecular Biology: Development and regeneration of the salivary glands.

**Michael Kessel**, MPI of Biophysical Chemistry, Goettingen, Developmental Biology: Cell cycle and development.

**Mogens Kilian**, University of Aarhus, Denmark, Biomedicine, Bacteriology: Host-parasite relationships in the oral cavity.

**Steven Johnsen**, University of Goettingen, Molecular Biology: Epigenetics in connective tissue.

**Jeff Miner**, Washington University School of Medicine St. Louis, Matrix Biology: Basement membranes and disease.

**Matyas Mink**, University of Szeged, Hungary, Biochemistry: Collagen Type IV in drosophila.

**Nicolai Miosge**, University of Goettingen, Tissue Regeneration and Oral Biology: Stem cells and regeneration.

**Efrat Monsonego-Ornan**, Hebrew University, Israel, Biochemistry and Nutrition: Mechanotransduction and primary cilia.

**Michael Oellerich**, Lower Saxony Distinguished Professor, University of Goettingen, Clinical Chemistry: Perspectives on personalized molecular diagnostics.

**Mats Paulsson**, Dean of Research, University of Koeln, Biochemistry: Perifibrillar proteins, collagens and fibril interactions in the extracellular matrix.

**Vicki Rosen**, Harvard Dental School, USA, Developmental Biology: BMP signaling in health and disease.

**Wenyuan Shi**, UCLA School of Dentistry, Los Angeles, Microbiology: Molecular mechanisms of bacteria.

**Meike Stiesch**, MHH Hannover, Prosthodontics: Antibacterial surfaces.

**Jörg Stülke**, University of Goettingen, Microbiology: CDAMP in bacteria.

**Armin Vollmer**, Straumann: A company investing in science.

**Roza Zakany**, University of Debrecen, Hungary, Cell Biology: Cartilage homeostasis and ion channels.

## Methods lectures:

**Gertrude Bunt**, MOLCI, Goettingen: Microscopy Techniques for Biomedical Research.

**Meik Dilcher**, University of Goettingen, Microbiology: Next generation sequencing.

**Elke Oetjen**, University of Hamburg, Pharmacology: Protein-protein interactions.

For more information and later online application form see the homepage: <http://www.miosge.med.uni-goettingen.de/de/>

## Organizers:

Prof. Dr. med. Nicolai Miosge, Tissue Regeneration and Oral Biology, Goettingen

## Summer school format:

There will be 15 to 20 participants, meeting at the first two days to give their short talks and discuss them with experienced mentors. The next 2 days, 8 -10 expert lecturers each day will be present and discussed. There will be plenty of free time for informal discussions. The summer school takes place at a conference site 20 min outside from Goettingen in a forest (Waldschlösschen, [www.waldschloesschen.org](http://www.waldschloesschen.org)). Single rooms with bathrooms will be provided.

Travel: Flight to Hannover or Frankfurt airport and a train ride to Goettingen (2 hours). You will be picked up at the train station for the transfer to the conference site (20 min car drive).

## contact:

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The University of Goettingen created the Goettingen Spirit Summer School Program and we have the honor to be further funded by the DAAD:

## The Goettingen Spirit Summer School "Biological Research in Dentistry"

will take place from the 08<sup>th</sup> of October 2017 – 13<sup>th</sup> of October 2017 in Goettingen, Germany.

The "Goettingen spirit" is a term coined by the mathematician Richard Courant. While immigrated to New York, he had a small group of excellent students around him to discuss cutting edge science at eye level with them, something he had already done in Goettingen before. In this sense, we have gathered outstanding scientists to discuss modern cell and molecular biology approaches to research in oral biology, including periodontitis, caries, TMD and aspects of regenerative medicine. We invite you to apply to this good opportunity to get to learn about scientific advances in oral biology and presenting your own research activities.

We encourage Ph.D. students and Post docs (no longer than 3 years post Ph.D.) from all over the world working or interested in biological research in dentistry to apply. The conference, food and accommodation is free of charge, you have to pay for your travel expenses. However, you can also apply for a travel grant (up to 750 Euros), if you can explain in a letter, that you would have no other chances to participate and that there is no funding available at your home institution.

### Condition for the application:

- Ph.D. student or Post doc (no longer than 3 years post Ph.D.)
- Interested in biological research in dentistry (molecular and cell biological approaches)
- Submit a CV (one page) and an abstract of your research project (max. 250 words)
- If you attend, you will need to prepare a 10 min oral presentation

Many thanks for sponsoring to:

**DAAD** Deutscher Akademischer Austausch Dienst  
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simply doing more

### Scientific program:

The summer school „Biological Research in Dentistry“ focuses on modern cell and molecular biology research in dentistry. This approach will open the different disciplines in dentistry for more medical-biological research strategies. The summer school is structured to give impulses towards a basic science research perspective in dentistry. We, therefore, have gathered international scientist, not only from the field of dentistry, to introduce their excellent research and point out its qualified integration into the field of dentistry. Furthermore, basic research tool will be highlighted. In general, the scientific topics will crystalize around two main foci: microbiology and regenerative medicine. In particular, transcription factors and their role in disease, signaling pathways, dental plaque and biofilm, molecular mechanisms of oral pathogens, as well as stem cells and tissue regeneration will be addressed.