WELCOME NOTE

Dear colleagues,

It is our great pleasure to cordially invite you to the 7th European Conference on Prokaryotic and Fungal Genomics – ProkaGENOMICS 2017. This meeting will take place from 19–22 September 2017 in Göttingen/Germany, and focus on the presentation of the latest results in the rapidly growing field of prokaryotic and fungal functional genomics.

The ProkaGENOMICS conference series has been launched already in 2003 when the genomics revolution was still in its infancy. At present, the increasing power of high-throughput technologies drives research in microbiology. The OMICS-technologies have become the new mantra in functional microbial genomics, allowing the simultaneous examination of thousands of genes, transcripts, proteins, or metabolites. These powerful tools yielded completely new scientific objectives, e.g. monitoring microbial community dynamics as well as comprehensive cellular processes under a wide range of different conditions. ProkaGENOMICS 2017 will address this challenging field of microbiology.

The main conference topics will be:
- Towards Biotechnology – Metabolic Modeling & Genome/ Enzyme Engineering
- Systems and Synthetic Biology
- Omics at its best – Global Gene Regulation & Proteome Dynamics
- MetaOmics & Microbial Ecosystems
- Infectiongenomics & Host Microbe Interplay
- Microbial Evolution, Population Genomics & Epidemiology
- Microbiome Host Interaction
- Functional Phage Genomics

A panel of nationally and internationally well-recognized speakers, both from Germany and abroad, will present and discuss the latest developments in the above-mentioned fields. To participate actively in the conference, we cordially invite you to submit your abstracts for an oral or a poster presentation.

We are looking forward to welcoming you in Göttingen!
With our best regards,

Rolf Daniel, Conference Chair
Michael Hecker, Conference Chair
Alfred Pühler, Conference Chair

CALL FOR ABSTRACTS

We cordially invite you to submit your abstract (max. length 2,000 characters) online at www.prokagenomics.org for the following topics. Abstracts must be submitted in English no later than 27 April, 2017.

Topics
- Towards Biotechnology – Metabolic Modeling & Genome/ Enzyme Engineering
- Systems and Synthetic Biology
- Omics at its best – Global Gene Regulation & Proteome Dynamics
- MetaOmics & Microbial Ecosystems
- Infectiongenomics & Host Microbe Interplay
- Microbial Evolution, Population Genomics & Epidemiology
- Microbiome Host Interaction
- Functional Phage Genomics

An international review panel will evaluate all abstracts according to scientific content and suitability for ProkaGENOMICS 2017. A limited number will be accepted for oral presentations.
All abstract authors will be informed automatically as soon as the procedure of publication has been determined.

Registration
Registration for the conference is required and available online at www.prokagenomics.org.

Registration Fees

	Early Bird Registration until 30 June	Late Registration from 1 July
Member NZMG Student	110 EUR	130 EUR
Non-Member Student	135 EUR	155 EUR
Member NZMG Professional	250 EUR	290 EUR
Non-Member Professional	325 EUR	365 EUR
Industry	425 EUR	460 EUR

Social Program

Welcome Reception, conference participant incl.	
Welcome Reception, accompanying person	20 EUR
Social Evening/Conference Dinner	45 EUR

GENERAL INFORMATION

Date
19–22 September 2017

Venue
University of Göttingen
Central Lecture Hall (Zentrales Hörsaalgebäude)
Platz der Göttinger Sieben 5
37073 Göttingen/Germany

Conference Website
www.prokagenomics.org

Conference Chairs
Prof. Dr. Rolf Daniel
Institute of Microbiology and Genetics
Georg-August University Göttingen (Germany)

Prof. Dr. Michael Hecker
Institute for Microbiology
Ernst-Moritz-Arndt University Greifswald (Germany)

Prof. Dr. Alfred Pühler
Center for Biotechnology (CeBiTec)
Bielefeld University (Germany)

Conference Language
The official conference language is English.

Conference Organization
Conventus Congressmanagement & Marketing GmbH
Claudia Tonn/Justus Appelt
Carl-Pulfrich-Straße 1 • 07745 Jena (Germany)
Phone +49 3641 31 16-311 • Fax +49 3641 31 16-243
prokagenomics@conventus.de • www.conventus.de

Scientific Sponsors

Industrial Exhibition
The conference will be accompanied by a spezialized industrial exhibition. Interested companies are invited to request information on the exhibition modalities from the conference organization Conventus.

ProkaGENOMICS 2017

7th European Conference on Prokaryotic and Fungal Genomics

CALL FOR ABSTRACTS & PRELIMINARY PROGRAM

19–22 September 2017
GÖTTINGEN • GERMANY

www.prokagenomics.org

WELCOME TO GÖTTINGEN

Göttingen is a university town in Lower Saxony, Germany. The origins of Göttingen lay in a village called Gutingi. This village was first mentioned in a document in 953. The city was founded between 1150 and 1200 to the northwest of this village and adopted its name. In medieval times the city was a member of the Hanseatic League and hence a wealthy town.

Today, Göttingen is famous for its old university (Georgia Augusta, or „Georg-August-Universität“), which was founded in 1737 and became the most visited university of Europe. Some of the most famous mathematicians in history, Carl Friedrich Gauss, Bernhard Riemann and David Hilbert, were professors in Göttingen.

The cultural heritage of the university town Göttingen has been influenced by scientists, scholars, Nobel-prize winners and creative artists who have left their visible marks in the town.

The historical city centre, enclosed by the remains of the medieval town wall, is home to magnificent churches and half-timbered houses dating from the 14th to the 18th century. Most of today's urban life takes place within the old town walls. Göttingen is known for its short distances between all places of interest. Göttingen's landmark is the „Gänseliesel“ on the fountain at the market square in front of the Old Town Hall. This art nouveau statue figures a girl herding geese. It is a tradition that all new doctoral graduates from the University kiss the cheeks of the statue after passing their examination. This makes her „the most kissed girl in the world“.

The rich cultural life of Göttingen, with theatres, orchestras, museums and large events evokes interest well beyond the city boundaries. Visitors appreciate Göttingen's accessibility by road or train and the cosmopolitan atmosphere of this lively city, created by students and people from all over the world alike.
For further information on Göttingen please visit www.goettingen.de.

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SCIENTIFIC PROGRAM • TUESDAY, 19 SEPTEMBER

16.00–21.00	Registration
18.00–18.30	Opening Remarks
18.30–19.30	Opening Lecture: Identifying emerging pathogens with population genomics Julian Parkhill, United Kingdom
19.30	Welcome Reception

SCIENTIFIC PROGRAM • WEDNESDAY, 20 SEPTEMBER

Systems & Synthetic Biology

08.30	Tba Csaba Pal, Hungary
08.55	*Oral presentation selected from abstracts*
09.15	Transcription factor-based biosensors – always good for a surprise Julia Frunzke, Germany
09.40	*Oral presentation selected from abstracts*
10.00	Tba
10.25–11.00	Coffee Break

Towards Biotechnology – Metabolic Modeling & Genome/Enzyme Engineering

11.00	Microbial solvent formation revisited by comparative genome analysis Anja Poehlein, Germany
11.25	*Oral presentation selected from abstracts*
11.45	Tba Karl-Erich Jaeger, Germany
12.10	*Oral presentation selected from abstracts*
12.30	Protein engineering of a novel halohydrin dehalogenase Anett Schallmey, Germany
12.55–13.30	Lunch Break
13.30–15.00	Poster Session I

Omics at its best – Global Gene Regulation & Proteome Dynamics

15.00	Tba Cynthia Sharma, Germany
15.25	*Oral presentation selected from abstracts*
15.45	Regulatory network controlling sporulation and stress response in the enteropathogen *Clostridium difficile* Isabelle Martin-Verstraete, France
16.10	*Oral presentation selected from abstracts*
16.30	How to make a fruiting body – comparative genomics and transcriptomics in filamentous fungi Minou Nowrousian, Germany
16.55–17.25	Coffee Break

SCIENTIFIC PROGRAM • WEDNESDAY, 20 SEPTEMBER

Functional Phage Genomics

17.25	Tba Martha Clokie, United Kingdom
17.50	Oral presentation selected from abstracts
18.10	Tba David Prangishvili, France
18.35	Oral presentation selected from abstracts
18.55	End of 1st day

SCIENTIFIC PROGRAM • THURSDAY, 21 SEPTEMBER

MetaOmics & Microbial Ecosystems

08.30	Tba Pascal Simonet, France
08.55	*Oral presentation selected from abstracts*
09.15	Mining and expressing biosynthetic gene clusters from soil metagenomes Mark Liles, United States
09.40	*Oral presentation selected from abstracts*
10.00	Tba Dagmar Woebken, Austria
10.25–11.00	Coffee Break

Infectiongenomics & Host Microbe Interplay

11.00	Fungus-host interactions during *Candida* colonisation and infection Alistair Brown, United Kingdom
11.25	*Oral presentation selected from abstracts*
11.45	Tba Sebastian Suerbaum, Germany
12.10	*Oral presentation selected from abstracts*
12.30	Genomic approaches to invasive fungal infections Oliver Kurzai, Germany
12.55–13.30	Lunch Break
13.30–15.00	Poster Session II

Infectiongenomics & Host Microbe Interplay

15.00	Pathogen heterogeneity in host tissue: impact on disease progression and treatment Dirk Bumann, Switzerland
15.25	*Oral presentation selected from abstracts*
15.45	An OMICs view of physiology and pathophysiology of *Staphylococcus aureus* Uwe Völker, Germany
16.10	*Oral presentation selected from abstracts*
16.30	Tba Peter Zipfel, Germany
16.55–17.25	Coffee Break

SCIENTIFIC PROGRAM • THURSDAY, 21 SEPTEMBER

Microbial Evolution, Population Genomics & Epidemiology

17.25	Bacterial within-host evolution and implications for transmission analysis Xavier Didelot, United Kingdom
17.50	*Oral presentation selected from abstracts*
18.10	Bacterial pathogens from population biology to genomic epidemiology Sylvain Brisse, France
18.35	*Oral presentation selected from abstracts*
18.55	End of 2nd day
19.30	Conference Dinner

SCIENTIFIC PROGRAM • FRIDAY, 22 SEPTEMBER

MetaOmics & Microbial Ecosystems

08.30	Metagenomic analysis for crop production Trevor Charles, Canada
08.55	*Oral presentation selected from abstracts*
09.15	Tba Sara Sjöling, Sweden
09.40	*Oral presentation selected from abstracts*
10.00	Driving forces of microbial community structure, diversity and function in the marine realm Bernd Wemheuer, Australia
10.25–11.00	Coffee Break

Omics at its best – Global Gene Regulation & Proteome Dynamics

11.00	Tba Rotem Sorek, Israel
11.25	*Oral presentation selected from abstracts*
11.45	Lessons learned from deep proteomics and proteogenomics of model bacteria Boris Macek, Germany
12.10	*Oral presentation selected from abstracts*
12.30	Lunch Break

Microbiome Host Interaction

13.05	*Oral presentation selected from abstracts*
13.30	Tba Cornelius Schmidtke, Germany
13.55	*Oral presentation selected from abstracts*
14.15	Tba Peer Bork, Germany
14.40	Closing remarks
14.50	End of conference