

Symposium

The Biology and Biotechnological Application
of Archaea

&

Re-Opening of the
Archaea Fermentation Facility

26./27. September 2019



1:30 pm Welcome Dina Grohmann

SESSION I: MOLECULAR BIOLOGY OF ARCHAEA

1:35 pm	Archaeal RNA stabilization mechanisms	Lennart Randau (Marburg)
1:55 pm	Life and death of ribosomes in archaea	Sébastien Ferreira-Cerca (Regensburg)
2:15 pm	Archaeal proteins and NMR	Remco Sprangers (Regensburg)
2:35 pm	Small but effective	Ruth Schmitz-Streit (Kiel)
2:55 pm	Coffee break	

SESSION II: ARCHAEL CELL BIOLOGY

3:25 pm	Vital role of the S-Layer from <i>S. solfataricus</i> revealed by CRISPR-mediated gene silencing	Christa Schleper (Wien)
3:45 pm	The archaellum: How archaea swim	Sonja-Verena Albers (Freiburg)
4:05 pm	Gas vesicle formation in Haloarchaea	Felicitas Pfeifer (Darmstadt)

RE-OPENING OF THE ARCHAEA FERMENTATION FACILITY

4:30 pm	KEYNOTE LECTURE/FESTVORTRAG	KARL OTTO STETTER
	"Kultivierung des Unmöglichen" - Entwicklung des Biotechnikums an der Universität Regensburg	
5:05 pm	Welcome by the Vice President of the University of Regensburg, the Dean of the Faculty of Biology and Preclinical Medicine and the head of the Department of Microbiology	Prof. Dr. Nikolaus Korber Prof. Dr. Inga Neumann Prof. Dr. Dina Grohmann
5:45 pm	Re-Opening and tour of the Archaea Fermentation Facility	
6:45 pm	Dinner (Lichthof Neubau Biologie)	

SESSION III: ARCHAEOAL METABOLISM AND ENZYMES

8:30 am	Energy conservation in methanogenic archaea	Uwe Deppenmeier (Bonn)
8:50 am	Aromatic compounds in archaea: rather a building block than a carbon and energy source?	Matthias Boll (Freiburg)
9:10 am	Diversity of autotrophic CO ₂ fixation pathways in thermophiles	Ivan Berg (Münster)
9:30 am	Relationship of catalysis and active site loop dynamics in a ($\beta\alpha$) ₈ -barrel enzyme from <i>S. solfataricus</i>	Reinhard Sterner (Regensburg)
9:50 am	<i>Sulfolobus</i> - From genome to function and application	Bettina Siebers (Duisburg - Essen)
10:10 am	Scientific concept changes obtained with halophilic archaea	Jörg Soppa (Frankfurt)
10:30 am	Coffee break	

SESSION IV: DIVERSITY OF ARCHAEA AND ARCHAEOAL VIRUSES

11:00 am	KEYNOTE LECTURE On the archaeal origin of eukaryotes	THIJS ETTEMA (Wageningen)
11:35 am	Archaeal parasites in the continental subsurface	Alexander Probst (Duisburg - Essen)
11:55 am	Archaeal virology: An archaeal plasmid goes viral	Susanne Erdmann (Bremen)
12:15 pm	From extremophiles to omnipresent microorganisms: archaea in the context of the (human) microbiome	Christine Moissl-Eichinger (Graz)
12:40 pm	Concluding Remarks	Dina Grohmann



Wishing you a happy and successful
Archaea centre
Reopening
Symposium 2019,
as well as continued success
for all your research endeavours.

New England Biolabs
– Enzymes & Reagents for:

Sample Preparation for **Next-Gen-Seq** Genome Editing
Genomics Synthetic Biology **DNA**
qPCR Amplification **PCR** Modification
Glycobiology Cloning **RNA** Cellular Analysis **Competent Cells**
RNA Protein Expression Epigenetics Gene Expression
Nucleic Acid Purification **CRISPR/Cas**