Poster presentations – „Mechanism of Gene Regulation 2014“

Author(s)	Institution	Title	Poster No.
Pinto D., Huang X., Fritz G., Mascher T.	*LMU München*	Actinobacterial Intelligence: a comprehensive survey of signal transduction in this phylum	P01
Tobias Busche, Christian Rückert, Jörn Kalinowski	*Center for Biotechnology, Bielefeld University*	ROSE: an *in vitro* RNA-seq based approach to dissect hierarchies and interactions in sigma factor regulons	P02
Jennifer Pahlke, Michael Bott, Miroslav Patek, Julia Frunzke and Tino Polen	*Forschungszentrum Jülich*	Small 6C RNA from *Corynebacterium glutamicum*	P03
Dharmender Kumar, Sheila MacIntyre	*University of Reading*	Unraveling the expression control of *Yersenia pestis* F1 antigen: a novel vaccine target against plague	P04
S. Wörner, P. Steinmetz, M. Zeltner and G. Unden	*Johannes Gutenberg-Universität Mainz*	Sensing of C4-Dicarboxylates in the DcuB/DcuS and the DctA/DcuS Sensor complexes	P05
A. Kretzschmar, S. Nilkens and G. Unden	*Johannes Gutenberg-Universität Mainz*	The DxxxQ phosphatase motif of the sensor kinase NreB of *Staphylococcus carnosus*	P06
Marc Keppel, Eva Hentschel, Thomas Gensch and Julia Frunzke	*Forschungszentrum Jülich*	Coordinated control of heme-homeostasis by the ChrSA and HrrSA two-component systems in in *Corynebacterium glutamicum*	P07
Oliver Goldbeck, Anna M. Bartsch, Ines Ochrombel, Kay Marin, Reinhard Krämer, Gerd M. Seibold	*Universität zu Köln*	The second messenger cyclic di-AMP controls potassium uptake in *Corynebacterium glutamicum* by binding to the RCK domain of the channel protein CglK	P08
Stephanie Trauth, Ilka B. Bischofs	*Universität Heidelberg*	Fluorescent promoter reporters exhibiting minimal noise for quantitative single cell studies in *B. subtilis*	P09
Steffi Heyber, Jenny Jacobs, Elisabeth Härtig, Richard Münch, Dieter Jahn	*Technische Universität Braunschweig*	Light-dependent regulation of bacteriochlorophyll biosynthesis in the aerobic anoxygenic phototrophic bacteria *Dinoroseobacter shibae*	P10
Yvonne Engel, Safia Hemati and Helge B. Bode	*Goethe Universität Frankfurt*	Heterogeneity in the Secondary Metabolism of *Photorhabdus luminescens* and *Xenorhabdus nematophila*	P11

Eugen Pfeifer, Stefan Helfrich, Christina Krämer, Dietrich Kohlheyer, Katharina Nöh, and Julia Frunzke	*Forschungszentrum Jülich*	Spatiotemporal analysis of SOS and prophage dynamics in *Corynebacterium glutamicum* populations	P12
Stefan Helfrich, Christina Krämer, Eugen Pfeifer, Wolfgang Wiechert, Julia Frunzke, Dietrich Kohlheyer, and Katharina Nöh	*Forschungszentrum Jülich*	Microfluidics as platform for the spatiotemporal analysis of bacterial populations at single-cell level	P13
Lydia Segler and Ute Lechner	*Martin-Luther Universität Halle-Wittenberg*	Transcriptional Regulation of Reductive Dehalogenase-Encoding Genes in *Dehalococcoides mccartyi* by a MarR-Type Regulator	P14
Nora Kuhlmann, Dimitar P. Petrov, Alexander W. Henrich, Gerd M. Seibold	*Universität zu Köln*	PTS controls maltose metabolism in *Corynebacterium glutamicum*: Identification of *malP*-transcription as target of PTS-dependent regulation	P15
Anja Heinz, Nicole Pasian, Marie-Luise Hoffmann, Falk Kalamorz	*Martin-Luther Universität Halle-Wittenberg*	Revisiting the Expression of the *atp* Operon in *Escherichia coli*	P16
Hannes Breddermann and Karin Schnetz	*Universität zu Köln*	Feedback control of *leuO* encoding a pleiotropic regulator and H-NS antagonist in *Escherichia coli*	P17
N. Brühl, A. Uhde, C. Matano, V. F. Wendisch, R. Krämer, G.M. Seibold	*Universität zu Köln*	The transcriptional repressor NanR controls sialic acid catabolism in *Corynebacterium glutamicum*	P18
Meike Baumgart , Kerstin Luder, Shipra Grover, Gurdyal S Besra, Julia Frunzke	*Forschungszentrum Jülich*	IpsA, a novel LacI-type regulator required for cell wall biosynthesis in Corynebacteria and Mycobacteria	P19
Joana Simen, Michael Löffler, Alexander Broicher, Andreas Freund and Ralf Takors	*Universität Stuttgart*	Modeling Regulation of Carbon and Nitrogen Metabolism in Large-Scale Processes with *Escherichia coli*	P20

Timo Fettweiss, Kathrin Emmi Scholz, Martin Diener, Karl-Erich Jaeger and Ulrich Krauss	*Heinrich-Heine-Universität Düsseldorf*	Light, Oxygen, Voltage (LOV) photoreceptor signalling probed by the design of artificial light-gated histidine kinases	P21
Raphael Freiherr von Boeselager, Regina Mahr, Stefan Helfrich, Katharina Nöh, Dietrich Kohlheyer, Julia Frunzke	*Forschungszentrum Jülich*	High-throughput screening of a fluorescent reporter library for novel metabolite biosensors	P22
Christina Krämer, Eugen Pfeifer, Andrea Rocker, Stefan Helfrich, Katharina Nöh, Anton Meinhart, Wolfgang Wiechert, Julia Frunzke, Dietrich Kohlheyer	*Forschungszentrum Jülich*	Bacterial Single-Cell Stress Studies in Controlled Microfluidic Environments: Enabling a Phenotypical Insight on Bacteria Tackling for Survival	P23