

BACELL 2016

Tuesday 26th April 2016

09.00 – 09.10 *Welcome address*

Session 1 : Regulation and gene expression

09.10 – 09.25 : **Kambiz Morabbi Heravi**, Stuttgart, DE

Functional characterization of arabinogalactan type I utilization components in *Bacillus subtilis* and regulation of their encoding genes

09.30 – 09.45 : **Veronika Smith**, Oslo, NO

A novel pleiotropic transcriptional regulator affecting motility and toxicity in the *Bacillus cereus* group

09.50 – 10.05 : **Leyla Slamti**, Jouy-en-Josas, FR

CodY supervises cell-cell communication in the *Bacillus cereus* group

10.10 – 10.25 : **Sarah Guiziou**, Montpellier, FR

An open access part toolbox to tune genetic expression in *Bacillus subtilis*

10.30 – 10.45 : **Niclas Nordholt**, Amsterdam, NL

Effects of growth-rate on gene expression in *Bacillus subtilis*

10.50 – 11.20 *Coffee break*

Session 2 : Transcription and RNA world

11.20 – 11.35 : **Rocio Aguilar Suarez**, Groningen, NL

The small regulatory RNA S313 of *Bacillus subtilis* is a positive regulator of the EfeUOB iron transport

11.40 – 11.55 : **Mirjam Boonstra**, Groningen, NL

Analyses of the competent and non-competent subpopulations of *B. subtilis* reveal *yhfW* and ncRNAs as novel players in regulation.

12.00 – 12.15 : **Magali Leroy**, Paris, FR

Role of a new endoribonuclease YacP in selective mRNA turnover in *Bacillus subtilis*

12.20 – 12.35 : **Libor Krásný**, Prague, CZ

Non-canonical transcription initiation

12.40 – 14.00 *Lunch*

Session 3 : Biofilms and social behavior

14.00 – 14.15 : **Harald Putzer**, Paris, FR

Who is growing in a *Bacillus subtilis* swarming community ?

14.20 – 14.35 : **Sigal Ben-Yehuda**, Jerusalem, IL

Early developmental program shapes colony morphology in *B. subtilis*

14.40 – 14.55 : **Ines Mandic Mulec**, Ljubljana, SL

Ups and down of *Bacillus subtilis* social life

15.00 – 15.15 : **Akos T Kovacs**, Jena, DE

Spatial segregation in *Bacillus subtilis* biofilm allows the emergence of growth yield strategists

15.20 – 15.35 : **Aurélie Baliarda**, Jouy-en-Josas, FR

Robustness and interspecies interactions in a *Bacillus cereus*-containing, 4-species biofilm

15.40 – 15.55 : **Madeleine Opitz**, München, DE

Physical and material properties of *Bacillus subtilis* biofilms

16.00 – 16.20 *Coffee break*

Session 4 : Cell division and cytoskeleton

16.20 – 16.35 : **Jordan Delisle**, Marseille, FR

Unraveling new gene function using high-throughput single-cell fluorescence microscopy and chromosome dynamics in *Bacillus subtilis*.

16.40 – 16.55 : **Kevin Devine**, Dublin, IR

The WalRK two-component system in *Bacillus subtilis* plays a role in promoting exit of cells from the non-growing state.

17.00 – 17.15 : **Dirk-Jan Scheffers**, Groningen, NL

Pentapeptide-rich peptidoglycan at the *Bacillus subtilis* cell-division site

17.20 – 17.35 : **Arnaud Chastanet**, Jouy-en-Josas, FR

Beyond the helical world: a super-resolution approach reveals sub-diffraction limited structures of the actin-like cytoskeletal protein MreB in *B. subtilis*.

17.40 – 18.00 *Break*

18.00 – 20.00 **Poster Session** / Wine and Cheese

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Session 5 : Cell envelope

09.00 – 09.15 : **Jeanine Rismondo**, Wernigerode, DE

Suppression of the heat sensitive $\Delta gpsB$ phenotype by mutations affecting the initial step of peptidoglycan biosynthesis in *Listeria monocytogenes*

09.20 – 09.35 : **Jad Sassine**, Newcastle, UK

Interactions and activities of penicillin-binding proteins from *Bacillus subtilis*

09.40 – 09.55 : **Fabian Commichau**, Göttingen, DE

Role of the essential signalling molecule cyclic di-AMP in maintaining the protective cell envelope

10.00 – 10.15 : **Peter Graumann**, Marburg, DE

Temporal and 2D organization of membrane proteins in *Bacillus subtilis*

10.20 – 10.40 *Coffee break*

Session 6 : Stress, toxins and sporulation

10.40 – 10.55 : **Gert Bange**, Marburg, DE

Are you stressed? Synthesis and regulation of the nutritional alarmone (p)ppGpp in *B. subtilis*

11.00 – 11.15 : **Erhard Bremer**, Marburg, DE

Life in biofilms: a RemA-mediated link between matrix production and osmotic stress response systems of *Bacillus subtilis*

11.20 – 11.35 : **Jara Radeck**, Dresden, DE

Interdependence between different layers of the cell envelope stress response in *Bacillus subtilis*

11.40 – 11.55 : **Monika Ehling-Schulz**, Vienna, AU

Cereulide biosynthesis in emetic *Bacillus cereus*: An unusual mega enzyme complex forming unusual depsipeptide toxins

12.00 – 12.15 : **Imrich Barak**, Bratislava, SK

Spore coat protein interactions, self-assembly characteristics and structures

12.20 – 12.35 : **Ivan Mijakovic**, Gothenburg, SE

What your age tells about you: phylostratigraphy reveals functions of "y" genes

12.40 – 14.00 *Lunch*

Session 7 : Biotechnology focus I

14.00 – 14.15 : **Daniel Reuß**, Göttingen, DE

On the the way to Minibacillus: Design and multi-omics analysis of a genome-minimized *Bacillus subtilis* cell

14.20 – 14.35 : **Maria C. Alvarez**, Andenne, BE

Towards the definitive understanding of industrial enzyme production by *Bacillus subtilis* through consolidated and novel tools: a transcriptomic perspective

14.40 – 14.55 : **Tjeerd van Rij**, Delft, NL

Characterisation of synthetic promoters by FACS-seq in *B. subtilis*

15.00 – 15.15 : **Ken-ichi Yoshida**, Kobe, JP

Possible common regulators of *ytsJ* for malic enzyme and *gndA* for 6-phosphogluconate dehydrogenase in *Bacillus subtilis*

15.20 – 15.35 : **Zheng Guan**, Groningen, NL

Non-targeted metabolomics indicates the potential of *Bacillus subtilis* for terpenoid biosynthesis

15.40 – 15.55 : **Lisa Buddrus**, Bath, UK

Engineering a pyruvate decarboxylase for use in the thermophile *Geobacillus thermoglucosidasius*

16.00 – 16.20 *Coffee break*

Session 8 : Biotechnology focus II

16.20 – 16.35 : **Yongqiang Gao**, Amsterdam, NL

SepF overexpression arrests cell division in *Bacillus subtilis*

16.40 – 16.55 : **Tina N. Ploss**, Darmstadt, DE

Homogeneity and Heterogeneity in amylase production by *Bacillus subtilis* under different growth conditions

17.00 – 17.15 : **Pia Skoczinski**, Juelich, DE

Single amino acid substitutions affect production and secretion of lipase by *Bacillus subtilis*

17.20 – 17.35 : **Philippe Jacques**, Lille, FR

Limiting factors of kurstakin biosynthesis

17.40 – 17.55 : **Karin Bjerre**, Hoersholm, DK

Bacillus subtilis as in situ amino acid provider in pigs

18.00 – 18.15 : **Jörg Stülke**, Göttingen, DE

Subti: A suite of databases and websites for functional genome annotation of *Bacillus subtilis*

18.20 – 19.00 *Break*

19.00 – 21.30 *Gala Dinner*