

19th International Conference on Bacillus and related Gram-positive bacteria

Sunday	June 11, 2017		
	14:00 - 15:00	Registration	
	14:45-15:00	Welcome remarks	
Session 1	Sporulation	Chair: Sigal Ben-Yehuda	
	15:00 - 15:25	Richard Losick	Stochasticity and cell-fate determination during sporulation in <i>B. subtilis</i>
	15:30 - 15:40	Alper Mutlu	Phenotypic memory links entry and exit from dormancy by a spore quantity-
	15:45 - 15:55	Patrick Eichenberger	Inferring the Bacillus subtilis global gene regulation network
	16:00 - 16:10	Anthony Wilkinson	Structures of SpoIIE Reveal a Regulatory Switch Shared across the PPC2
	16:15 - 16:25	David Roberts	Polar segregation of the chromosome origins during sporulation in Bacillus subtilis
	16:30 - 16:40	Anna Grela	Functional analysis of GerAA subunit of Bacillus subtilis GerA germination receptor
	16:45 - 16:55	Eammon Riley	Defining the Metabolic Landscape of the Bacillus subtilis
	17:00	Welcome reception	
Monday	June 12, 2017		
Session 2	Cell biology I	Chair: Dirk-Jan Scheffers	
	08:30 - 08:55	Jan Willem Veening	Identification of a unique cell cycle regulator in <i>Streptococcus pneumoniae</i> by <i>en masse</i> GFP localization and CRISPRi phenotyping
	09:00 - 09:10	Kumaran Ramamurthi	An essential Staphylococcus aureus cell division protein regulates both FtsZ assembly and disassembly
	09:15 - 09:25	Elhanan Tzipilevich	Acquisition of phage sensitivity by bacteria through exchange of phage receptors
	09:30 - 09:40	Lauren Cowley	Evidence for different rates in the mechanisms of recombination in Pneumoccal
	09:45 - 09:55	Nada Labajova	Clostridial Min system – possible mechanism of functioning during cell division
	10:00 - 10:10	Kenneth Seistrup	Lysis induced by membrane depolarisation is caused by MreB-linked mis-
	10:15 - 10:45	Coffee break	

Session 3	Biotechnology	Chair: Oscar	
	10:45 - 11:10	Daniel Lopez	Lipid rafts: From structural and functional characterization to biotechnological application
	11:15 - 11:25	Marcus Price	CRISPR-Cas9 mediated engineering of industrially relevant <i>Bacillus subtilis</i> strains
	11:30 - 11:40	Rocio Aguilar Suarez	Less is more: towards development of a genome-reduced <i>Bacillus</i> as cell factory for vaccine production
	11:45 - 11:55	Marta Irla	Methanol-based production γ -aminobutyric acid in <i>B. methanolicus</i> MGA3
	12:00 - 12:10	Rita Cruz	A comparative study of native and heterologous enzyme production in <i>Bacillus</i>
	12:30 - 14:00	Lunch	
Session 4	New techno., Syst. & Synth.	Chair: Fabian Commichau	
	14:00 - 14:25	Carol Gross	High throughput phenotyping in <i>Bacillus subtilis</i>
	14:30 - 14:40	Christopher Zschiedrich	Large scale identification of evolutionary mechanism that facilitate protein-protein interactions
	14:45 - 14:55	Leendert Hamoen	Construction of a minimal divisome reveals robustness of cell division
	15:00 - 15:10	Etienne Dervyn	Tailoring <i>Bacillus subtilis</i> -derived chassis for biotechnology applications
	15:15 - 15:25	Jan Martinussen	Abrupt glucose depletion in <i>Lactococcus lactis</i> is resulting in an immediate
	15:30 - 15:40	Eugen Peifer	Adaptive laboratory evolution of <i>Corynebacterium glutamicum</i> towards higher
	15:45 - 16:15	Coffee break	
Session 5	Cell biology II	Chair: Stephane Aymerich	
	16:15 - 16:25	Sven Halbedel	Peptidoglycan N-deacetylation is jointly controlled by PgdA, PBP A1 and GpsB in <i>Listeria monocytogenes</i>
	16:30 - 16:40	Rick Lewis	Exploring the relationship between penicillin binding proteins and the cell cycle regulator, GpsB
	16:45 - 16:55	Peter Graumann	<i>B. subtilis</i> chromosomes are segregated in a directed diffusion-like manner, and are condensed by several SMC condensation centres per cell half
	17:00 - 17:10	Koichi Yano	cis-acting rDNA act as a loading site for Smc-ScpAB during nucleoid separation in <i>Bacillus subtilis</i>
	17:15 - 17:25	Marc Bramkamp	A dynamin-like protein involved in bacterial cell membrane surveillance under environmental stress

	Poster session		
	17:30 - 19:30		
Tuesday	June 13, 2017		
Session 6	Signal transduction	Chair: Ivan Mijakovic	
	08:30 - 08:40	Alan Koh	Understanding the activation mechanism of the histidine kinase
	08:45 - 08:55	Nathalie Declerck	Monitoring transcriptional adaptation in live <i>Bacillus subtilis</i> cells using two-photon fluorescence fluctuation microscopy
	09:00 - 09:10	Jan Gundlach	Cyclic di-AMP controls potassium homeostasis in <i>Bacillus subtilis</i>
	09:15 - 09:25	Sylvie Nessler	Structural Insights into Streptococcal Competence Regulation by the Cell-to-Cell Communication System ComRS
	09:30 - 09:40	Johann Mignolet	Ubiquitous rewiring of transcriptional control in streptococci: lesson from competence and predation coupling in <i>Streptococcus salivarius</i>
	09:45 - 09:55	Craig Ellermeier	RsiV is a bacterial receptor for lysozyme
	10:00 - 10:10	Christopher Rao	DNA sensing in <i>Bacillus subtilis</i>
	10:15 - 10:45	Coffee break	
Session 7	RNA biology	Chair: Christiane Wolz	
	10:45 - 11:10	Pascale Romby	Several regulatory RNAs in <i>Staphylococcus aureus</i> link stress responses, metabolism and virulence factor synthesis
	11:15 - 11:25	Ruben Atilho	A widespread riboswitch class regulates guanidine metabolism in bacteria
	11:30 - 11:40	Emma Denham	Towards the in vivo RNA interactome of the Gram positive model organism <i>Bacillus subtilis</i>
	11:45 - 11:55	Libor Krasny	The Torpedo Effect in <i>Bacillus subtilis</i> : RNase J1 Resolves Stalled Transcription Complexes
	12:00 - 12:10	Ciaran Condon	Rae1/YacP, a new endoribonuclease involved in ribosome-dependent mRNA decay in <i>B. subtilis</i>
	12:30 - 14:00	Lunch	

Session 8	Metabolism	Chair: Lars Hederstedt	
	14:00 - 14:10	Miriam Dormeyer	A devil in disguise: a metabolic enzyme converts a transcriptional activator into a repressor
	14:15 - 14:25	Lianet Noda-Garcia	Mapping of chance and necessity in protein sequence evolution in complex bacterial
	14:30 - 14:40	Georg Fritz	Making and breaking the wall – a systems approach to cell wall homeostasis in <i>Bacillus subtilis</i>
	14:45 - 14:55	Christoph Mayer	Peptidoglycan recycling in Gram-positive bacteria is crucial for survival
	15:00 - 15:10	Amy Bottomley	We Are What We Eat: Identifying a Regulatory Crosstalk between Central Carbon Metabolism
	15:15 - 15:25	Ines Grilo	Glucosaminidase-DNA interaction affects the peptidoglycan hydrolytic activity of
	15:30 - 15:40	Daisuke Seo	Purification and characterization of ferredoxin-NADPH oxidoreductase paralogue YcgT in gram-
	15:45 - 16:15	Coffee break	
Session 9	Lifestyles I -Stress	Chair: Susanne Gebhard	
	16:15 - 16:40	Jade Wang	Regulation of Stress Response and Homeostasis by (p)ppGpp in <i>Bacillus subtilis</i>
	16:45 - 16:55	Gerd Bange	Structural and functional insights into the (p)ppGpp response of <i>B. subtilis</i>
	17:00 - 17:10	Jose A. Lemos	The association of metal homeostasis and (p)ppGpp regulation in the pathophysiology of
	17:15 - 17:25	Alexander Reder	New insights into the general stress response of <i>Bacillus subtilis</i> - the SigB modulon
	Poster session		
	17:30 - 19:30		
Wednesday June 14, 2017			
Session 10	Lifestyles II - Biofilm	Chair: Ilka Bischofs	
	08:30 - 08:40	Polonca Stefanic	Kin discrimination foretells <i>B. subtilis</i> lifestyles
	08:45 - 08:55	Nozomu Obana	Heterogeneity and biofilm morphology in <i>Clostridium perfringens</i>
	09:00 - 09:10	Sofia Arnaouteli	Bifunctionality of a biofilm matrix protein controlled by redox state
	09:15 - 09:25	Anna Dragos	Collapse of genetic division of labor and evolution of autonomy in pellicle biofilms
	09:30 - 09:40	Tamara Hoffmann	Small but essential: the activator protein RemA links biofilm formation and osmostress
	09:45 - 09:55	Harald Putzer	Swarmer cells lead, multiply and generate a trail of quiescent descendants
	10:00 - 10:10	Pascale Beauregard	Biofilm and bacillibactin are essential to iron homeostasis in <i>Bacillus subtilis</i>

	10:15 - 10:45	Coffee break			
Session 11	DNA replication + recombination/ Interactions with other organisms	Chair: Kevin Devine			
	10:45 - 10:55	Mary Anderson	Suppression of DNA replication overinitiation through lowered levels of the replicative helicase,		
	11:00 - 11:10	Juan Alonso	Bacillus subtilis MutS Modulates non-polar recombination between Divergent DNA Sequences		
	11:15 - 11:25	Paul Straight	Antibiotic stimulation of a Bacillus subtilis motile response		
	11:30 - 11:40	Audrey Labarde	Remodelling of the Bacillus subtilis cytoplasm spatial organization for efficient bacteriophage		
	11:45 - 11:55	Elisabeth Grohmann	Molecular insights in conjugative resistance transfer among Gram-positive pathogens		
	12:00 - 12:10	Javier Pizarro-Cerda	A bacteriocin from epidemic Listeria strains alters the host intestinal microbiota to favor infection		
	12:30 - 14:00	Lunch			
Session 12a	The cereus group	Chair: Terry Koehler		Session 12b	SubtiWiki workshop
	14:00 - 14:10	Leyla Slamti	Quorum sensing coordinates virulence, necrotrophism and sporulation of <i>Bacillus thuringiensis</i>	14.00 - 15.40	Bingyao Zhu
	14:15 - 14:25	Anne-Brit Kolsto	The putative drug efflux systems of the Bacillus cereus group		
	14:30 - 14:40	Naomi Bier	The Influence of the PTS on Virulence Gene Expression in B.		
	14:45 - 14:55	Sandrine Poncet	Hanks-kinases dependent phosphorylation of Bacillus cereus global gene regulator CodY deeply impacts physiology and virulence		
	15:00 - 15:10	Monika Ehling-Schulz	Food Bacteria Interplay: Concerted action of extrinsic and extrinsic factors gearing toxin synthesis in emetic Bacillus cereus		
	15:15 - 15:25	Joaquin Caro-Astorga	The molecular machinery implicated in multicellularity in Bacillus cereus		

	15:30 - 15:40	David Sychantha	Structural and mechanistic basis for the O-acetylation of secondary cell wall polysaccharide required for the proper assembly of cell walls in the <i>Bacillus cereus</i> group of human pathogens	
	15:45 - 16:15	Coffee break		Coffee break
Session 13a	Pathogenicity/ fighting infection	Chair: Nancy Freitag		SubtiWiki workshop
	16:15 - 16:25	Tarek Msadek	Bacteriophage mobility and pathogenesis in <i>Staphylococcus aureus</i>	16.15 - 17.25
	16:30 - 16:40	Van Loi Vu	Real-time imaging of the bacillithiol redox potential in <i>Staphylococcus aureus</i>	Bingyao Zhu
	16:45 - 16:55	Laty Cahoon	A comparison of <i>Listeria monocytogenes</i> secretion chaperones PrsA1 and PrsA2 reveals molecular features required for virulence	
	17:00 - 17:10	Jörgen Johansson	Structural and genetic basis for activation and repression of the virulence activator PrfA in <i>Listeria monocytogenes</i>	
	17:15 - 17:25	Emanuel Hanski	Integration of host and bacterial signals controls group A streptococcal bacteriocins production	
	19:00 - 23:00	Conference dinner		
Thursday June 15, 2017				
Session 14	Lifestyles III	Chair: Ulrike Mäder		
	08:30 - 08:40	Sabine Brantl	Type I toxin-antitoxin systems from <i>Bacillus subtilis</i>	
	08:45 - 08:55	Michael Prunty	Distinct PhoPR-mediated responses in <i>B. subtilis</i> subspecies <i>subtilis</i> and <i>spizizenii</i> stem from	
	09:00 - 09:10	Kursad Turgay	Curbing protein synthesis is important for the concerted heat shock response of <i>Bacillus subtilis</i>	
	09:15 - 09:25	Thorsten Mascher	Three's Company: Cannibalism Toxins and the Corresponding Envelope Stress Responses in	
	09:30 - 09:40	Daniel Rojas	Induction of the Spx regulon under cell wall stress requires both an ECF sigma factor and an anti-	
	09:45 - 09:55	Elena Bidnenko	Rho-controlled pervasive transcription in regulation of <i>Bacillus subtilis</i> cells development	
	10:00 - 10:10	Ard Jan Grimbergen	Bet-hedging strategies in <i>Bacillus subtilis</i>	
	10:15 - 10:45	Coffee break		

Session 15	Organizers' favorites	Chair: Colin Harwood	
10:45 - 11:10	Emanuelle Charpentier	CRISPR-Cas9: a bacterial immune system repurposed as a transformative genome engineering technology	
11:15 - 11:25	Ken-Ichi Yoshida	Geobacillus kaustophilus Crh is independent of glucose catabolite repression but represses inositol catabolic genes	
11:30 - 11:40	Patricia Dos Santos	Mutual specificity of cysteine desulfurases and sulfur acceptors in Bacillus subtilis	
11:45 - 11:55	Richard Daniel	D-ala metabolism in Bacillus subtilis	
12:00 - 12:10	Kambiz Morabbi Heravi	The phosphoryl transfer to EIIA-deficient specific transporters of the PTS in Bacillus subtilis	
12:30 - 14:00	Lunch		