

**RESEARCH CONFERENCES**

ESF Research Conference

**Bacterial Networks 2010**

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**LIST OF ACCEPTED POSTERS – Session 1: Sunday, September 5th**

	<b>Surname</b>	<b>First Name</b>	<b>Poster Title</b>
<b>1</b>	Abel	Sören	The proteolytic degradation of a cyclic di-GMP specific phosphodiesterase controls polar development during the <i>C. crescentus</i> cell cycle
<b>2</b>	Agrebi	Rym	Coupled phylogenomic and genetic approach led to the identification and characterization of new components of the adventurous motility apparatus in <i>Myxococcus xanthus</i>
<b>3</b>	Aldridge	Phillip	The interaction dynamics of a negative feedback loop regulates flagellar number in <i>Salmonella enterica</i> serovar Typhimurium
<b>4</b>	Arnoldini	Markus	Phenotypic heterogeneity in bacterial stress responses
<b>5</b>	Baier	Antje	The Degradation of Phycobilisomes: Mediated by a Clp Protease?
<b>6</b>	Bastiat	Bénédicte	Mechanisms of activation of RpoE2, a major regulator of the general stress response in <i>Sinorhizobium meliloti</i>
<b>7</b>	Bekker	Martijn	Characterization of the third oxidase cytochrome bdII in <i>E. coli</i>
<b>8</b>	Bell	Christian	Crystal structure of CheY3 reveals a novel mode for response regulator activation
<b>9</b>	Bergmiller	Tobias	Decoupling of cell elongation and division by depletion of a conserved protein of unknown function

<b>10</b>	Birchall	Christopher	Subunit Feedback Control of Flagellar Filament Assembly in <i>Caulobacter crescentus</i>
<b>11</b>	Blokesch	Melanie	Natural competence of <i>Vibrio cholerae</i> – insight into the regulatory pathways
<b>12</b>	Boehm	Alex	Bacterial Cruise Control
<b>13</b>	Bouveret	Emmanuelle	Antagonistic regulation of <i>dgkA</i> and <i>plsB</i> genes as a key point for phospholipid synthesis control in <i>E. coli</i>
<b>14</b>	Bruand	Claude	The response to nitric oxide of the nitrogen-fixing symbiont <i>Sinorhizobium meliloti</i>
<b>15</b>	Brun	Yves	A bacterial extracellular DNA inhibits settling of motile progeny cells within a biofilm
<b>16</b>	Cameron	Andrew	Differential regulation of DNA supercoiling states in <i>Escherichia coli</i> and <i>Salmonella enterica</i>
<b>17</b>	Campos	Manuel	Molecular dynamics model of the type II secretion pilus integrating experimental distance constraints
<b>18</b>	Chastanet	Arnaud	Characterization of <i>mreB</i> and <i>mbl</i> suppressor mutants in <i>Bacillus subtilis</i>
<b>19</b>	Collier	Justine	Regulation of the <i>Caulobacter crescentus</i> cell cycle
<b>20</b>	Coulthurst	Sarah	Investigating the role of a new secretion system in <i>Serratia marcescens</i>
<b>21</b>	Francesca	Cutruzzola	Characterization of proteins from <i>Pseudomonas aeruginosa</i> involved in c-di-GMP turnover
<b>22</b>	Delany	Isabel	The <i>NadR</i> repressor mediates phase variable expression of the meningococcal <i>NadA</i> adhesin via a novel mechanism
<b>23</b>	Dempwolff	Felix	Bacterial cytoskeletal elements as building blocks for synthetic biology
<b>24</b>	Dillon	Shane	ChIP-on-chip analysis reveals a global regulatory role for <i>LeuO</i> in <i>Salmonella enterica</i> serovar Typhimurium
<b>25</b>	Di Martino	Maria Letizia	Two different forms of <i>VirF</i> protein are involved in the virulence of <i>Shigella flexneri</i>
<b>26</b>	Ditkowski	Bartosz Michal	<i>Scy</i> , cytoskeletal protein as a regulator of <i>ParA</i> filament extension in <i>Streptomyces hyphae</i>
<b>27</b>	Dupré	Elian	The unorthodox sensor kinase <i>BvgS</i> of <i>Bordetella pertussis</i> : function of the periplasmic domain and communication between the sensor modules
<b>28</b>	Eldar	Avigdor	Development of pattern formation in growing <i>B. subtilis</i>
<b>29</b>	Elías-Arnanz	Montserrat	The <i>CarD</i> - <i>TRCF</i> family of bacterial proteins
<b>30</b>	Ewers	Carolin	Structure of HAMP domains teamed up for signal transduction
<b>31</b>	Francez-Charlot	Anne	The <i>PhyR</i> - <i>NepR</i> - <i>EcfG</i> regulatory cascade in the Alphaproteobacterium <i>Methylobacterium extorquens</i>
<b>32</b>	Fried	Luitpold	Elucidation of <i>YehU</i> / <i>YehT</i> histidine kinase/response regulator signaling system in <i>Escherichia coli</i>
<b>33</b>	Frühwirth	Sebastian	Identification of cryptochrome-dependent signalling pathways in <i>Rhodobacter sphaeroides</i> – Genome wide analyses under blue light and singlet oxygen stress conditions

## Session 2: Monday, September 6th

	Surname	First Name	Poster Title
1	Frunzke-Wennerhold	Julia	Control of iron homeostasis in <i>Corynebacterium glutamicum</i> by a hierarchical regulatory network
2	Fumeaux	Coralie	Identification and characterization of an additional transcriptional regulator of the <i>Caulobacter</i> developmental program
3	Galinier	Anne	Does the conserved protein YvcK connect morphogenesis and carbon metabolism in <i>Bacillus subtilis</i> ?
4	Golden	James	<i>Anabaena</i> PCC 7120 sigma factor E is required for expression of heterocyst-specific genes
5	Gonzalez	Diego	Functions of DNA methylation in transcriptional regulation in <i>Caulobacter crescentus</i>
6	Gonzalez Domenech	Carmen Maria	Genome-Scale Metabolic reconstructions of different strains of <i>Blattabacterium</i> , primary endosymbiont of cockroaches
7	Gora	Kasia	A cell type-specific protein-protein interaction modulates transcriptional activity of a master regulator in <i>Caulobacter crescentus</i>
8	Görke	Boris	Control of small RNA GlmY and GlmZ expression by the two-component system GlrR/GlrK
9	Große	Karin	Interactions between PTS transporters and the chemotaxis system in <i>E. coli</i>
10	Haneburger	Ina Maria Suntka	Structure-based analysis of the pH-driven activation of the membrane-integrated transcriptional activator CadC of <i>Escherichia Coli</i>
11	Harwood	Caroline	The Wsp signal transduction system in <i>Pseudomonas aeruginosa</i>
12	Hayward	Nicholas	The Physiology of Hypo osmotic Shock in <i>Escherichia coli</i>
13	Hempel	Antje Marie	DivIVA and the regulation of apical growth and hyphal branching in <i>Streptomyces coelicolor</i>
14	Hobley	Laura	The roles of cyclic-di-GMP in the lifecycle of the predatory bacterium <i>Bdellovibrio bacteriovorus</i>
15	Hughes	Kelly	Molecular ruler mechanism of flagellar hook-length control
16	Ihalin	Riikka	Interleukin-1beta increases the biofilm formation of <i>Aggregatibacter actinomycetemcomitans</i> and binds to bacterial histone-like protein HU
17	Jahn	Susan	A role for EIIANtr in the control of overflow metabolism in <i>Escherichia coli</i>
18	Kovacs	Akos T	Rok, the regulator of competence, contributes to macrocolony development of <i>Bacillus subtilis</i>
19	Kühn	Juliane	Bactofilins: a new class of cytoskeletal proteins
20	Kumar	Mohit	Protein Diffusion in Bacteria
21	Lehmann	Robert	Metabolic Oscillations in Yeast - Rhythm or Clock
22	Leiba	Jade Manon	The <i>Mycobacterium tuberculosis</i> Transcriptional Repressor (EthR) Activity is Inhibited by Phosphorylation on a Single Serine Residue
23	Levet	Mélanie	Role of GGDEF/EAL domain proteins in <i>Legionella pneumophila</i>
24	Lindenberg	Sandra	Cyclic-di-GMP signaling in the transcriptional control of the biofilm regulator CsgD in <i>Escherichia coli</i>

<b>25</b>	Maier	Berenike	Controlling bacterial surface motility
<b>26</b>	Malone	Jacob	The YfiBNR cyclic-di-GMP signaling system mediates small colony variant formation and persistence in <i>Pseudomonas aeruginosa</i>
<b>27</b>	Mascher	Thorsten	Distribution, Specificity and Insulation in Gram-positive Peptide Antibiotic Sensing and Detoxification Modules
<b>28</b>	Masloboeva	Nadezda	Role of extracytoplasmic function sigma factor EcfG in stress response and symbiotic efficiency in <i>Bradyrhizobium japonicum</i>
<b>29</b>	Merino	Luis Miguel	Transcriptional regulators recognize specific DNA sequences
<b>30</b>	Mikuláss	Kata	Plant Peptides Govern Terminal Differentiation of Bacteria in Symbiosis
<b>31</b>	Miller	Samantha	Probing the closed state of the E.coli small mechanosensitive channel, MscS: Chemical cross-linking in the carboxy-terminal domain
<b>32</b>	Molier	Noel	Involvement of Hsp100/Clp proteases in the motility of <i>Bacillus subtilis</i>
<b>33</b>	Molle	Virginie	The Mycobacterium tuberculosis Transcriptional Repressor (EthR) Activity is Inhibited by Phosphorylation on a Single Serine Residue
<b>34</b>	Nadal Jimenez	Pol	PvdQ acylases control multiple networks in <i>Pseudomonas</i> spp.
<b>35</b>	Ng	Wai-Leung	Probing bacterial transmembrane histidine kinase receptor-ligand interactions with natural and synthetic molecules in <i>Vibrio</i> CqsS/CqsA quorum-sensing systems

## Session 3: Tuesday, September 7th

	Surname	First Name	Poster Title
1	Nichols	Robert	Chemical-Genomic Profiling of the E. coli Deletion Library Provides New Insights into Cellular Networks and Stress Responses
2	Nikolic	Nela	Metabolic phenotypes of isogenic bacteria growing in carbon-limited, mixed-substrate environments
3	Nováková	Linda	Ser/Thr protein kinase StkP plays role in regulation of cell division in pneumococcus
4	Ocampo	Paolo	Environmental stress and the evolutionary trajectory of antibiotic resistance mutations
5	Pérez Mendoza	Daniel	c-di-GMP regulates a new Type I secretion system involved in Pectobacterium atrosepticum binding to the plant
6	Quebatte	Maxime	Regulation of Bartonella henselae adaptive response during endothelial cell infection
7	Rediger	Anne	6S RNA of cyanobacteria – an old issue became green
8	Richards	David	Modelling DivIVA-mediated branching in Streptomyces
9	Rigel	Nathan	Genetic interactions between the genes encoding the OMP assembly factors BamD and BamE
10	Rodionov	Dmitry	Comparative genomic approach to reconstruction of microbial transcriptional regulatory networks
11	Ryan	Robert Patrick	BDSF (cis-2-dodecenoic acid) signalling and virulence in the cystic fibrosis respiratory pathogen Burkholderia cenocepacia
12	Scheu	Patrick	Oligomerisation and Localisation of the sensor histidine kinase DcuS in E. coli
13	Schnetz	Karin	Interference of Transcription and Repression by H-Ns
14	Silva-Rocha	Rafael	Implementation of a robust OR NOT (ORN) logic gate in bacteria by rewiring the SOS system of Escherichia coli
15	Specht	Mara	Helicobacter pylori possesses four coiled coil rich proteins (Ccrp) that affect cell shape and form extended filamentous structures
16	Stanley-Wall	Nicola	Post-translational control of Bacillus subtilis biofilm formation mediated by tyrosine phosphorylation
17	Steiner	Samuel	c-di-GMP and ppGpp: Two bacterial second messengers antagonistically control an Escherichia coli surface adhesin
18	Theunissen	Daniel	A generic gene regulatory network reconstruction method: application to Lactococcus lactis MG1363
19	Turgay	Kürsad	General and regulatory proteolysis in Bacillus subtilis
20	Typas	Athanasios	High-throughput interaction profiling provides mechanistic insights into gene function and network organization in E. coli
21	Viala	Julie	Adaptation of Salmonella to its host vacuolar environment
22	Weber	Marc	Stochastic effects in the precision of the quorum sensing switch in Vibrio fischeri
23	Werner	John	Identification of a regulator of MreB assembly through a high-throughput imaging screen
24	Willey	Joanne	Multi-tier regulation of the streptomycete morphogenetic peptide SapB

<b>25</b>	Wolanski	Marcin	AdpA, a key transcriptional activator of developmental genes regulates chromosome replication in <i>Streptomyces coelicolor</i>
<b>26</b>	Wolf	Johannes	Role of the sigma factor RpoS in the adaptation of <i>E.coli</i> to different growth and stress conditions
<b>27</b>	Yamaguchi	Yoshihiro	The Role of Toxin-antitoxin Systems in Biofilm Formation in <i>E. coli</i>
<b>28</b>	Yousef	Kaveh	A theoretical model of the dynamics of the cellular level of the bacterial second messenger c-di-GMP