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**POSTER SESSION 1 – Monday, June 15<sup>th</sup> 5:30 – 7:30**

**Pathogenesis**

- P1...** **Characterization of a Serine/Threonine Kinase Involved in Virulence of *Staphylococcus aureus*.** Michel Debarbouille, Shaynoor Dramsi, Olivier Dussurget, Marie-Anne Nahori, Elisabeth Vaganay, Alain Cozzone, Tarek Msadek and Bertrand Duclos
- P2...** **Role of a serine/threonine kinase in virulence of *Staphylococcus aureus*.** Kellie Burnside, Kelsea A Jewell, James E Connelly and Lakshmi Rajagopal
- P3...** **Multiple Two-Component Systems Modulate Alkali Generation in Oral Streptococci in Response to Environmental Stresses.** Yaling Liu, and Robert A. Burne
- P4...** ***vanRS* and *vanB* contribute to vancomycin adaptation even in a susceptible genetic background.** Ribeiro T.C., Gilmore, M.S. and Lopes, M. de F.
- P5...** **The LysR-type transcriptional regulator (LTTR) CpsY is important for *Streptococcus iniae* intracellular survival and dissemination to the brain.** Jonathan P. Allen and Melody N. Neely
- P6...** **Roles of minor pilin subunits in serotype M1 *Streptococcus pyogenes* strain SF370.** Jonathan Pointon, Wendy Smith, Emily Abbot, Mark Banfield and Michael A. Kehoe
- P7...** **The BslA adhesin mediates attachment to brain endothelium and contributes to the pathogenesis of Anthrax meningitis.** Celia M. Ebrahimi, Justin W. Kern, Tamsin R. Sheen, Nina M. van Sorge, Olaf Schneewind and Kelly S. Doran
- P8...** **Pneumococcal pili are composed of protofilaments exposing adhesive clusters of RrgA.** M.Hilleringmann, F.Giusti, B.C. Baudner, V.Masignani, A. Covacci, R.Rappuoli, M.A. Barocchi, I.Ferlenghi
- P9...** **The Group B Streptococcal pili proteins PilA and PilB elicit an innate immune response in brain endothelium.** Michael A. Gurney, Anirban Banerjee, Christopher Carlos, Norman Zhu, Tom Huxford, and Kelly S. Doran
- P10...** ***B. anthracis* WXG100-like proteins modulate host immune responses.** Gabriella Garufi, Emily Butler and Dominique Missiakas
- P11...** **BevA, a *B. anthracis* pXO1-encoded secreted protein, is required for intracellular growth in macrophages.** Gabriella Garufi and Dominique Missiakas
- P12...** **Invasion of brain microvascular endothelial cells and penetration of the blood-brain barrier by *Staphylococcus aureus*.** Tamsin R. Sheen, Celia M. Ebrahimi, Ida H. Hiemstra, Kate Wall, Ian R. Siboo, Paul M. Sullam and Kelly S. Doran
- P13...** **Anti-inflammatory effect of commensal *Streptococcus salivarius* on human intestinal epithelial cells.** Ghalia Kaci, Omar Lakhdari, Joël Doré, S. Dusko Ehrlich, Pierre Renault, Hervé Blottière and Christine Delorme
- P14...** **Neuraminidase A from *Streptococcus pneumoniae* activates neutrophil signaling pathways in brain endothelium and promotes neutrophil chemotaxis.** Anirban Banerjee, Nina M. vanSorge, Satoshi Uchiyama, Tim J. Mitchell, Kelly S. Doran
- P15...** **Membrane damage elicits an immunomodulatory program in *Staphylococcus aureus*.** Ahmed S. Attia, Victor J. Torres, Devin L. Stauff, and Eric P. Skaar
- P16...** **Activation and clotting of fibrinogen by Strep M1 protein and its implication in Streptococcal Toxic Shock Syndrome.** Pauline Macheboeuf, Annelies Zinkernagel, Victor Nizet, Partho Ghosh
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- P17...** **Value of cultures before treating acne: impact of nasal carriage of staphylococcus in Acne.** Hessam H. Kashani, Morvarid S. Kavosh, Farahnaz Fatemi Naieni, Farzin Khorvash, Tahmineh Narimani and Ziba Farajzadegan
- P18...** **Type II fatty acid synthesis is not a suitable antibiotic target for Gram-positive pathogens.** Sophie Brinster, Gilles Lamberet, Bart Staels, Patrick Trieu-Cuot, Alexandra Gruss, and Claire Poyart
- P19...** **Role of the LuxS/AI-2 System in the Metabolism and Virulence of *Enterococcus faecalis*.** Frédéric Gaspar, Teresa Crespo, and Fátima Lopes
- P20...** ***B. anthracis*-derived nitric oxide is essential for pathogen virulence.** Konstantin Shatalin, Ivan Gusarov, Ekaterina Avetissova, Yelena Shatalina, Evgeny Nudler
- P21...** **The proteolytic degradation of toxins by *Bacillus anthracis* extracellular proteases is a determining factor controlling toxin protein accumulation.** Olga M. Pomerantseva, Andrei P. Pomerantsev, Andrea M. Keane-Myers and Stephen H. Leppla
- P22...** **PapR-independent PlcR regulation of cholesterol binding cytolysins of *Bacillus cereus* group.** Andrei P. Pomerantsev, Olga M. Pomerantseva, Andrea M. Keane-Myers and Stephen H. Leppla
- P23...** **Characterization of Protective Antigens from *Streptococcus pyogenes* and their Contribution to Virulence.** Andrea Fritzer, Bernd Kreikemeyer, Alexander von Gabain, Eszter Nagy, Ulrike Samen and Andreas L. Meinke
- P24...** **The *Staphylococcus aureus* Response to Unsaturated Long Chain Free Fatty Acids: Survival Mechanisms and Virulence Implications.** John G. Kenny, Deborah Ward, Elisabet Josefsson, Ing-Marie Jonsson, Jason Hinds, Huw H Rees, Jodi A Lindsay, Andrej Tarkowski and Malcolm J. Horsburgh
- P25...** **Investigation of Acquired Resistance against Bacteriophages in *Streptococcus mutans*.** M. Anca Serbanescu, M. Dilani Senadheera, Alexander Yakunin, Jan R. van der Ploeg and Dennis G. Cvitkovitch

## Cell Division/Cell Structure/Mobile Elements

- P26...** **Structure and function of LtaS, a lipo-teichoic acid synthase from *B. subtilis*.** Jon Marles-Wright, Kathrin Schirner, Jeff Errington, Richard J Lewis
- P27...** **Proton motive force plays a fundamental role in regulation and maintenance of bacterial morphology.** Henrik Strahl, Leendert W. Hamoen
- P28...** **Stress Responsive Dynamics of phospholipids in *Staphylococcus aureus*.** Meng-Ju Melody Tsai, Toshiko Ohta, Hideo Hayashi and Kazuya Morikawa
- P29...** **Identification and Characterization of Genes crucial to Weak Organic Acid-Resistance and Likely Involved in Membrane Biosynthesis in *Bacillus subtilis*.** Alex Ter Beek, Johan van Beilen, Christoph J. Blohmke, Anna Zakrzewska, and Stanley Brul
- P30...** **PdaC (YjeA) deacetylates the acetyl groups of *N*-acetylglucosamine in chitin oligomers and *N*-acetylmuramic acid in peptidoglycan - Biochemical approach for identification of PdaC in *Bacillus subtilis*.** Kaori Kobayashi, Takeko Kodama, Tatsuya Fukushima, Katsutoshi Ara, Katsuya Ozaki, and Junichi Sekiguchi
- P31...** **Involvement of DnaA in the organization of *B. subtilis* nucleoid structure.** Hajime Okumura, Mika Yoshimura, Shu Ishikawa and Naotake Ogasawara
- P32...** **Regulation of cell wall morphogenesis in *Bacillus subtilis* by the redundant action of MreB isoforms.** Yoshikazu Kawai and Jeff Errington
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- P33...** ***Escherichia coli* MinC and MinD can influence cell division in *Bacillus subtilis*.** Nada Pavlendova, Katarina Muchova, Imrich Barak
- P34...** **Identification of a new *Bacillus subtilis* cell division gene.** Katarina Surdova, Dennis Claessen, Jeff Errington and Leendert W. Hamoen
- P35...** **Dynamics of the divisome assembly in *Bacillus subtilis*.** Pamela Gamba, Jan-Willem Veening, Leendert Hamoen and Richard Daniel
- P36...** **Role of SepF in bacterial cell division.** Muhammet Erkam Gundogdu
- P37...** **SecA is required for membrane targeting of the cell division protein DivIVA.** Sven Halbedel, Reinhard Breitling, and Leendert W. Hamoen
- P38...** **Temperature and productivity direct mycosubtilin antibiotic biosynthesis toward the anteisoC-17 branched isoform.** Patrick Fickers, Valérie Leclère, Jean-Sébastien Guez, Max Bechet, Françoise Coucheney, Christian Dambon, Philippe Jacques and Bernard Joris
- P39...** **An intrinsic editing activity in a family X DNA polymerase.** Benito Baños, José M. Lázaro, Laurentino Villar, Margarita Salas and Miguel de Vega

## Secretion

- P40...** **Crystal structure and activity of *Bacillus subtilis* YoaJ (EXLX1), a bacterial expansin that promotes root colonization.** Frédéric Kerff, Ana Amoroso, Raphaël Herman, Eric Sauvage, Stéphanie Petrella, Patrice Filee, Paulette Charlier, Akira Tabuchi, Nikolaos Nikolaidis, Daniel J. Cosgrove, Bernard Joris
- P41...** **The Unique and Central Role of *Bacillus anthracis* HtrA for the Response to Various Stress Stimuli and its Global Effect on the Bacterial Secretome.** Theodor Chittlaru, Orit Gat, Sagit Sela-Abramovich, Galia Zaide, Izhak Inbar, Moshe Leitner, Ofer Cohen and Avigdor Shafferman
- P42...** **Asp3 mediates multiple protein-protein interactions within the accessory Sec system of *Streptococcus gordonii* that are essential for secretion of the serine-rich glycoprotein, GspB.** R. Seepersaud B.A. Bensing and P. M. Sullam
- P43...** **Substrate specificity of the *Bacillus anthracis* accessory protein translocase.** Susanne Pohl, Krzysztof Gizynski, Stephen G. Addinall, Georg Homuth, Ulrike Mäder, Pijug Sumppunn, Rachel C. Williams and Colin R. Harwood
- P44...** **Overflow of a hyper-produced secretory protein from the *Bacillus* Sec pathway into the Tat pathway for protein secretion as revealed by proteogenomics.** Thijs R.H.M. Kouwen, René van der Ploeg, Haike Antelmann, Michael Hecker, Georg Homuth, Ulrike Mäder, Jan Maarten van Dijk
- P45...** **Intricate relations between *phr* genes and expression of secreted proteins in *B. subtilis*.** Cristina Bongiorno, Anita van Kimmenade and Eugenio Ferrari

## Metabolism

- P46...** **Endogenous Nitric Oxide Protects Bacteria Against a Wide Spectrum of Antibiotics.** Ivan Gusarov, Konstantin Shatalin, Marina Starodubtseva, and Evgeny Nudler
- P47...** **Biophysical characterisations of protein:protein interactions of enzymes involved in core carbon metabolism.** Lorraine Hewitt, Joseph Newman, Cecilia Rodrigues Colin R. Harwood and Rick Lewis
- P48...** **A novel mechanism of protein lipoylation in *Bacillus subtilis*.** Natalia Martin, Quin Christensen, John E. Cronan Jr., Diego de Mendoza, and María C. Mansilla
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- P49...** **Glucose transport systems of *Listeria monocytogenes* and their influence on PrfA activity.** Francine Ake, Josef Deutscher and Eliane Milohanic
- P50...** **Phosphorylation of glycolytic enzymes in *Bacillus subtilis*.** Nico Pietack, Martin Arnold, Katrin Gronau, Dörte Becher, Michael Hecker & Jörg Stülke
- P51...** **Altered arginine and glutamate metabolism are involved in enhanced recombinant protein productivity in a reduced-genome *Bacillus subtilis* strain, MGB874.** Kenji Manabe, Yasushi Kageyama, Masatoshi Tohata, Keiji Endo, Kazuhisa Sawada, Takuya Morimoto, Tadahiro Ozawa, Katsutoshi Ara, Katsuya Ozaki, Naotake Ogasawara
- P52...** **Comparative analysis of transcription regulation metabolism of sulfur-containing amino acids in lactic acid bacteria.** Mengjin Liu, Celine Prakash, Christof Francke, Arjen Nauta, and Roland J. Siezen
- P53...** **Identification of genes involved in sugar metabolism and impact of plasmid encoded proteins on chromosomal genes in *Lactococcus lactis* IL1403 in global proteomic approach.** Tamara Aleksandrzak-Piekarczyk, Anna Koryszewska-Baginska, Magdalena Kowalczyk and Jacek Bardowski

### Industrial Applications

- P54...** **Using the site-specific recombination system of a lactococcal bacteriophage to integrate DNA in the chromosome of a *Bacillus* host.** Anne Breüner and Michael Dolberg Rasmussen
- P55...** **Resistance of *Bacillus subtilis* ATCC 6633 cell wall to degradation is a critical parameter for isolation of high quality RNA.** Jean-Sébastien Guez, François Coutte, Pierre-Marie Danzé and Philippe Jacques
- P56...** **Overexpression of *cspB* in *Bacillus subtilis* to Favour the Synthesis of the most Antifungal Mycosubtilin, the Branched *anteiso* C-17 homologue.** Jean-Sébastien Guez, Patrick Fickers, Nour-Eddine Chihib, Max Béchet and Philippe Jacques
- P57...** **Consequences of both constitutive synthesis of surfactin and disruption of plipastatin operon on phenotypic properties of *Bacillus subtilis*.** François Coutte, Valérie Leclère, Max Béchet, Jean-Sébastien Guez, Didier Lecouturier, Marlène Chollet-Imbert, Pascal Dhulster, Philippe Jacques
- P58...** **A bioconversion process to produce *scyllo*-inositol, a promising drug candidate for Alzheimer's disease.** Tetsuro Morinaga, Hitoshi Ashida, and Ken-ichi Yoshida
- P59...** **Inventory of microbial diversity in dairy processing environments reveals niche specific communities and selection for biofilm and spore forming thermophiles.** Martien P.M. Caspers, Carlo P.J.M. Brouwer, Peter Tips, Ynte de Vries, Roy C. Montijn, Roy Moezelaar, Tjakko Abee and Remco Kort
- P60...** **Acidotolerant Isoamylase Produced by *Bacillus coagulans*CF2 isolated from Egyptian soil.** Reda, A.Bayoumj, Samier,S.El-Louboudy, Magdy, A.Gad-Allah; Iman,A.Ghazy and Mostafa,A. Aboulsoud
- P61...** **Metabolic engineering of lactic acid bacilli.** Richard van Kranenburg and Mariska van Hartskamp
- P62...** **New approach for the detection of nrps genes in *Bacillus* strains by Polymerase Chain Reaction.** Arthur Tapi, M. Chollet-Imbert, B. Scherens, E. Dubois, Ph. Jacques
- P63...** **Phosphate induced DNase expression in *Bacillus subtilis*.** Jon Martin Persson, Poul Erik Pedersen, Gitte Bak Poulsen, and Michael Dolberg Rasmussen
- P64...** **Effects of Solid Substrate Fermentation on Nutrient Enrichment and Enzyme Activity of *Digitaria exilis*, L.** Oladunmoye, M.K. and Mohammed R.O.
- P65...** **Cross-talk of trans-ATs in different AT-less *pks* gene clusters.** Xiaohua Chen, Jana Moldenhauer, Joachim Vater, Jürgen Piel, and Rainer Borriss

- P66...** Indonesian lactic acid bacteria reveals homopolysaccharide production by two different *Weissella confusa* strains. [Amarila Malik](#), Maksum Radji, Slavko Kraij, Lubbert Dijkhuizen
- P67...** Automated affinity purification of recombinant proteins to generate pure and tag-free proteins. [Wei Liu](#)
- P68...** Affinity Purification of Tag-free *Shewanella oneidensis* Cystathionine Beta-lyase (MetC) Using the Profinity eXact™ Fusion-tag and Profinia™ Protein Purification Systems. Justin L Burns, Thomas DiChristina, [Wei Liu](#), and Michael Urban
- P69...** Identification of lactic acid bacteria and yeasts in kefir grains. [Magdalena Kowalczyk](#), Joanna M. Radziwill, Agnieszka Szmytkowska, and Jacek Bardowski
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**POSTER SESSION 2 – Tuesday, June 16<sup>th</sup> 5:30 – 7:30**

**Regulation**

- P70...** Group A *Streptococcus* two-component system CsrRS regulates virulence by interaction of the extracellular domain of CsrS with the human antimicrobial peptide LL-37. Hien J. Tran-Winkler, Ioannis Gryllos, Robert I. Lehrer and Michael R. Wessels
- P71...** PhoR-independent in vivo phosphorylation of cognate response regulator PhoP in *Bacillus subtilis*. Jae-Yong Park, Bindiya Kaushal, Wael R. Abdel-Fattah and F. Marion Hulett
- P72...** *Bacillus subtilis* ResD~P stimulates *phoPR* transcription from one  $\sigma^E$ - and two  $\sigma^A$ -dependent promoters, a second role for ResDE in Pho-induction. Salbi Paul and F. Marion Hulett
- P73...** Regulation of streptokinase expression by CovR/S in *Streptococcus pyogenes*: CovR acts through a single high affinity binding site. Gordon Churchward, Christopher Bates, Asiya A. Gusa, Virginia Stringer, and June R. Scott
- P74...** A hybrid sensor histidine kinase reveals insights into the mechanisms governing signal transduction in two component systems. Angel E. Dago Rodriguez, Hendrik Szurmant, James Hoch
- P75...** The Essential Nature of the WalkR Signal Transduction Pathway is Linked to its Control of Cell Wall Homeostasis in *Staphylococcus aureus*. Aurelia Delaune, Olivier Poupel, Adeline Mallet, Tarek Msadek, and Sarah Dubrac
- P76...** The GraS/GraR Two-Component System and Dermaseptin Resistance in *Staphylococcus aureus*. Melanie Falord, Pierre Joanne, Chahrazade El Amri, and Tarek Msadek
- P77...** Characterization of the TrxSR Two-Component Signal Transduction System that Activates Virulence in *Streptococcus pyogenes*. Kathryn M. Gold and Kevin S. McIver
- P78...** Transcription regulation by the transcriptional antiterminator BglG - Genome-wide analysis in Gram-positive bacteria. Tom Groot Kormelink, Jeroen Hugenholtz, Roland J. Siezen, Willem M. de Vos, Christof Francke
- P79...** Functional analysis of the role of CggR (central glycolytic gene regulator) in *Lactobacillus plantarum*. Ida Rud, Kristine Naterstad, Roger S. Bongers, Douwe Molenaar, Michiel Kleerebezem, and Lars Axelsson
- P80...** Study of transcriptional network for polysaccharide utilization operons induced by cellobiose in *Bacillus Subtilis*. Kei Asai, Yasutaro Fujita, Lii Mien Yee
- P81...** Multiple regulatory mechanisms control the expression of the xylanolytic system in *Geobacillus stearothermophilus*. Smadar Shulami, Ofer Shenker, Abraham Linc Sonenshein and Yuval Shoham
- P82...** Molecular architecture of the "stressosome," a signal integration and transduction hub. Marles-Wright J, Grant T, Delumeau O, van Duinen G, Firbank SJ, Lewis PJ, Murray JW, Newman JA, Quin MB, Race PR, Rohou A, Tichelaar W, van Heel M, Lewis RJ
- P83...** Analysis of site-1 processing in regulated intramembrane proteolysis of the RsiW anti-sigma factor of *Bacillus subtilis*. Janine Heinrich and Thomas Wiegert
- P84...** The physiological stress response to Daptomycin: Defining mechanisms of antibiotic resistance in *Bacillus subtilis*. Anna-Barbara Hachmann and John D. Helmann
- P85...** Metal stress responses in *Enterococcus faecalis*. Abrantes M.C., Kok, J. and Lopes, M. de F.
- P86...** Establishment of non-radioactive *in vitro* transcription system and comparative analysis of extracytoplasmic function  $\sigma$  factor  $\sigma^W$  among genus *Bacillus*. Koichi Yano, Hirokazu Mori, Michikazu Iida, Kei Asai
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- P87... The Effects of Toxins on Bacillithiol Levels in Gram-Positive Bacteria.** H. Upton and M. Rawat
- P88... Identification and analysis of *nonA* genes, which affect the propagation of Bacteriophage SP10 in *Bacillus Subtilis*.** Lii Mien Yee, Satoshi Matsuoka and Kei Asai
- P89... Analysis of the conserved charged residues in two flagellar stators of *Bacillus subtilis*.** Yuka Takahashi, Naoya Terahara, Yukiyo Koizumi, Masahiro Ito
- P90... The *Bacillus subtilis* iron-sparing response elements, FsrA and FbpAB, control growth and biofilm formation.** Gregory T. Smaldone, Ahmed Gaballa, and John D. Helmann
- P91... Mapping a mutation, *slx-1*, that suppresses the lethality of a *clpX* deletion in *Streptococcus pneumoniae*.** Andrew Piotrowski and Donald Morrison
- P92... Detection of hetero-oligomeric Mrp complex of Alkaliphilic *Bacillus* and analysis of the single gene deletion mutations of *mrpA* to *mrpG*.** Masato Morino, Shinsuke Natsui, Talia H. Swartz, Terry A. Krulwich, and Masahiro Ito
- P93... The *Bacillus subtilis* extracellular signaling peptide CSF inhibits ComA-controlled gene expression by two mechanisms.** Nathalia Cota, Geraldine Briceno, and Beth A. Lazazzera
- P94... Ribonucleases J1 and J2 are essential for growth and regulate mRNA stability in *Streptococcus pyogenes*.** Julia V Bugrysheva and June R Scott
- P95... Structural rearrangement accompanying ligand binding to the GAF domain of CodY from *Bacillus subtilis*.** Elena V. Blagova, Vladimir M. Levdikov, Anthony J. Wilkinson
- P96... Multiple binding sites for *Bacillus subtilis* CodY.** B.R. Belitsky and A.L. Sonenshein
- P97... Isolation and characterization of suppressor mutants of the strains carrying a single copy of rRNA operon in *Bacillus subtilis*.** Tetsuya Wada, Kenta Masuda, Kazumi Tagami, Shota Suzuki and Fujio Kawamura
- P98... Isolation and characterization of various rRNA gene mutants including antibiotic resistance mutants in *Bacillus subtilis*.** Shota Suzuki, Kazumi Tagami, Kenta Masuda, Tetsuya Wada and Fujio Kawamura
- P99... The initiation complex of *Bacillus subtilis* RNA polymerase is rapidly converted to the elongation complex in vivo.** Shu Ishikawa, Taku Oshima, Ken Kurokawa, Yoko Kusuya and Naotake Ogasawara
- P100... Role of the intracellular S-adenosylmethionine flux in initiation with an initiator versus elongator tRNAs in eubacteria.** Gautam Das, T. K. DineshKumar, K. Sheelarani, N. Sadananda Singh, Suman Thakur and Umesh Varshney
- P101... A sensor of the divisome: the essential YycG signal transducing histidine kinase.** Tatsuya Fukushima, Robyn Emmins, Richard Daniel, James A. Hoch, & Hendrik Szurmant

#### Genomics/Proteomics

- P102... Genome engineering of *Bacillus subtilis* with a reduced genome.** Yasushi Kageyama, Takuya Morimoto, Kenji Manabe, Shenghao Liu, Tadahiro Ozawa, Katsutoshi Ara, Katsuya Ozaki, Kouji Nakamura, Junichi Sekiguchi, Naotake Ogasawara
- P103... *B. subtilis* knockout strains by the National BioResource Project in Japan.** Hironori Niki, Shiomi, Daisuke
- P104... Horizontal gene transfer and gain of function in *Streptococcus thermophilus*.** Christine Delorme, Claire Th  rial, Claire Bartholdi, Pierre Renault and Eric Gu  don
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- P105...** **Strain distribution and evolution of the pilus-encoding *rfaA* islet in *S. pneumoniae*.** Alessandro Muzzi, Monica Moschioni, Michele A. Barocchi, Vega Masignani, Antonello Covacci, Rino Rappuoli and Claudio Donati
- P106...** **Whole genome microarray analysis reveals insights into the evolution of neurotoxin and flagellar genetic loci in proteolytic *Clostridium botulinum*.** Andrew T Carter, Catherine J Paul, David R Mason, Susan M Twine, Mark J Alston, Susan M Logan, John W Austin, and Michael W Peck
- P107...** **A proteomic study of the *Bacillus licheniformis* response to physical stress.** Birgit Voigt, Dörte Becher, Dirk Albrecht, Stefan Evers, Karl-Heinz Maurer, Thomas Schweder, Michael Hecker
- P108...** **The response of *Bacillus anthracis* strain UM23C1-2 to Oxidative Stress.** Wang-Yung Tu, Susanne Pohl, Kevin J. Waldron, Nigel J. Robinson, and Colin R. Harwood
- P109...** **Genomic reconstruction of transcriptional regulatory networks in the *Streptococcus* genus.** Dmitry A. Rodionov, Marat D. Kazanov, Irina A. Rodionova, Ramy Aziz, Pavel S. Novichkov, and Andrei L. Osterman
- P110...** **Comparative analysis of CcpA regulon in *Clostridium* genus.** Elena S. Novichkova, Dmitry A. Rodionov, Inna Dubchak, Pavel S. Novichkov
- P111...** **Global transcriptional analysis of *Bacillus licheniformis* reveals an overlap between heat shock and iron uptake regulons.** Allan K. Nielsen, Anne Breüner, Marcin Krzystanek, Jens T. Andersen, Thomas A. Poulsen, Peter B. Olsen, Ivan Mijakovic and Michael D. Rasmussen
- P112...** **Proteolysis during long-term glucose starvation in *Staphylococcus aureus* COL.** Stephan Michalik, Manuel Liebeke, Daniela Zühlke, Michael Lalk, Jörg Bernhardt, Ulf Gerth and Michael Hecker
- P113...** **Metabolism in *Lactobacillus sakei* – a proteomics approach.** Anette McLeod, Monique Zagorec, Kristine Naterstad & Lars Axelsson
- P114...** **Comparative Cluster Analysis of Regulatory RNAs and Proteins in *Bacillus licheniformis* DSM13.** Wollherr, A., Dietrich, S. Heinemeyer, I., Morgenstern, B., Liesegang, H.
- P115...** **BANANAS: Bacterial and Archaeal N-terminal AlterNAtive Start predictor for genes and encoded proteins.** Miaomiao Zhou, Christof Francke, Roland J Siezen
- P116...** **SubtiWiki: A community-curated annotation tool for all genes of *Bacillus subtilis*.** Lope A. Florez, Sebastian Roppel, Christoph Lammers, Arne Schmeisky, Ulrike Mäder, Leendert Hamoen, and Jörg Stülke
- P117...** **Connecting parts with processes: SubtiWiki and SubtiPathways integrate gene and pathway annotation for *B. Subtilis*.** Lope A. Florez, Arne Schmeisky, Christoph Lammers, Sebastian Roppel, and Jörg Stülke
- P118...** **New Genetic Tools for Functional Genomic Analyses in the Group A Streptococcus.** Yoann Le Breton, Pragnesh Mistry and Kevin S. Mclver
- P119...** **A Self-deleting Cre-lox Cassette for *Streptococcus pneumoniae*: CHESHIRE.** Liming Weng, I. Biswas, and Donald A. Morrison

#### Development/Sporulation/Biofilm

- P120...** **Study on the substrate recognition mechanism of a novel type of signal-transducing protease, SpoIIIGA of *Bacillus subtilis*.** Daisuke Imamura, Ritsuko Kuwana, Lee Kroos, Michael Feig, Hiromu Takamatsu, and Kazuhito Watabe
- P121...** **Sporulation during growth of a gut strain of *Bacillus subtilis*.** Cláudia Serra, and Adriano O. Henriques
- P122...** **Control of growth of the mother cell during formation of twin spores by *Bacillus subtilis*.** Panagiotis Xenopoulos and Patrick J. Piggot

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- P123...** Exploring the checkpoint response mediated by the DNA integrity protein DisA during sporulation in *Bacillus subtilis*. Yaara Oppenheimer-Shaanan and Sigal Ben-Yehuda
- P124...** Structural investigations of the cell differentiation protein SpoIIIE from *Bacillus subtilis*. Vladimir M. Levdikov, Elena V. Blagova, Andrea E. Rawlings, Darren J. Hart, Imrich Barak, and Anthony J. Wilkinson
- P125...** Incomplete chromosome transfer during sporulation. Rok Lenarcic, Leendert Hamoen, Ling Wu
- P126...** *MecA* plays a central role in the regulation of alternative developmental pathways. Peter Prepiak, Melissa De Francesca and David Dubnau
- P127...** What is the function of the *Bacillus subtilis* competence pseudopilus? Kenneth Briley Jr, Miguel J. Dias, Peter Prepiak, Jessica M. Mann and David Dubnau
- P128...** Engineering genetic competence in *Bacillus licheniformis* SJ1904. Barbara Cherry, Maria Tang, Michelle Maranta and Randy Berka
- P129...** A dual role for ComK in competence development in *Bacillus subtilis*. Miguel J. Dias and David Dubnau
- P130...** Occurrence of natural competence in *Bacillus cereus* ATCC14579. Aleksandra M. Mirończuk, Ákos T. Kovács, Oscar P. Kuipers
- T93...** The protein interactome of *Streptococcus pneumoniae* and its phage. Seesandra V. Rajagopala, Roman Häuser, Jodi Parrish, Russ L. Finley & Peter Uetz
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