

Poster Programme for Systems Biology of Microorganisms

Monday 22nd March 2010 - *Poster Session 1 and Welcome Reception (P1)* 17:40 – 19:30

- Technology - computational: new modeling approaches and model discrimination
- Technology – experimental: new high-throughput biology
- Microbial systems biology: biotechnology (including synthetic approaches)

Tuesday 23rd March 2010 - *Poster Session 2 and drinks (P2)* 17:30 – 19:00

- Bottom-up systems biology: modeling individual cell subsystems (includes Dynamics of signal transduction pathways)
- Top-down systems biology: data integration & network reconstruction for a coarse-grained model of the cell
- Microbial systems biology and human health

Serial No.	Prog no.	Type	Title	Categories	All authors (first, last)
0011	P1-1	Poster	Synthetic biology of antibiotic production in <i>Streptomyces coelicolor</i> : Towards engineering novel antibiotic pathways	Microbial systems biology and biotechnology	M Gottelt, S Kol, E Takano
0019	P1-2	Poster	Network Inference of GAL regulatory system via Structure Equation Modeling in <i>S.cerevisiae</i>	Microbial systems biology and biotechnology	Sachiyo Aburatani
0020	P1-3	Poster	The proteome of acetate tolerant response in <i>Zymomonas mobilis</i> strains	Microbial systems biology and biotechnology	Chia-Wen Hsieh, Long-Wei Shih, Vincent F Ou
0023	P1-4	Poster	Transcriptomic profiling and optimization of High Cell Density Cultivation of <i>E.coli</i> producing recombinant human IFN-beta.	Microbial systems biology and biotechnology	A.B. Singh, K.J. Mukherjee
0027	P1-5	Poster	The morphology and ultra-structure of a new 2-methoxyethanol utilizing <i>Pseudomonas</i> sp. strain VB: An Electron Microscopic Study.	Microbial systems biology and biotechnology	F. O Ekhaïse, H. S. A Aluyi
0028	P1-6	Poster	Estimating Metabolic Fluxes from Labeling Transients of Intracellular Metabolites: Comparing the Isotopic Stationary and Non-stationary Approach for a <i>C. glutamicum</i> Lysine Producer	Microbial systems biology and biotechnology	SN Noack, KN Nöh, WW Wiechert

0031	P1-7	Poster	Predicting the fluxome from the proteome	Microbial systems biology and biotechnology	S Rossell, C Solem, PR Jensen, JJ Heijnen
0034	P1-8	Poster	Insights into the interactions that occur in the Twin-Arginine secretion system of the Gram positive bacterium <i>Bacillus subtilis</i>	Microbial systems biology and biotechnology	CG Monteferrante, VJ Goosens, TRHM Kouwen, JM van Dijl, P Noirod, C MacKichan
0041	P1-9	Poster	How sludge-lysing bacteria behave in waste activated sludge: the roles of extracellular enzymes	Microbial systems biology and biotechnology	M Takaishi, T Maeda, K Mouri, H Ogawa
0042	P1-10	Poster	Construction of a simple and rapid toxicity assay with a metabolically-engineered hyper hydrogen-producing <i>Escherichia coli</i> strain.	Microbial systems biology and biotechnology	S Takayanagi, T Maeda, H Ogawa, T Wood
0043	P1-11	Poster	Obtaining Meaningful Fluxome Data without Biological Replicates? Parallelization of ¹³ C-Metabolic Flux Analysis with <i>C. glutamicum</i>	Microbial systems biology and biotechnology	S Miebach, S Noack, K Nöh, M Oldiges, W Wiechert
0044	P1-12	Poster	Physiology of <i>Saccharomyces cerevisiae</i> at near-zero specific growth rates	Microbial systems biology and biotechnology	L.G.M. Boender, E.A.F. de Hulster, M.J. Almering, A.J.A. van Maris, J.T. Pronk, P.A.S. Daran-Lapujade
0047	P1-13	Poster	The Dynamic Metabolic Response Of <i>Penicillium Chrysogenum</i> To Feast Famine Cycles	Microbial systems biology and biotechnology	L.P. de Jonge, N.A.A. Buijs, S.A. Wahl, W.M. van Gulik, J.J. Heijnen
0048	P1-14	Poster	The Role of the Membrane Associated Proteins in Replication Initiation Control in <i>Bacillus subtilis</i>	Microbial systems biology and biotechnology	MZ Ferens, M-F Noirod-Gros, P Noirod
0057	P1-15	Poster	Method Development and Validation for Accurate Metabolome Analysis of <i>Corynebacterium glutamicum</i> and <i>Escherichia coli</i>	Microbial systems biology and biotechnology	C. J. Bolten, J. Becker, F. Letisse, S. Durand, J. C. Portais, C. Wittmann
0064	P1-16	Poster	Control of ATP Homeostasis during the Respiro-fermentative Transition in Yeast	Microbial systems biology and biotechnology	T Walther, M Novo, F Letisse, MO Loret, JC Portais, JM François
0065	P1-17	Poster	Metabolic Regulation during the Meiotic Cell Cycle in Yeast	Microbial systems biology and biotechnology	T Walther, A Lardenois, F Letisse, M Primig, JC Portais, JM François

0067	P1-18	Poster	Characterization of Membrane Protein Complexes in <i>Escherichia coli</i>	Microbial systems biology and biotechnology	AM Albiniaak, CFRO Matos, C Robinson, DO Daley, A Elofsson
0068	P1-19	Poster	Metabolic regulation by TldD, TldE and CsrA in <i>E. coli</i>	Microbial systems biology and biotechnology	Johan Timmermans, Geneviève Maenhaut-Michel, Laurence Van Melderen
0070	P1-20	Poster	Assembly dynamics of the Tat (twin-arginine translocation) pathway complexes in <i>Escherichia coli</i>	Microbial systems biology and biotechnology	Jacopo Baglieri, Colin Robinson
0073	P1-21	Poster	Flux Analysis of Biodiesel Producing <i>E. coli</i>	Microbial systems biology and biotechnology	H Garcia Martin, J Gin, E Steen, P Benke
0077	P1-22	Poster	Metabolic Flux Balance Analysis with a Context-dependant Biomass	Microbial systems biology and biotechnology	T Benyamini, O Folger, E Ruppin, T Shlomi
0080	P1-23	Poster	Development of a Genome-Scale Model on the Formation of Flavour Compounds by <i>Lactococcus lactis</i> MG1363	Microbial systems biology and biotechnology	NAL Flahaut, A Wiersma, D Martens, P Schaap, L Sijtsma, W de Vos
0084	P1-24	Poster	Computing elementary flux modes in genome-scale metabolic networks: Recent advances and biotechnological applications	Microbial systems biology and biotechnology	K. Bohl, L.F. de Figueiredo, J. Behre, C. Kost, S. Schuster, C. Kaleta
0089	P1-25	Poster	Peptide secretion using a specific transport system with a build-in enhancer	Microbial systems biology and biotechnology	S Lundstrom, J Andersen, P Pedersen, M Rassmussen, M Sorensen
0097	P1-26	Poster	Changes in oxygen provision affect the <i>Saccharomyces cerevisiae</i> lipidome	Microbial systems biology and biotechnology	M. Oja, T. Seppänen-Laakso, M. Wiebe, M. Oresic, M. Penttilä
0099	P1-27	Poster	Genome analyses of an industrial <i>Bacillus amyloliquefaciens</i> strain	Microbial systems biology and biotechnology	E.T. van Rij, B. Chevreux, R. Meima, Z. Prágai
0109	P1-28	Poster	Novel antisense RNAs of <i>Saccharomyces cerevisiae</i> could play an active role in adaptative process during late stationary phase of alcoholic fermentation	Microbial systems biology and biotechnology	S. A. Molinett, E. E. Agosin
0112	P1-29	Poster	The Imprint of Growth Rates and its Uses in Ecological Meta(genomics)	Microbial systems biology and biotechnology	S Vieira-Silva, EPC Rocha

0113	P1-30	Poster	New DNA binding sites for CcpA, the major regulator of the carbon catabolite response in <i>Bacillus subtilis</i> .	Microbial systems biology and biotechnology	N. Pigeonneau, F. Lecointe, P. Nicolas, P. Noirot
0118	P1-31	Poster	Systems Biology for Rational Strain Design: Improvement of L-Lysine Synthesis with <i>C. glutamicum</i>	Microbial systems biology and biotechnology	Jan van Ooyen, Stephan Noack, Lothar Eggeling
0121	P1-32	Poster	Genome sequence, secretome and sugar transport of the protein production host <i>Pichia pastoris</i>	Microbial systems biology and biotechnology	Alexandra Graf, Johannes Stadlmann, Martin Dragosits, Andreas Redl, Brigitte Gasser, Diethard Mattanovich
0123	P1-33	Poster	Stable Tandem Repeats for Heterologous Expression : Polyhydroxybutyrate production in <i>Saccharomyces cerevisiae</i>	Microbial systems biology and biotechnology	Kanokarn Kocharin, Keith Tyo, Jens Nielsen
0125	P1-34	Poster	Overflow Metabolism in <i>Escherichia coli</i> is Triggered by Decrease of Acetate Assimilation Capabilities in the Pta-Acs Node	Microbial systems biology and biotechnology	Ranno Nahku, Kaspar Valgepea, Petri-Jaan Lahtvee, Liisa Arike, Kaarel Adamberg, Raivo Vilu
0128	P1-35	Poster	Spatiotemporal Analysis of Single Cell Gene Expression in Situ in a Swarming Community Suitable for a Systems Biology Approach	Microbial systems biology and biotechnology	S.J. SEROR, I.B. HOLLAND
0138	P1-36	Poster	ALGOMICS : Omics of energy conversion and storage by microalgae	Microbial systems biology and biotechnology	E Cahoreau, L Peyriga, F Letisse, S Sokol, S Massou, JC Portais
0133	P1-37	Poster	Global transcriptional and metabolic analysis of <i>Escherichia coli</i> throughout the glucose-to-acetate transition reveals key pre-adaptation mechanisms.	Bottom-up systems biology	B. Enjalbert, S. Durand, S. Massou, F. Letisse, JC. Portais
0146	P1-38	Poster	Effects of the addition of a C-terminal helix to EmrE	Microbial systems biology and biotechnology	P. Lloris-Garcerá, J.S. Slusky, G. von Heijne
0148	P1-39	Poster	Cellular Engineering of <i>Bacillus subtilis</i> to Enhance the Biosynthesis of Highly Active Antifungal Lipopeptides	Microbial systems biology and biotechnology	J. GUY, J.S. GUEZ, N.E. CHIHIB, F. COUCHENEY, M. BECHET, P. JACQUES
0149	P1-40	Poster	Diversity of monomers in non ribosomal peptides: towards the prediction of origin and biological activity	Microbial systems biology and biotechnology	S. CABOCHE, V. LECLERE, M. PUPIN, G. KUCHEROV, P. JACQUES

0152	P1-41	Poster	Influence of Polyhydroxyalkanoate Content on Central Carbon Metabolism Operation of <i>Pseudomonas putida</i> KT2442	Microbial systems biology and biotechnology	I. F. Escapa, J. Nogales, E. Díaz, B. Bühler, L. M. Blank, M. A. Prieto
0156	P1-42	Poster	Development of Hybrid Agent-Based model describing the response of <i>Escherichia coli</i> to changes in oxygen availability	Microbial systems biology and biotechnology	S Maleki-Dizaji, MD Rolfe, M Holcombe, A Graham, J Green, RK Poole
0167	P1-43	Poster	Genome-scale, dynamic modelling of alcoholic fermentation	Microbial systems biology and biotechnology	FA Vargas, E Agosin
0168	P1-44	Poster	Omics-based studies of a recombinant <i>Pichia pastoris</i> growing under different oxygenation conditions reveal target genes for strain improvement	Microbial systems biology and biotechnology	Kristin Baumann, Martin Dragosits, Alexandra Graf, Marc Carnicer, Diethard Mattanovich, Pau Ferrer
0169	P1-45	Poster	Studying the Role of Membrane Anisotropy in Protein Localization in Bacteria	Microbial systems biology and biotechnology	L.D. Renner, D.B. Weibel
0170	P1-46	Poster	Unraveling regulatory circuits of polysaccharide synthesis in <i>Agrobacterium</i> sp Through systems biology	Microbial systems biology and biotechnology	A Ruffing, M Castro, W-S Hu, R Chen
0176	P1-47	Poster	Genetic tools of <i>Mycoplasma pneumonia</i> for synthetic biology	Microbial systems biology and biotechnology	B Paetzold, E Yus, K Michalodimitrakis, L Serrano
0177	P1-48	Poster	Genome sequencing and expression profile analysis of a cellulase-producing filamentous fungus <i>Penicillium decumbens</i> and its catabolite-repression-resistant mutants	Microbial systems biology and biotechnology	Guodong Liu, Yuqi Qin, Yinbo Qu
0200	P1-49	Poster	SysMO-DB: Sharing and Exchanging Systems Biology Data and Models	Microbial systems biology and biotechnology	K Wolstencroft, O Krebs, S Owen, F Becall, J Snoep, W Mueller, I Rojas, C Goble
0185	P1-50	Poster	Investigating cellular bioenergetics through Thermodynamics-based Metabolic Flux Analysis	Microbial systems biology and biotechnology	Keng C. Soh, Vassily Hatzimanikatis, Christopher S. Henry

0179	P1-51	Poster	Screening and Identification of Cadmium and Arsenic Resistant Bacteria from Coastal Aqua Farming Sediments using 16S rDNA Sequencing for Metal Removing Motif	Microbial systems biology and biotechnology	J. N. Bhakta, Y. Muneke, B. B. Jana
0140	P1-52	Poster	Methylotrophy from a system perspective: genome-wide reconstruction and functional analysis of the metabolism of <i>Methylobacterium extorquens</i>	Microbial systems biology and biotechnology	R Peyraud, K Schneider, P Kiefer, S Massou, JC Portais, JA Vorholt
0032	P1-53	Poster	Condition Dependent Transcriptional Control of Yeast Metabolism	Technology – experimental	L Falter, SM Fendt, N Zamboni, U Sauer
0045	P1-54	Poster	Novel fluorescence-based method for real-time monitoring of viable microorganisms.	Technology – experimental	R Kort
0062	P1-55	Poster	Quantitative protein expression analysis in Escherichia coli using label-free mass spectrometry	Technology – experimental	E V Mostovenko, H Dalebout, R J V van Zeijl, A M Deelder, M Palmblad
0081	P1-56	Poster	Microfluidic System for Automated High-Throughput Screening of Toxicity of Antibiotics	Technology – experimental	Krzysztof Churski, Tomasz Kaminski, Lukasz Szultka, Piotr Korczyk, Wojciech Kamysz, Piotr Garstecki
0143	P1-57	Poster	Advanced cultivation platform for high throughput quantitative diagnostics of cell physiology in the growth space	Technology – experimental	R. Vilu, K. Abner, K. Adamberg, L. Arike, S. Erm, P.-J. Lahtvee
0151	P1-58	Poster	Characterization of Proteome Dynamics at Different Growth Rates in Continuous Cultures	Technology – experimental	L. Arike, P.J. Lahtvee, K. Valgepea, R. Nahku, K. Adamberg, R. Vilu
0165	P1-59	Poster	A systems biology approach to reduce the bacterial genome	Technology – experimental	INRA Tanaka, University of Chicago Henry, INRA Jolivet, INRA Ehrlich, University of Chicago Stevens, INRA Noirot
0029	P1-60	Poster	Metabolomics and in silico simulation reveal a link between phosphate starvation and glycogen metabolism in <i>Corynebacterium glutamicum</i>	Technology – experimental	H.M. Woo, S. Noack, G. Seibold, S. Willbold, K. Noeh, M. Bott

0036	P1-61	Poster	CellPublisher: a web platform for collaboration among research groups based on the Systems Biology Graphical Notation	Technology – computational	LA Flórez, CR Lammers, AG Schmeisky, J Stülke
0090	P1-62	Poster	Gene expression-constrained flux balance analysis	Technology – computational	R.J.P. van Berlo, D. de Ridder, J.G. Daran, P.A.S. Daran-Lapujade, B. Teusink, M.J.T. Reinders
0102	P1-63	Poster	Optimization of a microarray probe design for <i>Aspergillus nidulans</i> focusing on the minimization of cross-hybridization	Technology – computational	F Horn, C Hummert, V Schroeckh, R Guthke
0104	P1-64	Poster	Characterization of <i>Saccharomyces cerevisiae</i> metabolic network using a dynamic isotopomer model	Technology – computational	Averina Nicolae, Michael Hans, Christoph Wittmann, Elmar Heinzle
0105	P1-65	Poster	Towards a Two-State Model for Predicting Yeast Growth Using Flux Balances	Technology – computational	P.B.A. Blomberg, J.-P. Pitkänen, P.S. Koukkari
0131	P1-66	Poster	Sampling Viable Genotypes in Metabolic Reaction Spaces	Technology – computational	A Samal, A Wagner, OC Martin
0145	P1-67	Poster	Dynamic flux balance analysis: a possibilistic approach	Technology – computational	F Llaneras, J Picó, A Sala
0162	P1-68	Poster	Design of Synthetic Gene Networks: Symbolic Model Checking of PADE Models	Technology – computational	G Batt, M Page, P Monteiro, H de Jong
0175	P1-69	Poster	Consensus-based protein structure prediction by means of distance restraints	Technology – computational	MJ Skwark, A Elofsson
0186	P1-70	Poster	Elementary Flux Modes under Thermodynamic Constraints	Technology – computational	Ho Ki Fung, Keng Cher Soh, V Hatzimanikatis
0190	P1-71	Poster	Automatic identification and restoration of reaction gaps in the consensus reconstruction network for yeast metabolism	Technology – computational	C Lu, R King
0007	P1-72	Poster	Calibration of large-scale dynamic models in systems biology: a Pareto approach	Technology – computational	A.F. Villaverde, J.A. Egea, W. Liebermeister, E. Klipp, J.R. Banga

0012	P1-73	Poster	Probabilistic Metabolic Control Analysis	Technology – computational	Z Kurtanjek
0021	P1-74	Poster	Time-scale based metabolic network reduction and application in the ¹³ C flux analysis of <i>Penicillium chrysogenum</i>	Technology – computational	Z Zhao, M Perlasca, P.J.T. Verheijen, S.A. Wahl, J.J. Heijnen, W.M. van Gulik
0026	P1-75	Poster	Optimality principles in nonequilibrium biochemical networks	Technology – computational	R.M.T. Fleming, C. Maes, M.A. Saunders, Y Ye, B.O. Palsson
0054	P1-76	Poster	TOWARDS A QUANTITATIVE MODELING OF THE PECTATES LYASES SYNTHESIS IN <i>Erwinia chrysanthemi</i>	Technology – computational	wilfred KEPSEU, Jacques-Alexandre SEPULCHRE, Sylvie REVERCHON, William NASSER
0189	P2-77	Poster	Inconsistency between Transcriptome and Proteome:the case of two <i>P. aeruginosa</i> strains PAO1 and PA14	Microbial systems biology and human health	T Kwon, H Huse, E Marcotte, M Whiteley
0195	P2-78	Poster	Damped Oscillations in the Adaptive Response of the Iron Homeostasis Network of <i>E. coli</i>	Microbial systems biology and human health	A Amir, S Meshner, T Beatus, J Stavans
0202	P2-79	Poster	Studying the human oral microbiome with Illumina Sequencing of 16S rDNA fragments	Microbial systems biology and human health	K Whiteson, V Lazarevic, S Huse, D Hernandez, L Farinelli, M Østerås, J Schrenzel, P Francois
0004	P2-80	Poster	The response of <i>Bacillus subtilis</i> to thiol-reactive electrophiles -from systems level approaches towards novel regulatory mechanisms	Microbial systems biology and human health	Nguyen Thi Thu Huyen, Dierk-Christoph Pöther, Dörte Becher, Kazuo Kobayashi, Michael Hecker, Haike Antelmann
0033	P2-81	Poster	A functional-genomics fermentation platform to identify and optimize industrial-relevant properties of <i>Lactobacillus plantarum</i>	Microbial systems biology and human health	M Wels, P Bron, A Wiersma, M Marco, M Kleerebezem
0039	P2-82	Poster	Systems Biology approach to drug targets for biofilm associated <i>Pseudomonas aeruginosa</i>	Microbial systems biology and human health	GS Sigurdsson, IT Thiele
0040	P2-83	Poster	Lateral Genetic Transfer and the Evolution of Cellular Networks in <i>Escherichia coli</i>	Microbial systems biology and human health	E M Skippington, T L Huber, M A Ragan
0056	P2-84	Poster	Role of Heat shock protein in immunity against lethal <i>B.anthraxis</i> infection.	Microbial systems biology and human health	Kanchan Sinha, Rakesh Kumar Bhatnagar

0072	P2-85	Poster	Targeted metabolomics in mycobacteria	Microbial systems biology and human health	M. Lotlikar, J.M. Büscher, A.M. Upton, V. Hatzimanikatis, U. Sauer, J.D. McKinney
0078	P2-86	Poster	Towards an understanding of outer membrane proteins biogenesis in <i>Neisseria gonorrhoeae</i> .	Microbial systems biology and human health	N.Yu. Oparina, E.N. Ilina, I.A. Demina, M.B. Malakhova, A.D. Borovskaya, M.V. Serebryakova
0091	P2-87	Poster	Proteome-wide absolute quantification of proteins using targeted mass spectrometry and 2-D PAGE	Microbial systems biology and human health	Sandra Maass, Susanne Sievers, Daniela Zuehlke, Michael Hecker, Uwe Völker, Dörte Becher
0092	P2-88	Poster	High-throughput clone library analysis of the mucosa-associated microbiota in inflammatory bowel disease.	Microbial systems biology and human health	AW Walker, JD Sanderson, GC Parkes, J Parker, G Dougan, L Petrovska
0096	P2-89	Poster	Flux distribution in the central carbon metabolism of the procyclic trypanosomes.	Microbial systems biology and human health	Jane Hubert, Charles Ebikeme, Marc Biran, Stéphane Massou, Frédéric Bringaud, Jean-Charles Portais
0100	P2-90	Poster	Maintenance of the glycosomal redox balance in procyclic forms of <i>Trypanosoma brucei</i> : the G3P/DHAP shuttle is functional but not used	Microbial systems biology and human health	Charles Ebikeme, Jane hubert, Pauline Morand, Nicolas Plazolles, Jean-Charles Portais, Frédéric Bringaud
0103	P2-91	Poster	Analysis of Genome-Scale Metabolic Model of <i>Mycobacterium tuberculosis</i> for New Combat Strategies	Microbial systems biology and human health	ME Özdemir, KC Soh, JD McKinney, V Hatzimanikatis
0144	P2-92	Poster	Systems biology of commensal and pathogenic <i>Escherichia coli</i> strains.	Microbial systems biology and human health	P Millard, O Revelles, S Massou, F Létisse, E Oswald, JC Portais
0030	P2-93	Poster	Comparative systems biology identifies different roles for phosphate in central metabolism of two lactic acid bacteria	Bottom-up systems biology	M.W.J.M. Musters, J. Levering, M. Bekker, T. Fiedler, J. Hugenholtz, U. Kummer
0035	P2-94	Poster	Branched-chain amino acid biosynthesis constitutes a hub in the metabolic network of <i>Bacillus subtilis</i>	Bottom-up systems biology	S.R. Brinsmade, R.J. Kleijn, U. Sauer, A.L. Sonenshein
0049	P2-95	Poster	Protein-protein interactions in the cell wall integrity MAPK signaling pathway of <i>S. cerevisiae</i>	Bottom-up systems biology	GP Malengo, D Kentner, A Banderas, V Sourjik

0050	P2-96	Poster	Dynamic Gene Expression Regulation Model For Growth And Penicillin Production In <i>Penicillium Chrysogenum</i>	Bottom-up systems biology	R.D. Douma, P.J.T. Verheijen, W.T.A.M. de Laat, J.J. Heijnen, W.M. van Gulik
0053	P2-97	Poster	Advantages of exchange of intermediates in trisporic acid synthesis in Mucorales	Bottom-up systems biology	S Werner, A Schroeter, S Vlaic, S Schuster
0055	P2-98	Poster	Robust Homeostatic Controllers: Molecular Mechanisms and Oscillatory Responses	Bottom-up systems biology	P Ruoff
0060	P2-99	Poster	A mathematical model for potassium homeostasis in <i>Saccharomyces cerevisiae</i>	Bottom-up systems biology	Maik Kschischo, Matthias Kahm, Hella Lichtenberg-Fraté, Jost Ludwig
0066	P2-100	Poster	Using a modelling approach to elucidate unexpected reporter gene signals for σ^B activity in <i>B. subtilis</i> .	Bottom-up systems biology	U.W. Liebal, P. Kumar-Sappa, T. Millat, L. Steil, U. Völker, O. Wolkenhauer
0095	P2-101	Poster	Comparative systems biology: Experimental and protein structure-based analysis of L-lactate dehydrogenases from different Lactic acid bacteria	Bottom-up systems biology	Vlad Cojocaru, Tomas Fiedler, Oumarou Samna, Bernd Kreikemeyer, Rebecca Wade
0098	P2-102	Poster	Reconstruction of the minimal cell proteome by comparative analysis of proteomes from three mycoplasma species	Bottom-up systems biology	G.Y. Fisunov, D.G. Alexeev, I.A. Demina, I.G. Kondratov, M.V. Serebryakova, V.M. Govorun
0114	P2-103	Poster	Kinetic Model of <i>Escherichia coli</i> 's Respiratory Chain for Different Oxygen Availability	Bottom-up systems biology	S Henkel, M Ederer, T Sauter, O Sawodny
0115	P2-104	Poster	Feedback Regulation Within the Genetic Network Controlling Flagella and Exoenzymes Production Induces Bistability in an Insect Pathogenic Bacteria	Bottom-up systems biology	G Jubelin, A Lanois, A Givaudan
0122	P2-105	Poster	Growth Rate Dependent Dynamics in <i>Lactococcus lactis</i> Metabolism Studied by Omics and Metabolic Flux Analysis	Bottom-up systems biology	P.J. Lahtvee, K. Adamberg, L. Arike, R. Nahku, K. Abner, R. Vilu

0124	P2-106	Poster	A novel interaction between <i>Salmonella</i> Typhimurium and phage P22	Bottom-up systems biology	M.T. Mebrhatu, C.W. Michiels, A.B. Lindner, F. Taddei, A. Aertsen
0126	P2-107	Poster	Membrane protein interactions in <i>Bacillus subtilis</i> – analysis of the Tat system and a novel Tat substrate	Bottom-up systems biology	V. J. Goosens, C. G. Monteferrante, T.R. Kouwen, J. M. van Dijl
0134	P2-108	Poster	The dynamic protein partnership of RNA polymerase in <i>Bacillus subtilis</i>	Bottom-up systems biology	O Delumeau, F Lecointe, A Guillot, V Monnet, P Polard, P Noiro
0136	P2-109	Poster	A protein interaction network focused on Transcription Factors in <i>Bacillus subtilis</i>	Bottom-up systems biology	T Rochat, O Delumeau, I Martin-Verstraete, P Nicolas, E Dervyn, P Noiro
0142	P2-110	Poster	Systems biology of (p)ppGpp in <i>E.coli</i> : stringent response, growth rate adjustment and spontaneous persister generation	Bottom-up systems biology	H Rubin, A Halasz
0147	P2-111	Poster	Noise reduction as a selection principle of coupled feedback oscillator circuits	Bottom-up systems biology	B. Min, K.-I. Goh, I.-M. Kim
0154	P2-112	Poster	The Organisation of Secretion Complexes in <i>Bacillus subtilis</i>	Bottom-up systems biology	CI MacKichan, R Carballido-López
0163	P2-113	Poster	<i>In silico</i> comparison of Metabolic Networks of <i>Pseudomonas aeruginosa</i> and <i>Pseudomonas putida</i>	Bottom-up systems biology	J. Puchalka, M.A. Oberhardt, J.A. Papin, V.A.P. Martins dos Santos
0181	P2-114	Poster	Metabolic and transcriptomic impact of NADPH perturbation in <i>Saccharomyces cerevisiae</i>	Bottom-up systems biology	M CELTON, A GOELZER, C CAMARASA, V FROMION, S DEQUIN
0193	P2-115	Poster	Metabolic Engineering of <i>Escherichia coli</i> for the Production of Polylactic Acid (PLA) and its Copolymers	Bottom-up systems biology	Sang Yup Lee, YK Jung, TY Kim, SJ Park
0194	P2-116	Poster	Improved prediction of intracellular fluxes through incorporating condition-independent constraints into <i>Escherichia coli</i> genome-scale model	Bottom-up systems biology	SY Lee, JM Park, TY Kim
0196	P2-117	Poster	Of yeast, mouse and men: Dissecting PPAR-alpha signaling through comparative nutrigenomics analysis	Bottom-up systems biology	D Cavalieri, E Marchi, E Calura, C Romualdi, M Radonjic, B Van Ommen

0198	P2-118	Poster	Mapping cellular signal transduction.	Bottom-up systems biology	C Tiger, G Cedersund, R Palmer, S Hohmann, H Kitano, M Krantz
0017	P2-119	Poster	Growth Phase-Dependent Genome-Wide Redistribution of RNA Polymerase in <i>Streptomyces coelicolor</i> A3(2)	Bottom-up systems biology	E. Laing, G. Bucca, D.A. Hodgson, C.P. Smith
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