

Programme

Thursday 27th March 2008

Arrival participants Bacell2008 meeting

20.00 DINNER
 Soria Moria Hotel and Conference Center

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Friday 28th March 2008

8.15 – 9.00 Registration for meeting
 Location: Soria Moria Hotel and Conference Center

Chairman: Sierd Bron

9.00 - 9.10 Anne-Brit Kolstø (University, Oslo)
 Welcome and introduction to Bacell2008 meeting

9.10 – 9.30 Jan Maarten van Dijl (UMCG, University Groningen)
 BACELL Systems

9.30 – 9.50 Elodie Marchadier, Rut Carballido-Lopez, Vincent Fromion,
 Philippe Bessières, and Philippe Noirot (INRA, Jouy-en-Josas)
 Functional analysis of a centre of protein interactions in *Bacillus subtilis*

9.50 – 10.10 Anne Goelzer and Vincent Fromion (INRA, Jouy-en-Josas)
 A first analysis of the central carbon pathway of *Bacillus subtilis*:
 Integration of both genetic and enzymatic levels in regulations

10.10- 10.30 Jörg Büscher, Roelco Kleijn, and Uwe Sauer (ETH, Zürich)
 Linking metabolomics and metabolic fluxes

10.30 – 11.00 COFFEE/TEA

Chairman: Colin Harwood

11.00 – 11.20 Ole Andreas Økstad, Are Klevan, Nicolas J. Tourasse, Simen M.
 Kristoffersen, Heidi K. Langørgen, Frederik B. Stabell and Anne-
 Brit Kolstø (University, Oslo)
 Mobile chromosomal repeat elements in *Bacillus cereus*, *B. thuringiensis*, and *B. anthracis* – Comparative genomics and transcriptional analysis

11.20 – 11.40 Nicolas J. Tourasse and Anne-Brit Kolstø (University, Oslo)
Survey of group I and group II introns in 29 sequenced genomes of the *Bacillus cereus* group: Insights into the spread and evolution of mobile intron elements in a worldwide-distributed bacterial population

11.40 – 12.00 Martin Lee Miller, Boumediene Soufi, Carsten Jers, Nikolaj Blom and Ivan Mijakovic (Technical University Denmark, Lyngby)
NetPhosBac – Prediction of protein phosphorylation sites in bacteria

12.00 – 12.20 Eva Wagner, Christina Herzberg, Jörg Stülke and Fabian Commichau (University, Göttingen)
Moonlighting in glycolysis: An *in vivo*-approach to identify novel functions of glycolytic enzymes in *Bacillus subtilis*

12.20 – 14.00 LUNCH (BACIP MEETING DURING LUNCH)

Chairman: Eugenio Ferrari

14.00 – 14.20 C. Tanous, O. Soutourina, P. England, P. Noirot, A. Danchin and I. Martin-Verstraete (Institut Pasteur, Paris; and INRA, Jouy-en-Josas)
Global regulation of cysteine metabolism by the CymR-CysK complex in *Bacillus subtilis*

14.20 – 14.40 Niall Foy and Kevin Devine (Trinity College, Dublin)
An investigation into the regulation of the Class I Lysyl tRNA synthetase of *Bacillus cereus*

14.40- 15.00 Sandrine Poncet, Maryline Soret, Peggy Mervelet, Josef Deutscher, and Philippe Noirot (INRA-AgroParisTech-CNRS, Thiverval-Grignon; and INRA, Jouy-en-Josas)
A novel interaction partner for HPr of the *Bacillus subtilis* phosphotransferase system: Histidine-phosphorylated HPr stimulates the transcriptional activator YesS

15.00 – 15.20 Diana Hoyer, Eva Rietkötter, Dora Finkeisen and Thorsten Mascher (University, Göttingen; and Karlsruhe Institute of Technology, Karlsruhe)
A two-component system–ABC transporter connection: Sensing antimicrobial peptides in *Bacillus subtilis*

15.20 – 15.50 COFFEE/TEA

Chairman: Hanne Jarmer

15.50 – 16.10 Sarah Dubrac, Aurelia Delaune, Olivier Poupel and Tarek Msadek (Institut Pasteur, Paris)
Cell wall homeostasis and the WalK/WalR essential signal transduction pathway in *Staphylococcus aureus*

- 16.10 – 16.30** **Fabian M. Commichau, Katrin Gunka, Jens J. Landmann and Jörg Stülke (University, Göttingen)**
 Glutamate metabolism in *Bacillus subtilis*: Gene expression and enzyme activities evolved to avoid futile cycles and to allow rapid responses to perturbations of the system
- 16.30 – 16.50** **Akos T. Kovacs, Aleksandra M. Mironczuk, Wiep Klaas Smits and Oscar P. Kuipers (University, Groningen)**
 DNA uptake in various *Bacillus* species
- 16.50-17.10** **Jan-Willem Veening, Eric J. Stewart, Thomas W. Berngruber, François Taddei, Oscar P. Kuipers and Leendert W. Hamoen (University, Groningen; Inserm, University Paris; and University, Newcastle)**
 The phosphorelay determines the bistable outcome of sporulation
- 17.10-17.30** **Ghislain Schyns, José Pereira-Leal, Serra Claudia, Potot Sébastien, Teresa Barbosa, Chevreux Bastien, Rodriguez Sabrina, de Saizieu Antoine, John B. Perkins, Wyss Markus and Adriano O. Henriques (DSM Nutritional products, Kaiseraugst; Instituto de Tecnologia Química e Biológica, Oeiras and Instituto Gulbenkian de Ciência, Oeiras)**
 The genome of an undomesticated, probiotic strain of *Bacillus subtilis* (BSP1)

Short overviews of EU-funded projects

- 17.30-17.40** **Colin Harwood**
 BACELL HEALTH project
- 17.40-17.50** **Philippe Noirot**
 BaSysBio project
- 17.50-18.00** **UweVölker**
 SysMo project

18.15 – 19.30 **Meeting BACELL Steering group**

20.00 **DINNER**
Location: Soria Moria Hotel and Conference Center

Saturday 29th March 2008

Chairman: Anne-Brit Kolstø

9.00 – 9.20 Cinzia Calvio, Cecilia Osera, Giuseppe Amati and Alessandro Galizzi (University, Pavia)
An auto-regulatory loop governing motility in *Bacillus subtilis*

9.20 – 9.40 I. Nes, D. Leng, P. Ma, G. Szakonyi, K. Bettaney, A.B. Kolstø and P.J.F. Henderson (University, Leeds; and University, Oslo)
Purification of membrane transport proteins from *Bacillus* spp

9.40 – 10.00 Ulf Gerth, Falko Höchgrafe, Jörg Mostertz, A. Elsholz, S. Michalik and Michael Hecker (University, Greifswald)
Protein quality control in *Bacillus subtilis* and *Staphylococcus aureus* – Maintenance, protection and degradation

10.00 – 10.20 Thijs R.H.M. Kouwen, Jean-Yves F. Dubois and Jan Maarten van Dijl (UMCG, University, Groningen)
Optimization of *Bacillus* for increased production of disulfide bond-containing proteins

10.20 – 10.40 Étienne Dervyn and Philippe Noirot (INRA, Jouy-en-Josas)
Functional integration of the bacterial condensin/cohesin-like complex SMC-ScpAB and of DNA replication and repair functions

10.40 – 11.10 COFFEE/TEA

Chairman: Philippe Noirot

11.10 – 11.30 I. Barák, K. Muchová, N. Pavlendová, A.J. Wilkinson, P.J. O'Toole and Z. Chromiková
Lipid spirals in *Bacillus subtilis* and their role in cell division

11.30 – 11.50 Gema Val, Silvia Marin and Rafael P. Mellado (CSIC, University, Madrid)
The genomic landscape: A sensitive method to monitor maize rhizobacterial communities

11.50 – 12.10 Valérie Leclère, Max Bechet, Alain Brans, François Coutte, Marlène Chollet-Imbert, Patrick Fickers, Frédérique Gancel, Jean-Sébastien Guez, Bernard Joris, Marc Ongena and Philippe Jacques (University, Lille; Faculté Universitaire des Sciences Agronomiques, Gembloux; and University, Liège)
Bacillus lipopeptide properties leading to versatile weapons for plant disease biocontrol

12.10 – 12.30 Jesper Danielsson, Oleg Reva and Johan Meijer (Swedish University of Agricultural Sciences, Uppsala; and University, Pretoria)

Bacillus-plant-pathogen interactions in a plant protection context

12.30 – 14.00 LUNCH (*BACELL HEALTH* group leaders meeting during Lunch)