

Programme: Mini-symposium *Cupriavidus metallidurans*

21-April-2008

- 18h00 **Welcome, Registration and buffet**
- 19h50 Introduction
Max Mergeay
- 20h00 *Cupriavidus metallidurans* strain CH34: Evolution of a metal-resistant bacterium
Dietrich Nies

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- 9h00 The genome annotation of *Cupriavidus metallidurans*: status report and first insights
Paul janssen
- 9h30 ACLAME: a database for the classification of the prokaryotic Mobilome
Ariane Toussaint
- 10h00 *Cupriavidus metallidurans* CH34 genomic islands and environmental adaptation
Max Mergeay
- 10h40 **Coffee Break**
- 11h00 *Cupriavidus metallidurans* CH34: from ecology to applications
Ludo Diels
- 11h30 Probing the metal-responsive MerR regulator complement of *Cupriavidus metallidurans* using a broad host range promoter probe plasmid
Jon Hobman
- 12h00 Lead resistance in *Cupriavidus metallidurans* CH34 – regulation of gene expression and lead(II)-selectivity
Daniel van der Lelie
- 12h30 *Cupriavidus metallidurans* CH34: metal response a transcriptomic overview
Pieter Monsieurs
- 13h00 **Sandwich lunch + poster session**
- 14h00 *Cupriavidus metallidurans* CH34 resistance to copper: a differential proteomic analysis using a gel free approach
Baptiste Leroy
- 14h30 *Cupriavidus metallidurans* CH34: Organisation of the cop-genes
Sébastien Van Aelst
- 15h00 Characterization of CopH and GzcE from *Cupriavidus metallidurans* CH34 revealed unusual modes of copper binding
Jacques Covès
- 15h40 **Coffee Break**
- 16h00 Structural and metal-binding studies of CopK, a periplasmic protein involved in copper resistance in *Cupriavidus metallidurans*
Beate Bersch
- 16h30 Characterization of the Sil system from *Cupriavidus metallidurans* CH34
Guy Vandebussche
- 17h00 Relevance of the four Pb(II)/Zn(II)/Cd(II) P-type ATPases for cadmium, cobalt or zinc detoxification in *Cupriavidus metallidurans* CH34
Judith Scherer
- 19h00 **Conference dinner**

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- 9h00 The use of a microarray to investigate microbial weathering of basalt by *Cupriavidus metallidurans* CH34
Charles Cockell
- 9h30 Study of the acetone metabolic pathway in *Cupriavidus metallidurans* CH34
Caroline Rosier
- 10h00 The Quorum Sensing system of *Cupriavidus metallidurans* CH34:
organisation, function and regulation
Hugo Moors
- 10h30 **Coffee Break**
- 10h50 Horizontal gene transfer by broad-host-range plasmids: lessons from *Cupriavidus metallidurans* CH34
Eva Top
- 11h20 *Cupriavidus metallidurans* CH34 in space
Natalie Leys
- 12h00 Cupro-resistant bacteria from Katanga: soil dwellers and endophytic species
Corinne Vander Wauven
- 12h30 **Hot lunch in restaurant**
- 14h00 "Nano-toxicity" of CdTe quantum dots towards bacteria
Christophe Merlin
- 14h30 Chemical forms of selenium accumulated by *Cupriavidus metallidurans* CH34
exposed to selenite and selenate
Geraldine Sarret
- 15h00 Bio-Arsenic: from Ancient Genes (and Proteins) to Modern Geocycles and
Global Pollution
Simon Silver
- 15h30 Panel discussion: Perspectives and future in *Cupriavidus metallidurans* research
Panel: Max Mergeay, Dietrich H. Nies, Simon Silver, Rob Van Houdt
Moderator: Natalie Leys
- 16h00 **Symposium end**