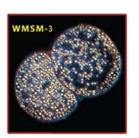
Programme





Sunday April 15, 2012				
16.00 – 18.00	REGISTRATION			
18.00 – 20.00	DINNER			
20.00 – 20.10	Welcome			
20.10 – 21.00	Keynote lecture James Farquhar (University of Maryland, USA) The evolution and future of the Earth's sulfur cycle			
21.00 – 23.00	Ice-breaker			

Monday April 16, 2012					
Session 1 – <i>Geochemistry and evolution</i> Chairman: Jan Kuever					
09.00 – 09.30	Invited lecture Timothy Ferdelman (MPI for Marine Microbiology, Germany) Biogeochemistry of sulfur in marine sediments: known knowns, known unknowns and unknown unknowns				
09.30 - 09.50	David Johnston (Harvard University, USA) Interrogating the mechanisms controlling sulfur isotope fractionation during sulfate reduction				
09.50 – 10.10	William Leavitt (Harvard University, USA) The sulfur isotope fractionation of dissimilatory sulfite reductase (Dsr)				
10.10 – 10.30	Aubrey Zerkle (University of New Castle, UK) S isotope investigation of sulfur cycling in the sulfidic Frassassi cave system: A case study of chemotrophic sulfide oxidation in the environment				
10.30 – 11.00	COFFEE / TEA BREAK – room Asamblea				
11.00 – 11.30	Invited lecture Alexander Loy (University of Vienna, Austria) Ecology of sulfate-reducing microorganisms in wetlands – fame-less actors in carbon cycling and climate change				
11.30 – 11.50	Esther Velasco (VU University Amsterdam, The Netherlands) Extreme microbial sulphur isotope fractionation in a Mars analogue environment at Rio Tinto, SW Spain				
11.50 – 12.10	Merja Itävaara (VTT Espoo, Finland) Diversity of sulphate reducing bacteria in deep earth crust aquifers of Fennoscandian Shield				
12.10 – 12.30	Shuangjiang Liu (Institute of Microbiology, Chinese Academy, Beijing, China) Acidithiobacillus caldus: a physiological story starts at its genome				
12.30 – 14.00	LUNCH				

Monday April 16, 2012					
Session 2 – <i>Physiology, biochemistry and genomics of sulfur bacteria</i> Chairman: Inês Cardoso Pereira					
14.00 – 14.30	Invited lecture Christiane Dahl (University of Bonn, Germany) Genomic, proteomic and transcriptomic insights into oxidative sulfur metabolism in the purple sulfur bacterium Allochromatium vinosum				
14.30 – 14.50	Rizlan Bernier-Latmani (EPFL Lausanne, Switzerland) Mechanism of sulfate reduction in the Gram-positive bacterium Desulfotomaculum reducens				
14.50 – 15.10	Inês Cardoso Pereira (University Lisboa, Portugal) Role of the QmoABC and DsrMKJOP membrane complexes in sulfate reduction				
15.10 – 15.30	Kai Finster (Aarhus University, Denmark) The pathway of sulfur disproportionation deduced from genomic and physiological data				
15.30 – 16.00	COFFEE / TEA BREAK – room Asamblea				
16.00 – 16.30	Invited lecture Donald Bryant (Penn State University, USA) The phylum Chlorobi: unexpected diversity among green chlorophotorophic bacteria revealed by genomic, metagenomic, and metatranscriptomic analyses				
16.30 – 16.50	Ulrike Kappler (University of Queensland, St. Lucia, Australia) Maintaining a comfortable lifestyle – integration of methylotrophy, heterotrophy and sulfur oxidation in the soil bacterium Starkeya novella				
16.50 – 17.10	Arnulf Kletzin (TU Darmstadt, Germany) Sulfur oxygenase reductases from mesophilic Halothiobacillus and thermoacidophilic Acidianus: Properties and implications for the reaction mechanism				
17.10 – 17.30	Oliver Klimmek (Institute of Microbiology & Genetics, Darmstadt, Germany) A sulfur harvesting complex mediates sulfur transfer to polysulfide reductase in Wolinella succinogenes				
18.00 – 20.00	DINNER				
20.00 – 22.00	POSTER SESSION WITH DRINKS – room Asamblea				

Tuesday April 17, 2012					
Session 3 – Sulfur bacteria and their niches					
Chairman: Gerard Muyzer					
09.00 – 09.30	Invited lecture Jörg Overmann (DSMZ-Braunschweig, Germany) Molecular determinants of bacterial symbiosis in phototrophic consortia				
09.30 – 09.50	Nicola Storelli (UNIGE, Bellinzona, Switzerland) Proteomic analysis of the purple sulfur bacterium candidatus "Thiodictyon syntrophicum" sp. nov. strain Cad16 from Lake Cadago				
09.50 – 10.10	Petra Pjevac (Max-Planck Institute for Marine Microbiology, Bremen, Germany) Colonization and oxidation of elemental sulfur by uncultured Epsilonproteobacteria in marine benthic habitats				
10.10 – 10.30	Anne Schwedt (Max-Planck Institute for Marine Microbiology, Bremen, Germany) Sulfur reduction as a survival strategy of Beggiatoa sp.				
10.30 – 11.00	COFFEE / TEA BREAK – room Asamblea				
11.00 – 11.30	Invited lecture Hendrik Schäfer (University of Warwick Conventry, UK) Functional diversity of (volatile) organosulfur compound degrading microorganisms in terrestrial and marine environments				
11.30 – 11.50	Tomas Llorens-Mares (Spanish Council for Research (CSIC), Blanes, Spain) A taxonomic and functional view on the sulphur cycle of euxinic continental waters through metagenomics and 16S rRNA gene tag sequencing				
11.50 – 12.10	Verena Salman (Max-Planck Institute for Marine Microbiology, Bremen, Germany) Long-awaited phylogenetic examination of giant sulfur bacteria revealed unexpected diversity and peculiar 16S rRNA genes				
12.10 – 12.30	Brendan Headd (University of Tennessee, USA) Uncovering evidence for niche partitioning among sulfur-oxidizing bacteria in the same environment				
12.30 – 14.00	LUNCH				
Session 4 – A	Novel sulfur biotransformations				
Chairman: Alb	pert Janssen				
14.00 – 14.30	Invited lecture Dimitry Sorokin (Winogradsky Institute Moscow, Russian Academy of Sciences, Russia) Natronophilic sulfidogens in soda lakes				
14.30 – 14.50	Marjan Smeulders (Radboud University Nijmegen, The Netherlands) Carbon disulfide conversion by an acidothermophilic archaeon: evolution of a new enzyme				
14.50 – 15.10	Jana Milucka (Max-Planck Institute for Marine Microbiology, Bremen, Germany) Novel bacterial disulfide disproportionation under anaerobic conditions				
15.10 – 15.30	Sabine Lehmann (University of Konstanz, Germany) SoeABC, a novel sulfite dehydrogenase in the Roseobacters?				
15.30 – 18.00	POSTER SESSION WITH DRINKS – room Asamblea				
18.00	Departure by bus to Rotterdam				
19.00 – 23.00	CONFERENCE DINNER				

Wednesday April 18, 2012						
Session 5 – <i>Biotechnology of sulfur bacteria</i>						
Chairman: Piet Lens						
09.00 – 09.30	Invited lecture Mark Dopson (Linnaeus University, Kalmar, Sweden) Towards green mining: exploiting pshychrotolerant acidophiles in bioremediation of inorganic sulfur compounds					
09.30 - 09.50	Irene Sánchez-Andrea (Autonomous University of Madrid, Spain) Enrichment and isolation of sulfate-reducing bacteria from Rio Tinto sediments growing at pH4					
09.50 – 10.10	Tessa van den Brand (KWR Watercycle Research Institute, Nieuwegein, The Netherlands) Biological sulphate reduction from saline wastewater at low temperature					
10.10 – 10.30	Peer Timmers (Wageningen University, The Netherlands) Novel high-pressure membrane-capsule bioreactor for the enrichment of anaerobic methanotrophs					
10.30 – 11.00	COFFEE / TEA BREAK – room Asamblea					
11.00 – 11.30	Henk Dijkman (Paques BV, Balk, The Netherlands) Twenty years of experience using the biological sulphur cycle for industrial water and gas treatment					
11.30 – 11.50	Lucian Staicu (UNESCO-IHE, Delft, The Netherlands) Biorecovery of selenium from industrial wastewaters					
11.50 – 12.10	Marco de Graaff (Wetsus, Leeuwarden, The Netherlands) Biological treatment of sulfidic spent caustics under halo-alkaline conditions using soda lake bacteria					
12.10 – 12.30	Florence Marty (Delft University of Technology, Delft, The Netherlands) Sulfur cycle bacteria dominate marine harbor structures with past evidence of Accelerated Low Water Corrosion					
12.30 – 14.00	LUNCH					
Session 6 – /	Microbial interactions and symbiosis					
Chairman: For	ns Stams					
14.00 – 14.30	Invited lecture Dave Stahl (University of Washington, USA) Adaptive evolution of a Desulfovibrio – Methanogen mutualism					
14.30 – 14.50	Marie Thérèse Giudici-Orticoni (CNRS, Marseille, France) Metabolic coupling between Desulfovibrio and Clostridium through physical interaction					
14.50 – 15.20	Invited lecture Nicole Dubilier (Max-Planck Institute for Marine Microbiology, Bremen, Germany) Metagenomics and metaproteomics of chemoautotrophic sulfur-oxidizing symbionts					
15.20 – 16.10	Keynote lecture Gerrit Voordouw (University of Calgary, Canada) Fundamental and applied aspects of the sulfur cycle: from Desulfovibrio to oil fields					
16.10 – 16.30	COFFEE / TEA BREAK – Lounge					
16.30	Departure					