



RESEARCH CONFERENCES

ESF Research Conference
Molecular Bioenergetics of Cyanobacteria:
From Cell to Community
10-15 April 2011

Chair: **Professor Cheng-Cai Zhang**, Université d'Aix-Marseille II and CNRS, FR
Co-Chairs: **Professor Elke Dittmann**, University of Potsdam, DE
Professor Conrad Mullineaux, Queen Mary University of London, UK

LIST OF POSTERS

SESSION 1

	Surname	First Name	Poster Title
1	Allahverdiyeva-Rinne	Yagut	Interplay between flavodiiron proteins and photorespiration in <i>Synechocystis</i> sp. PCC 6803
2	Anfelt	Josefin	NNF Center of Biosustainability - the Royal Institute of Technology site: Cyanobacteria for fuel production
3	Apte	Shree Kumar	Genetic Modification of Nitrogen-fixing <i>Anabaena</i> strains for Basic Research and Eco-friendly Environmental Applications
4	Badri	Hanène	Molecular study of radiation resistance of <i>Arthrospira</i> sp. PCC 8005
5	Baier	Antje	Degradation of the Phycobilisomes, a very large protein complex, is mediated by the small adaptor protein NbIA
6	Barthel	Sandra	Following Thylakoid Membrane Biogenesis in <i>Synechocystis</i> sp. PCC6803
7	Battchikova	Natalia	The Ssl0352 protein is a novel subunit of the <i>Synechocystis</i> NDH-1 complexes

8	Bay Rasmussen	Guillaume Ulla	Chemical signaling during the establishment of an association between Nostoc and the two feathermosses <i>Pleurozium schreberi</i> and <i>Hylocomium splendens</i>
9	Behrendt	Lars	New Endolithic Niches and Habitats for Chlorophyll D – Containing Cyanobacteria
10	Bes	María Teresa	Elucidation of the heme-binding site of the transcriptional repressor <i>fura</i> from <i>Anabaena</i> sp. Pcc7120 by spectroscopic studies of mutant proteins
11	Botello-Morte	Laura	Role of cysteines in biological function of <i>FurA</i> from <i>Anabaena</i> sp. PCC 7120
12	Burnat Clemente	Mireia	Cell envelope elements contributing to filament strength in <i>Anabaena</i>
13	Camargo Bernal	Sergio	Transcription activation during heterocyst differentiation in <i>Anabaena</i> sp. PCC 7120
14	Cassier-Chauvat	Corinne	Role of glutathione and its analogs, ophthalmate and norophthalmate, in the metabolism and stress resistance of cyanobacteria
15	Cervený	Jan	Metabolic rhythms of unicellular, nitrogen fixing cyanobacteria and possible interplay with modeled KaiABC circadian oscillator
16	Cheregi	Otilia	New-comer to the SCP family: the Lila protein
17	Chis	Ciprian	Patterns of expression of cyanobacterial <i>psbA</i> gene family under changing environmental conditions
18	Corrales Guerrero	Laura	Nitrogen-regulated P-type ATPase of the thylakoid membranes in vegetative cells of <i>Anabaena</i> sp. PCC 7120
19	Deak	Zsuzsanna	Oscillating yield of flash-induced chlorophyll fluorescence decay in intact cells of <i>Thermosynechococcus elongatus</i>
20	Domínguez-Martín	María Agustina	Role of 2-oxoglutarate in the control of the N/C balance in <i>Prochlorococcus</i>
21	Düppre	Eva	Features and Functions of a DnaK-DnaJ Chaperone Network in the Cyanobacterium <i>Synechocystis</i> sp. PCC 6803
22	Eaton-Rye	Julian	The Role of “Auxiliary” Proteins in Assembly and Function of Photosystem II in the Cyanobacterium <i>Synechocystis</i> sp. PCC 6803
23	Ekman	Martin	Sugar transport in symbiotically competent <i>Nostoc punctiforme</i>
24	Encinas	David	Towards a reduced autotrophic chassis from <i>Synechococcus elongatus</i> PCC 7942
25	Ermakova	Maria	Expression analysis reveals diverse functions for genes encoding flavodiiron proteins in <i>Anabaena</i> PCC 7120
26	Fan	Yingping	The oxidative stress in <i>Anabaena</i> sp. PCC 7120
27	Fillat	María F.	A role of <i>FurA</i> in the modulation of photosynthesis, iron uptake and cellular morphology is unravelled by overexpression of the regulator in <i>Anabaena</i> sp. PCC 7120

28	Fokina	Oleksandra	Synechococcus elongatus PII Signal Transduction Protein: From 2-Oxoglutarate Sensing to Enzyme Control
29	Gómez Ochoa De Alda	Jesús A.	Complexity of cAMP and cGMP signal transduction pathways in cyanobacteria
30	Guerrero	Fernando	Towards the improvement of cyanobacteria as biotechnological hosts using heterologous ethylene synthesis as a model system
31	Gutekunst	Kirstin	Transcriptional regulation of the bidirectional NiFe-hydrogenase in Synechocystis sp. PCC 6803
32	Hertel	Stefanie	Threonine phosphorylated KaiC hexamers couple the clock gene expression rhythm and the post-translational oscillator in Synechococcus
33	Hu	Chen-Lin	Towards understanding the role of the ABC transporter McyH for the active transport of microcystin in Microcystis aeruginosa PCC7806
34	Ininbergs Rasmussen	Karolina Ulla	Composition and diversity of nifH genes of nitrogen fixing cyanobacteria associated with boreal forest feather mosses
35	Janssen	Paul	A Genomic Survey of Energy Metabolism in Arthrospira sp. PCC 8005
36	Kern	Ramona	Evolution of enzymes involved in the photorespiratory 2-phosphoglycolate cycle from cyanobacteria via algae toward plants
37	Khudyakov	Ivan	Extragenic suppressors can discriminate between hetN and patS, the negative regulators of heterocyst differentiation in Anabaena sp. PCC 7120
38	Klemke	Friederike	Heterologous Expression of CphA2 in E. coli and Properties of an Anabaena variabilis cphA2 Mutant
39	Kuzminov	Fedor	Mechanisms of energy transfer and non-photochemical quenching in cyanobacterium Synechocystis sp. PCC 6803
40	Laichoubi	Karim	Nitrogen interaction network in the cyanobacterium <i>Synechococcus</i> WH5701, a model organism with two PipX and two PII-like proteins
41	Lechno-Yossef Wolk	Sigal C. Peter	Increasing hydrogen production by Anabaena sp. strain PCC 7120
42	Leino	Hannu	Extended H ₂ photoproduction of N ₂ -fixing cyanobacteria immobilized in alginate thin films

SESSION 2

	Surname	First Name	Poster Title
1	Liaimer	Anton	Diversity and biological activities of symbiotic Nostocacean
2	Lopez-Lozano	Antonio	Role of ORF alr4393 in Anabaena sp. PCC 7120
3	Lopez-Maury	Luis	A new antibiotic resistance cassette for cyanobacterial research
4	Makower	Katharina	Secondary metabolite expression - regulatory aspects of the depsipeptide microviridin
5	Martin-Kinic	Camille	Comparative genomics of two filamentous freshwater cyanobacteria: the green-pigmented Planktothrix agardii strain PCC 7805 and the red-pigmented P. rubescens strain PCC 7821
6	Meissner	Sven	The cyanobacterial hepatotoxin microcystin binds to proteins and increases the fitness of Microcystis under oxidative stress conditions
7	Mielke	Steven	Efficiency of oxygenic photosynthesis in the cyanobacterium, acaryochloris marina
8	Moronta Barrios	Felix Gabriel	Environmental Control of Phosphorylation Pathways in Synechococcus elongatus PCC 7942: The Branched NblS to RpaB/SrrA Two-Component System
9	Muñoz-Marín	María Del Carmen	Uptake and utilization of glucose by Prochlorococcus SS120: genetic and proteomic characterization
10	Napolitano	Mauro	Differential expression of redundant threonyl-tRNA synthetase genes in Anabaena sp. PCC 7120
11	Nasser	Amin	Alternative translation initiations responsible for the accumulation of two ferredoxin:NADP oxidoreductase isoforms are governed by the transcripts 5'UTR, in Synechocystis sp. PCC6803
12	Neverov	Konstantin V.	Photophysical study of chlorophyll d from Acaryochloris marina. Phosphorescence and singlet oxygen photogeneration
13	Norling	Birgitta	A model for membrane organization and protein sorting in Synechocystis sp. PCC 6803 inferred from proteomics and multivariate sequence analyses
14	Nuernberg	Dennis	Regulation and Remodeling of Intercellular Communication in Heterocyst-forming Filamentous Cyanobacteria
15	Papageorgiou	George	Hyper-osmotic effects on the distribution of electronic excitation between the photosystem II and photosystem I core complexes
16	Peca	Loredana	Development of a bioluminescent cyanobacterial reporter strain for detection of arsenite, arsenate, and antimonite
17	Picossi Goni	Silvia	Transcriptional regulators in Anabaena sp. PCC 7120
18	Prasil	Ondrej	Low mobility of phycobiliprotein rods in chlorophyll-d containing cyanobacterium Acaryochloris marina

19	Raghavan	Prashanth S.	Oxidative stress tolerance conferred by overexpression of individual SOD proteins in <i>Anabaena</i> sp. strain PCC7120
20	Rantamäki	Susanne	Group 2 sigma factor mutants of <i>Synechocystis</i> sp. strain PCC 6803 show defects in low and high temperature acclimation
21	Renberg	Bjorn	NNF Center of Biosustainability - the Royal Institute of Technology site
22	Rexroth	Sascha	Proteomic and lipidomic techniques monitor high-light induced rearrangements in <i>Synechocystis</i> PCC6803
23	Rubio	Vicente	Structural bases of PII-signaling through NtcA
24	Sandrini	Giovanni	Transcriptome analysis of C-limitation in <i>Synechocystis</i>
25	Schmetterer	Georg	Organo-heterotrophic growth capacities of <i>Nostoc</i> (<i>Anabaena</i>)sp. PCC 7120
26	Sicora	Cosmin	Functional Diversity of D1 proteins of Photosystem II in Cyanobacteria
27	Srivastava	Ashish Kumar	A molecular investigation of cyanobacterial response to salinity – from <i>Anabaena</i> PCC7120 cells to natural community in rice fields
28	Stamatakis	Kostas	Hyper-osmotic effects on the distribution of electronic excitation between the photosystem II and photosystem I core complexes
29	Stanfield	Erin	Presence and Toxicity of Freshwater Toxic Cyanobacteria in Pinto Lake, Monterey Bay Area, California.
30	Summerfield	Tina	Investigating a low oxygen induced gene cluster and hydrogen production in cyanobacteria
31	Telfer	Alison	Purification of active Photosystem II from <i>Acaryochloris marina</i> : an ongoing story
32	Toscano Selão	Tiago	Composition and biogenesis of the thylakoid membrane lipids in <i>Synechocystis</i> sp. PCC 6803
33	Vass	Istvan Zoltan	Influence of DNA damage and repair on the ability of cyanobacterial cells to repair UV-B radiation induced damage to the Photosystem II complex
34	Velichko	Nataliya	Presence of <i>Prochlorothrix</i> sp. in the Finnish Bay and neighboring inland waters
35	Vieille	Claire	Cell-specific gene expression in <i>Anabaena variabilis</i> grown phototrophically, photoheterotrophically, and heterotrophically
36	Wallner	Thomas	Functional analysis of the <i>Synechocystis</i> sp. Pcc 6803 ycf34 gene product, an ortholog of a conserved chloroplast open reading frame
37	Weyman	Philip	Expression of oxygen-tolerant [NiFe] hydrogenases in <i>Synechococcus elongatus</i>
38	Wiegard	Anika	Non-standard circadian clock systems in cyanobacteria
39	Zhang	Li-Chen	Cell-cell communication in filamentous cyanobacterium <i>Anabaena</i>

40	Zhang	Lifang	Characterization of the outer membrane proteome of <i>Synechocystis</i> sp. PCC 6803
41	Zilliges	Yvonne	Glycogen deficiency affects the response to nitrogen starvation in the cyanobacterium <i>Synechocystis</i> sp. PCC 6803

INSTRUCTIONS:

Posters will be divided between TWO sessions as follows:

Surnames A - L: On display: Monday (from lunch time) and Tuesday -
Poster session 1

Surnames L - Z: On display: Wednesday (from lunch time) and
Thursday - Poster session 2