

Programm zum
XVI. Berliner Botanischen Graduierten-Kolloquium
„Havel-Spree-Kolloquium“

Samstag, den 3. Dezember 2005

Tagungsort:

Universität Potsdam (Komplex II, Golm)
Karl-Liebknecht-Str. 24-25, Haus 25, Raum F1.01 (1.Stock)
14476 Potsdam-Golm

Programm

09:00 Begrüßung durch Prof. Dr. B. Müller-Röber

Session 1: Carbohydrate Metabolism (Chair: Nicolas Schauer)

09:10 Lutz Neumetzler, MPI Golm (AG Pauly)
„Structural analysis of xyloglucans using Oligosaccharide Mass Profiling“

09:25 Nino Nikolovski, MPI Golm (AG Pauly)
“Exploring the biological functions of pectin: analysis of *pec* mutants”

09:40 Borjana Arsova, MPI Golm (AG Lein)
“On the diversity of the *Arabidopsis* fructokinase family”

09:55 Jörg Fettke, Uni Potsdam (AG Steup)
„A transglycosidase and the cytosolic phosphorylase isoform act on heteroglycans from *Arabidopsis*“

10:10 Christoph Edner, Uni Potsdam (AG Steup)
„Exploring the link between phosphorylation and degradation of starch“

10:25 Claudia Kopka, MPI Golm (AG Zrenner)
„Metabolic function of nucleoside diphosphate kinases“

10:40 – 11:00 Kaffeepause

11:00 Zuzanna Bieniawska, MPI Golm (AG Zrenner)
„*Arabidopsis* sucrose synthase mutant approach: involvement of specific isoforms in metabolism“

11:15 Izabela Domanska, HU Berlin (AG Grimm)
„Inhibition of a sink-specific sucrose transporter in *Solanum tuberosum*“

Session 2: Photoperception and Regulative Genetics (Chair: Camilla Voelker)

- 11:30 Franz-Josef Schmitt, TU Berlin (AG Eichler)
„Investigation of excitation dynamics in the cyanobacterium *Acaryochloris marina* by picosecond fluorescence spectroscopy”
- 11:45 Enrico Peter, HU Berlin (AG Grimm)
„The tobacco Mg-Protoporphyrin IX-Monomethylester (Oxidative) Cyclase”
- 12:00 Anne Karradt, HU Berlin (AG Lockau)
„Structure and function of NblA from *Anabaena* sp. PCC7120, a protein essential for phycobilisome degradation in cyanobacteria”
- 12:15 Steffi Noack, FU Berlin (AG Lamparter)
„*Agrobacterium* phytochrome Agp1 – Meaning and interaction of protein domains during photoconversion”
- 12:30 Alexandra-Viola Bohne, HU Berlin (AG Börner)
„Organellar RNA-polymerases recognize various promoter motifs *in vitro*”
- 12:45 Matthias Arlt, MPI Golm (AG Schmidt)
„Transgene silencing in *Arabidopsis thaliana*”
- 13:00 – 14:00 Mittagspause (mit Imbiss)

Session 3: Functional Protein Analysis (Chair: Christoph Edner)

- 14:00 Michaela Hundertmark, MPI Golm (AG Hinch)
„LEA proteins in *Arabidopsis thaliana*”
- 14:15 Camilla Voelker, Uni Potsdam (AG Müller-Röber)
„TPK/KCO family: K⁺ channels in *Arabidopsis thaliana*”
- 14:30 Annika Nerlich, MPI Golm (AG Dörmann)
„Altered flower morphology in a triple mutant of *Arabidopsis* deficient in phosphatidylserine decarboxylase”
- 14:45 Ireen Köllmer, FU Berlin (AG Schmülling)
„Characterization of cytokinin deficient *Arabidopsis* and tobacco plants”
- 15:00 Henriette Weber, FU Berlin (AG Hellmann)
„Characterization of *Arabidopsis* Cullin 3 interaction with BTB-POZ/MATH (BPM) proteins”
- 15:15 Annette Niehl, MPI Golm (AG Fisahn)
„PVX infection of potato plants – Implications of the cell wall?”

Session 4: System Analysis (Chair: Jörg Fettke)

- 15:30 Thomas Degenkolbe, MPI Golm (AG Hincha)
„Microarray analysis of drought tolerance in rice”
- 15:45 Camila Caldana, Uni Potsdam (AG Müller-Röber)
„Genome-wide identification of transcription factors involved in the initial phase of salt stress in rice”
- 16:00 – 16:30 Kaffeepause
- 16:30 Henning Redestig, MPI Golm (AG Selbig)
„Analysing gene expression data using functional gene ontologies”
- 16:45 Nicolas Schauer, MPI Golm (AG Fernie)
„Quantitative genetics of metabolite accumulation in interspecific introgressions of tomato”
- 17:00 Sergey Kryvych, MPI Golm (AG Fisahn)
„Gene expression profiling in different stages of trichome development of *Arabidopsis thaliana*”
- 17:15 Bikram Datt Pant, MPI Golm (AG Scheible)
„Investigation of phosphate signaling in *Arabidopsis*”
- 17:30 Grit Rubin, MPI Golm (AG Scheible)
„Functional analysis of nitrate-regulated transcription factors in *A. thaliana*”
- 17:45 Felix Lippold, MPI Golm (AG Udvardi)
“Identification and characterization of transcription factors involved in osmotic and salt stress response in *A. thaliana*”
- 18:00 Schlußwort, Prof. Dr. M. Steup
- 18:30 Speis & Trank im Haus 20 (Pflanzenphysiologie/Molekularbiologie, Campus Golm)