

# Programme

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## Monday - September 3, 2012 - Mendel Museum

14:00 - 16:00 - *Registration (Mendel Museum)*

14:00 - 22:00 - *Accommodation (Vinařská dormitory)*

16:00 - 16:15 - **Opening words** (Mendel Museum)

16:15 - 17:00 - **Invited talk** - Prof. Ortrun Mittelsten Scheid (Gregor Mendel Institute of Plant Molecular Biology, Vienna): Epigenetics in plants

17:00 - 17:45 - **Invited talk** - Prof. Ingo Schubert (Leibniz Institute of Plant Genetics and Crop Plant Research, Gatersleben): Principles of karyotype evolution

17:45 - 18:00 - **Group photo in front of the Mendel Museum**

18:00 - 21:00 - *Guided tour to the Mendel Museum and Monastery, Welcome reception*

## Tuesday - September 4, 2012 - Vinařská dormitory

8:30 - 9:00 - *Mounting of posters*

9:00 - 9:30 - **Invited talk** - Prof. Ruslan Kalendar (University of Helsinki): What is the reality of a gene?

9:30 - 10:30 - **talk 1-3, Section I (Molecular & Cell Genetics)**

9:30 - 9:50 - Radka Uhlířová (GMI Vienna): Quantitative trait loci associated with *Arabidopsis thaliana* early root meristem

9:50 - 10:10 - Veronika Zbránková (University of Ostrava): The complete mitochondrial genome sequence of the eustigmatophyte alga *T. minutus*

10:10 - 10:30 - Sergey Mursalimov (Acad. Sci. Novosibirsk): Cytomixis and nuclear vacuoles in tobacco microsporogenesis

10:30 - 10:50 - *Coffee break*

10:50 - 12:30 - **talk 4-8, Continuation of Section I**

10:50 - 11:10 - Eva Majerová (Masaryk University, Brno): Epigenetic regulation of *Nicotiana tabacum* telomeres

11:10 - 11:30 - Michael Watson (University of Leeds): Activity of mammalian DNA demethylation functions in *Arabidopsis*

11:30 - 11:50 - František Zedek (Masaryk University, Brno): A mystery of the origin of holocentric chromosomes

11:50 - 12:10 - Yuuta Imoto (University of Tokyo): Division behavior of mitochondrion and microbody in the red algae *Cyanidioschyzon merolae*

12:10 - 12:30 - Lucie Najdekrová (Acad. Sci. Brno): The role of NBS1 in telomere maintenance of *Arabidopsis thaliana*

12:30 - 13:30 *Lunch*

**13:30 - 14:50 - talk 9-12, Section 2 (Developmental Biology)**

13:30 - 13:50 - Andreas Finke (IPK Gatersleben): Genetic analysis of RNA-directed transcriptional gene silencing in *Arabidopsis thaliana*

13:50 - 14:10 - Jana Jarešová (Acad. Sci. Třeboň): The 17kDa protein is expressed in the course of chromatic adaptation of alga *Chromera velia*

14:10 - 14:30 - Martin Janda (ICT Prague): Phospholipid signalling in SA pathway in *Arabidopsis thaliana*

14:30 - 14:50 - Martina Kudělková (MENDELU Lednice): Comparison of test results of garlic plants for presence Carlaviruses by different methods

14:50 - 15:10 *Coffee break*

**15:10 - 16:30 - talk 13-16, Continuation of the Section 2**

15:10 - 15:30 - Zuzana Vatehová (Acad. Sci. Bratislava): Cell wall modification of *Zea mays L.* plants treated with cadmium

15:30 - 15:50 - Tomáš Zavřel (CzechGlobe Brno): Dynamics and constraints of batch culture growth of *Synechocystis* sp. PCC 6803

15:50 - 16:10 - Wioletta Brankiewicz (University of Lublin): The influence of reactive oxygen species to the bioelectric signals of liverwort *Conocephalum conicum*

16:10 - 16:30 - Eva Tomaščíková (Acad. Sci. Olomouc): Protein interactions of *Arabidopsis* RanBPM homologue reveal conservation of CTLH

**16:30 - 18:30 - Poster session**

16:30 - 17:30 - Odd numbers (1, 3, 5, ...)

17:30 - 18:30 - Even numbers (2, 4, 6, ...)

19:00 - 23:00 - *Conference Party (Restaurant Železná růže)*

## Wednesday, September 5, 2012, Vinařská dormitory

- 9:00 - 9:30 - **Invited talk** - Prof. Zdeněk Opatrný (Charles University, Prague): Plant cell lines as experimental models of postgenomic biology: their privileges and limitations
- 9:30 - 10:30 - **talk 17-19, Continuation of the Section 2**
- 9:30 - 9:50 - Danica Kučerová (Acad. Sci. Bratislava): Effect of galactoglucomannan oligosaccharides and cadmium on the growth and development of *Arabidopsis thaliana* primary root
- 9:50 - 10:10 - Martin Rozmoš (Masaryk University, Brno): Do strigolactones really affect branching of arbuscular mycorrhizal mycelium?
- 10:10 - 10:30 - Ladislav Šigut (University of Ostrava): Does long-term cultivation under elevated CO<sub>2</sub> concentration influence acclimation of assimilatory processes to temperature?
- 10:30 - 10:50 - *Coffee break*
- 10:50 - 12:30 - **talk 20-24, Continuation of Section 2**
- 10:50 - 11:10 - Jana Klásková (Acad. Sci. Olomouc): New generation of potential inhibitors of cytokinin oxidase/dehydrogenase from *Arabidopsis thaliana*
- 11:10 - 11:30 - Lucie Maršálová (ICT Prague): Plant Integral Membrane Proteins and Herbiced or what does not kill you makes you stronger
- 11:30 - 11:50 - Kristina Felcmanová (Acad. Sci. Třeboň): Influence of enhanced CO<sub>2</sub> concentration on regulation of photosynthesis in diazotrophic cyanobacteria
- 11:50 - 12:10 - Eliška Ježilová (Acad. Sci. Olomouc): Stomatal opening under blue light and growth parameters of tomato mutant 7B-1
- 12:10 - 12:30 - Halyna Korovetska (Masaryk University, Brno): How plants sense the reduced water availability?
- 12:30 - 13:30 - *Lunch*
- 13:30 - 14:50 - **talk 25-28, Section 3 (Systematics & Evolution)**
- 13:30 - 13:50 - Sonja Klemme (IPK Gatersleben): DNA composition and evolution of a selfish chromosome
- 13:50 - 14:10 - Tereza Hasíková (University of Ostrava): The genus *Tetracystis* (Chlamydomonadales, Chlorophyceae): another highly polyphyletic taxon of coccoid green algae
- 14:10 - 14:30 - Grzegorz Migdalek (Cracow University): The systematic position of violets from metal-polluted areas in light of embryological and molecular studies

14:30 - 14:50 - Eva Žižková (Acad. Sci. Prague): Cytokinin metabolic pathways in evolutionary older non-vascular organisms

14:50 - 15:15 - *Coffee break*

**15:15 - 16:30 - Sponsor Section**

15:15 - 15:30 - Jiří Brzobohatý (Sigma-Aldrich spol. s r. o.): Sigma-Aldrich - Your partner in plant research

15:30 - 15:45 - Monika Džuganová (GATC Biotech): Multiplatform-based sequencing: combining libraries, sequencing technologies and software tools

15:45 - 16:00 - Jan Zástěra (Genomac International, Ltd.): DNA sequencing and DNA sequencers, how to navigate in a dense jungle of technologies and devices

16:00 - 16:15 - Lucie Nováková (M.G.P. spol. s r. o.): Introducing the Newest Member of the NanoDrop Family: NanoDrop™ Lite

16:15 - 16:30 - Ludmila Lukeszová (Bio-Consult Laboratories s.r.o.): QIAGEN - revolutionary technologies and chemistry

16:30 - *Closing remarks, awards for the best lectures*