

Functional Genomics and Proteomics for Sustainable Agriculture 2012

conference to be held on occasion of 190th anniversary of birth of Gregor Mendel

venue:

Mendel Museum, Augustinian Abbey
Mendel Square 1, Brno, Czech Republic

June 13-14, 2012

Program

June 13, 2012

8:00-

Registration

8:45-9:00

Welcome Address

Martinec, Lukáš Evžen – Abbot, Augustinian Abbey, Brno
Procházka, Stanislav – Rector Emeritus, Mendel University, CEITEC, Brno
Schmidt, Josef – Managing Director, Gregor Mendel Gesellschaft Wien

Morning session

Chairman: Griga, Miroslav

9:00-9:40

Smýkal, Petr (Palacký University, Olomouc, Czech Republic)
“Pea entering genomic era, 150 years after Mendel discovery”

9:40-10:20

Burstin, Judith (INRA, UMR Genet & Ecophysiologie Legumineuses 102, F-21065 Dijon, France)

“RNAseq transcriptome de novo assembly in pea: a new genomic resource for deciphering the pea genetic variability”

10:20-10:45

Balla, Jozef (CEITEC MENDELU, Brno, Czech Republic)
“Shaping plant body architecture – lessons from pea”

10:45-11:15

Coffee break

11:15-12:00

Doležel, Jaroslav (Centre of the Region Haná for Biotechnology and Agriculture, Olomouc, Czech Republic)
“Chromosome genomics reveals the secrets of hereditary information in grasses”

12:00-12:45

Kovařík, Aleš (Institute of Biophysics AS CR, v.v.i., Brno, Czech Republic)
"Evolution, structure and dynamics of plant polyploid genomes"

12:45-14:30

Lunch, networking, poster viewing (odd numbers)

Afternoon session

Chairman: Smýkal, Petr

14:30-15:15

Vollman, Johann (University of Natural Resources and Life Sciences, Vienna, Austria)
"Mendelian factors and their continuous importance in plant breeding"

15:15-16:00

Fluch, Silvia (AIT Tulln, Austria)
"Applying Mendel's rules on African crops – sesame breeding in Uganda"

16:00-16:45

Coffee break

16:45-16:56

Ali, Muhammad Amjad (University of Natural Resources and Life Sciences, Vienna, Austria)
"pMAA-Red: a new vector for fast visual screening of transgenic lines at the seed stage"

16:56-17:07

Abbas, Amjad (University of Natural Resources and Life Sciences, Vienna, Austria)
"Leaf specific thionin gene in Arabidopsis thaliana comprises antimicrobial properties"

17:07-17:18

Kuderová, Alena (CEITEC, Masaryk University, Brno, Czech Republic)
"Identification of cytokinin receptors of Brassica napus"

17:18-17:29

Žďárská, Markéta (CEITEC, Masaryk University, Brno, Czech Republic)
"Proteome regulation in Arabidopsis reveals shoot- and root-specific effects of cytokinins on hormonal homeostasis"

17:29-17:40

Kuklová, Alena (CEITEC, Mendel University, Brno, Czech Republic)
"Light and cytokinin interactions in regulating elongation of the Arabidopsis hypocotyl"

17:40-17:51

Kiran, Nagavalli S. (CEITEC, Mendel University, Brno, Czech Republic)
"The cytokinin metabolic network at the cellular level – better access with new tools"

17:51-18:02

Mazura, Pavel (CEITEC, Mendel University, Brno, Czech Republic)
"Developing protein tools for bioengineering the plant hormone system"

18:02-18:13

Novák, Jan (CEITEC, Mendel University, Brno, Czech Republic)

“Increased Levels of Cytokinins Induce HR-like Cell Death”

18:13-18:24

Benítez, Mariana (CEITEC, Masaryk University, Brno, Czech Republic)

“Dynamic model for cell-fate determination and patterning in the vascular bundles of Arabidopsis thaliana”

18:24-18:45

Růžička, Kamil (CEITEC, Masaryk University, Brno, Czech Republic)

“PX1 regulates protoxylem cell fate via RNA processing”

19:00-?

Dinner

June 14, 2012

8:30-

Registration

Morning session

Chairman: Brzobohatý, Břetislav

9:00-9:20

Takáč, Tomáš (Centre of the Region Haná for Biotechnology and Agriculture, Olomouc, Czech Republic)

“Proteomic and cell biology approaches to study vesicular traffic in plants”

9:20-9:40

Černý, Martin (CEITEC MENDELU, Brno, Czech Republic)

“Cytokinin: on the crossroads to temperature perception?”

9:40-10:25

Hirt, Heribert (INRA/CNRS – URGV, Evry, France)

“The contribution of plant genetic engineering to 21st century sustainable agriculture”

10:25-10:45

Galuszka, Petr (Centre of the Region Haná for Biotechnology and Agriculture, Olomouc, Czech Republic)

“Transgenic alteration of cytokinin metabolism in order to improve agricultural traits of barley”

10:45-11:15
Coffee break

11:15-12:00
Weckwerth, Wolfram (University of Vienna, Austria)
"From Gregor Mendel to Plant Systems Biology"

12:00-12:45
Busch, Wolfgang (Gregor Mendel Institute, Vienna, Austria)
"Approaching genetic complexity in plants - From Mendel's single genes to multigene networks"

12:45-14:30
Lunch, networking, poster viewing (even numbers)

Afternoon session
Chairman: Kiran, Nagavalli S.

14:30-15:15
Heinze, Berthold (BFW, Vienna, Austria)
"Beyond Mendel? How forest trees develop and adapt complex traits in changing environments"

15:15-16:00
Laimer, Margit (University of Natural Resources and Life Sciences, Vienna, Austria)
"Functional genomics in energy plants"

16:00-16:45
Franz, Chlodwig (University of Veterinary Medicine, Vienna, Austria)
"Mendelism and neo-Mendelism of some essential oil components"

16:45-17:00
Closing address

17:00-17:30
Farewell Coffee