

## Conference programme

### 7th September **MENDEL MUSEUM**

11.00–15.00 *Arrival and Registration in Mendel Museum (there will be a possibility to visit Mendel Museum during registration)*

#### **Chairpersons: M. Jarkovská**

15.30–16.15 Introductory Lecture: Mendel and his life, O. Dostál

16.15–17.00 Introductory Lecture: What happens in Mendel's paper, G. Radick

17.00–17.30 *Coffee break*

17.30–18.15 Introductory Lecture: Mendel's factors today, N. Ellis

18.30–18.45 *Tour to Mendel's beehouse (for those who are interested)*

### 8th September **University conference center – cinema Scala**

8.00–12.00 *Arrival and Registration in Scala (for those who haven't registered on Monday)*

#### **From Mendel to population genomics**

#### **Chairpersons: N. Ellis / K. McPhee**

9.00–9.45 On the trail to making quantitative genetics Mendelian, E. Buckler

9.45–10.00 *Coffee break*

10.00–10.25 The impact of pathogenomics in unravelling the genetic basis of quantitative disease resistance in crops: the case of ascochyta blight of field pea, J. Lichtenzweig

10.25–10.50 The bias observed in Mendel's  $f_2$  data is due to problems with ambiguous phenotypes and penetrance rather than an attempt to match expected ratios, N. Weeden

10.50–11.10 Natural selection and adaptation in pea and adzuki bean, R. Redden

11.10–11.45 Genetics and biology of crops domestication, P. Smýkal

11.45–12.45 *Lunch*

## Where is the message? – Genome structure

**Chairpersons: R. Hobza / J. Lichtenzweig**

- 13.00–13.45 Genomes within genomes within genomes with *Gossypium*: the mysteries of recurrent polyploidy in angiosperms, with examples from the cotton genus, J. Wendel
- 13.45–14.30 Untangling complex plant genomes using chromosome-centric approaches, J. Doležel
- 14.30–14.50 *Coffee break*
- 14.50–15.35 Pea genomic tools for functional and structural approaches J. Burstin
- 15.35–15.55 A suite of mutants that modify leaf pattern formation in pea, J. Hofer
- 15.55–16.15 How did barley species (*Hordeum*, Triticeae) obtain ribotypes from panicoid grasses?, J. Fehrér
- 19.30 ***Galla Dinner in Restaurant at the Queen Elisabeth (located in the Augustinian Abbey in Old Brno)***

## 9th September University conference center – cinema Scala

### Non-Mendelian genetics

**Chairpersons: R. Varshney / B. Vyskot**

- 9.00–9.45 Non-Mendelian genetics, O. Mittelsten Scheid
- 9.45–10.00 *Coffee break*
- 10.00–10.25 From Legume Genetics to Genomics in Undergraduate Education, S. Singer
- 10.25–10.45 Genetic control of stem apical meristem activity in pea: 150 years of *Pisum umbellatum*, A. Sinjushin
- 10.45–11.15 Recently formed allopolyploid systems as natural genetic laboratories, A. Kovářik
- 11.15–11.35 Biotech flax and pea – the Agritec experience, M. Griga
- 11.35–12.45 *Lunch*

## Reproduction without sex

**Chairpersons: A. Kovařík / R.Thompson**

- 13.00–13.45 From Mendel's enigmatic Hieracium-hybrids to the Mendelian Genetics of Apomixis, P. van Dijk
- 13.45–14.05 Population genetics under partial asexuality – revisiting Mendel's hawkweed study, K. Reichel
- 14.05–14.25 How just a few makes a lot: Origin of diversity in apomictic complexes on example of european brambles (Rubus subgen. Rubus, Rosaceae), M. Sochor
- 14.25–14.45 *Coffee break*
- 14.45–15.05 Specific features of sex chromosome evolution in plants and animals, R. Hobza
- 15.05–15.25 On the origin of *Vicia cracca* autotetraploids in Central Europe, A. Eliašová
- 15.25–15.45 Shaping plant architecture – lessons from pea, J. Balla
- 15.45–16.05 Gene interactions regulating leaf formation in *Pisum sativum*, M. Eléouët
- 16.05–16.20 'Diamant' jubilee, L. Ohnoutková
- 16.20–17.00 *Chaired poster section*
- 19.30–21.00 **Concert in Mendel Museum**  
**Violin duo Lyriko – Magdalena and Štěpán Graffe**  
  
Antonio Vivaldi Sonata for two violins in B flat major  
  
Bohuslav Martinů Etudes faciles for two violins  
  
Jan Václav Kalivoda: Duo for two violins in D minor, op. 180

**10th September Secondary school, Jánská 22, Brno**  
former seat of Natural History Society where Mendel presented his famous lectures Experiments in Plant Hybridization in 1865

## From genes to phenotypes

**Chairpersons: T. Warkentin / I. Frebort**

- 9.00–9.45 Hormonal signals as a link between genes to phenotypes, C. Rameau

- 9.45–10.00 *Coffee break*
- 10.00–10.45 Linking Genotypes and Y<sup>6</sup> stability Phenotypes, D. Zamir
- 10.45–11.15 Mendel's green cotyledon gene, its variants and impact on phenotype, C. Domoney
- 11.15–11.40 Discovering the Genetic Architecture of Dietary Fiber and Oligosaccharide Content in Common Bean (*Phaseolus vulgaris*), M. A. Brick
- 11.40–12.45 *Lunch*

## **The impact. Plant breeding and agriculture**

**Chairpersons: P. Smýkal / C. Domoney**

- 13.00–13.45 Translational genomics for plant breeding and agriculture: an example in chickpea R. Varshney
- 13.45–14.05 Soybean breeding for food security, K. D. Bilyeu
- 14.05–14.25 Current status of pea breeding internationally, Tom Warkentin
- 14.25–14.45 *Coffee break*
- 14.45–15.05 Engineering barley for enhanced drought tolerance, I. Frébort
- 15.05–15.25 Transparent testa mutants of *Arabidopsis thaliana* as examples for forward and reverse genetics using t-DNA insertion lines, B. Weishaar
- 16.00 *The conference closing ceremony*

## **11th September Postconference tour (Hynčice – Mendel's birth place, museum) – to order**

- 8:30 departure from Mendel square, Brno
- 11:00 visit of the birthplace of G. J. Mendel in Hynčice
- 13:30 lunch in Slavkov and short visit of historical square
- 15:45 Augustinian's wine cellars in Sardice, wine tasting
- 19:00 return to a Mendel square in Brno