

Monday, September 6th 2010

09.00 - 09.30 Otvoritev / Opening ceremony

1 KROŽENJE OGLJIKA / CARBON CYCLING

Predsedujoči / Chair: H. Kraigher, A. Peressotti

09.30 - 10.15 **C.P. Andersen:** Ozone stress and below-ground carbon dynamics: Where do we go from here? (1-IL1).

10.15 - 10.30 **U. Vilhar:** Carbon dynamics of a beech stand after man-made disturbances (1-SL1).

10.30 - 10.45 **P. Hafner:** Climate signal in tree-ring width and stable isotope composition in European larch (*Larix decidua*) (1-SL2).

10.45 - 11.15 *Odmor / Break*

11.15 - 11.45 **A. Peressotti:** Soil respiration as a part of carbon balance of ecosystems: concepts and applications (1-IL2).

11.45 - 12.15 **Z. Nagy:** Carbon balance of surfaces vs ecosystems: advantages of measuring eddy covariance and soil respiration simultaneously in dry grassland ecosystems (1-IL3).

12.15 - 12.30 **D. Vodnik:** The carbon cycle of woody plants invaded dry calcareous pastures (1-SL3).

12.30 – 12.45 **G. Alberti:** Linking water and carbon in Mediterranean ecosystems (1-SL4).

12.45 - 13.15 **Poster sekcija 1-5/ Poster sessions 1-5**

(vse sekcije / all sessions)

13.15 - 14.15 *Kosilo / Lunch*

2 ABIOTSKE INTERAKCIJE / ABIOTIC INTERACTIONS

Predsedujoči / Chair: D. Vodnik, Z. Nagy

14.15 - 14.45 **D. Eichert:** Perspectives and opportunities in plant science research of synchrotron microscopy and spectroscopy techniques (2-IL1).

14.45 - 15.15 **K. Vogel-Mikuš:** Studies of Cd accumulation and tolerance mechanisms from organ to molecular level in a Cd hyperaccumulator *Thlaspi praecox* using X-ray techniques (2-IL2).

15.15 - 15.45 **Ž. Vidaković-Cifrek:** Physiological and biochemical aspects of cadmium interaction with copper and zinc in *Lemna minor* (2-IL3).

15.45 - 16.00 **A. Gaberščik:** Strategies of UV-B absorbing substances production (2-SL1).

16.00 - 16.30 *Odmor / Break*

16.30 - 17.30 **Poster sekcija 2 / Poster sessions 2**
(2 Abiotske interakcije / Abiotic interactions)

17.30 - *Otvoritvena večerja (žar) / Welcome dinner (barbeque)*

Tuesday, September 7th 2010

3 RAST IN RAZVOJ / GROWTH AND DEVELOPMENT

Predsedujoči / Chair: V. Meglič, T. Roitsch

- 09.00 - 09.45 **M. Freeling:** A fractionating tetraploidy that happened 10 MYA in the *Zea* lineage changed gene content, gene expression and explains the huge heterosis and genetic diversity characterizing maize today (3-IL1).
- 09.45 - 10.15 **M. Dermastia:** Amazing maze of maize and other cereal endoreduplication (3-IL2).
- 10.15 – 10.45 **A. Lebeda:** Biodiversity of wild *Lactuca* spp., their evaluation and exploitation (3-IL3).
- 10.45 - 11.15 *Odmor / Break*
- 11.15 - 11.45 **T. Roitsch:** Role of carbohydrate partitioning for plant growth and development (3-IL4).
- 11.45 - 12.15 **H. Fulgosi:** Unexpected links connecting photosynthesis with plant stress responses (3-IL5).
- 12.15 - 12.30 **D. Vinterhalter:** Phototropic response of potato shoot cultures (3-SL1).
- 12.30 - 13.15 **Poster sekcija 3 / Poster session 3**

(3 Rast in razvoj / Growth and development)

13.15 - 14.15 *Kosilo / Lunch*

Predsedujoči / Chair: J. Dolenc Koce, Ž. Vidaković-Cifrek

14.15 - 14.45 **T. Grebenc:** Postglacial migration of truffles in Europe (3-IL6).

14.45 - 15.15 **J. Gričar:** Monitoring seasonal dynamics of xylem and phloem formation in trees – the state of the art (3-IL7).

15.15 - 15.30 **P. Prislan:** Cambial activity and wood formation in beech (*Fagus sylvatica*) studied with different techniques (3-SL2).

15.30 - 15.45 **M. Merela:** Characteristics of reaction zones in beech (*Fagus sylvatica*) (4-SL3).

15.45 - 16.00 **K. Čufar:** Spatial and temporal variability in tree-ring widths and leaf phenology of beech from different sites in Slovenia (3-SL4).

16.00 – 16-15 **K. Novak:** Wood formation and cambial activity in *Pinus halepensis* from three sites in Spain (3-SL5).

16.15 - 16.45 *Odmor / Break*

1. **I. Janković:** Influence of stress-hormone treatments (ABA, SA, JA) on the *Brassica rapa* seedlings
2. **I. Štraus:** Phenological stage of beech seedlings (*Fagus sylvatica* L.) in rizotrons
3. **M. Frlic, E. Kovačec:** Effects of CuO nanoparticles on growth and development of sunflower (*Helianthus annuus* L.)
4. **M. Chersicola, L. Gregur:** Effects of TiO₂ nanoparticles on growth and development of sunflower and maize
5. **E. Džafić:** Arbuscular mycorrhizal fungus *Glomus mosseae* eliminates autotoxic effects in maize (*Zea mays* L.)
6. **M. Rupar:** The first detection of a phytoplasma from the 16SrV (Elm yellows) group in the mosaic leafhopper *Orientus ishidae*

Wednesday, September 8th 2010

4 BIOTSKE INTERAKCIJE / BIOTIC INTERACTIONS

Predsedujoči / Chair: M. Dermastia, M. Dickinson

- 09.00 - 09.45 **R. Visser:** Keys to durable resistance strategies in crop plants (4-IL1).
- 09.45 - 10.15 **K. Gruden:** Deciphering biology of potato - PVY interaction (4-IL2).
- 10.15 - 10.30 **M. Pompe Novak:** Distribution and relative quantification of Potato virus Y^{NTN} RNA and viral particles in potato plants (4-SL1).
- 10.30 - 10.45 **D. Dobnik:** Functional analysis of genes involved in potato-PVY interaction (4-SL2).
- 10.45 - 11.15 *Odmor / Break*
- 11.15 - 11.45 **A. Urbanek Krajnc:** Application of salicylic acid induces antioxidant defense responses in the phloem of *Picea abies* after attack by *Ips typographus* (4-IL3).
- 11.45 - 12.15 **S. Širca:** Host response to infection with plant-parasitic nematodes (4-IL4).

12.15 - 13.15 **Poster sekciji 4 - 5 / Poster sessions 4 - 5**

(4 Biotske interakcije / Biotic interactions, 5 Aplikativna botanika / Applied botany)

13.15 – 14.15 *Kosilo / Lunch*

5 APLIKATIVNA BOTANIKA / APPLIED BOTANY

Predsedujoči / Chair: K. Gruden, R. Visser

14.15 - 14.45 **M. Germ:** Beneficial role of selenium in plants (5-IL1).

14.45 - 15.15 **S. Mandelc:** Proteomic studies of *Verticillium* wilt of hop (5-IL2).

15.15 - 15.30 **U. Čepin:** One-step RT real-time PCR assay for the detection and quantification of Grapevine fanleaf virus (5-SL1).

15.30 - 15.45 **Š. Baebler:** GoMapMan: helping plant scientist fight the omics data (5-SL2).

15.45 - 16.00 **M. Buh Gašparič:** Recombinant protein purification - from *Arabidopsis* seed extracts to vaccine (5-SL3).

16.00 – 16.45 **M. Dickinson:** The development of new methods for phytoplasma diagnostics (5-IL3).

16.45 - 17.15 *Zaključek / Closing*