

Programme of 30th Meeting of EUCARPIA Fodder Crops and Amenity Grasses Section

Sunday, 12 May

14:30-17:30 ***Festulolium Workshop / 3rd Festulolium Working Group Meeting (Small hall)***

18:00-20:00 Registration and poster setting

20:00 Welcome reception

Monday, 13 May

08:00-09:00 ***Registration and poster setting***

09:00-09:45 ***Opening ceremony*** - Welcome addresses (*Main conference auditorium*)

09:45-11:00 ***Introductory lectures*** (*Main conference auditorium*)

Chairpersons: Dirk Reheul, University of Gent, Belgium and Zoran Lugić, Institute for forage crops, Kruševac, Serbia

09:45-10:15 Introductory lecture: *Grasslands and forage crops in Serbia: production and breeding.* Dejan Sokolović, Jasmina Radović, Zoran Lugić (Institute for forage crops, Kruševac, Serbia), Aleksandar Simić (Agriculture faculty, Belgrade University, Serbia)

10:15-11:00 Introductory lecture: *Forage and grasslands in a sustainable agriculture. New challenges for breeding.* Christian Huyghe (INRA, France) and Charles Brummer (Noble Foundation, USA)

11:00-11:40 Opening Cocktail

11:40-19:20 ***Session1 “Genetic variability in forage productivity and quality and its exploitation through breeding”*** (*Main conference auditorium*)

11:40-13:10 ***Invited papers Session 1 “The value of genetic resources for the improvement of complex traits”***

Chairperson: Luciano Pecetti, CRA-FLC, Lodi, Italy

11:40-12:25 Invited paper: *Ex situ conservation of genetic resources of forage and turf species.* Evelin Willner (IPK Genbank, Malchow, Germany)

12:25-13:10 Invited paper: *Characterization of alfalfa *Medicago sativa* genetic resources.* Isaak Rashal and Dace Grauda (Institute of Biology, University of Latvia, Latvia)

13:10-14:25 Lunch (*Hotel restaurant*)

14:25-15:55 ***Invited papers Session 1 bis “Exploiting genetic diversity for complex traits”***

(Main conference auditorium)

Chairperson: Daniel Thorogood, IBERS, Aberystwyth, UK

14:25-15:10 Invited paper: *Characterization of genetic diversity for resistance and quality traits using molecular tools.* Tom Ruttink, Hilde Muylle (ILVO, Belgium), Susanne Barth (Teagasc, Ireland)

15:10-15:55 Invited paper: *Association mapping approaches for characterizing complex traits in forage species.* Torben Asp (University Aarhus, Denmark)

15:55-19:20 **Offered papers Session 1** (Main conference auditorium)

Chairperson: Baldomero Alarcon-Zuniga, UAC, Texcoco, Mexico

15:55-16:15 Valentina Nanni, Marilena Paolini, Angelo Innocenti, Paolo Mulè, Mirella Vargiu (Italy): A breeding program started from contrasting genotypes of alfalfa (*Medicago sativa* L.), as characterized in the frame of the PERMED project

16:15-16:35 Mirjana Petrović, Zoran Lugić, Zora Dajić-Stevanović, Bojan Anđelković, Jordan Marković, Vladimir Zornić (Serbia): Variability of alsike clover (*Trifolium hybridum* L.) natural populations from Serbia

16:35-18:00 Coffee break with **Poster Session 1** (Poster hall)

16:45-18:00 EUCARPIA Section Board meeting (Small hall)

18:00-18:20 Marc Ghesquière, Philippe Barre, Jean-Louis Durand, Isabelle Litrico, Jean-Paul Sampoux, Pierre Mournet, Florence Volaire (France): Genetic response to climate scenarios within *Dactylis* and *Festuca* of temperate vs Mediterranean origin.

18:20-18:40 Tomáš Vymyslický, Zdeněk Musil (Czech Republic): Monitoring of vegetation changes in selected sinkholes in the Moravian karst.

18:40-19:00 Tim Vleugels, Joost Baert, Erik van Bockstaele (Belgium): Evaluation of a diverse collection of red clover germplasm for susceptibility to clover rot (*Sclerotinia trifoliorum*) and other important traits

19:00-19:20 Poster talks Session 1

*Jana Repková et al. (Czech Republic): Interspecific hybrids *Trifolium pratense* x *Trifolium medium* as the source of new diversity.*

Mathias Cougnon et al. (Belgium): Factors influencing preference of tall fescue genotypes for grazing sheep.

*Sanja Vasiljević et al. (Serbia): Genetic diversity of red clover (*Trifolium pratense* L.) determined by phenotypic traits and SSR molecular markers.*

*Daniela Knotová et al. (Czech Republic): The utilisation of wild *Fabaceae* species in grasslands.*

19:30 Welcome Cocktail – “**Serbian evening**”

Tuesday, 14 May

Mid-conference tour (tentative program)

09:00- 09:15 Meeting and departure (infront of the hotel)

10:00-13:00 Experimental field of the Institute for forage crops, Kruševac

13:30-15:00 Lunch

16:15-18:15 Visit to dairy farm Lazar - Blace

19:15-21:15 Guided tour in old town Krusevac and Cocktail in Town hall - **Mosaic evening**

22:00 Arrival time to V. Banja. (approximately)

Wednesday, 15 May

09:00-13:30 **Session 2 “New biotechnology methods in sustainable breeding: strategies and implementation”**

“Paving the way to more efficient breeding strategies” (Main conference auditorium)

09:00-11:15 **Invited papers Session 2**

Chairperson: Isabel Roldan-Ruiz, ILVO, Belgium

09:00-09:45 Invited paper: *Genomics of leaf lifespan: modifying the leaf senescence.* Karin Krupinska (Christian Albrecht University, Kiel, Germany)

09:45-10:30 Invited paper: *Functional genomics of grass reproductive traits– paving the way towards hybrid breeding in forage and turf grasses.* Bruno Studer (ETH Zurich, Switzerland)

10:30-11:15 Invited paper: *Emerging knowledge from genome sequencing of model and crop species.* Aleksandar Mikić (IFVCNS, Novi Sad, Serbia), Bernadette Julier, Frédéric Debelle (INRA, France), Luigi Cattivelli (GRC, Italy), Ian Armstead (Aberystwyth University, UK)

11:15-12:00 Coffee break with **Poster Session 2 (Poster hall)**

12:00-13:30 **Offered papers Session 2 (Main conference auditorium)**

Chairperson: Bernadette Julier, INRA, Lusignan, France

12:00-12:20 Dawid Perlikowski, Arkadiusz Kosmala, Izabela Pawłowicz, Marcin Rapacz, Janusz Kościelniak, Zbigniew Zwierzykowski (Poland): Influence of short-term drought conditions and subsequent re-watering on the physiology and proteome of *Lolium multiflorum* / *Festuca arundinacea* introgression forms with contrasting levels of tolerance to long-term drought

12:20-12:40 Daniel Thorogood, Matthew Hegarty, Ros Mathews, Debra Allen, James MacDuff (UK): A genetic association between leaf elongation rate and flowering time in perennial ryegrass.

12:40-13:00 Janaki Velmurugan, Dan Milbourne, Chris Creevey, Helena Meally, Linda Cardle, David Marshall, Micha Bayer, Matthew McCabe, Bridget Lynch, Susanne Barth (Ireland): A cost effective approach to generate a large number of markers for genotyping in perennial ryegrass suitable for whole genome association studies.

13:00-13:30 Poster talks Session 2

Meraluna Canunayon et al. (UK): Identification of QTLs for leaf senescence in perennial ryegrass (*Lolium perenne* L.).

Dragan Milić et al. (Serbia): Heterosis in alfalfa breeding.

Schubiger Franz Xaver et al. (Switzerland): Inheritance of crown rust resistance in a perennial ryegrass genotype of the cultivar Arvella.

Joost Baert et al. (Belgium): Variation of cell wall digestibility in fodder grasses and a perennial ryegrass breeding pool.

Kovi Mallikarjuna Rao et al., (Norway): Transcriptome profiling under hardening/de-hardening conditions in *Lolium perenne* by RNA-sequencing

Ottilia Nhengiwa (Germany): Breeding of rye grass varieties adapted to biotic and abiotic stress by integration of innovative genomic and metabolomic tools.

13:30-14:40 Lunch (*Hotel restaurant*)

14:40-16:10 **Session 3 “Turf grass breeding” (invited session)** (*Main conference auditorium*)

Chairperson: Niels Peter Roulund, DLF -TRIFOLIUM, Denmark

14:40-15:25 Invited paper: *Recent achievements in breeding for turf quality under various biotic and abiotic stress.* Trygve Aamlid (Bioforsk, Norway), Vincent Gensollen (Geves, France)

15:25-16:10 Invited paper: *Selection of grasses for lawn tennis use (interaction between variety and turf management).* Andy Newell (STRI, UK)

16:10-16:50 Coffee break

16:20-17:50 **Workshop: Public-Private Partnership - constrains and opportunities.** Moderators: Ulrich Posselt (University of Hohenheim, Germany) and Charles Brummer (Noble Foundation, USA) (Small hall)

17:50-18:50 **General assembly of EUCARPIA section** (*Main conference auditorium*)

19:45 **The night of Serbian tradition**

19:45-20:30 Concert of Serbian folk dances, music and songs (Cultural association 14th October, Kruševac) (*Main conference auditorium*)

20:30 Conference dinner (*Hotel crystal hall*)

Thursday, 16 May

09:00-12:20 **Session 4 “Breeding for new roles of multifunctional forage species”**
(Main conference auditorium)

09:00-10:30 **Invited papers Session 4**

Chairperson: *Jasmina Radović, Institute for forage crops, Kruševac, Serbia*

09:00-09:45 Invited paper: *Breeding for healthy hay: Optimizing plant polyphenols in Legumes for ruminant nutrition, animal health and environmental sustainability.* Irene Muller-Harvey (University of Reading, UK)

09:45-10:30 Invited paper: *Can genome scans be combined to environmental information to improve the use of collection of natural diversity as genetic resource for forage and turf breeding.* Jean-Paul Sempoux (Inra, Lusignan, France)

10:30-10:50 **Section history, summary of the last 10 meetings** Ulrich Posselt (University of Hohenheim, Germany)

10:50-12:20 **Offered papers Session 4**

Chairperson: *Tomáš Vymyslický, Agricultural research, Ltd., Troubsko, Czech Republic*

10:50-11:20 Joint presentation, Ulf Feuerstein, Anita Swieter (Germany): Fair evaluation of yield and quality potential in forage species evaluation; Monitoring, analysis and modeling of yield and quality dynamics of *Lolium perenne* varieties for biogas production

11:20-11:50 Coffee break with **Poster Session 4 (Poster hall)**

11:50-12:10 Goran Jevtić, Bojan Anđelković, Jasmina Radović (Serbia): Effect of alfalfa cultivar on pollinator visitation, seed yield and yield components

12:10-12:20 Poster talks Session 4

*Aina Ramsay et al. (UK): Condensed tannin analysis by thiolytic degradation in sainfoin (*Onobrychis viciifolia*) silage.*

*Dušica Delić et al. (Serbia): Effect of different rhizobacteria on alfalfa, *Medicago sativa* L. yield by inoculation of a preceding oats, *Avena sativa* L.*

12:20-13:10 **General conclusions and Closing ceremony (Main conference auditorium)**

13:10-14:30 Lunch (*Hotel restaurant*)

15:00 Charter busses departure to Belgrade (*Infront of the hotel*)

15:00 Post-conference tour departure (*Infront of the hotel*)