CONFERENCE PROGRAM

Thursday 15 September

08:30 - 09:00 Registration

Opening session

- 9:00 Welcome address (Maja Ravnikar, director of National Institute of Biology, Špela Baebler, president of the organizing comitee)
- 9:15 Opening lecture: Maria J. Pozo: Beneficial microbes enhance plant phenotypic and metabolic plasticity to cope with stress

Session 1: Applied plant biology research and agronomy applications (chairs: Alessandra di Francesco & Saša Širca)

- 9:50 Alessandra di Francesco: *Aureobasidium pullulans* as an alternative and sustainable strategy in agriculture (IL1)
- 10:20 Nina Devrnja: Characterization of β -cyclodextrin fennel and basil essential oil inclusion complexes and effect on Colorado potato beetle growth (SL1)

10:35 - 11:05 Coffee break & posters

- 11:05 Saša Širca: Belatedly climate changes affects the spread of tropical pests in agriculture (IL2)
- 11:35 Denis Kutnjak: Virome of tomato, weed plants and water in agroecosystems in Slovenia (SL2)
- 11:50 Ana Vučurović: Tomato mottle mosaic virus: newly discovered enemy affecting tomatoes and peppers (SL3)
- 12:05 Ales Lebeda: Wild and crop plant pathosystem interactions and variation: Case study Lactuca spp. *Bremia lactucae* (SL4)
- 12:20 Mojca Juteršek: Growth penalty in *Nicotiana benthamiana* insect sex pheromone biofactories involves transcriptional deregulation of stress-growth balance (SL5)

12:35 - 13:45 Lunch & posters

Session 2: Plant metabolism, structure and function (chairs: Katarina Vogel-Mikuš & Boris Lazarević)

- 13:45 Katarina Vogel-Mikuš: Application of X-ray-based techniques in plant biology (IL3)
- 14:15 Boris Lazarević: Plant phenotyping using chlorophyll fluorescence and multispectral imaging (IL4)
- 14:45 Maria Müller: Glutathione-mediated plant response to different light intensities and spectra (SL6)
- 15:00 Anna Gasperl: Glutathione concentrations differ in maize bundle sheath cell compartments, depending whether sulfur is supplied via hydrogen sulfide (H2S) or sulfate (SL7)

15:15 – 15:45 Coffee break & posters

Session 3: Plant interactions with other organisms (chair: Kristina Gruden)

- 15:45 Sarah Lebeis: Identifying chemicals that drive interactions between plants and microbes during microbiome assembly (IL5 online)
- 16:15 Marko Petek: Assembly of potato endophytes using Nanopore and Illumina sequencing (SL8)
- 16:30 Zala Kogej: Epidemiology and diversity of 16SrV phytoplasma group infecting grapevine and hazelnut (SL9)

17:00 Academy of the Slovenian Society of Plant Biology with lectures of the Society Awardees

Marina Dermastia: Years with my society

Dominik Vodinik: Atmospheric drying and plants

18:00 Welcome reception

19:00 Conference Dinner (Gostilna Čad, walking distance to the venue)

Friday 16 September

Session 3: Plant interactions with other organisms (chair: Maria J. Pozo)

- 9:00 Kristina Gruden: Study of spatial responses in combination with network analysis reveals mechanisms of potato stress signaling (IL6)
- 9:30 Maja Križnik: The role of small RNA regulatory networks in tolerance and resistance responses of potato to potato virus Y infection (SL10)
- 9:45 Anna Coll: The ethylene response factor StERF49 negatively regulates potato immunity (SL11)
- 10:00 Andrea Schubert: Leaf sucrose controls grapevine susceptibility to Flavescence Dorée (SL12)
- 10:15 Katarina Šoln: Allelopathy of invasive *Fallopia* plants induced oxidative stress in radish seedlings (SL13)

10:30 - 11:30 Coffee break & poster matchmaking

Session 4: Natural ecosystems in changing environment (chair: Marjana Westergren & Silvio Schueler)

- 11:30 Marjana Westergren: Evolutionary potential in natural populations of forest trees (IL7)
- 12:00 Silvio Schueler: Phenotypic plasticity and genetic variation in forests trees: understanding drivers and developing applications for forest adaptation (IL8)
- 12:30 Tanja Mrak: Response of *Quercus pubescens* ectomycorrhizal fungi to abiotic changes in the Slovenian Sub-Mediterranean (SL14)
- 12:45 Angela Balzano: Plasticity of wood and phloem formation in tree species from drought-prone environments (SL15)
- 13:00 Špela Pungaršek: The differentiation and distribution of alpine *Luzula* sect. *Luzula* species in the Eastern Alps (SL16)

13:15 – 14:30 Lunch & posters

Session 5: Plant interactions with environment (chair: Edith Stabentheiner & Mario Pezzotti)

- 14:30 Edith Stabentheiner: Stressphysiology the use of stress markers to evaluate oxidative stress (IL9)
- 15:00 Bekim Gashi: Response of onion plants to oxidative stress induced by heavy metals pollution of soils from industrial areas in Kosovo (SL17)
- 15:15 Maruša Pompe Novak: Grapevine in changing environment (SL18)

15:30 - 16:00 Coffee break

Closing session

16:00 Closing lecture: Mario Pezzotti: Grapevine biology in the post-genomics era

16:35 Concluding remarks

LIST OF POSTERS

App	lied plant biology r	esearch and agronomy applications
	Jana Ambrožič-	
P1	Dolinšek	Corn cockle (Agrostemma gitago) preparation exhibit plant growth regulator activity
		Cold plasma for effective decontamination of buckwheat grains artificially infected with
P2	Jure Mravlje	Fusarium graminearum
Р3	Eva Plestenjak	Morphological seed characterization of composite genetic resources of <i>Phaseolus</i> sp.
		Effect of drought and belowground herbivory on maize morphological and physiological
P4	Eva Praprotnik	features
		Effect of root inoculation of strawberry plants with entomopathogenic fungus Metarhizium
P5	Jaka Razinger	brunneum: hyperspectral analyses and plant physiology
P6	Jelena Savić	Role of glutathione in potato response to French marigold essential oil
		In vitro shoot propagation and regeneration of rocket (<i>Eruca sativa</i> Mill.) using
P7	Branka Vinterhalter	organogenesis and somatic embryogenesis
	C 1 : A *I	Antifungal activity of selected plant extracts obtained by supercritical fluid extraction using
P8	Sabina Anžlovar	CO2
P9	Silvija Gulin	In vitro bioavailability of phenolics from broccoli: Impact of high growing temperature
		Influence of temperature stress on the mass share of chlorophyll, lycopene, carotenoids
P10	Emilie Kokić	and porphyrins in broccoli
D11	Jelka Šuštar Vozlič	Surveying and inventorying of on-farm conservation of plant genetic resources for food and
P11	Jeika Sustar Voziic	agriculture in Slovenia
D12	Ionio Zoio	From glaciers to refrigerators: biocontrol potential of <i>Aureobasidium subglaciale</i> against
P12	Janja Zajc	pre- and postharvest plant pathogens
Plan	t metabolism, stru	
P13	Tinkara Božič	CEP2 protease expression and activation from the green alga Chlamydomonas reinhardtii
		Diversity and Content of Carotenoids and Other Pigments in the Transition from the Green
D1.4	Vana laža Cauliá	to the Red Stage of <i>Haematococcus pluvialis</i> Microalgae Identified by HPLC-DAD and LC-
P14	Veno Jaša Grujić Dijana Krstić	QTOF Gentiana clusii Perr.&Song. cultured in vitro - secondary metabolite profile and evaluation
P15	Milošević	of antioxidant activity
. 13	Katarina Petra van	Molecular characterization of <i>Chlamydomonas</i> metacaspases and their detection by
P16	Midden	activity-based protein profiling
P17	Hana Findurová	Crown reduction alleviates drought stress in sessile oak and Norway spruce seedlings
LT/	rialia i iliuul Ova	
P18	Valentina Stojilkovič	Imaging of element distribution in whole leaves of hyperaccumulating Noccaea sp. from Slovenia using table-top micro–X-ray fluorescence
1 10	valentina Stojnković	Metabolomic evaluation of five <i>Nepeta</i> species (fam. Lamiaceae) using liquid
P19	Uroš Gašić	chromatography with multistage mass spectrometry
1 13	O103 Gasic	
P20	Valentina Levak	Biosensor of jasmonic acid signaling pathway reveals spatiotemporal patterns of plant's immune response in potato (<i>Solanum tuberosum</i> L.)
7 20	valentina Levak	Structural diversity and bioactivity of biflavonoids from ginkgo (Ginkgo biloba L.), a "living
P21	Dunja Šamec	fossil" plant with exceptional adaptability to environmental changes
		· · · · · · · · · · · · · · · · · · ·
P22	Špela Tomaž	TGACG-binding (TGA) transcription factors in potato (<i>Solanum tuberosum</i> L.)
P23	Farzana Sabir	Role of Aquaporins For Water and Nutrients Balance in Cork Oak and Grapevine plants
	1	Liracking accounted carbon phenology of a karct cacondary toract using normanantly
P38	Klemen Eler	Tracking ecosystem carbon phenology of a karst secondary forest using permanently mounted phenocam



PLANTS IN CHANGING ENVIRONMENT

International conference of the Slovenian Society of Plant Biolog





Plants interactions with other organisms				
	Sandra Radić			
P24	Brkanac	Influence of grapevine leafroll-associated virus 3 on physiological indicators in grapevine		
225	Andreja Urbanek	Nutritional Effects of old Slovenian and Hungarian Mulberry Varieties on Silkworm's growth		
P25	Krajnc	and silk quality		
	Tjaša Mahkovec	Localisation studies of the multifunctional protein HCPro from potato virus Y in epidermal		
P26	Povalej	leaf cells of Nicotiana clevelndii using confocal microscopy		
Natu	ral ecosystems in	changing environment		
P27	Mateja Grašič	Conservation of priority grassland habitats in Slovenia through the establishment of seed bank and in situ restoration – project presentation		
P28	Eva Kristkova	Phenotype of Lactuca serriola L. from Central Chile and Argentina		
	Jasmina Nestorović	Chemical constituents and biological activities of two Nepeta species: N. cataria L. and N.		
P29	Živković	nuda L.		
P30	Eva Darenova	Stem CO2 efflux, growth respiration and stem increment of beech and spruce trees		
		Climatic regulation of leaf and cambial phenology in Quercus pubescens: their interlinkage		
P31	Jožica Gričar	and impact on xylem and phloem conduits		
P32	David Lenarčič	Physiological Changes in Pubescent Oak (<i>Quercus pubescens</i>) under Induced Drought Conditions		
P33	Nooduan Muangsan	Orchid diversity and conservation in Eastern Thailand		
Plan	ts interactions with	n environment		
P34	Sandra Vitko	Modified BPM expression alters phenotypic traits of Arabidopsis in response to heat stress		
P35	Dominik Vodnik	UV-A Stressing of Basil (Ocimum basilicum L.)		
P36	Jana Zekirovski	What happens with antioxidant potential of young broccoli under temperature stress?		
P37	Filip Komplet	Content of bioactive substances and potentially toxic elements in wild edible plants in Celje basin		