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Metapopulation dynamics of the Mistletoe *Psittacanthus robustus* Mart. (Loranthaceae) in savannas areas
Grazielle Teodoro, C D C Guimarães, G O Coelho, E van den Berg

P0192 – ePoster

Correlations among stem and leaf traits in six rock-outcrop savanna species
Grazielle S Teodoro, AL Muler, RS Oliveira

P0193 – ePoster

Gametophyte ecology of the American Hart's-tongue fern
Weston Testo and James Watkins, Jr

P0194 – ePoster

Genetic variation in photosynthetic response of wheat to elevated CO₂ in Australian grains free air carbon dioxide enrichment (AGFACE)
Lakmini Thilakarathne, Sabine Posch, Robert Norton, Glenn Fitzgerald, Michael Tausz, S Seneweera, M Borgeault

P0196 – ePoster

Floristic, edaphic and climatic aspects of an island forest in a doline on quartzitic rock fields at Itacolomi State Park, Brazil
Auria Tonaco, Hudson Baêta, Mariangela Leite, Alessandra Kozovits

P0197 – ePoster

Patterns of genetic variation in a native shrub of the drylands of southeast México
Sonia Trujillo-Argueta and Rafael del Castillo

P0198 – ePoster

Phenology of the Western Australian endemic *Persoonia longifolia* (Proteaceae), a highly recalcitrant species required for minesite restoration
Kerryn Chia, Shane Turner, John Koch, Kingsley Dixon

P0199 – ePoster

Determinants of geographic range size in the plant genus *Brachyotum* (Melastomataceae)
Carmen Ulloa, Iván Jiménez, David Bogler

P0200 – ePoster

Documentation of endemic plants of Nilgiris, southern Western Ghats, India
Veerambakkam Srinivasan Ramachandran

P0204 – ePoster

Plant ecological studies of Kalsubai-Harishchandragarh Wildlife Sanctuary (India)
Mohan Waman, Dnyanesh Mahajan, Mahesh Shindikar

P0205 – ePoster

The impact of extremely cold weather on the first flowering dates of garden woody plants under warming climate in Central Shanxi, China
Liangmin Wang, Yujun Zhang, Fuzhong Li

P0206 – ePoster

Decomposition characteristic of leaf litters for main forests at protective greenbelt in Karamay
Ye Wang, Lin-Ke Yin, Lu Zheng

P0207 – ePoster

Types and characteristics of vegetation in Urumqi City
Lin-Ke Yin, Wei-Jiang Nan, Feng-Qing Jiang, Cheng Yan, Lei Wang, Qin Zan

P0208 – ePoster

Is Africa losing its umbrella?
Bruce L Webber, Céline Born, Richard E Chandler, Champlain Djieto-Lordon, Doyle McKey

P0209 – ePoster

Targeted taxonomy in Western Australia: positives and pitfalls
Juliet A Wege, Kelly A Shepherd, Ryonen Butcher, Kevin R Thiele

P0211 – ePoster

Can rapid evolution in response to an environmental change alter levels of gene flow in an annual plant?
RS Welt, R Lalchan, A Litt, SJ Franks

P0212 – ePoster

Cutting grass on desert islands: genetic structure of GAB spring populations of *Gahnia trifida*
Molly Whalen, Laurence Clarke, Duncan Mackay

P0214 – ePoster

Analysis of the plastid genome genetic variation of *Euryale ferox* Salisb. (Nymphaeaceae) populations in South Korea
Hyosig Won, Jun Hyoung Jang, Joo Hwan Kim

P0215 – ePoster

Incongruence between genetic and morphological characters - lack of molecular variation between two Korean endemic *Iris* species
Hyosig Won, Jungho Lee

P0218 – ePoster

Positive associations between the Cushion Plant *Arenaria polytrichoides* (Caryophyllaceae) and other alpine plant species increases with altitude in the Sino-Himalayas
Yang Yang, Yang Niu, Lohengrin Cavieres, Hang Sun

P0220 – ePoster

Wood density - what are its underlying components and why does it vary with different climates?
Kasia Ziemska, Don Butler, Sean Gleason, Ian Wright, Mark Westoby

P0221 – Poster

Contribution to the Red List of Pakistan: a case study of *Silene longisepala* (Caryophyllaceae)
Haidar Ali and M Qaiser

P0222 – Poster

Ecological pollination studies in *Ephedra foeminea* and *Ephedra distachya* from Greece
Kristina Bolinder, Stefanie M Ickert-Bond, Anders Rydberg, Catarina Rydin

P0223 – Poster

Spatial ecology of fungal communities associated with hair roots of *Woollisia pungens* (Styphelioideae)
Sarah Price, Ian C Anderson, John WG Cairney

P0224 – Poster

Entomophily and scent mimicry in Newfoundland dung mosses (Splachnaceae)
Anne Gaskett, Paul Marino, Robert Raguso

P0225 – Poster

Effect of growth temperature on carbon assimilation and water use efficiency in chenopod species with different types of photosynthesis
Nuria Koteyeva, Elena Voznesenskaya, Asaph Cousins, Gerald Edwards

P0226 – Poster

Invasive and native Balsaminaceae species of Baltic region: genetic diversity and factors related to it
Eugenija Kupcinskiene, Rasa Jankauskaite, Lina Zybartaitė, Judita Zukauskienė, Algimantas Paulauskas

P0227 – ePoster

Phytosociology in rock field of the Iron Quadrangle - Minas Gerais, Brazil
Andreza Viana Neri, Aianã Pereira, Evelyn Miranda, Carlos Schaefer

P0230 – ePoster

It gets hot down at the pig farm, how *Typhonium eliosorum* attracts insect visitors
Sharon A Robinson, Julia Barnes, Nicole M Grant, Rebecca E Miller

P0231 – Poster

Plasma membrane Ca₂₊ transporters mediate virus-induced acquired resistance to oxidative stress
Sergey Shabala, Lone Bækgaard, Lana Shabala, Anja Fuglsang, Olga Babourina, Michael G Palmgren, Tracey A Cuin, Zed Rengel, Lev G Nemchinov

P0232 – ePoster

Diversity on rock outcrop in the Parque Estadual Da Serra Do Brigadeiro, southeast Brazil
Andreza V Neri, Bruno V Tinti, Vitor M Moura, Pedro Paulo de Souza, Gilmar E Valente

P0233 – Poster

Spatiotemporal variation in an Australian arid zone flower-visitor network
Glenda Wardle, Tony Popic, Yvonne Davila

P0234 – Poster

Ground-truthing floral visitor networks – validation is critical to quantifying connectance
Glenda Wardle, Caroline Gross, Susan Hoebee, Tony Popic, Steve Chivers

P0235 – Poster

Alternate stable state theory in kauri forest: kauri as an ecosystem engineer?
Sarah Wyse, Bruce Burns, Shane Wright

P0236 – ePoster

Breeding system and its consequence on fruit set of a rare sand dune shrub *Eremosparton songoricum* (Fabaceae: Papilionoideae): implication for conservation
DaoYuan Zhang, Xiang Shi, JianCheng Wang, HuiLiang Liu

**THEME 02: ECONOMIC BOTANY
 INCL. BIOTECHNOLOGY, AGRICULTURE & PLANT
 BREEDING**

P0237 – ePoster

Evaluation of salt tolerance parameters including growth and physiology in nine table grape (*Vitis vinifera* L.) genotypes
Nasser Abbaspour, Nayer Mohammadkhani, Reza Heidari, Hamed Dolati baneh, Masoome Fozuni

P0238 – ePoster

Wheat genotypic variation and protein markers in relation with in vitro selection for drought tolerance
M S Abdel-Hady and Hoda MHEI-Naggar Hoda

P0239 – ePoster

Ion beam mutagenesis : new innovative technology for mutation breeding
Tomoko Abe, Y Kazama, T Hirano, R Morita, Y Hayashi

P0240 – ePoster

Ribosomal FISH mapping reveals hybridity in phytoestrogen producing *Curcuma* species from Thailand
Kesara Anamthawat-Jónsson, Puangpaka Sunthornchainaksaeng

P0241 – ePoster

Genetic improvement of *Centella asiatica* (L.) urban for high yield of asiaticoside and madecassosides through ploidy breeding
Jeevakoti Apparao Boddu

P0244 – ePoster

Quercetin accumulation predicts drought resistance in a novel white clover hybrid
Wouter Ballizany, Rainer Hofmann, Brent Barrett, Zulfi Jahufer

P0248 – ePoster

Effect of vermicompost on dark green leafy vegetable (*Spinacia oleracea* L.)
Sanjay R Biradar

P0249 – ePoster

Heavy metal contaminants in herbal remedies: preliminary investigation of two concoctions in Guyana
John Cartey Caesar and Antonio Yhan

P0250 – ePoster

Edible wild plants in Calabria (S Italy): a check-list
Giuseppe Caruso

P0252 – ePoster

Development of tissue culture protocol for promising interspecific F1 tri-hybrid of *Eucalyptus* FRI-13 (*E. camaldulensis* x *E. tereticornis*) x *E. grandis*
Sudhir Chauhan, Reetu Sharma, Neelima Rath, Sarita Arya

P0254 – ePoster

Evidence for prehistoric human contact between Polynesia and South America: DNA analysis of the Sweet Potato (*Ipomoea batatas*)
Andrew C Clarke, Barbara R Holland, Patricia A McLenachan, Makoto Nakatani, Peter J Matthews, Roger C Green, David Penny

P0255 – ePoster

Structural and functional characterization of photosynthesis in *Oryza* lines
Rita Giuliani, Elena Voznesenskaya, Nuria Koteyeva, Asaph B Cousins, Gerald E Edwards

P0256 – ePoster

HS-SPME-GC-FID based method development for quantification of 2-acetyl-1-pyrroline synthesized by *Bacillus cereus* (ATCC 10702)
Yogita Deshmukh and Altafhusain Nadaf

P0257 – ePoster

Effects of different harvesting methods in growth and productivity of sphagnum moss
MF Diaz and W Silva

P0259 – ePoster

Distribution, properties and synthesis of (1,3;1,4)- β -D-glucan in *Sorghum bicolor* (L.) Moench
Riksfardini Ermawar, Helen Collins, Geoff Fincher, Rachel Burton

P0263 – ePoster

Predicting climate change impacts on yield and nutritional value of cyanogenic tropical crops
Ros Gleadow, R Miller, A Zacarias, N O'Donnell, C Blomstedt, J Hamill, J Evans, A Burns, T Cavagnaro

P0264 – ePoster

Carbon storage character of major bamboo forest and management technology of carbon storage forest type in China
Yun Feng

P0266 – ePoster

Satureja khuzistanica: a valuable medicinal plant for rural development in Iran
Javad Hadian, Farzad Najafi, Ali Salehnia, Abdollah Ehteshamnia

P0267 – ePoster

Variability of morphological trait and rosmarinic acid content of *Satureja khuzistanica* Jamzad populations from Iran
Javad Hadian, Ali Salehnia

P0269 – ePoster

Analysis of population structure and genetic diversity within a global collection of Tall Fescue (*Festuca arundinacea* Schreb.)
M L Hand, N O I Cogan, J W Forster

P0271 – ePoster

Ectopic expression of NAD biosynthetic gene causes developmental alterations in *Arabidopsis*; a precocious ageing in leaves and inflorescences

Shin-Nosuke Hashida, Kentaro Takahara, Maki Kawai-Yamada, Kazuyoshi Kitazaki, Kazuhiro Shoji, Fumiyuki Goto, Toshihiro Yoshihara, Hirofumi Uchimiya

P0272 – ePoster

Effect of heavy-ion beam irradiation on mutation induction in rice

Y Hayashi, R Morita, H Tokairin, T Sato, T Abe

P0273 – ePoster

Plant hormones and male sterility in cereal crops caused by temperature stress

Atsushi Higashitani, Tadashi Sakata, Takeshi Oshino, Kentaro Yano, Masao Watanabe

P0274 – ePoster

A survey of bamboo mosaic virus and its modification to express foreign genes focusing on temperate strains

Yoko Hisamoto, Tomohide Natsuaki, Mikio Kobayashi

P0275 – ePoster

Vulnerability to branch xylem cavitation in *Prunus x yedoensis* can predict tree decline

Takefumi Ikeda, Masafumi Ueda, Junta Yanai, Nobuhiko Kasuya, Kenji Ogura

P0276 – ePoster

Functional analysis of the gentian orthologues of the FT/ TFL1 gene family

Tomohiro Imamura, Takashi Nakatsuka, Masahiro Nishihara, Hideyuki Takahashi

P0277 – ePoster

Starch structures/properties in high-amylose rice

Kimiko Itoh, Katsumi Abe, Isao Hanashiro, Kazuhisa Idichi, Kaori Sato, Sayuri Akuzawa

P0282 – ePoster

Application of gene silencing for control of plant parasitic nematodes

Michael Jones

P0283 – ePoster

Ion-beam mutagenesis: New technology for the control of deletion-size by heavy-ion beam irradiation

Yusuke Kazama, T Hirano, K Nishihara, S Ohbu, Y Shirakawa, Y Hayashi, T Abe

P0284 – ePoster

Micropropagation of *Satureja khuzistanica* Jamzad., a potential source of Carvacrol

Shahrokh Kazempour Osalo, Parvin Ramak, Mozafar Sharifi, Hassan Ebrahimzadeh, Najmeh Ahmadian

P0286 – Poster

Response of Anise (*Pimpinella anisum* L.) to organic and natural inputs

Shiva Kholesro, Amir Ghalavand, Fatemeh Sefidkon, Ahmad Asgharzadeh, Batoool Mahdavi

P0287 – ePoster

Improvement of wheat and barley frost tolerance by constitutive and cold-inducible overexpression of DREB/CBF transcription factors

Nataliya Kovalchuk, Wei Jia, Omid Eini, Natalia Bazanova, Tatiana Pyvovarenko, Neil Shirley, Ainur Ismagul, Rohan Singh, Peter Langridge, Sergiy Lopato

P0290 – ePoster

A physiological investigation on the response of sugarcane to water stress

J Basnayake, P Jackson, G Inman-Bamber, N Berding, P Lakshmanan

P0292 – ePoster

Phytoremediation of organic contaminants in soil: survey of species and associated techniques for future applications

Aline Lopes e Lima, Daniel Carlos Leite, Ligia Ferrari T di Romagnano, Marcio Augusto Rabelo Nahuz

P0293 – ePoster

The study and genetic improvement of main warm season turfgrass conducted in China

Jianxiu Liu, Hailin Guo, Aigui Guo, Junqin Zong, Jiping Xuan, Jingbo Chen

P0296 – ePoster

Molecular characterization of somaclones using RAPD marker in patchouli

Gayatri Masgod and Asmita Behera

P0297 – ePoster

Contribution to the chemistry of *Croton* L. (Euphorbiaceae)

Liss Matos, Antonio Salatino, Giuseppina Negri, Maria Luiza Faria Salatino, Deborah Yara AC dos Santos, Claudia Furlan, Lucimar Barbosa da Motta, Inos Cordeiro, Letacia Ribes de Lima

P0298 – ePoster

Assessment of variability in mothbean germplasm (*Vigna aconitifolia*) and *V. trilobata* in the Indian arid region

Raju R Meghwal, NK Dwivedi, Sangeeta Yadav, Gopala Krishnan S

P0299 – ePoster

Euclidean cluster analysis in Mothbean (*Vigna aconitifolia* (Jacq.) Marechal) germplasm in arid region of India

Raju R Meghwal, NK Dwivedi, BK Mathur

P0300 – ePoster

Oil yields and fatty acids distribution of pericarp and seeds of *Oenocarpus bataua* and *O. bacaba*: two potential Amazonian palms for biodiesel production

JM Meyer and A Salatino

P0303 – ePoster

Radiation mutagenesis: molecular characterization of mutations induced by gamma irradiation and heavy-ion beam in rice

Ryouhei Morita, Y Hayashi, T Shibukawa, H Takehisa, M Nishimura, T Abe

P0304 – ePoster

Effect of aqueous extracts of some weeds on germination and seedling growth of tomato (*Lycopersicon esculentum* Mill.)

Irum Mukhtar and Rukhsana Bajwa

P0305 – ePoster

Study of effects of late season drought stress in wheat cultivars using stress susceptibility, tolerance indices and canopy temperature depression

Ghasemali Nazemi, Gita Dehghani, Sahba Nazemi

P0306 – ePoster

Ornamental plant resources of *Hedychium* in China

Liu Nian and Hu Xiu

P0307 – ePoster

Adaptation of wheat to climate change in south-western Australia

Eduardo Oliveira, JA Palta, H Bramley, KHM Siddique

P0308 – ePoster

Phytochemical screening and in vitro evaluation of antidermatophytic activity of *Oxalis corniculata* subjected to various drying treatments

Javid Pandith and Geetha Singh

P0310 – ePoster

Photochemistry, photosynthesis and antioxidative defence capacity of two wheat cultivars with contrasting tillering ability grown in FACE

Sabine Posch, Saman Seneweera, Markus Loew, Raymond Dempsey, Robert Norton, Glenn Fitzgerald, Michael Tausz

P0312 – ePoster

Control of sucrose transport and accumulation in sugarcane

Anne Rae, Karl Pioch, Christopher Grof, Rosanne Casu, Donna Glassop, Graham Bonnett, John M Manners

P0313 – ePoster

In vitro selection of ginger cell lines tolerant to *Pythium myriotylum* and its regeneration

Kavyashree Rangappa, Gayatri Masgod Chennaveeraiah

P0314 – ePoster

Molecular characterization of bamboo using RAPD markers

Kavyashree Rangappa and Bharathi Srinivasan

P0316 – ePoster

Study of in vitro callogenesis and organogenesis in *Pimpinella anisum* L.

Fatemeh Raouf Fard, Ahmad Moieni, Reza Omidbaigi

P0317 – ePoster

Influence of AM fungi on the growth, biochemical and yield parameters of *Lycopersicon esculentum* Mill. (tomato)

Peddi Gopal Reddy and Balasaheb S Andhale

P0318 – ePoster

Pathogens and pathogenicity of grain molds of *Sorghum*

Peddi Gopal Reddy and Hemant S Wabale

P0319 – ePoster

Effects of fertilizer sources and application rates of Nitrogen (N) on growth, yield and nutrient status of *Kohlrabi*

Said Saleh, AM El-Bassiony, ZF Fawzy

P0322 – ePoster

Fluoride discharge from aquifer using *Brassica oleracea* based activated carbon

V Veeraputhiran, G Alagumuthu, S Padmavathy

P0326 – ePoster

Triticum dicoccoides, Wild Emmer Wheat: genetic diversity of salinity tolerance

Yuri Shavrukov, Peter Langridge, Mark Tester, Aviatar Nevo

P0327 – ePoster

Diversity of aromatic plants and spices in Thailand

Duangchai Sookchaloem, Payattipol Narongajavana, Thawatchai Wongprasert, Manop Poopath, Thamarat Phutthai

P0329 – ePoster

Metabolome analysis of developmental alterations in *Gentian* caused by mineral deficiency

Hideyuki Takahashi, Tomohiro Imamura, Atsuko Miyagi, Hirofumi Uchimiya

P0337 – ePoster

An effective in vitro propagation of *Jasminum sambac* L. using axillary buds

Ren Wang, Lis He, Feng Peng, Bing Xia

P0340 – ePoster

Selection of thin cell-wall mutants from a barley TILLING population, for reduced steeping during malt production

Jennifer Marie Washington, Rachel Burton, Alan Little, Doug Stewart, Geoff Fincher

P0341 – ePoster

Inclusion of a mammalian cGMP response element in the development of a luciferase reporter cGMP responsive promoter system suitable for use in plant protoplasts

J I Wheeler and H R Irving

P0342 – ePoster

Effects of wood compost for preventing water pollution caused by chemical fertilizer

Rie Yamamoto

P0345 – ePoster

Research advance on cross-breeding between different species of *Taxodium*

Chao Guang Yu and Yun Long Yin

P0347 – ePoster

Antimicrobial activities of essential oil and lemon juice sour on *Staphylococcus aureus*, *Bacillus cereus*, *Klebsiella pneumoniae*, *Pseudomonas aeruginosa* and *E. coli* strains

Ahmad Zaheri

P0348 – ePoster

Synthesis regulation and key genes expression of triterpenoid from Birch, *Betula platyphylla* Suk.

Jing Yin and Ya-Guang Zhan

P0350 – ePoster

Evaluation of genetic diversity of pecan cultivated in China using SSR and ISSR markers

Guo Zhongren, Jia Xiaodong, Wang Tao, Xuan Jiping, Xu Fei, Zheng Yuhong

P0351 – Poster

Phytotoxic effects of six surfactants on *Allium cepa* L. plantlets

Halide Akbas, Feruzan Dane, Gulden Yilmaz, Fatmanur Ozturk, Sinem Leventer

P0352 – ePoster

Development and utilization of the Yellow Lotus germplasm in Thailand

Kanokporn Boonsirichai, Vichai Puripunyanich, Woranuch Langsri

P0353 – ePoster

A weakly photoperiod sensitive mutant of Khao Dawk Mali 105 and its tissue culture method

Kanokporn Boonsirichai, Valailak Phadvibulya, Kanchana Klakhaeng, Suniyom Taprab, Vichai Puripunyanich, Sirilak Chookaew, Vararas Khamvarn, Kwanpisut Sungsinleart

P0354 – Poster

Histological and cytological observations on early development phases of calli in cultures of anthers of *Oryza sativa* cv. Baldo

Feruzan Dane and Ciler Meric

P0355 – Poster

Contrasting hydraulic regulation in closely related forage grasses: implications to breeding for drought resistance

Meisha-Marika Holloway-Phillips and Tim Brodribb

P0356 – Poster

Nuclear DNA contents of some *Ophrys* L. species (Orchidaceae) growing in European Turkey
Ciler Meric, Necmettin Guler, Hayati Arda

P0357 – Poster

Volatile components of a nocturnal flower, *Anemarrhena asphodeloides* Bunge (Agavaceae)
Hiroko Murata, Hisakatsu Iwabuchi, Yuka Inatomi, Akira Inada, Jin Murata

P0359 – Poster

An investigation of the effects of nonionic surfactant with herbicide on *Triticum aestivum* L. by flow cytometry
Gulden Yilmaz, Feruzan Dane, Ciler Meric

THEME 03: GENETICS, GENOMICS AND BIOINFORMATICS

P0361 – ePoster

Spatiotemporal gene expression profiling of *Oryza sativa* ssp. *japonica* cv. Nipponbare
Baltazar Antonio, Yutaka Sato, Hinako Takehisa, Nobukazu Namiki, Kaori Kamatsuki, Kazuhiko Sugimoto, Yoshiaki Nagamura

P0362 – ePoster

QTL mapping of trichome density in two new RIL populations of *Arabidopsis thaliana* reveals environment-specific and herbivory-response loci
R Bloomer and V V Symonds

P0363 – ePoster

The impact of variation in regulatory genes on anthocyanin production in *Arabidopsis thaliana*
Matthew Butcher and Vaughan Symonds

P0364 – ePoster

Genetic diversity and population structure of a broad range of olive genotypes assessed by SSR markers
Geraldo M A Cancado, Aurinete D Borges do Val, Juliano L Ferreira, Moacir Pasqual, João Vieira-Neto, Bárbara D F Soares

P0365 – ePoster

Comparison of a retrotransposon-based marker with microsatellite markers in the genus *Vitis*
Geraldo M A Cancado, Gustavo César San'Ana, Juliano L Ferreira, Rafaeli A V Souza, Aluizio Borem, Bárbara D F Soares

P0366 – ePoster

Genetic variability of strawberry intervarietal hybrids determined by inter simple sequence repeat markers
Geraldo Magela de Almeida Cancado, Claudinéia Ferreira Nunes, Monique Carolina Nunes Fernandes, Ana Paula Ribeiro, Mário Sérgio Carvalho Dias, Juliano Lino Ferreira, Bárbara Dantas Fontes-Soares, Ana Cristina Juhász

P0367 – ePoster

Outcrossing rate in olive (*Olea europaea* L.) by microsatellite and ISSR molecular markers
Geraldo Magela de Almeida Cancado, Rafaeli Aparecida Vieira Souza, Franciane Tavares Braga, Juliano Lino Ferreira, Patrícia Helena Azevedo, Aluizio Borem, Moacir Pasqual, João Vieira-Neto

P0368 – ePoster

Horizontal gene transfer between flowering plants
GL Chen and Q Chen

P0369 – ePoster

Molecular evolution of water channel proteins gene family in rice
Yu-Chung Chiang and Chia-Ti Wu

P0373 – ePoster

Molecular basis of crassulacean acid metabolism (CAM) evolution inferred from gene family structures in Neotropical orchids (subtribe Oncidiinae)
Bahay Gulle, Becky L Albion, Katia Silvera, John C Cushman

P0374 – ePoster

Functional genomics of CAM in the monocot biofuel feedstock crop *Agave sisalana*
Susanna F Boxall, Jade L Waller, Richard Gregory, Neil Hall, James Hartwell

P0375 – ePoster

Using RNA-seq to dissect the molecular basis for circadian optimisation of crassulacean acid metabolism
James Hartwell, Susanna F Boxall, Louisa V Dever, Richard Gregory, Jana Knerova, Neil Hall

P0377 – ePoster

The *Amborella* Genome Sequencing Project: an evolutionary reference sequence
Joshua P Der, Paula Ralph, Hong Ma, Claude DePamphilis, Srikar Chamala, Brandon Walts, W Brad Barbazuk, Doug Soltis, Pam Soltis

P0378 – ePoster

Genetic basis of plant architectural development in grasses – insights from Foxtail Millet
Andrew Doust, Margarita Mauro-Herrera, Michael Malahy, Jessica Stromski

P0380 – ePoster

Wounding, drought and cold stresses regulate wheat Wcor410b gene expression through the same C-repeat element
Omid Eini, Nannan Yang, Tatiana Pyvovarenko, Natalia Bazanova, Natalia Tikhomirov, Serik Eliby, Peter Langridge, Maria Hrmova, Sergiy Lopato

P0381 – ePoster

Variability and genetic differentiation by ISSR markers in *Mimosa dolens* (Leguminosae)
Renee Fortunato, Cecilia Bessega, Matias Morales

P0382 – ePoster

The effects of light and temperature on cyanogenesis in forage sorghum
Samantha Fromhold, Natalie O'Donnell, Cecilia Blomstedt, Ros Gleadow, John Hamill, Alan Neale

P0383 – ePoster

Small-scale genetic structure among patches and populations of *Mercurialis annua* L. with contrasting sexual systems, as revealed by amplified fragment length polymorphism (AFLP)
Juan Luis García-Castaño, Grayna Korbecka, John Pannell

P0385 – ePoster

Functional and comparative genomics of CAM in the dicot model *Kalanchoëfledtschenkoi* and the monocot biofuel feedstock crop *Agave sisalana*
J Hartwell, SF Boxall, L V Dever, R Gregory, J Knerova, N Hall

P0386 – ePoster

Functional genomics of a generalist parasitic plant
Loren Honaas, Norm Wickett, Eric Wafula, Yeting Zhang, Joshua Der, Naomi S Altman, Yongde Bao, W Richard McCombie,

Stefan Schuster, Chris G Taylor, John I Yoder, Lena Landherr, Biao Wu, Claude W DePamphilis

P0387 – ePoster

Use of D1/D2 region in 28S rDNA as the DNA barcode for wood rot fungi

Sakae Horisawa and Masato Maeda

P0388 – ePoster

Plant comparative genomics tools from Gramene database

Pankaj Jaiswal

P0389 – ePoster

Distinguishing genetic individuals in the clonal shrub *Tetradlea juncea* Sm. (Tremendraceae)

Anne Jones, E Grace, C Castor, C Driscoll, M Cole

P0391 – Poster

Variation of DNA contents in *Primula jesoana*

Rie Kanehara, Mai Hayashi, Mayuko Ikeda, Kazushige Honda, Tatsuya Nogami, Takahiro Wagatsuma, Juntaro Kato, Masahiro Mii

P0392 – Poster

Variation of DNA content in *Primula tosaensis*

Juntaro Kato, Norio Tanaka, Mai Hayashi, Mayuko Ikeda, Ayano Matsuda, Nozomi Ito, Koichi Otsuka, Hiroaki Ohashi, Shunsuke Serizawa, Masahiro Mii

P0393 – ePoster

A robust method maximising data output for transcriptome analysis using GS FLX 454

P T Kay, K Lawless, J Tibbits, M Hayden, G Spangenberg

P0394 – ePoster

Parentage determination of *Vanda* Miss Joaquim (Orchidaceae) through two chloroplast genes *rbcl* and *matK*

Gillian S Khew, Tet Fatt Chia

P0395 – ePoster

LRT1, a novel retroelement, in the genus *Lilium*

Nam-Soo Kim, Kyong-Cheul Park, Jae-Han Son, Sung-Il Lee, Se-Won Yie, Jong-Hwa Kim

P0397 – ePoster

Capricious distribution of a cysteinyl tRNA gene of unknown origin in the mitochondrial genomes of angiosperms: an example of horizontal transfer?

Tomohiko Kubo, Kazuyoshi Kitazaki, Hiroyo Kagami, Asami Fujita, Tetsuo Mikami

P0398 – ePoster

Biodiversity Heritage Library for Europe

Jiri Kvacek and Henning Scholz

P0399 – ePoster

Overexpression of AtCHX24, a member of the cation/H⁺ exchangers, accelerates leaf senescence in *Arabidopsis thaliana*

Yong-Min Kim, Jin Hee Kim, Dong-Joon Lee, Hye Ryun Woo

P0400 – ePoster

ABA-GAM 'molecular identification of gametophytes of bryophytes and ferns, and their potential use as bioindicators' (ABA – acceleration of biodiversity assessment)

Marcus Lehnert, Dietmar Quandt, Martin Nebel

P0401 – ePoster

GrAToL – assembling the green algal Tree of Life

Louisa A Lewis, Kenneth Karol, Juan Lopez-Bautista, Richard McCourt, John Hall, Charles Delwiche, Paul Lewis

P0402 – ePoster

Integrating RNA-seq into plant genome annotation system: a case study of the cucumber genome

Kui Lin, Zhen Li, Pengcheng Yan, Wanjin Liao, Zhonghua Zhang, Sanwen Huang

P0403 – ePoster

The mesopolyploid history of Australian and New Zealand crucifers

Terezie Mandakova, Simon Joly, Klaus Mummenhoff, Peter Heenan, Martin Lysak

P0404 – ePoster

Development of polymorphic microsatellite markers for *Pimenta pseudocaryophyllus* (Gomes) Landrum, Myrtaceae

Patricia Gleydes Morgante, I Sebastião, L E D Silveira, G M Mori

P0405 – ePoster

Genetic differentiation in populations of *Pyricularia grisea* (Cooke) Sacc obtained from various hosts, based on detection of VCGs and rep-PCR

P Motallebi, M Nikkhal, M Okhovvat

P0406 – ePoster

Studies on B-chromosomes in conifers

Elena Muratova

P0407 – ePoster

Development and characterization of microsatellite markers on Pistachio (*Pistacia vera*)

Rafael Navajas-Pérez, Pedro J Sola Campoy, Leonardo Madsen, Francisca Robles, David Pérez López, María C Gijón López, María Reche, Carlos Benavides, Carmelo Ruiz Rejón, Roberto de la Herrán

P0408 – ePoster

Characterization of repetitive sequences on Pistachio (*Pistacia vera*)

Rafael Navajas-Pérez, Pedro J Sola Campoy, Jesús Madero Pérez, Francisca Robles, Julián Guerrero Villaseñor, Francisco J Couceiro López, Carmelo Ruiz Rejón, Roberto de la Herrán

P0409 – ePoster

Molecular analysis of adaptive traits associated with flooding stress tolerance in the genus *Oryza*

Raj Kumar Niroula

P0411 – ePoster

Relationships between three flowering cherry cultivars bearing green flowers

E Oyama and C Uematsu, T Oohara

P0412 – ePoster

Apiaceae organellar genomes

Rhiannon Peery, Stephen R Downie, Robert K Jansen, Linda A Raubeson

P0414 – ePoster

Genetic improvement of Urdbean (*Vigna mungo* L. Hepper) using induced mutations

Ashok Sagade

P0416 – ePoster

Cyto-nuclear interactions in *Tragopogon* (Asteraceae) Allopolyploids: insight from *rbcl* and *rbcS*

Tina Sehrish, V Vaughan Symonds, Douglas E Soltis, Pamela S Soltis, Jennifer A Tate

P0419 – ePoster

Fine mapping of a major QTL, qFLL62, controlling flag leaf length and yield traits in rice

Bo Shen and Jie-Yun Zhuang

P0420 – ePoster

Harnessing next-generation sequencing technology for DNA marker development

Lara Shepherd, Robin Atherton, Simon Cox, Barbara Holland, Bennet McComish, Trish McLenachan, Josie Monaghan, Peter Lockhart

P0423 – ePoster

DArT markers provide a powerful tool for population genetic analysis and phylogeny reconstruction in *Eucalyptus* (Myrtaceae)

Dorothy A Steane, Corey Hudson, Dean Nicolle, Carolina P Sansaloni, Cesar D Petrolí, Jason Carling, Andrzej Kilian, Alexander A Myburg, Dario Grattapaglia, Rene E Vaillancourt

P0424 – ePoster

Photosynthetic response to heat stress and geographic range of two C_3 grass species in Japan

Shu-Ichi Sugiyama

P0425 – ePoster

Investigating the roles of barley Cesa genes in cell wall biosynthesis

Ashley Hwei-Ting Tan, Rachel Burton, Geoff Fincher

P0426 – ePoster

Mechanism of flower colour variegation in *Camellia* bearing pigmented flowers and variegated ones within a single tree

K Taniguchi, C Uematsu, O Arakawa

P0428 – ePoster

Centromere-specific integration of Copia-type LTR retrotransposon in *A. lyrata*

Sayuri Tsukahara, Akira Kawabe, Akie Kobayashi, Tetsuji Kakutani

P0429 – ePoster

The S-locus genomic region in *Arabidopsis halleri* and *A. lyrata* presents molecular evolution properties analogous to sex chromosomes

X Vekemans, P Goubet, H Berges, V Castric

P0430 – ePoster

Development of large sets of simple sequence repeat (SSR) markers for three species of subfamily Pitcairnioideae (Bromeliaceae) using high-throughput 454 pyrosequencing

Kurt Weising, Tina Wöhrmann, Bruno Huettel, Florian Krapp

P0431 – ePoster

Transcript profiling of CslF, CslH & Glb1 genes in developing barley endosperm

Sie Chuong Wong, Rachel Burton, Geoff Fincher, Diane Mather

P0432 – ePoster

Comparative chloroplast genomes of Pinaceae: insights into the mechanism of diversified genomic organizations

Chung-Shien Wu, Ching-Ping Lin, Chi-Yao Hsu, Rui-Jiang Wang, Shu-Miaw Chaw

P0434 – ePoster

Whole genome sequencing for crop improvement

Bicheng Yang

P0435 – ePoster

The stability of transgene expression and effect of DNA methylation on PTGS in birch

Fansuo Zeng and Yaguang Zhan Zhan

P0436 – ePoster

The stability of transgene expression and effect of DNA methylation on PTGS in birch

Fansuo Zeng and Yaguang Zhan Zhan

P0437 – ePoster

Intergeneric crosses to obtain hybrids between *Salix X Populus*

E Zenkteler, M Zenkteler, M K Wojciechowicz, A Bagniewska-Zadworna

P0438 – Poster

Study of cellular localization of OsSUMOs in onion cells

Kotb Attia, Tomoyo Saitoh, Yuta Igarashi, Aya Kitajima, Toshiaki Mitsui, Itoh Kimiko

P0439 – Poster

Revealing the yield impacts of organ-level quantitative trait loci associated with drought response in maize – a gene-to-phenotype modelling approach

Karine Chenu, Scott Chapman, Francois Tardieu, Greg McLean, Claude Welcker, Graeme Hammer

P0440 – Poster

Involvement of plant CLE peptide signaling in nematode infection process

Chika Ejima, Bui Thi Ngan, Shinichiro Sawa

P0441 – Poster

Molecular analysis of phylogenetic relationships among Iranian *Satureja* species

Javad Hadian

P0442 – Poster

Arabidopsis SOL1 functions in the CLE19 peptide maturation step

Ryota Hamasaki, Takayuki Tamaki, Shigeyuki Betsuyaku, Shinichiro Sawa

P0443 – Poster

Functional analysis of liverwort MpCLE1 and MpWOX

Hiroaki Honda, Kouyou Ishizaki, Ryo Tabata, Nicole Jedrusik, Sabine Zachgo, Takayuki Kawauchi, Shinichiro Sawa

P0444 – Poster

Sound stimulates plant gene response and plant pathogenic fungi in wavelength specific manner

Mi-Jeong Jeong, Seung-Bum Lee, Seong-Kon Lee, Eun Jung Suh, Eul-Won Hwang, Soo-Chul Park

P0446 – Poster

Isolation of the rpk2 enhancer mutants in *Arabidopsis*

Shunsuke Kiyohara and Shinichiro Sawa

P0447 – Poster

Analysis of the natural genetic variation of phosphite sensitivity in *Arabidopsis thaliana*

Daniel O Kollehn, Giles St E J Hardy, Philip A O'Brien, Oliver Berkowitz

P0448 – Poster

Does the 'red' gene in grapes affect the flavour of wine?

Amy Koschella, Paul Boss, Chris Ford, Mandy Walker

P0449 – Poster

Interrelationships between genetical, biochemical and ecological peculiarities of *Hypericum maculatum* populations from the Baltic region

Eugenija Kupcinskiene, Lina Zybartaite, Judita Zukauskienė, Jurga Budiene, Asta Judzentiene, Algimantas Paulauskas

P0450 – Poster

Regulation of the shoot apical meristem by SEUSS and SEUSS-LIKE 2 in *Arabidopsis*
JE Lee and JF Golz

P0451 – Poster

Field transcriptome revealed critical developmental and physiological transitions in *japonica* rice
Yutaka Sato, Baltazar Antonio, Hinako Takehisa, Nobukazu Namiki, Makoto Kusaba, Yoshiaki Nagamura

P0452 – Poster

A chloroplast localized 5' to 3' exonuclease, RNase J, is a key nuclease responsible for RNA surveillance
Robert Sharwood, Michal Halpart, Scott Luro, Gadi Schuster, David Stern

P0453 – Poster

Isolation of the clv2 enhancer mutants in *Arabidopsis*
Noriko Shimizu, Ryo Tabata, Masashi Yamada, Mitsuyasu Hasebe, Katsushi Yamaguchi, Shuji Shigenobu, Shinichiro Sawa

P0454 – Poster

Isolation and characterization of clen1 (clavata enhancer1)
Ryo Tabata, Masashi Yamada, Katsushi Yamaguchi, Shuji Shigenobu, Hiroo Fukada, Mitsuyasu Hasebe, Shinichiro Sawa

P0455 – Poster

High-resolution gene expression profiling in rice root
Hinako Takehisa, Motoko Igarashi, Yutaka Sato, Tomomi Abiko, Takaki Yamauchi, Baltazar Antonio, Ritsuko Motoyama, Yoshiaki Inukai, Mikio Nakazono, Yoshiaki Nagamura

P0456 – Poster

Comparative transcriptome analysis during seed development of viviparous rice
Dool Yi Kim, Sun Mi Huh, Yong Sic Hwang, Hyo Joo Hwang, Young Seop Shin, In Sun Yoon

P0457 – ePoster

Molecular cloning of a stress-responsive aldehyde dehydrogenase gene ScALDH21 from the desiccation-tolerant moss *Syntrichia caninervis* and its responses to different stresses
Honglan Yang, Daoyuan Zhang, Andrew J Wood, Yuanming Zhang

THEME 04: PHYSIOLOGY AND BIOCHEMISTRY**P0458 – ePoster**

Investigation of abiotic stress on die-back *Pistacia vera* L.
Hossein Abbaspour, Sakineh Saeidi-Sar, A Pazoki

P0459 – ePoster

Effect of salt stress on lipid peroxidation, antioxidative enzymes, and proline accumulation in pistachio plants
Hossein Abbaspour, Sakineh Saeidi-Sar

P0460 – ePoster

Evaluation of salt tolerance in pistachio plants cv. Akbari, Fandoghi and Kalaquchi by physiological characters under greenhouse conditions
Hossein Abbaspour, Sakineh Saeidi-sar, H Afshar

P0462 – ePoster

Effect of drought stress on the antioxidant activity, lipid peroxidation, some physiological parameters, and composition of essential oil from *Mentha pulegium* L.
Sara Ahmadiani, Mansoor fshar mohammadian, Faeze Ghanati

P0465 – ePoster

Growth-related gene expression in desiccated resurrection plants
Cecilia Blomstedt, Cara Griffiths, Sharmin Islam, John Hamill, Donald Gaff, Alan Neale

P0466 – ePoster

Investigating a genetic basis to physiological responses of *Eucalyptus globulus* seedlings to defoliation
CL Borzak, JM O'Reilly-Wapstra, KM Barry, EA Pinkard, BM Potts

P0467 – ePoster

Acquisition of desiccation tolerance and dormancy in seeds of *Erythrina speciosa*, a native tree of the Brazilian Atlantic Forest
Marcia Braga, Fernanda Kretzschmar, Danilo Centeno, Claudio Barbedo

P0470 – ePoster

Vascular functioning and the water balance of ripening kiwifruit (*Actinidia chinensis*) berries
Michael Clearwater, Zhiwei Luo, Sam Chye, Peter Blattmann, Grant Thorp

P0471 – ePoster

The challenge of characterizing and quantifying the different cell wall polysaccharides in a range of plant species and tissues
Helen Collins, Jelle Lahnstein, Rachel Burton, Jacqueline Fabrizio, Geoffrey Fincher

P0475 – ePoster

Development of a new model system for analysis of cell wall biosynthesis genes
G Dimitroff, A Little, RA Burton, GB Fincher

P0479 – Poster

Ethylene and nitric oxide effect in *Catasetum fimbriatum* and *Dendrobium Second Love* (Orchidaceae) etiolation
Lucas Félix, Lia Chaer, Gilberto Kerbauy

P0480 – Poster

The relationship between ethylene, nitric oxide, carbon dioxide emission and etiolation of *Catasetum fimbriatum*, *Paphiopedilum* and *Cymbidium* (Orchidaceae)
Lucas Macedo Felix, Lia Chaer, Gilberto Barbante Kerbauy

P0481 – ePoster

Violaxanthin cycle can be activated in darkness by stresses such as desiccation and anoxia
Beatriz Fernández-Marín, Fátima Míguez, José María Becerril, José Ignacio García-Plazaola

P0482 – ePoster

Analysis of storage carbohydrates in different organs of herbaceous species from rocky fields
Rita De Cassia Figueiredo-Ribeiro, Emanuela O Joaquim, Maria Angela M Carvalho

P0483 – ePoster

Recapturing rhizobial diversity in the Hunter Valley, NSW, Australia
N Fisher, M Cole, Y Nussbaumer, K Dibley, K Newman, C Oflfer

P0484 – ePoster

The role of new and old plant hormones in arbuscular mycorrhizal symbiosis
Eloise Foo

P0485 – ePoster

Exploring the interactions between gibberellin and strigolactones in branching control
E Foo, JB Reid, JJ Ross

P0486 – ePoster

cDNA-AFLP of *Psidium guajava* L. (guava plant) exposed to ozone

Claudia Furlan, Regina Maria Moraes, Deborah Yara AC Santos, Fernanda Mendes Rezende

P0487 – ePoster

Physiological responses of suspension-cultured *Coryllus avellana* cells to low-intensity ultrasound (US)

Faezeh Ghanati, Masoumeh Safari, Parviz Abdolmaleki

P0488 – ePoster

Effect of aluminum on the expression of gene and the activity of catalase in suspension-cultured cells of *Lisianthus (Eustoma grandiflorum)*

Faezeh Ghanati, Laleh Yousefzadeh Boroujeni, Mehrdad Behmanesh

P0492 – ePoster

Impact of salt stress on growth, nodule nitrogen and carbon fixation in the Desi (Indian) and Kabuli cultivars of chickpea

Ranju Gulati

P0493 – ePoster

Redox chemistry of secondary metabolites: implications for evolution, producers and consumers

F Hadacek, V Chobot

P0494 – ePoster

CAM induction by nutrient deficiency and drought stress in *Guzmania monostachia*, a C3-CAM facultativ bromeliad

Leonardo Hamachi, Paula Natália Pereira, Paulo Tamaso Miotto, Helenice Mercier

P0495 – ePoster

Comprehensive mechanisms for adaptation of barley to alkaline soil

Kyoko Higuchi

P0496 – ePoster

What factors affect the induction of cell death in exponential- and stationary- Phase BY-2 Cells under still conditions?

Asahi Hiraga, Tsuyoshi Kaneta, Yasushi Sato, Seiichi Sato

P0497 – ePoster

Minimum hydraulic safety leads to maximum water use efficiency in a forage grass

Meisha-Marika Holloway-Phillips, Timothy Brodribb

P0498 – ePoster

Long-term effects of sewage sludge land application on physiological parameters of *Asclepias syriaca* and heavy metal concentrations in soils and plant tissues

Alfredo J Huerta and Erin LeGalley

P0499 – ePoster

Tissue-specific distribution of calcium-bound pectin in cell wall during fruit development and ripening in tomato

Hiroimi Hyodo, Jun Furukawa, Shinobu Satoh, Hiroaki Iwai

P0500 – ePoster

Effect of cement particulates on eco-physiological behaviors of halophytes in the salt marshes of the Red Sea, Saudi Arabia

Mohamed Ibrahim, Amal Abdul Rahman

P0503 – ePoster

The chloroplast transcriptomes of C₄ leaf

Kaisa Kajala and Ian Small

P0505 – ePoster

Isolation of cold-regulated genes from garlic

Jae-Han Son, Nam-Soo Kim, Sun-Hyung Kim, Kyeong-Cheul Park, Sung-Il Lee

P0507 – ePoster

Chemical diversity of the genus *Caesalpinia* (Fabaceae): new types of cassane diterpenes from *Caesalpinia crista*

Takeshi Kinoshita, Motoko Shimada, Shintaro Narimatsu, Dong-Xun Jiang

P0508 – ePoster

Changes of Chl a fluorescence of five hydrophytes under cadmium stress

Seok Chan Koh, Soon Ja Oh

P0509 – Poster

Plant litter degradation by freshwater fungi under heavy metal stress

Gerd-Joachim Krauss, Dirk Wesenberg, Krauss Gudrun

P0511 – ePoster

Autoclavable and low temperature operative Cu/Zn superoxide dismutase

A Kumar, PK Bhardwaj, R Sahoo, S Dutt, G Bagler, PS Ahuja, S Kumar

P0512 – ePoster

Thionin phylogenies – what can we add to chemosystematics

Sonny Larsson

P0513 – ePoster

Isolation and partial purification of alpha amylase inhibitor from *Adiantum* fronds

Shankar Laware, Abhijit Limaye, Gopal Deore, Bajirao Shinde

P0514 – ePoster

VIVIPAROUS 1 interacting Protein 2, VIP2 is involved in mitogen-activated protein kinase signaling in rice plants

S-K Lee, Y-S Choi, S-Y Kim, B-G Kim, M-J Jeong, T-R Kwon, M-O Byun, S-C Park

P0515 – ePoster

Cell wall polysaccharides and non-host resistance in barley

A Little, RA Burton, P Schweizer, GB Fincher

P0516 – ePoster

Biogeography, habitat preference and morphology of C₄ grasses: a phylogenetic perspective

Hui Liu, Erika Edwards, Robert Freckleton, Colin Osborne

P0517 – Poster

Effects of Chitosan on seed germination and physiological characteristics of safflower seedling under water stress

Batool Mahdavi, Seyed Ali Mohammad Modarres Sanavy, Majid Aghaalkhani, Mozafar Sharifi, Shiva Kholesro

P0518 – ePoster

Hepatoprotective property of *Cassia sophera* Linn. on carbon tetrachloride (CCl₄)-induced hepatotoxicity in rats

T K Maity, M Satish, J Singh

P0519 – ePoster

A study on the hepatoprotective activity of ethanol extract of *Bacopa monnieri* L. against ethanol-induced hepatotoxicity in rats

T Gosh, T K Maity, J Singh

P0520 – Poster

Nitrate reductase activity in pineapple plants submitted to low temperatures in different phases of light/dark cycle

Aline Tiemi Matsumura, Helenice Mercier

P0521 – Poster

Low night temperature influences positively the activity of nitrate reductase associated with plasmatic membrane in roots of pineapple plants

Aline Tiemi Matsumura, Alessandra Souza, Helenice Mercier

P0522 – ePoster

Analysis of overexpressor of MIZU-KUSSE1, a gene required for root hydrotropism of *Arabidopsis thaliana*

Yutaka Miyazawa, Teppei Moriwaki, Mayumi Uchida, Akie Kobayashi, Nobuharu Fujii, Hideyuki Takahashi

P0523 – ePoster

Analysis of cytochrome P450 from *Polygonum tinctorium*

Yukiko Mizuta, Yusuke Imada, Masato Hayase, Yoshiko Minami

P0524 – ePoster

Environmental regulation of stomatal response in *Arabidopsis Cvi-0* ecotype

K Monda, J Negi, A Iio, K Kusumi, M Kojima, M Hashimoto, H Sakakibara, K Iba

P0529 – ePoster

Optimization of the cultivation conditions for the employment of key factors driving to maximization of extracellular production of *Nostoc* strains from the paddy fields of Iran

Bahareh Nowruzi, RA Khavari-Nejad, B Kazemi, F Najafi, T Nejadstattari

P0530 – ePoster

On the presence of peptide synthetase and polyketide synthase genes in the cyanobacterial genus *Nostoc* as a mining tool for secondary metabolites

Bahareh Nowruzi, RA Khavari-Nejad, B Kazemi, F Najafi, T Nejadstattari

P0531 – ePoster

Analysis of lignescens, a novel temperature-sensitive mutant of *Arabidopsis* exhibiting ectopic lignin deposition

Mamoru Nozaki, Munetaka Sugiyama, Yasushi Sato

P0532 – ePoster

The chemical ecology and defense profiles of Australian mistletoes

KL O'Gorman, M An, RM Gleadow, RE Miller, DM Watson

P0533 – ePoster

A lectin with alpha-galactosidase activity from cowpea hypocotyls possessed a yieldin activity to regulate the yield threshold of cell wall

Akane Okamoto-Nakazato, Chiharu Naito

P0534 – ePoster

Vegetation geography of alpine-subalpine regions on Japanese mountains viewed from vegetation of maritime-oceanic regions of northeastern Asia

Susumu Okitsu

P0535 – ePoster

Differences among plant species in the root-elongation response to high pH

Kota Ono, Takashi Ito, Naoki Ose, Yu Kawaguchi, Tatsunori Nishinosono, Eitaro Miwa, Kyoko Higuchi

P0536 – ePoster

Evaluation of callogenesis and rootgenesis of cotyledone and hypocotyl explants in *Brassica napus* L. under in vitro salt stress

Yazdan Pakmehr, Roya Razavizadeh, Roya Karamian

P0539 – ePoster

Effects of seasonal variations on essential oil composition in *Rosmarinus officinalis* from Iran

Abbas Pazoki and Alireza Faezbakhsh

P0540 – ePoster

Phenotyping of *Brachypodium distachyon* to accelerate plant biofuel breeding

Richard Poiré, Vincent Chochois, Xavier Sirault, John Vogel, Michelle Watt, Robert Furbank

P0541 – ePoster

A graphical user interface for the analysis of vein and areole dimensions in leaves: software overview and preliminary scaling analyses

Charles Price

P0542 – ePoster

Morpho-anatomical and physiological responses of *Centaurea ragusina* L. to salinity

Sandra Radic Brkanac, Katarina Glavas, Petra Peharec, Hrvoje Lepedus, Branka Pevalek-Kozlina

P0543 – ePoster

Study about biofertilizer application on physiological and biochemical performance of pigeon pea cultivars under salinity condition

Fatemeh Raouf Fard, Reza Omidbaigi, Mozafar Sharifi, Fatemeh Sefidkon, Mehrdad Behmanesh

P0546 – ePoster

Chemical characterization of Brazilian propolis by HPLC-MS and GC-MS: the black, red, and green Brazilian varieties of propolis

A Righi, G Negri, A Salatino

P0547 – ePoster

Structure – activity relationship of indicine N-oxide and its functional derivatives by molecular orbital evaluation and charge flow dynamics

Jeyachandran Robert and Cindrella Louis

P0549 – ePoster

Reduction of poisonous effects of nickel on soybean plants with application of ascorbic acid and gibberellin

Sakineh Saeidi-Sar, Hossein Abbaspour

P0550 – ePoster

Gibberellic acid alleviates the cadmium toxicity in onion (*Allium cepa* L.) seedlings

Sakineh Saeidi-Sar, Hossein Abbaspour

P0551 – ePoster

Changes in the water status and osmotic solute contents in response to drought and salicylic acid treatments in four different cultivars of wheat (*Triticum aestivum* L.)

Naglaa Loutfy, Yoh Sakuma, Masahiro Inoue

P0552 – ePoster

Biosynthesis of polyhydroxybutyrate (PHB) in potato tuber

T Sasaki, M Ogasawara, M Yoshida, H Suzuki, K Matsumoto, H Shimada

P0553 – ePoster

Bio-efficacy of *Celosia argentea* L. and *Euphorbia hirta* L. leaf extracts on some pathogenic microorganisms

Ramkisan Saswade

P0554 – ePoster

Analysis of the regulatory mechanisms of wound-induced lignification in *Arabidopsis thaliana*

Yasushi Sato, Fumiko Katsuno, Tomoko Ohmori

P0555 – ePoster

Contrasting strategies of aluminium accumulation in mistletoes growing on aluminium-accumulating and non-accumulating hosts in the savannas of central Brazil
M C Scalon, M Haridasan, A C Franco

P0556 – ePoster

Host phenological behavior affects water relations of a mistletoe (*Phthirusa ovata* (Pohl.) Eichler – Loranthaceae) in the savannas of central Brazil
M C Scalon, D R Rossatto, A C Franco

P0557 – ePoster

Comparative analysis of transcriptomic responses to nutrient starvation between mono- and di-cotyledons
David Secco, Reena Narsai, Chuang Wang, Huixia Shou, James Whelan

P0558 – ePoster

Structure activity relationship study of strigolactones as a shoot branching-inhibiting hormone in rice
Yoshiya Seto, Mikihiisa Umehara, Kohki Akiyama, Atsushi Hanada, Shinjiro Yamaguchi

P0559 – ePoster

A Novel Factor rice FLOURY ENDOSPERM 2 is involved in regulation of gene expression for storage substances
KC She, H Kusano, Y Tsurumaki, M Yaeshima, H Yamakawa, M Hakata, T Aoyama, T Sasaki, H Satoh, H Shimada

P0560 – ePoster

CAS is a chloroplast protein regulating biosynthesis of salicylic acid and plant immune signaling
Takashi Shiina, Hironori Nomura, Shuhei Uemura, Yui Kanda, Yoichi Nakahira, Satoshi Sano, Kohsuke Takebayashi, Takanori Sugimoto, Hirofumi Yoshioka, Eiichiro Fukusaki

P0561 – ePoster

Arabidopsis Ital Qa-SNARE SYP2 proteins localized to different subcellular regions function redundantly in vacuolar protein sorting and plant development
Makoto Shirakawa, Haruko Ueda, Tomoo Shimada, Yasuko Koumoto, Takashi L Shimada, Maki Kondo, Taku Takahashi, Yudai Okuyama, Mikio Nishimura, Ikuko Hara-Nishimura

P0563 – ePoster

Growth, antioxidant defence systems, lipid peroxidation and proline content in soybean genotypes under salt stress
Tariq Omar Siddiqi, Faheema Khan, Altaf Ahmad, Mahmooduzzafar

P0565 – ePoster

Alterations in endogenous pools of diterpenes cafestol and kahweol in in vitro cultures of *Coffea canephora* under the influence of inhibitors of some plant growth regulators
Vaddadi Sridevi, P Giridhar, GA Ravishankar

P0566 – ePoster

Role of C-terminal fragment in membrane-bound β -glucosidase from *Physarum polycephalum*
Satoshi Tada, Miyuki Moriyasu, Masato Hayase, Toshiharu Hase, Yoshiko Minami

P0567 – ePoster

The effect of two plant growth regulators on callus generation of *Oryza sativa* L. var. Hashemi
Golnaz Tajadod, Mojgan Farzamei, Zeinab Kalamei

P0568 – ePoster

The effect of four growth regulators on Callogenesis and Organogenesis of *Daucus carota* L. var α

Golnaz Tajadod, Ahmad Majd, Fahimeh Salimpour, Mahdiyeh Sattaripour

P0569 – ePoster

Tolerance to flooding and salinity in *Melilotus siculus* is associated with highly porous phellem and leaf gas films
Natasha Teakle, Ole Pedersen, Pieter Verboven, Timothy Colmer

P0571 – ePoster

Physiological responses of Iranian alfalfa ecotypes to salt stress
Masoud Torabi, Ridzwan Halim, Rajab Chokan

P0572 – ePoster

Contribution of the methylerythritol phosphate pathway to strigolactone biosynthesis
Mikihiisa Umehara, Xiaonan Xie, Kenichi Uchida, Atsushi Hanada, Shojiro Hishiyama, Takao Yokota, Koichi Yoneyama, Hiroyuki Kasahara, Shinjiro Yamaguchi

P0575 – ePoster

Immunohistochemical analysis of the localization of an auxin efflux facilitator, CsPIN1, during gravimorphogenesis of cucumber seedlings
Chiaki Watanabe, Nobuharu Fujii, Takeshi Nishimura, Yutaka Miyazawa, Tomokazu Koshiba, Hideyuki Takahashi

P0577 – ePoster

Phylogenetic relationships of the Korean *Salix* species
Hyosig Won, Bom Bi Jin, Chang Kun Lim

P0578 – ePoster

Water supply and photosynthesis in terrestrial, climbing and semi-epiphytic *Freycinetia excelsa* F. Muell (Pandanaaceae)
Y Yansen, RA Congdon, JAM Holtum

P0579 – ePoster

How nitrogen and phosphate deficiency affect strigolactone production and plant growth
Kaori Yoneyama, Xianan Xie, Takahito Nomura, Hitoshi Sekimoto, Takao Yokota, Koichi Yoneyama

P0584 – ePoster

Effects of drought stress produced by PEG-6000 on antioxidant enzymes activity of two sensitive and tolerant cultivars of Safflower (*Carthamus tinctorious* L.)
Sara Zahraeifard, Bahman Kholdebarin, Ali Moradshahi

P0585 – ePoster

Micromorphology of secretory trichomes and chemical composition of volatile oils in *Perovskia atriplicifolia* Benth. from north-eastern Romania
Maria Magdalena Zamfirache, Ioan Burzo, Irina Gostin, Marius Stefan, Claudia Padurariu, Zenovia Olteanu, Monica Luminita Badea, Elena Truta, Marius Mihasan, Lacramioara Ivanescu

P0587 – ePoster

Epicuticular wax of *Prunus laurocerasus* does not establish the transpiration barrier of the cuticle
Viktoria V Zeisler and Lukas Schreiber

P0588 – ePoster

Leaf and stem structural traits of Patagonian shrubs impact more freezing resistance and plant water relations than habitat characteristics
Yong-Jiang Zhang, Sandra J Bucci, Guang-You Hao, Fabian G Scholz, Nadia S Arias, Kun-Fang Cao, Guillermo Goldstein

P0589 – ePoster

Cell wall modifications in maize *Pulvini* in response to gravitational stress

Qisen Zhang, Filomena Pettolino, Kanwarp Dhugga, Antoni Rafalski, Scott Tingey, Mary Beatty, Rachel Burton, Anthony Bacic, Geoffrey Fincher

P0591 – Poster

Molecular analysis of phosphite induced responses in *Arabidopsis thaliana*
Oliver Berkowitz, Ricarda Jost, Ricarda Fenske, Giles SEJ Hardy, Philip A O'Brien

P0592 – Poster

Lateral branching oxidoreductase, a new player in the strigolactone branching pathway that acts downstream of MAX genes but upstream of auxin feedback
Philip B Brewer, Emma Meyers, Elizabeth A Dun, Michael Mason, Tancred Frickey, Fiona Filado, Julia Cremer, Georg Weiler, Christine A Beveridge

P0593 – Poster

Salinity-triggered crassulacean acid metabolism induction in *Mesembryanthemum nodiflorum* plants results in differential expression of two carbonic anhydrase isoforms
Harmony Clayton, Ed Barrett-Lennard, Martha Ludwig

P0594 – Poster

Antagonistic action of strigolactone and cytokinin in bud outgrowth control
Elizabeth A Dun, Alexandre De Saint Germain, Catherine Rameau, Christine A Beveridge

P0595 – Poster

Effects of the GA insensitive mutation *Vvga1* on the underlying components of relative growth rate in grapevine
Everard Edwards, Stephanie Güsten, Mark Thomas

P0596 – Poster

The first chlorogenic acid ester saponin from *Lonicera macranthoides* Hand.-Mazz.
Xu Feng, Yu Chen, Ming Wang, Youyi Zhao, Hao Sun, Yunfa Dong

P0597 – Poster

Flavonoid diversity of *Saussurea species* (Asteraceae) in the Altai Mountains
Tsukasa Iwashina, Sergey, V Smirnov, Oyunchimeg Damdinsuren, Katsuhiko Kondo

P0599 – Poster

Functional characterization of *Brassica rapa* GIGANTEA and RNAi-mediated methods in regulation of flowering time
Jin A Kim, Woe Yeon Kim, Joon Ki Hong, Jung Sun Kim, Yeon-Hee Lee

P0600 – Poster

Pigment components in the flowers of Dutch *Iris* cultivars and their contribution to the flower color
Takayuki Mizuno, Tsutomu Yabuya, Junichi Kitajima, Tsukasa Iwashina

P0601 – Poster

Interaction between carbon and nitrogen metabolisms in the C₃-CAM epiphytic bromeliad *Guzmania monostachia*
Paula Natália Pereira, Luciano Freschi, Helenice Mercier

P0602 – Poster

Diurnal changes in endogenous cytokinins, organic acids and starch in the C₃-CAM epiphytic bromeliad *Guzmania monostachia*
Paula Natália Pereira, Luciano Freschi, Helenice Mercier

P0603 – ePoster

Evaluation of P5CS gene over expression on protein pattern variations in transgenic tobacco plants under in vitro salt stress
Roya Razavizadeh and Ali Akbar Ehsanpour

P0604 – Poster

The anthocyanins in purple and blue *Clematis* cultivars and their contribution to the flower colors
Keisuke Sakaguchi, Junichi Kitajima, Tsukasa Iwashina

P0605 – Poster

Morphological characteristics and pigmentary variation in the progenies from Nagai type of Japanese garden Iris (*Iris ensata* Thunb.)
Kaori Sakai, Yoshinori Murai, Sang Woo Bang, Tsukasa Iwashina, Yukio Kaneko

P0606 – Poster

Characterization of tomato DREB2 family genes encoding stress-responsive transcription factors
Yoh Sakuma, Yuka Miura, Hironori Hara, Ryota Mamesaya, Kumiko Seike, Shinya Matsuda, Masahiro Inoue

P0607 – Poster

Flavonoid diversity of some *Chrysanthemum* and *Ajanía* Species (Asteraceae) in Japan and China
Ayumi Uehara, Masashi Nakata, Wang Liang-Sheng, Tsukasa Iwashina

P1098 – ePoster

Investigating plant-pathogen interactions in wheat root diseases using the model grass *Brachypodium distachyon*
Katharina Schneebeil, Ulrike Mathesius, Paul Harvey, Michelle Watt

THEME 05: STRUCTURE, DEVELOPMENT & CELLULAR BIOLOGY

P0609 – Poster

Ultrastructural study of the microorganisms colonizing gametophytes and sporophytes of Canary pleurocarpous mosses
C Alfayate and E Ron

P0610 – Poster

Study of anatomical structure of graft-union in *Leucospermum* (Proteaceae)
C Alfayate, L Gómez, C Vera-Batista, JA Rodríguez

P0611 – Poster

Variations in leaf and stem anatomy of two micropropagated *Leucospermum* (Proteaceae) cultivars
C Alfayate, E Suárez, JA Rodríguez, JF Pérez-Frances

P0612 – ePoster

Xplo: a software for plant architecture exploration
Sébastien Griffon, Jean-François Barczy, François de Coligny

P0613 – ePoster

Ecological trends in wood anatomy: is it possible to define patterns in species of Atlantic rain forest domain?
Claudia Barros, Cátia Callado, Maura Da Cunha, Helena R P Lima

P0614 – ePoster

Leaf anatomy of invasive and non-invasive climbers: does it correspond with ecophysiological performance?
Richard L Boyne, Olusegun O Osunkoya, Tanya Scharaschkin

P0615 – ePoster

Ultrastructure of the cells taking part in oogenesis of the fern
Osmunda japonica
Jianguo Cao, Xiaofei Dai, Quanxi Wang

P0616 – ePoster

Fruit anatomy and morphology of Tabernaemontaneae
(Apocynaceae, Rauvolfioideae) with taxonomic notes
Sandra Maria Carmello-Guerreiro, Carla V Vilalba-Ferreira,
Andre Olmos Simões

P0618 – ePoster

New observations on anther and pollen development in
Hypolytrum and *Mapania* (Mapanioideae, Cyperaceae)
Alessandra Ike Coan and Marccus Alves

P0619 – Poster

Macadamia development: branching and flowering
Janine Conway, Jim Hanan, Rus Stephenson

P0620 – ePoster

PAP signals from the chloroplast regulate exoribonucleases,
gene silencing and stress responses in *Arabidopsis*
Peter Crisp, Gonzalo Estavillo, Wannarat Pornsiriwong, Markus
Wirtz, Estelle Giraud, Rudiger Hell, Jim Whelan, Iain Searle,
Barry Pogson

P0621 – ePoster

Cell totipotency and life program cascade: a botanical
perspective
Ke-Ming (Keming) Cui

P0622 – ePoster

Does ethylene induce lace plant programmed cell death during
leaf morphogenesis?
Adrian Dauphinee and Arunika Gunawardena

P0624 – ePoster

Morphogenesis, structure and microchemistry of pollinarium in
Asclepiadeae
Diego Demarco

P0626 – ePoster

Structural types of frond anatomy of ferns
Nina Derzhavina

P0627 – ePoster

Seed anatomy of the genus *Alysicarpus* Desv.
Arvind Dhabe

P0628 – ePoster

Diversification of ARA6 functions among land plants
Atsuko Era, Kazuo Ebine, Kimitsune Ishizaki, Takayuki Kohchi,
Akihiko Nakano, Takashi Ueda

P0629 – Poster

Removal of cytosolic PPI is a prerequisite for proper resumption
of post-germinative development in *Arabidopsis thaliana*
Ali Ferjani, Yukari Muto, Gorou Horiguchi, Masayoshi
Maeshima, Hirokazu Tsukaya

P0630 – ePoster

Dimorphic chloroplasts in the epidermis of Podostemaceae
aquatic angiosperms and implications for morphological
evolution
Rieko Fujinami, Isao Yoshihama, Ryoko Imaichi

P0631 – Poster

The formation of flooding-induced vascular cavities in *Pisum*
sativum primary roots occurs via programmed cell death
D K Gladish, P Sarkar, S Sreekanta, T Niki

P0632 – ePoster

TDIF peptide signaling regulates vascular stem cell proliferation
via the WOX4 Homeobox gene in *Arabidopsis*
Y Hirakawa, Y, Kondo, H, Fukuda

P0633 – ePoster

Analysis of DNA damage response in male gametes of
Cyrtanthus mackenii during pollen tube growth
Tomonari Hirano, K Takagi, Y Hoshino, T Abe

P0634 – ePoster

Expression and regulation of anther-specific genes in the
tapetum and microspore of *Lilium longiflorum*
Ssu-Wei Hsu, Co-Shine Wang

P0635 – ePoster

Fertility restorer gene Rf2 for lead rice type cytoplasmic male
sterility of rice encodes mitochondrial glycine-rich protein
Etsuko Itabashi, Natsuko Iwata, Sota Fujii, Tomohiko Kazama,
Kinya Toriyama

P0637 – ePoster

Pre and post pollination changes in amino acid and mineral
compositions of anther and stigma in *Solanum surattense*
Burm.f.
Bhanukumar Jain

P0642 – ePoster

Vegetative and reproductive growth of *Arabidopsis* under
microgravity
Ichirou Karahara, Takamichi Suto, Takashi Yamaguchi, Daisuke
Tamaoki, Sachiko Yano, Fumiaki Tanigaki, Toru Shimazu, Haruo
Kasahara, Hirokazu Kasahara, Seiichiro Kamisaka

P0643 – ePoster

Development of the Casparian strip is delayed by blue light in
pea stems
Ichirou Karahara, Eliko Takaya, Shigetaka Fujibayashi, Hiroshi
Inoue, James Weller, James Reid, Michizo Sugai

P0644 – ePoster

Implications of tree architecture and carbohydrate allocation in
macadamia tree development
Sadegh Karimaei and Jim Hanan

P0645 – ePoster

Body plan of Hypericaceae and implications for the evolution of
Podostemaceae
Satoshi Koi, Masahiro Kato, Keiji Nakajima

P0646 – ePoster

Structural mechanisms of the development and germination of
seeds with underdeveloped embryo
Nouria Koteyeva and Irina Kravkina

P0648 – ePoster

Structure, development and histochemistry of the bracteal and
receptacular colleters of *Encyclia alboxanthina* (Orchidaceae)
Carlos André Leitão and Lia Ascensão

P0649 – ePoster

Geotropic orientation of a lateral bud of monocotyledons
Igor Levichev

P0650 – ePoster

Dimeric, mono-sympodial, structure of metameric module of
agiosperms
Igor Levichev and Liudmila Krasovskaya

P0651 – ePoster

Singularity and differences between monocotyledons and dicotyledons
Igor Levichev, Liudmila Krasovskaya, Ivan Tatanov

P0652 – ePoster

An anther-specific gene encoding Cis-prenyltransferase in *Lilium longiflorum*
Ming-Che Liu, Co-Shine Wang

P0653 – ePoster

Organelle tracking during environmentally induced and developmentally regulated programmed cell death (PCD) in the model species *Aponogeton madagascariensis*
Christina Lord, Arunika Gunawardena

P0654 – ePoster

Diversity of pollen, pollination and conservation
Sudhendu Mandal

P0655 – ePoster

ABA-induced reorientation of cortical microtubule arrays involves the formation of dynamic, discordant microtubules
J Marc, D Seung, M Webster

P0656 – ePoster

Microsporogenesis and microgametogenesis of Bromeliaceae from southern Brazil: pollen fertility in conditions of ex situ conservation
Erica Duarte-Silva, Jorge Mariath, Juliana Troleis, Antonia Pesenti, Guilherme de Andrade

P0657 – ePoster

The *Passiflora* ovule: from the external to internal view
Adriano Silverio, Jorge Mariath, Guilherme de Souza

P0658 – ePoster

Development of root aerenchyma in *Potamogeton polygonus* Cham. et Schldt (Potamogetonaceae – Alismatales): cell wall structure and cytological alterations
Alexandra Mastroberti, Maria Cecilia Moço, Cleusa Bona, Jorge Ernesto Mariath

P0660 – ePoster

To break or not to break? It's what's inside that counts!
Roger D, Meicenheimer, Douglas W Coffin, Eric M Chapman

P0661 – ePoster

New reports of colleters in Myrtaceae
Renata M S A Meira, Cleber J Meira, Luiz C A Barbosa

P0664 – ePoster

The diversity of pollen type and sculptural structure in family Leguminosae : implication for evolution
Maliwan Nakkuntod, Irin Seangruttanachaikul, Rattanawadee Jabthong

P0665 – ePoster

Nectar and nectary character state
Massimo Nepi, Massimo Guarnieri, Daniele Nocentini, Ettore Pacini

P0666 – ePoster

Microscopic characterization of foliar secretory trichomes of *Drosera capensis*
Ashley Nicholas, Yougasphree Naidoo, Samia Ibrahim

P0667 – ePoster

Granules in the cells of maize root tips
Susum Saito, Teruo Niki, Mitsuo Takahashi, Daniel K Gladish

P0669 – ePoster

Phenotypic and molecular characterization of temperature-sensitive mutants of *Arabidopsis* that form fasciated roots under the restrictive temperature
Kurataka Ohtsuka, Mineko Konishi, Atsuko Kinoshita, Munetaka Sugiyama

P0672 – ePoster

Morphogenesis of fruit in palm family
Mikhail Romanov, Alexey Bobrov

P0674 – ePoster

Breeding system of *Magnolia denudata* with emphasis on thermogenesis flower and anatomical changes in ovule development
Wang Ruohan, Zhang Zhixiang, Mou Shulin, Liu Xiangyu, Zhang Yiyuan

P0675 – ePoster

Preferential imaging by cryofluorescence microscopy of bundle sheath chloroplasts in leaves of *Zea mays*
Vassilios Sarafis, Igor Falat, Frantisek Vacha

P0676 – ePoster

An in vivo viewing by super resolving, fluorescence structured illumination microscopy of *Dawsonia superba* dry spores
Vassilios Sarafis, Emma King

P0677 – ePoster

Localization of an aquaporin TIP2;2 in phytochrome A-deficient mutant
Kumi Sato-Nara, Kayo Hashimoto

P0678 – ePoster

Identification of blue and red *Vanda* with SEM Of aerial velamen roots
A Brama Dhayala Selvam

P0679 – ePoster

Physiological analysis of seed development and germination in seagrass (*Zostera marina*)
H Shiota, Y Bando, K Yanada, K Kurokawa, I Tanaka

P0680 – ePoster

Flower anatomy and evolution in species of Rauvolfioideae (Apocynaceae): preliminary results
AO Simões, MCS Rio, MCJ Santos

P0682 – ePoster

The adaptive radiation of the leaf venation in Hawaiian *C₄ Euphorbia*: 'shedding' veins in shade reduces cost
Margaret J Sporck and Lawren Sack

P0683 – ePoster

The nectaries and nectar secretion in the flowers of *Fritillaria meleagris* L. (Liliaceae) – an endangered plant in Poland
Ma³gorzata Stpiczyńska, Marcin Zych, Massimo Nepi

P0684 – ePoster

The dynamics of nucleolar small G protein AtNog1-1 in plant nucleus is cell cycle and cell development dependent
IN Suwastika, CH Im, WY Bang, RL Ohniwa, JD Bahk, K Takeyasu, T Shiina

P0686 – ePoster

Isolation of salt glands from *Avicennia officinalis* for microscopic studies
WK Tan, Q Lin, TM Lim, P Kumar, CS Loh

P0687 – ePoster

Morphogenetic gradients in silver firs (*Abies alba* Mill.) and their plasticity
Olivier Taugourdeau, Sylvie Sabatier, Yves Caraglio, Daniel Barthélémy

P0688 – ePoster

Plant architecture: from concepts to applications
Olivier Taugourdeau, Daniel Barthélémy, Yves Caraglio, Tristan Charles-Dominique, Claude Edelin, Patrick Heuret, Brigitte Meyer-Berthaud, Eric Nicolini, Hervé Rey, Sylvie Sabatier

P0689 – ePoster

Anatomical studies of the gynoecium of *Anthurium* Schott (Araceae)
L G Temponi, L P Poli, A I Coan

P0690 – ePoster

Endopolyploidy in *Dendrobium* Chao Praya Smile (Orchidaceae)
Koh Teng Seah, Loh Chiang Shiong

P0692 – ePoster

Biochemical responses of Iranian alfalfa ecotypes to salt stress
Masoud Torabi, Ridzwan Halim, Rajab Chokan

P0693 – ePoster

Floret anthesis in maize
Chih-Hua Tsou, Yu-lan Fu, Chryon-man Tseng, Hsio-rong Yen, Ping-chin Cheng

P0694 – ePoster

Just what is a flower? Developmental genetics, morphology and multi-level homology in Triuridaceae and other families of Pandanales
Francisco Vergara-Silva

P0695 – ePoster

The remarkable Androecium evolution in Helicteroideae (Malvaceae, Malvales)
Maria von Balthazar, Reto Nyffeler, Jürg Schönenberger

P0696 – ePoster

Coevolution of leaf venation pattern and anatomical types in *C4* plants
Elena V Voznesenskaya, Nuria K Koteyeva, Gerald E Edwards

P0697 – ePoster

The mechanism of epigyny formation in flower of Aizoaceae, its evolutionary interpretation and significance for family phylogeny
Myroslava Vovk

P0698 – ePoster

Arabidopsis inositol polyphosphate 6-/3-kinase (AtIpk2 β) regulates floral transition
Huijun Xia

P0699 – ePoster

Living wood fibers act as starch storage and transport pathway in black locust (*Robinia pseudoacacia*)
Yukiko Yamada, Tatsuya Awano, Minoru Fujita, Keiji Takabe

P0700 – ePoster

Phyllotactic transitions in *Diphysastrum digitatum*
Xiaofeng Yin and Roger Meicenheimer

P0701 – ePoster

Analysis of phyllotactic pattern transitions in seedlings of *Thuja occidentalis* L.
Xiaofeng Yin, Christian Lacroix, Denis Barab

P0702 – Poster

Elucidating the mechanism of poricide anther dehiscence in Melastomataceae
PA Cortez, APS Caetano, DG Simão, SM Carmello-Guerreiro, SP Teixeira

P0703 – Poster

Expression of SHI family genes from *Brassica rapa* L. ssp. *pekinensis* effects on plant growth and development in *Arabidopsis*
Yeon-Hee Lee, Joon Ki Hong, Jung Sun Kim, Jin A Kim, Soo In Lee

P0704 – Poster

Gland diversity in legume flowers
CR Marinho, CD Souza, TC Barros, SP Teixeira

P0705 – Poster

Pericarp and seed structure in three species of *Passiflora* (Passifloraceae-subgenus *Decaloba* (DC.) Rchb. section *Xerogona* (Raf.) Killip)
J F Milani, S M Carmello-Guerreiro

P0706 – Poster

Fruit micromorphology in the Umbelliferae and its taxonomic significance
T Ostroumova, MG Pimenov, UA Ukrainskaya

**THEME 06: SYSTEMATICS, EVOLUTION,
 BIOGEOGRAPHY AND BIODIVERSITY
 INFORMATICS**

P0708 – ePoster

Catalogue of seed plants of the West Indies
P Acevedo, M Strong

P0712 – ePoster

Plazi /Goldengate as tools for markup and data exchange of taxonomic publications
G Sautter, T Catapano, R Morris, D Agosti

P0714 – ePoster

Molecular phylogenetics of Nepenthaceae based on internal transcribed spacer (ITS) DNA sequences
Firman Alamsyah and Motomi Ito

P0715 – ePoster

Xeromorphic anatomical characters and their adaptive value in understory Marantaceae species
E S B Albuquerque, J M A Braga, R C Vieira

P0716 – ePoster

Microsatellites as tools for species delimitation and diagnosis of hybrid origins in the hyper-diverse genus *Boechera* (Brassicaceae)
Loreen Allphin, James Beck, Christina Call, C Donovan Bailey, Patrick Alexander, Ihsan Al-Shehbaz, Michael Windham

P0717 – ePoster

Encouraging online publication of taxonomic and floristic research data using BRAHMS –online
Maria C E Amaral, Volker Bittrich, Andrew Liddell, Denis Leonard Filer

P0718 – ePoster

Scape anatomy, fruit dehiscence, and chromosome numbers support polyphyly of *Neomarica* (Iridiaceae) and parallel evolution of the leaf-like scape
Maria C E Amaral, André S B Gil, Rafaela J Trad, Juan D Urdampilleta, Volker Bittrich

P0719 – ePoster

Genecology, hybrid introgression and phylogeography of Icelandic birch
Kesara Anamthawat-Jónsson

P0720 – ePoster

Holocene hybridisation in Icelandic birch
Kesara Anamthawat-Jónsson, Lilja Karlsdóttir, Ægir Þórsson, Margrét Hallsdóttir

P0721 – ePoster

Not just dates: evolutionary history of the palm genus *Phoenix*
Cajsa Lisa Anderson, Isabel Marques, Alan Channing, Isabel Sanmartín,

P0722 – ePoster

The Missouri Botanical Garden's DNA bank: challenges and opportunities for service to the systematics community
Wendy Applequist, Alyse Kuhlman, James Solomon, Porter Lowry II, Rainer Bussmann, Robert Magill

P0727 – ePoster

Reconstruction of ancestral pollen morphologies aids calibrating of the phylogenetic tree of Apiaceae subfamily Apioideae (Magnoliophyta, Apiales)
Lukasz Banasiak and Krzysztof Spalik

P0728 – ePoster

Characteristics of the woodland vegetation of Tahtaly Mountains, Turkey
Barýb Bani and Nezaket Adýgüzel

P0729 – Poster

Fossil flowers, fruits and seeds from the early Miocene Foulden Maar, New Zealand
Jennifer M Bannister, John G Conran, Daphne E Lee, Uwe Kaufuss, Dallas M Mildenhall

P0730 – Poster

New taxonomic implications in Tillandsioideae (Bromeliaceae) based on DNA data and morphology
Michael H J Barfuss, Walter Till

P0731 – ePoster

Melastomataceae in Flora Fluminensis, a significant remnant of Atlantic Forest of southeastern Brazil
JFA Baumgratz, LAF Santos Filho

P0732 – ePoster

Melastomataceae in conservation units from the Atlantic Forest, southeastern Brazil: diversity and conservation
JFA Baumgratz, LAF Santos Filho, MLD Rei Souza, BM De-Polli

P0733 – Poster

Phylogeny and taxonomic treatment for *Salvia* sect. *Polystachyae/Iodanthae/Purpureae* (Lamiaceae): morphology and pollen
Brenda Y Bedolla-García, Sabina I Lara-Cabrera

P0737 – ePoster

Drivers of speciation in large rainforest Myrtaceae genera
Eve Lucas, Benedetta Bernardini, Felix Forest, Julie Hawkins

P0738 – ePoster

The enigmatic genus *Aspidoglossum* E. Mey. (Apocynaceae: Asclepiadoideae–Asclepiadeae) an overview of this complex African endemic
Stoffel Petrus Bester, A Nicholas

P0740 – ePoster

The Pl@ntnet project: plant computational identification and collaborative information system
Daniel Barthélémy, Nozha Boujemaa, Daniel Mathieu, Molino Jean-françois, Alexis Joly, Elise Mouysset

P0743 – ePoster

Genome-level evidence of adaptive variation among natural eucalypt populations: implications for evolution and conservation
Donna Bradbury, S Krauss, A Smithson, E Veneklaas

P0744 – ePoster

Molecular systematics of the *Eutrema edwardsii* complex (Brassicaceae)
Leo Bruederle, Katrin Göbbeler

P0746 – ePoster

New insights into the generic circumscription of Helieae (Gentianaceae)
Maria Fernanda Calió, KB Lepis, JR Pirani, L Struwe

P0747 – ePoster

Phylogeny and biogeography of *Anemopaegma* Mart. ex Meisn. (Bignoniaceae, Bignoniaceae)
Maria Fernanda Calió, RC Winkworth, LG Lohmann

P0748 – ePoster

Fossil Leguminosae from Mexico: an update on the regional paleodiversity of the family
Laura Calvillo-Canadell, Sergio RS Cevallos-Ferriz, Mario Sousa, Lourdes Rico-Arce, Ana Lilia Hernández Damián

P0749 – ePoster

On important roles of historical specimens at the herbaria for bryological researches
Tong Cao, Shuiliang Guo, Jing Yu

P0750 – ePoster

Saprobic fungi diversity of different environments in 'Parque Estatal Agua Blanca' Macuspana, Tabasco, Mexico
Silvia Cappello Garcia, E Rosique-Gil, J Cifuentes-Blanco

P0751 – ePoster

Systematics, evolution, and biogeography of the western North American cleomoids (Cleomaceae)
WM Cardinal-McTeague, KJ Sytsma, WJ Hahn, JC Hall

P0752 – ePoster

Lomelosia crenata ssp. *pseudisetensis* (Dipsacaceae) at the southern limit of its distribution (S Italy)
Giuseppe Caruso, Dimitar Uzunov

P0753 – ePoster

Retama raetam ssp. *gussonei* (Fabaceae): population survey in Calabria (S Italy)
Giuseppe Caruso, Dimitar Uzunov, Carmen Gangale

P0754 – ePoster

The role of female and hermaphrodite flowers in the gynodioecious–gynomonoecious *Silene littorea*: insights into the phenology of sex expression
I Casimiro-Soriguer, ML Buide, E Narbona

P0755 – ePoster

Sexual patterns of *Erophaca* flowers, first andromonoecious Fabaceae in the Old World
Ramon Casimiro-Soriguer, Javier Herrera, Salvador Tallavera

P0756 – ePoster

Occurrence of a member of *Osmundea spectabilis* group (Ceramiales, Rhodophyta) in the Laje De Santos Marine State Park, São Paulo, southeastern Brazil
Mutue T Fujii, Renato Rocha-Jorge, Beatriz Barros-Barreto, Jhoana Diaz-Larrea, Valéria Cassano, Abel Senties, Ma Candelária Gil-Rodríguez

P0757 – ePoster

Morphological and molecular studies on red seaweed *Laurencia oliveirana* (Ceramiales, Rhodophyta): an endemic species from Brazil
Valéria Cassano, Ma Candelaria Gil-Rodríguez, Abel Senties, Jhoana Díaz-Larrea, Mariana C Oliveira, Mutue T Fujii

P0758 – ePoster

Foliar architecture of Burseraceae and Anacardiaceae
Sergio RS Cevallos-Ferriz, Laura Calvillo-Canadell, Marcela Martínez-Millán

P0759 – ePoster

Two new species of *Codium* (Bryopsidales, Chlorophyta) from Australia
Max Chacana and Paul Silva

P0760 – ePoster

Apogamous ferns with extreme morphological variation: reticulate evolution of *Pteris cadieri* complex
Yi-Shan Chao, Shi-Yong Dong, Yu-Chung Chiang, Ho-Yih Liu, Wen-Liang Chiou

P0761 – ePoster

Molecular evolution and genetic diversity of calmodulin gene family in *Oryza* L.
Yi-Shan Chao, Yu-Chung Chiang

P0762 – ePoster

Identifying potential glacial refugia and postglacial recolonization on the platform of Qinghai–Tibetan Plateau: a perennial shrub *Spiraea alpina* (Rosaceae)
Shilong Chen, Faqi Zhang, Qingbo Gao, Yizhong Duan, Yinhu Li, Pengcheng Fu

P0763 – ePoster

Phylogeny and pre-domestication cultivation in the *Scrophularia ningpoensis* species complex
Chuan Chen, Pan Li, Joongku Lee, Barbara Schaal, Chengxin Fu

P0764 – ePoster

Genetic diversity of the medical parasitic plant *Cynomorium*
GL Chen, GD Liu, D Feng, Q Chen

P0765 – ePoster

A preliminarily taxonomic revision on the genus *Bougainvillea* Comm. (Nyctaginaceae)
Tao Chen and Michael Nee

P0766 – ePoster

The study and monitoring of an urban forest dynamics plot in Taiwan – assessment of a botanic garden site
Shau-Ting Chiu and Wan-Ching Li

P0767 – ePoster

Phylogeography and genetic diversity of east Asian *Neolitsea sericea* (Lauraceae) using chloroplast DNA sequence variation
B H Choi and J H Lee

P0768 – ePoster

Chromosomal mapping of 18S-25S and 5S ribosomal genes of Fagaceae species from northern Thailand
Ploenpit Chokchaichamnankit and Kesara Anamthawat-Jónsson

P0769 – ePoster

Sahul origin and multiple long-distance dispersals of South Pacific alpine plants: insights from molecular dating, phylogeography and population genetics of *Oreomyrrhis* clade of *Chaerophyllum*
Kuo-Fang Chung, Ching-I Peng, Barbara A Schaal

P0770 – ePoster

Specialisation vs. generalization – field investigations in bee-pollinated *Salvia* (Lamiaceae) species from Central Atolia
R Claßen-Bockhoff, F Celep, Z Atalay, F Dikmen, M Dogan

P0771 – ePoster

Who is who in *Salvia* L.? A phylogenetic update of the sages from the Old World (Lamiaceae)
R Claßen-Bockhoff and M Will

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Diversity and conservation of bromeliads of the Vale do Ribeira, State of São Paulo, Brazil
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