

17:45 – 18:00 *F. Damiani, E. Montenovio, A. Belia, F.J. Escaray, O.A. Ruiz, F. Paolucci*
Editing of key structural genes for proanthocyanidin biosynthesis in *Lotus corniculatus*

18:00 – 18:20 **SIGA-Plants Award**
Introduction: G. Frugis
M. Sulli
Molecular and biochemical characterization of a potato collection with contrasting tuber carotenoid content
Award ceremony

WEDNESDAY, SEPTEMBER 26th

09:00 – 10:55 Session 2 - Genetics and breeding of complex traits
Chairpersons: G. Perrotta, L. Rossini

09:00 – 09:40 **Invited Lecture**
D. Zamir
Epistasis Time

09:40 – 09:55 *A. Riccini, I.A. Diouf, F. Tizon, C. Pons, A. Monforte, J. Blanca, A. Granell, M. Causse, A. Mazzucato*
Dissecting genetic factors underlying style position in tomato

09:55 – 10:10 *G. Bretani, S. Shaaf, A. Hotti, A. Tondelli, L. Cattivelli, S. Delbono, R. Waugh, B. Thomas, J. Russell, H. Bull, R. Keith, E. Igartua, A. Casas, P. Gracia, A. Schulman, L. Rossini*
Genome Wide Association study for barley culm-related traits across different European countries

10:10 – 10:25 *V. Colonna, N. D'Agostino, E. Garrison, A. Albrechtsen, J. Meisner, A. Facchiano, T. Cardi, P. Tripodi*
A genome-wide SNP panel and high resolution phenotyping help to decipher *loci* under selection associated with fruit morphology in *Capsicum*

10:25 – 10:40 *G.E. Condorelli, R. Ghizzoni, V. Terzi, M. Maccaferri, E. Frascaroli, G. Sciara, R. Righetti, M. Martelli, S. Ravaglia, G. Laidò, A. Moretti, A. Prodi, G. Tumino, B. Steiner, H. Buerstmayr, R. Tuberosa, L. Cattivelli*
Whole genome association mapping for Fusarium Head Blight resistance in durum wheat

10:40 – 10:55 *G. Laidò, D. Marone, A. Saccomanno, G. Petruzzino, S. Saia, P. De Vita, N. Pecchioni*
Identification of common resistance *loci* of wheat to three rust species by GWAS and multi-location trials

10:55 – 11:15 Coffee break and poster viewing
(Sessions 1, 2 and 4)

FRIDAY, SEPTEMBER 28th

09:30 – 12:50 Symposium - GWAS and Genome selection
Chairpersons: M. Pezzotti, M.E. Pè

Invited Lectures

09:30 – 10:10 *R. Waugh*
Genetic dissection of barley inflorescence architecture

10:10 – 10:50 *M. Nordborg*
The genetics of epigenetics

10:50 – 11:30 *S. Salvi*
Harnessing natural and induced genetic variation for gene discovery in cereals

11:30 – 12:10 *P. Ajmone Marsan*
Use of -omics to understand livestock biology

12:10 – 12:50 *S. Naitza*
Identifying autoimmunity genes and mechanisms in the founder Sardinian population

12:50 – 13:00 Closing ceremony
Chairpersons: M. Pezzotti, M.E. Pè

UNDER THE PATRONAGE OF



WITH THE SUPPORT OF



UNIVERSITÀ
di VERONA
Dipartimento
di BIOTECNOLOGIE

PLANT DEVELOPMENT AND CROP PRODUCTIVITY FOR SUSTAINABLE AGRICULTURE



PROGRAMME

Verona, 25th-28th September 2018

PALAZZO DELLA GRAN GUARDIA

TUESDAY, SEPTEMBER 25th

13:30 – 14:30 Registration and poster display

14:30 – 15:00 Opening ceremony
Chairpersons: M. Pezzotti, M.E. Pè
Welcome address by Institutional and Local Authorities
F. Sboarina, Major - City of Verona
N. Sartor, Rector Magnificus - University of Verona

15:00 – 16:40 Session 1 - Future perspectives in plant biotechnology
Dedicated to Domenico Mariotti
Chairpersons: D. Giannino, C. Licciardello

15:00 – 15:40 **Invited Lecture**
C. Martin
Addressing nutritional security; designing health-protecting foods

15:40 – 15:55 *G. Orozco-Arroyo, E. Boncompagni, E. Cominelli, P.L. Gangashetty, S. Grando, T.T. Kwaku Zu, M.G. Daminati, E. Nielsen, F. Sparvoli*
Antinutritional factors in pearl millet grains: phytate and goitrogens content variability and molecular characterization of genes involved in their pathways

15:55 – 16:10 *G. Galla, A. Basso, E. Gusella, G. Barcaccia*
Transcriptomic analysis of ovule-specific cell lineages to identify genes related to aposporous apomixis in *Hypericum perforatum* L.

16:10 – 16:25 *F. Perozeni, S. Cazzaniga, T. Baier, A. Rosa, K.J. Lauersen, L. Wobbe, O. Kruse, M. Ballottari*
Sustainable natural astaxanthin production using a *C. reinhardtii* transgenic based system

16:25 – 16:40 *G. Mandalà, S. Tundo, S. Francesconi, F. Gevi, L. Zolla, C. Ceoloni, R. D'Ovidio*
Transgene pyramiding to combine different resistance mechanisms in wheat against *Fusarium* diseases

16:40 – 17:15 Coffee break and poster viewing
(Sessions 1, 2 and 4)

17:15 – 18:20 Session 1 - (cont.)

17:15 – 17:30 *L. Giacomelli, T. Zeilmaker, L. Dalla Costa, M. Malnoy, J. Rouppe Van Der Voort, C. Moser*
Generation of mildew-resistant grapevine clones via genome editing: potentials and hurdles

17:30 – 17:45 *C. D'Ambrosio, A.L. Stigliani, G. Giorio*
CRISPR/Cas9-mediate editing *Psy1* and *CrtR-b2* in tomato

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| 11:15 – 13:15 | Session 3 - Round Table with Breeding Companies <i>Moderator: R. Tuberosa</i> <i>Participants: G. Carli (AssoSementi); M. Beretta (ISI Sementi); C. Volpi (Enza Zaden); E. Tassinari (ISEA Agroservice); M. Faro (Azienda Vivaistica Piante Faro)</i> |
| 13:15 – 14:45 | Lunch break |
| 14:45 – 16:55 | Session 4 - Plant genetic resources conservation and use <i>Chairpersons: T. Cardi, M.R. Ercolano</i> |
| 14:45 – 15:25 | Invited Lecture <i>S. Kell</i> Crop diversification in a changing world: are we equipped for the challenge? |
| 15:25 – 15:40 | <i>F.D. Mclean Rodriguez, T.C. Camacho Villa, D. Costich, C. Almekinders, M. Dell'Acqua, M.E. Pè</i> Combining genomics and socio-economic approaches to compare <i>ex-situ</i> and <i>in-situ</i> conservation of maize landraces |
| 15:40 – 15:55 | <i>G. Las Casas, M. Caruso, D. Scaglione, S. Gattolin, L. Rossini, G. Distefano, F. Cattonaro, A. Catania, G. Licciardello, M. Morgante, C. Licciardello</i> Next generation sequencing data for sweet orange clonal fingerprinting |
| 15:55 – 16:10 | <i>L. Toppino, S. Ribolzi, S. Shaaf, L. Bassolino, G. Carletti, S. Fadda, L. Rossini, H.F. Boyaci, S. Caliskan, A. Unlu, G.L. Rotino</i> Development of an introgression lines population and genetic mapping of novel traits linked to key breeding traits in eggplant |
| 16:10 – 16:25 | <i>T. Gioia, S. Marzario, G. Logozzo, D.J. Wright, S. Neupane, T.L. Heidecker, K. Nielsen, C. Chan, D. Rubiales, E. Barilli, S. Udupa, R. Mehra, A. Sarkar, M. Hossain, B. Anwar, R. Dhakal, C. Coyone, A. Vandernberg, K.E. Bett</i> The phenotypic and genetic architecture of adaptation: taking lentils out of their comfort zone |
| 16:25 – 16:40 | <i>E. Bellucci, C. Xu, E. Bitocchi, A. Benazzo, M. Rodriguez, T. Gioia, S. Alseekh, A. Ariani, K. Neumann, E. Trucchi, L. Jiang, G. Logozzo, J.H. Shin, D. Rau, L. Nanni, G. Attene, G. Bertorelle, P. Gepts, A.R. Fernie, A. Graner, S.A. Jackson, R. Papa</i> BEAN_ADAPT: the genomics of adaptation during crop expansion of common bean |
| 16:40 – 16:55 | <i>A. Brunazzi, S. Sestili, G. Campanelli, C. Leonarduzzi, M. Malatrasi, M. Beretta</i> Development of a Multi-parent Advanced Generation Inter-Cross (MAGIC) populations in tomato (<i>Solanum lycopersicum</i> L.): a new resource for plant breeders |

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| 17:00 – 17:30 | Coffee break and poster viewing (Sessions 5, 6 and 7) |
| 17:30 – 19:30 | SIGA General Assembly |

THURSDAY, SEPTEMBER 27th

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| 09:00 – 10:40 | Session 5 - Interactions of plants with the environment <i>Chairpersons: F. Fornara, W. Sanseverino</i> |
| 09:00 – 09:40 | Invited Lecture <i>G. Coupland</i> Variation in genome structure and reproductive traits between annual and perennial species |
| 09:40 – 09:55 | <i>V. Brambilla, M. Cerise, D. Martignago, F. Galbiati, M. De Rosa, D. Horner, M. Chiara, A. Spada, F. Fornara</i> The paralogous rice florigens Hd3A and RFT1 have partially divergent functions during floral transition |
| 09:55 – 10:10 | <i>A. Robustelli Test, M. Riboni, M. Chiara, M.A.A. Salem, P. Giavalisco, E. Kaiserli, C. Tonelli, L. Conti</i> Drought dependent modulation of photoperiodic signalling via hormonal inputs |
| 10:10 – 10:25 | <i>S. Esposito, R. Aversano, J.M. Bradeen, A. Di Matteo, C. Villano, M. Giliberti, D. Carputo</i> Towards understanding molecular dynamics and riboregulators involved in the cold stress tolerance of wild <i>Solanum commersonii</i> |
| 10:25 – 10:40 | <i>M. Buti, M. Pasquariello, D. Ronga, J.A. Milc, N. Pecchioni, V.T. Ho, C. Pucciariello, P. Perata, E. Francia</i> Transcriptome profiling of short term response to chilling stress in tolerant and sensitive rice seedlings |
| 10:40 – 11:30 | Coffee break and poster viewing (Sessions 5, 6 and 7) |
| 11:30 – 12:40 | Session 5 - (cont.) |
| 11:30 – 11:45 | <i>A. Vangelisti, L. Solorzano-Zambrano, G. Usai, R. Bernardi, F. Mascagni, G. Caruso, A. Cavallini, R. Gucci, L. Natali, T. Giordani</i> Deciphering the molecular basis of salinity tolerance in fig tree (<i>Ficus carica</i> L.) |
| 11:45 – 12:00 | <i>A. Monteagudo, A. Rodriguez, B. Contreras-Moreira, C.P. Cantalapiedra, E. Igartua, A.M. Casas, I. Karsai</i> Barley sensitivity to light quality: plant development and gene expression |
| 12:00 – 12:40 | Invited Lecture <i>P. Mas</i> A circadian tale: the cell cycle keeps the rhythm in Arabidopsis |

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| 12:40 – 13:00 | SIGA Young Research Award 2018 <i>Chairpersons: M. Pezzotti, E. Filippone</i> <i>B. Farneti</i> Genome-wide association study unravels the genetic control of the apple volatilome and its interplay with fruit texture <i>Award ceremony</i> |
| 13:00 – 14:30 | Lunch |
| 14:30 – 16:30 | Session 6 - Plant genetics and genomics <i>Chairpersons: A. Acquadro, E. Filippone</i> |
| 14:30 – 14:45 | <i>E. Cerruti, C. Comino, M. Catoni, L. Barchi, D. Valentino, C. Gisbert, J. Prohens, E. Portis, S. Lanteri</i> Integrated DNA methylome and transcriptome analyses highlight epigenomic changes in grafted eggplant plants |
| 14:45 – 15:00 | <i>A. Basso, G. Barcaccia, G. Galla</i> Annotation and expression of FDM-like genes in sexual and apomictic model species |
| 15:00 – 15:15 | <i>S. Dal Santo, A. Amato, C. Pagliarani, C. Del Fabbro, M. Pezzotti, G. Gambino, E. De Paoli, I. Perrone</i> Transcriptional reprogramming and epigenomic landscape dynamics during grapevine somatic embryogenesis process |
| 15:15 – 15:30 | <i>F. Martinelli, J. Benny, T. Caruso</i> Meta-analysis of RNA-Seq data to gain insight into crop responses to environmental stresses |
| 15:30 – 15:45 | <i>G. Marconi, S. Capomaccio, C. Comino, E. Cerruti, A. Acquadro, E. Portis, A. Porceddu, E. Albertini</i> MCSeEd, a method for detecting changes in DNA methylation and calling SNPs with or without a reference genome |
| 15:45 – 16:00 | <i>W. Chitarra, C. Pagliarani, S. Abbà, P. Boccacci, G. Birello, M. Rossi, S. Palmano, C. Marzachi, I. Perrone, G. Gambino</i> miRVIT: a grapevine novel miRNA database and its application |
| 16:00 – 16:15 | <i>M. Rossato, L. Marcolungo, E. Cosentino, M. Delledonne</i> Optical mapping for <i>de-novo</i> genome assembly and plant comparative genomics |
| 16:15 – 16:30 | <i>G. Tacconi, V. Michelotti, L. Tosi, A. Lamontanara, A. Giacopini, F. Bertaiola, L. Cattivelli, L. Orrù</i> Plant-microbe-environmental interaction under the soil: the case of kiwifruit vine decline in North Italy |
| 16:30 – 17:00 | Coffee break and poster dismant |

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| 17:00 – 19:10 | Session 7 - Plant development and yield <i>Chairpersons: M.E. Pè, S. Salvi</i> |
| 17:00 – 17:40 | Invited Lecture <i>D. Inzè</i> Mechanism regulating the size of plant organs |
| 17:40 – 17:55 | <i>G. Testone, E. Di Giacomo, G. Mele, M.A. Iannelli, C. Nicolodi, I. Coraggio, D. Giannino, G. Frugis</i> Exploiting TALE (KNOX/BLH) transcription factors regulatory networks to increase crop production |
| 17:55 – 18:10 | <i>V. Di Rienzo, Z. Imanifard, I. Mascio, C. Gasser, C.L. Pierri, P. Trotti, F. Porcelli, P. Delfino, R. Gristina, C. Montemurro, D. Bellin</i> The conserved role of inner no outer transcription factor in eudicot ovule development |
| 18:10 – 18:25 | <i>E. Fasani, G. Dal Corso, A. Costa, S. Zenoni, A. Furini</i> The <i>Arabidopsis thaliana</i> transcription factor MYB59 regulates calcium signalling during plant growth and stress response |
| 18:25 – 18:40 | <i>E. D'Incà, E. Bertini, A. Amato, G.B. Tornielli, S. Zenoni</i> Dissection of the control of the onset of berry ripening in grapevine: the role of NAC trascription factors |
| 18:40 – 18:55 | <i>S. Rosignoli, I. Vardanega, S. Corneti, R. Tuberosa, S. Salvi</i> Describing and cloning lesion mimic mutants in barley |
| 18:55 – 19:10 | <i>S. Delbono, A. Tondelli, A. Visioni, A. Jilal, E. Iguarta, H. Ozkan, S. Puglisi, L. Cattivelli, A. Fricano</i> Multi-parental genomic prediction for improving barley yield in harsh Mediterranean environments |
| 20:30 | Social event Villa della Torre, Via della Torre 25, Fumane (VR) |

