

FSTP4









ALMA MATER STUDIORUM Università di Bologna

FROM SEED TO PASTA IV

INTERNATIONAL CONFERENCE A SUSTAINABLE DURUM WHEAT CHAIN FOR FOOD SECURITY AND HEALTHY LIVES

BOLOGNA - ITALY 26-29 OCTOBER 2022

Conference Center, Emilia-Romagna Region Tower 3 - Viale della Fiera, 8 - Bologna



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Bologna - Italy, 26-29 October 2022



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> > **Luigi Rossi** ENEA, Italy







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Bologna - Italy, 26-29 October 2022

Wednesday, 26th October 2022

08:15 - 09:00	Registration of participants
09:00 - 09:40	Opening session and welcome addresses Chairs: Karim Ammar, Roberto Tuberosa
	 Paolo de Castro - EU Committee on Agriculture and Rural Development Rosalba Lanciotti - Delegate of the Rector of the University of Bologna and Director of DISTAL Alessio Mammì - Dept. Agriculture Emilia-Romagna Region Representative of MIPAAF Stefano Vaccari - General Manager of CREA Aldo Ceriotti - Director of IBBA, CNR Silvio Salvi - Vice President SIGA and delegate of AISSA
09:40 - 10:10	Opening keynote lecture Importance of science and collaboration in addressing food security: Role of the Wheat Initiative Peter Langridge - Wheat Initiative, Germany
10:10 - 12:35	Session 1. Genomics of durum wheat Chairs: Luigi Cattivelli, Agata Gadaleta
	Invited presentations
10:10 - 10:40	Leveraging modern genomic resources to identify adaptive variants and optimize breeding strategies in wheat Eduard Akhunov - <i>Kansas State University, USA</i>
10:40 - 11:00	Svevo v2: A Platinum quality assembly of the durum wheat reference genome Luigi Cattivelli (CREA, Italy) and Curtis Pozniak (University of Saskatchewan, Canada)
	Presentations selected from abstracts
11:00 - 11:15	Carlotta award special mention Speed genomic selection scheme for better adapted durum wheat to CWANA and West Africa regions Hafssa Kabbaj - ICARDA, Rabat, Morocco
11:15 - 11:30	Recreating adaptive traits in exotic wheat germplasm Dhouha Kthiri - National Research Council. Canada





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11:30 - 11:45	Use of optimized hexaploidy wheat SNP arrays for durum genotyping Martin Ganal - SGS Institut Fresenius GmbH, TraitGenetics, Germany
11:45 - 12:00	Illuminating the genomic landscapes of wheat evolution and domestication Yael Lev-Mirom - University of Haifa, Israel
12:00 - 12:15	Application of molecular and cytogenetic markers to improve Hessian fly resistance and grain quality in durum wheat (<i>Triticum turgidum</i>) in Morocco Moha Ferrahi - INRA, Morocco
12:15 - 12:30	Defining the genetics of spike colour and variation underlying awn and glume pigmentation in tetraploid wheat Teketel Haile - <i>University of Saskatchewan, Canada</i>
12:30 - 14:00	Lunch
14:00 - 17:05	Session 2. Leveraging tetraploid wheat genetic resources for a concerted improvement of durum and bread wheat Chairs: Haile Jemanesh, Marco Maccaferri
	Invited presentations
14:00 - 14:25	Using the tetraploid Triticum timopheevii to increase the genetic variation of wheat July King - University of Nottingham, UK
14:25 - 14:50	Genomics collaborative tools developed by the durum wheat community Marco Maccaferri - <i>University of Bologna, Italy</i>
14:50 - 15:15	The Global Durum wheat Panel (GDP): An open access collection for durum wheat breeding Elisabetta Mazzucotelli - CREA, Italy
15:15 - 15:40	Illuminating the history of domesticated tetraploid wheat along space and time Sariel Hübner - Tel Hai Academic College, Israel
15:40 - 16:05	Metabolomics contribution in the evaluation of tetraploid wheats diversity. Leveraging tetraploid wheat genetic resources for a concerted improvement of durum and bread wheat Romina Beleggia - CREA, Italy



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	Presentations selected from abstracts
16:05 - 16:20	The role of polyphenol oxidase genes during the domestication and breeding of <i>T. turgidum</i> ssp. Francesca Taranto - <i>CNR</i> , Italy
16:20 - 16:35	A nested association mapping (NAM) panel of Durum Wheat to identify wild loci contributing to drought adaptation Jabbour Yaman - Aleppo University, Syria
16:35 - 16:50	Development of wild emmer wheat diversity panel for GWAS and population genetics Sela Hanan - University of Haifa, Israel
16:50 - 17:05	Hidden hunger and the role of ZIP family in tetraploid wheat Muhammad Waqas Ali - <i>John Innes Centre</i> , UK
17:05 - 19:15	<mark>Session on InnoVar project</mark> Chairs: Fiona Doohan, Roberto Tuberosa
17:05 - 17:15	Introduction to InnoVar Lisa Black - Afbi, Ireland
17:15 - 17:35	GWAS for DUS examination Julio Sanchez (UPM, Spain) and Matteo Bozzoli (University of Bologna, Italy)
17:35 - 17:55	Multi-environmental field trials for next generation variety testing Elena Prats - <i>CSIC</i> , <i>Spain</i>
17:55 - 18:15	Machine learning and the InnoVar database Danilo Sarti - NUIM, Ireland
18:15 - 18:35	InnoVar communications and outreach Dina Lopes - CONSULAI, Portugal
18:35 - 18:55	External talk Uncovering the regulatory landscape of the wheat genome and its role in yield components variation Eduard Akhunov - Kansas State University, USA
18:55 - 19:15	External talk The vision of seed companies on the future of official listing tools Silvia Giuliani - Assosementi, Italy
19:15 - 19:20	Final remarks Hazel Brown - AFB, Ireland
	Close of the day





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08:45 -10:25	Session 3. Towards disease- and pest-resistant durum wheat Chairs: Elisabetta Mazzucotelli, Tzion Fahima
	Invited presentations
08:45 - 09:10	Identification of rust resistance genes in wild emmer (Triticum turgidum ssp. dicoccoides) Pablo Oliveira Firpo - University of Minnesota St. Paul, USA
09:10 - 09:35	Carlotta Award winner Cloning of a novel stripe rust resistance gene Yr84 using BSA-Seq and low- coverage PacBio assembly Valentyna Klymiuk - University of Saskatchewan, Canada
09:35 - 10:00	Fusarium head blight resistance in durum wheat: Identification of key genes for breeding innovations Agata Gadaleta - University of Bari, Italy
10:00 - 10:25	The challenges of gene cloning in complex genomes: The winding road leading to the cloning of <i>Pm69</i> from tetraploid emmer wheat Tzion Fahima - <i>University of Haifa</i> , <i>Israel</i>
	Presentations selected from abstracts
10:25 - 10:40	Fine mapping of a leaf rust resistance gene derived from emmer wheat (Triticum turgidum ssp. dicoccum) Francesca Desiderio - CREA, Italy
10:40 - 10:55	Loci harboring genes with significant role in FHB resistance in durum wheat revealed by multiple GWAS models Jemanesh K. Haile - University of Saskatchewan, Canada
10:55 - 11:10	Metabolic profiling of rachis and grain tissues of durum wheat-Thinopyrum germplasm harboring Fhb7E, a major Fusarium head blight resistance locus from Thinopyrum elongatum Kuzmanović Ljiljana - University of Tuscia, Italy
11:10 - 11:25	Characterization of <i>sbm2</i> , a locus for soil-borne cereal mosaic virus (SBCMV) resistance in durum and bread wheat Matteo Bozzoli - <i>University of Bologna, Italy</i>





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11:25 -12:45	Carlotta Awards Chairs: Margherita Venturi, Patrizia Galeffi
11:30 - 11:45	Winners: Caixia Lan, Ilaria Marcotuli, Valentyna Klymiuk, Jyoti S. Sharma
	Special mentions: Hafssa Kabbaj, Paula Silva, Divya Ambati, Meryem Zaim
11:45 - 12:00	1 st classified thematic area A Rapid cloning and functional gene analysis for a leaf rust resistance locus in durum wheat Caixia Lan - Huazhong Agricultural University, Henan, China
12:00 - 12:15	1 st classified thematic area B Beta-glucan in durum wheat: The road towards new genotypes for a healthier wheat-pasta production Ilaria Marcotuli - University of Bari, Italy
12:15 - 12:30	2 nd classified thematic area B Identification and characterization of stem rust resistance genes in tetraploid wheat Jyoti Saini Sharma - University of Minnesota, USA
12:30 - 12:45	Special mention Untapping the blast resistance from the D-sub genome progenitor of wheat Paula Silva - INIA, Uruguay
12:45 - 14:00	Lunch
14:00 - 14:50	Session 4. Enhancing yield potential and yield stability of durum wheat Chairs: Eduard Akhunov, Anna Maria Mastrangelo
	Invited presentations
14:00 - 14:25	Breeding for yield potential and stability, the CIMMYT approach Karim Ammar - CIMMYT, Mexico
14:25 - 14:50	Genetic analysis of stable yield component QTL in tetraploid wheat Amanda R. Peters Haugrud - North Dakota State University, USA





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	Presentations selected from abstracts
14:50 - 15:05	Enhancing yield potential and yield stability in durum wheat using crop wild relative crosses, and participatory assessment of Moroccan farmers preferences Noureddine El Haddad - ICARDA, Morocco
15:05 - 15:20	Uncovering the basis of wheat adaptation to the canopy environment Guy Golan - IPK, Germany
15:20 - 15:35	Multivariate conditional QTL analysis of complex traits in durum wheat Andrii Fatiukha - University of Saskatchewan, Canada
15:35 - 15:50	Unravelling the genetics of grain yield potential in wheat Ragavendran Abba - IPK, Germany
15:50 - 16:05	Fine mapping and characterization of Grain Number Increase-2 locus (GNI-A2) in durum wheat Francesco de Sario - University of Bologna, Italy
16:05 - 16:20	Q&A - Discussion
16:20 - 16:50	Short presentations selected from Posters Chair: Luigi Cattivelli
16:20 - 16:23	Eco-geographic and genomic imprints on Emmer wheat phenotypic performance under Mediterranean climate Aviya Fadida - Myers - <i>ARO</i> , <i>Israel</i>
16:23 - 16:26	Towards the identification of Purple Pericarp 1 (Pp1) in Triticum durum Esposito Salvatore - CREA, Italy
16:26 - 16:29	Is heritage wheat bread tastier? Roi Ben-David - Institute of Plant Sciences, Agricultural Research Organization, Volcani Institute, Israel
16:29 - 16:32	QTL mapping of seedling and field resistance to stem rust in DAKIYE/ Reichenbachii durum wheat population Shitaye Megerssa - Ethiopian Institute of Agricultural Research, Ethiopia
16:32 - 16:35	Evaluation of durum (<i>Triticum durum</i> Desf.) global panels, gdp v 1.0-2018/2019 and gdp v 2.0-2019/2020 for earliness and yield in north western and north central, Nigeria Mala Kachalla - <i>Lake Chad Research Institute, Nigeria</i>



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16:35 - 16:38	Durum wheat (Triticum turgidum ssp. durum Desf.) breeding program in Tunisia: Current status and future prospects Ayed Sourour - National Institute of Agronomic Research of Tunisia
16:38 - 16:41	Durum wheat quality assessment: Influence of genotype and environment Mounira Azouz - INRAA, Algeria
16:41 - 16:44	Durum wheat adaption to heat along the Senegal river valley Amadou Tidiane Sall - Institut Sénégalais de Recherches Agricoles, Senegal
16:44 - 16:47	Digital phenotyping applications for high-throughput evaluation of durum wheat breeding field trials Adam Carter - University of Saskatchewan, Canada
16:47 - 16:50	Q&A - Discussion
16:50 - 19:00	Session 5. Durum around the world Chairs: Filippo Bassi, Amanda Peters
	Presentations selected from abstracts
16:50 - 17:00	From the land to the table, pasta is from Emilia-Romagna Cristina Pacifico - <i>Emilia-Romagna Region, Italy</i>
17:00 - 17:10	Queule-Inia, spring durum wheat variety for Chile Iván Matus-Tejos - Instituto de Investigaciones Agropecuarias, Chile
17:10 - 17:20	Durum wheat global changes in cultivated area and breeding activities from 1800 to the present: A historical review Fernando Martinez-Moreno - <i>University of Seville, Spain</i>
17:20 - 17:30	A status update on fusarium head blight and ergot on canadian durum Sean Walkowiak - Canadian Grain Commission, Grain Research Laboratory, Canada
17:30 - 17:40	Evaluation of yield, biomass and grain quality of Moroccan multilocation trials of durum wheat lines from different origins Amamou Ali - INRA, Rabat, Morocco
17:40 - 17:50	Revisiting the Tunisian durum wheat: From landraces to modern varieties "Towards global assessment for full picture" Ines Yacoubi - Plant Biotechnology and Improvement laboratory, Tunisia





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17:50 - 18:00	Ancient and novel Ethiopian durum cultivars: What future for their cultivation? Wasihun Legesse - Ethiopian Institute of Agricultural Research, Ethiopia
18:00 - 18:10	Durum wheat in Syria: Current status of research despite all Jabbour Yaman - Aleppo University, Syria
18:10 - 18:20	On-farm multi-locations trials and promotion of traditional and modern durum wheat genotypes in Lebanon Rola El Amil - <i>LARI</i> , <i>Lebanon</i>
18:20 - 18:30	Diversity analysis of Aegilops species of different origin using SSR markers Merahj Abbasov - Genetic Resources Institute, Germplasm bank, Azerbaijan
18:30	Discussion and closing remarks by Filippo Bassi
19:00	Close of the day



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Bologna - Italy, 26-29 October 2022

Friday, 28th October 2022

08:30 - 09:45	Session 6. The durum wheat-pasta value chain: Healthier durum wheat for healthier lives Session dedicated to the memory of Craig Morris Chairs: Stefania Masci, Peter Shewry
	Invited presentations
08:30 - 08:55	Improving the health benefits of wheat Peter Shewry - Rothamsted Research, UK
08:55 - 09:20	Improving the nutritional value in durum wheat: New genotypes biofortified in resistant starch, provitamin A and minerals Francesco Sestili - University of Tuscia, Italy
09:20 - 09:45	Pasta optimization for the production of pasta enriched with functional ingredients Alessandra Marti (University of Milano, Italy) and Mike Sisson (Tamworth Agricultural Institute, Australia)
09:45 - 10:10	A DNA-based toolbox to meet the traceability needs of the pasta supply chain Valeria Terzi - CREA, Italy
10:10 - 12:30	Round Table Designing the future for a healthier durum wheat chain Jointly organized by the Italian Pasta makers Association and the PLAN'EAT project Chairs: Roberto Ranieri, Maria Caboni, Patrizia Brigidi
10:10 - 10:25	The PLAN'EAT project as related to the From Seed To Pasta chain Maria Caboni - DISTAL, University of Bologna, Italy
10:25 - 10:50	Status of the art of the worldwide pasta business Cristiano Laurenza - Secretary of Italian Pasta makers Association (AIDEPI), Italy
10:50 - 11:05	The benefit of whole grain pasta for a healthier diet Yan De Vries - Board member and communication manager of the Health Grain Forum, the Netherlands
11:05 - 11:20	Innovative approaches in the New Product (Pasta) Development Francesco Pantò - Vice President of the Pasta and Sauces R&D (Barilla G.e R. F.IIi)
11:20 - 11:35	High Amylose Pasta, more than prototype Michael Gusko - Innovation Director (Goodmills group), USA





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Friday, 28th October 2022

11:35 - 11:50	Durum wheat milling co-products valorization Marcello Greco Miani - R&D (Molino Casillo), Italy
11:50 - 12:25	Q&A and discussion on the future for a healthier durum wheat chain Coordinated by the Chairs
12:20 - 12:30	Closing remarks by Roberto Ranieri
12:30 - 14:00	Lunch
14:00 - 14:30	Technical session: Meet the pasta technology companies Chair: Roberto Ranieri
14:00 - 14:10	Smart sensors meet spaghetti Andrea Palmieri - Paola Rametta - RAM ELETTRONICA, Italy
14:10 - 14:20	Automated multi-plex mycotoxin control for safe raw material intake Claus Holm - FOSS, Denmark
14:20 - 14:30	Q&A - Discussion
14:30 - 15:45	Session 6. (continued). The durum wheat-pasta value chain: Healthier durum for healthier lives Session dedicated to the memory of Craig Morris Chairs: Valeria Terzi, Francesco Sestili
	Presentations selected from abstract
14:30 - 14:45	WHEATUCO: Breeding for durum wheat quality Carlos Guzman - University of Córdoba, Spain
14:45 - 15:00	Renewing traditional Mediterranean durum wheat based products Barbara Laddomada - ISPA, CNR, Italy
15:00 - 15:15	North African traditional durum dishes: From end-use traits to their genomic control Houda Bousselham - ICARDA, Morocco
15:15 - 15:30	Selection of high-yellow color durum wheat lines by using effective molecular markers Maria Itria Ibba - <i>Global Wheat Program, CIMMYT, Mexico</i>
15:30 - 15:45	Nutritional and industrial quality assessment in Spanish durum wheat commercial cultivars Virginia Garcia-Calabres - University of Córdoba, Spain



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Friday, 28th October 2022

15:45 - 18:00	Session 7. Breeding durum wheat to face the climate crisis Chairs: Nicola Pecchioni, Dolors Villegas
15:45 - 16:05	Invited presentations Genotype vs. environment: The ICARDA durum wheat breeding program for dryland cultivation Filippo Bassi - <i>ICARDA</i> , <i>Morocco</i>
16:05 - 16:25	Towards improving durum wheat breeding programs to face climate changes Pasquale De Vita - CREA, Foggia, Italy
16:25 - 16:45	Increasing durum wheat yield and yield stability in the Mediterranean region Dolors Villegas - IRTA, Sustainable Field Crops Program Lleida, Spain
	Presentations selected from abstracts
16:45 - 17:00	<i>Carlotta award special mention</i> Loci controlling moisture conversion of durum wheat productivity Meryem Zaïm - ICARDA, Morocco
17:00 - 17:15	<i>Carlotta award special mention</i> Assessment of Indian wheat genotypes for drought tolerance under two water regimes Divya Ambati - <i>ICAR</i> , <i>India</i>
17:15 - 17:30	<i>DRF1</i> gene expression profiles of durum wheat grown in field under full- and reduced-irrigation Arianna Latini - ENEA, Casaccia Research Center, Italy
17:30 - 17:45	Exploring the molecular bases of root growth angle and its regulation in durum wheat Cristian Forestan - <i>University of Bologna, Italy</i>
17:45 - 18:00	Q&A - Discussion
18:00	Close of the day
20:00	Social Dinner Sydney Hotel, Bologna





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Saturday, 29th October 2022

09:00 - 11:00	Session 8. Managing a sustainable durum production for food security Chairs: Curtis Pozniak, Allison Bentley
	Invited presentations
09:00 - 09:25	Unlocking the potential of Genotype x Environment x Management (GxExM) synergies to enhance durum wheat production systems Brian Beres - Agriculture and Agri-Food Canada
09:25 - 09:50	Decision Support Systems to increase farm sustainability and resilience Pierluigi Meriggi - HORTA, Italy
09:50 - 10:15	Smart farming tools for sustainable production chain: The Barilla durum wheat case study Marco Silvestri - Barilla G.e R. F.IIi, Italy
	Presentations selected from abstracts
10:15 - 10:30	Prediction of durum wheat diseases using reflectance spectroscopy Dalma Castillo - INIA, Quillamapu, Chile
10:30 - 12:30	Closing session Chairs: Peter Langridge, Roberto Tuberosa
	Invited presentations
10:30 - 11:00	Acquired inheritance in weeds and wheat and its plant breeding potential Bikram Gill - <i>Kansas State University, USA</i>
11:00 - 11:30	Wheat breeding as a DNA-assembly problem Cristobal Uauy - <i>John Innes Centre, UK</i>
11:30 - 12:00	Closing keynote lecture What's next for global wheat? Alison Bentley - CYMMIT, Mexico
12:00 - 12:30	Closing remarks Karim Ammar, Luigi Cattivelli, Curtis Pozniak, Roberto Tuberosa
	Lunch (on your own)
14:00 - 16:00	Meeting of the Expert Working Group in Durum Wheat & Genomics and Breeding Chair: Luigi Cattivelli



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POSTERS' LIST

Session 1. Genomi	cs of durum wheat
P1	Transcriptional reprogramming activated by Wheat Tandem Kinase 1 in response to stripe rust infection Liubov Govta - University of Haifa, Israel
P2	Transcriptome analysis of the response to nitrogen stress at the seedling stage, in wheat introgression of GPC-QTL from wild emmer wheat Nikolai Govta - University of Haifa, Israel
Р3	Study of gliadin-coding loci of the hybrid generation of durum wheat varieties of Azerbaijan Gulshen Polado - Institute of Genetic Resources of ANAS, Azerbaijan
Ρ4	The ratio of yield and content of nucleic acids in heterotic hybrids of wheat (T. durum Desf.) Afet Mammadov - Genetic Resources Institute, Azerbaijan
P5	Development and validation of molecular markers for high molecular weight glutenins (HMW-GS) in durum wheat Laura Pascual - <i>Politécnica de Madrid, Spain</i>
Ρ6	Influence in yellowness of allelic variation in PSY-1A gene in a durum wheat recombinant population Naima Bouabdellah - Universidad Politécnica de Madrid, Spain
Ρ7	Effect of major genes (<i>Rht-B1</i> , <i>Ppd-A1</i> , <i>Vrn-A1</i>) and loci identified by association mapping on yield and morfo-phenological traits in durum wheat Pablo Federico Roncallo - CERZOS and UNS-CONICET, Bahía Blanca, Argentina
Р8	Association study and multivariate genomic prediction for simultaneous improvement of grain yield and grain protein content in durum wheat Paolo Vitale - CREA, Italy

Session 2. Leveraging tetraploid wheat genetic resources for a concerted improvement of durum and bread wheat

P9 Generation of an EMS mutant collection for isolation and characterization of genes of agronomic interest in durum wheat Patricia Giraldo - Universidad Politécnica de Madrid, Spain





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P10	Identification of diverse set of genotypes for grain quality-related traits in wheat Maria Anna Russo - CREA, Itay	
P11	Evaluation of genetic diversity of Sicilian autochthonous tetraploid wheat varieties by gluten protein analysis Marco Bonarrigo - University of Tuscia, Italy	
P12	Exploiting the potential of Global Durum Panel for plant and human health Elena Baldoni - CNR/IBBA, Italy	
P13	Exploring the genetic diversity of wheat landraces of Campania region using SNP and SSR markers Giuseppina Angione - CREA, Italy	
P14	Genetic loci involved in resistance to six races of stem rust in a wild emmer wheat panel assessed at seedling stage Elisabetta Mazzucotelli - CREA, Italy	
P15	The effect of different wheat genotypes and species on rhizospheric and endospheric bacterial communities Armin Shahpari - University of Bologna, Italy	
P16	A Tetraploid Core Collection (TCC) from the global durum genomic resource assessed for resilience traits including root system architecture, stem anatomy and developmental traits Xinying Zeng - University of Bologna, Italy	
Session 3. Towards disease- and pest-resistant durum wheat		
P17	Improvement of tritordeum, the durum wheat × wild barley amphiploid Sergio Atienza - IAS-CSIC, Spain	

- P18 Pyramiding of powdery mildew and yellow rust resistance genes introgressed from wild emmer wheat into cultivated wheat Li Yinghui - University of Haifa, Israel
- P19 Genome-wide association mapping of Septoria Tritici blotch resistance in a collection of Mediterranean durum wheat landraces via high-density marker arrays Meriam Nefzaoui University of Bologna, Italy



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P20	Production of durum wheat lines with improved durable resistance to multiple fungal diseases Daniela Marone - CREA, Italy	
P21	Identification of a set of wide untapped diversity for reaction to tan spot in durum wheat Anna Maria Mastrangelo - CREA, Italy	
P22	Effect of Fursaium culmorum on grain and pasta quality of Tunisian durum wheat varieties Dorra Sfayhi Terras - INRAT, Tunisia	
P23	QTL mapping of stem rust resistance in bi and multi- parental populations of durum wheat Elisabetta Mazzucotelli - CREA, Italy	
P24	Evaluation of the global durum genomic resource for resistance to yellow rust in a multienvironment phenotypic evaluation and GWAS Jad B Novi - <i>University of Bologna</i> , <i>Italy</i>	
P25	Multi-environmental genome-wide association study for response to fusarium head blight in durum wheat panels Ambra Viviani - University of Bologna, Italy	
P26	Molecular approaches for identifying sources of resistance to Fusarium wilt as the main pathogen causing wheat quality degradation Labhilili Mustapha - <i>Regional Center for Agronomic Research of Rabat, INRA,</i> <i>Morocco</i>	
Session 4. Enhancing yield potential and yield stability of durum wheat		
P27	Selecting desirable durum wheat elite lines for diversification of genetic base and release of varieties in Pakistan Waqar Sundas - National Agriculture Research Centre, Pakistan	
P28	Identification and mapping of quantitative trait loci for kernel-related traits in a durum wheat x T. dicoccum segregating population Francesca Desiderio - CREA, Italy	
P29	Specific adaptation: The key to overcoming the effects of terminal drought on durum wheat in Chile Christian Alfaro - INIA Rayentué, Chile	





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P30 Comprehensive assessment of tetraploid germplasm for plant developmental traits related to grain yield including spike fertility and grain size and shape Matteo Campana - University of Bologna, Italy

Session 5. Durum around the world

(no posters)

Session 6. The durum wheat-pasta value chain: Healthier durum wheat for healthier lives

P31	Carotenoid biofortification of durum wheat through inter-specific breeding María Dolores Requena Ramírez - Instituto de Agricultura Sostenible (CSIC), Spain
P32	Filigrano: Innovation in the cereal supply chain, from high quality sustainable production to differentiated storage Laura Gazza - CREA, Italy
P33	Innovative processing plants: Technological and nutritional quality of unrefined durum wheat air-classified fractions Alessandro Cammerata - CREA, Italy
P34	Development of new wheat-derived foods of the Mediterranean diet with improved nutritional and health value: MEDWHEALTH project Samuela Palombieri - University of Tuscia, Italy
P35	Biofortification in microelements by modulating the accumulation of phytic acid in durum wheat grain Arianna Frittelli - University of Tuscia, Italy
P36	Variability of lipid composition in a <i>Triticum turgidum</i> collection Giovanni Maria Poggi - <i>University of Bologna</i> , Italy
P37	Toxic and potentially toxic element uptake and translocation in durum wheat (<i>Triticum turgidum</i> L. subsp. <i>durum</i>) cultivars under real field conditions Emilia Pucci - ENEA, Casaccia Research Center, Italy

Session 7. Breeding durum wheat to face the climate crisis

P38 Abscisic acid-stress-ripening (ASR) gene modulates response to high salinity and water deficit in durum and common wheat Angelica Giancaspro - University of Bari, Italy



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P39	An attempt to convert multi-traits into quality index for describing quality in durum wheat breeding program Mouna Taghouti - INRA, Morocco
P40	Identification of the quantitative trait loci controlling spike-related traits in durum wheat Francesca Desiderio - CREA, Italy
P41	Yield and technological value of spring T. durum cultivars grown in Poland Elżbieta Suchowilska - University of Warmia and Mazury, Poland
P42	Next generation variety testing for improved durum wheat Gracia Montilla - Bascon - Institute for Sustainable Agriculture, Cordoba, Spain
P43	Allelic variation at Vrn-1 and Ppd-1 loci and their effects on agronomic traits on Italian durum wheat germplasm Sanaz Afshari-Behbahanizadeh - CREA-CI, University of Foggia, Italy
P44	The modulation of cell cycle progression and of histone H3 acetylation in response to salt stress in durum wheat- <i>Thinopyrum</i> spp. recombinant lines analysed by a flow cytometric approach Debora Giorgi - <i>ENEA</i> , <i>Italy</i>
P45	Performance of locally adapted durum wheat germplasm in the Mediterranean basin and recombinant lines with <i>Thinopyrum</i> spp. introgressions across Algerian and Italian environments with different water availability Carla Ceoloni - <i>University of Tuscia</i> , Italy
P46	Assessing yield and quality traits of durum wheat varieties, landraces and recombinant lines with alien introgressions in Turkish and Italian environments under rainfed and irrigated conditions Roberto Ruggeri - University of Tuscia, Italy
P47	The response to salt stress application of durum wheat- <i>Thinopyrum</i> spp. recombinant lines based on morpho-physiological and biochemical parameters Sana Tounsi - <i>Centre of Biotechnology of Sfax, Tunisia</i>
P48	Exploitation of the <i>Thinopyrum</i> genus to enhance durum wheat heat tolerance: Chromosomally engineered recombinant lines perform remarkably under stress application at flowering time Gloria Giovenali - <i>University of Tuscia, Italy</i>





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P49	Root system analysis of durum wheat under drought stress using high- throughput phenotyping method Ieva Urbanavičiūtė - <i>University of Tuscia, Italy</i>
P50	Genome wide association study uncovers the QTLome for osmotic adjustment and related drought adaptive traits in durum wheat Marco Maccaferri - University of Bologna, Italy
P51	RGB-derived vegetation indices as a tool to estimate soil coverage ability in durum wheat Fabio Fania - University of Foggia, Italy

Session 8. Managing a sustainable durum production for food security

P52 Marker-trait associations of agronomic traits from the Cerealmed durum wheat panel as assessed in multi-environment trials under conservative agriculture Elisabetta Mazzucotelli - CREA, Italy



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GENERAL INFORMATION

CONFERENCE VENUE

Conference Center • Emilia-Romagna Region Viale della Fiera 8 - Bologna Bus Nr. 35 (stop Aldo Moro) Timetable available on: www.fromseedtopasta.com - section "general information / Venue"

WI-FI

In the Conference venue free Wi-Fi is available. Network: EmiliaRomagnaWiFi

COVID RULES

During the Conference it is mandatory to wear the FFP2 face mask in the Conference room and in the other common areas

POSTERS' VIEW

The Posters are available on the website www.fromseedtopasta.com - Section Program / Posters

COFFEE STATION With automatic machine for water, coffee, hot drinks and snacks

26th - 27th - 28th October Available from 9:00 to 18:00

29th October Available from 9:00 to 13:00

LUNCH VENUE

(reserved to the participants that have booked the service)

Wednesday 26th October - Hotel Savoia Regency 12:30 - Bus departure from Conference venue

Thursday 27th October - Hotel Sydney 12:45 - Bus departure from Conference venue

Friday 28th October - Hotel Sydney 12:30 - Bus departure from Conference venue

SOCIAL DINNER VENUE

Hotel Sydney Via Michelino 73 - Bologna







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SHUTTLE SERVICE

Wednesday 26th October

From Hotels to Conference venue

- 08:00 Holiday Inn Express Hotel (same pick up venue for Cosmopolitan Guests)
- 08:10 Sydney Hotel (same pick up venue for Michelino Hotel Guests)

From Conference venue to Hotels

19:30 Destinations: Sydney Hotel, Michelino Hotel, Holiday Inn Express and Cosmopolitan

Thursday 27th October

From Hotels to Conference venue

08:20 Holiday Inn Express Hotel (same pick up venue for Cosmopolitan Guests)

08:30 Sydney Hotel (same pick up venue for Michelino Hotel Guests)

From Conference venue to Hotels

19:00 Destinations: Sydney Hotel, Michelino Hotel, Holiday Inn Express and Cosmopolitan

Friday 28th October

From Hotels to Conference venue

08:10 Holiday Inn Express Hotel (same pick up venue for Cosmopolitan Guests)

08:20 Sydney Hotel (same pick up venue for Michelino Hotel Guests)

From Conference venue to Hotels

18:00 Destinations: Sydney Hotel, Michelino Hotel, Holiday Inn Express and Cosmopolitan

Social Dinner (only for participants that have booked the ticket)

- 19:45 Pick up from Holiday Inn Express and Cosmopolitan to Sydney Hotel
- 22:30 Pick up from Sydney Hotel (Social Dinner venue) to Hotel Cosmopolitan

Saturday 29th October

From Hotels to Conference venue

08:40 Holiday Inn Express Hotel (same pick up venue for Cosmopolitan Guests)

08:50 Sydney Hotel (same pick up venue for Michelino Hotel Guests)

From Conference venue to Hotels

12:30 Destinations: Sydney Hotel, Michelino Hotel, Holiday Inn Express and Cosmopolitan

USEFUL NUMBERS

Organizing Secretariat onsite: + 39 348 2487176 Taxi service: + 39 051 4590 / + 39 051 372727 Private cars: + 39 051 519090 (Cosepuri) + 39 051 553415 (Cab) Bologna Airport: + 39 051 6479615 Trainline (Trenitalia): + 39 892021 Health Emergency: +39 118 Police: +39 051 266626 Fireman: +39 115

