













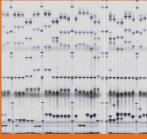
INTERNATIONAL CONFERENCE

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

























FROM SEED TO PASTA IV



Bologna - Italy, 26-29 October 2022

ORGANIZING COMMITTEE

Chairs

Karim Ammar CIMMYT - Mexico

Roberto Tuberosa University of Bologna - Italy

Patrizia Brigidi University of Bologna, Italy

Aldo Ceriotti CNR, Italy

Tzion Fahima University of Haifa, Israel

Silvia Giuliani Assosementi, Italy

Peter Langridge Wheat Initiative, Germany

Enrico Pè Sant'Anna School, Italy

Nicola Pecchioni CREA, Italy

Stefano Ravaglia SIS, Italy

Yehoshua Saranga

Hebrew University, Israel

Daria Scarano ISEA, Italy

Marco Silvestri Barilla G. and R. F.lli, Italy

Paola Viola **APSOV Sementi, Italy**

HONORARY COMMITTEE

Paolo De Castro

Agriculture and Rural Development Commission - European Parliament

Antonio Blanco

University of Bari, Italy

Ercole Borasio

National Academy of Agriculture, Italy

Domenico Lafiandra

University of Tuscia, Italy

Luigi Rossi **ENEA**, Italy





FROM SEED TO PASTA IV





SCIENTIFIC COMMITTEE

Chairs

Luigi Cattivelli **CREA** - Italy

Curtis Pozniak University of Saskatchewan - Canada

Jason Able

University of Adelaide

Australia

Filippo Bassi

ICARDA

Morocco

Sarrah Ben M'Barek

Research Center of Beja

Tunisia

Brian Beres

Agrifood

Canada

Marina Carcea

CREA

Italy

Carla Ceoloni

University of Tuscia

Italy

Pasquale De Vita

CREA

Italy

Assaf Distelfeld

University of Haifa

Israel

Agata Gadaleta

University of Bari

Italy

Patrizia Galeffi

ENEA Italy

Patricia Giraldo

UPM Spain

Carlos Guzman

University of Cordoba

Spain

Tamar Krugman

University Haifa

Israel

Marco Maccaferri

University of Bologna

Italy

Anna Maria Mastrangelo

CREA

Italy

Elisabetta Mazzucotelli

CREA

Italy

Pierluigi Meriggi

Horta Italy

Hakan Ozkan

University of Cukurova

Turkey

Susanne Dreisigacker

CIMMYT

Mexico

Viviana Echenique

CONICET Argentina

Zvi Peleg

Hebrew University

Israel

Roberto Ranieri

Open Fields

Italy

Francesco Sestili

University of Tuscia

Italy

Gabriella Sonnante

CNR

Italy

José Miguel Soriano

IRTA Spain

Marcel Thierry

INRAE France

Cristobal Uauy

John Innes Centre **United Kingdom**

Steven Xu

USDA

USA



FROM SEED TO PASTA IV



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</i> , <i>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





FROM SEED TO PASTA IV



Bologna - Italy, 26-29 October 2022

Wednesday, 26th October 2022

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 - <i>University of Haifa</i> , <i>Israel</i>
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 - <i>INRA</i> , <i>Morocco</i>
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</i> , <i>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 <i>Triticum timopheevii</i> to increase the genetic variation of wheat July King - University of Nottingham, UK
14:00 - 14:25 14:25 - 14:50	Using the tetraploid <i>Triticum timopheevii</i> to increase the genetic variation of wheat
	Using the tetraploid <i>Triticum timopheevii</i> to increase the genetic variation of wheat July King - <i>University of Nottingham</i> , <i>UK</i> Genomics collaborative tools developed by the durum wheat community
14:25 - 14:50	Using the tetraploid <i>Triticum timopheevii</i> to increase the genetic variation of wheat July King - <i>University of Nottingham</i> , <i>UK</i> Genomics collaborative tools developed by the durum wheat community Marco Maccaferri - <i>University of Bologna</i> , <i>Italy</i> The Global Durum wheat Panel (GDP): An open access collection for durum wheat breeding



FROM SEED TO PASTA IV



Bologna - Italy, 26-29 October 2022

Wednesday, 26th October 2022

	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> , <i>Italy</i>
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 - <i>University of Haifa</i> , <i>Israel</i>
16:50 - 17:05	Hidden hunger and the role of ZIP family in tetraploid wheat Muhammad Waqas Ali - <i>John Innes Centre</i> , <i>UK</i>
17:05 - 19:15	Session on InnoVar project 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 - CSIC, Spain
17:55 - 18:15	Machine Learning and the InnoVar database Danilo Sarti - <i>NUIM</i> , <i>Ireland</i>
18:15 - 18:35	InnoVar Communications and outreack 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



FROM SEED TO PASTA IV



Bologna - Italy, 26-29 October 2022

Thursday, 27th October 2022

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 (<i>Triticum turgidum</i> ssp. <i>dicoccoides</i>) Pablo Oliveira Firpo - <i>University of Minnesota St. Paul</i> , 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 - <i>University of Bari</i> , <i>Italy</i>
10:00 - 10:25	The challenges of gene cloning in complex genomes: The winding road leading to the cloning of Pm69 from tetraploid emmer wheat Tzion Fahima - University of Haifa, Israel
	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 - <i>University of Saskatchewan</i> , <i>Canada</i>
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</i> , <i>Italy</i>



FROM SEED TO PASTA IV



Bologna - Italy, 26-29 October 2022

Thursday, 27th October 2022

11:25 -12:45	Carlotta Awards Chairs: Margherita Venturi, Patrizia Galeffi
11:30 - 11:45	Winners: Caixia Lan, Ilaria Marcotuli, Valentyne 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 - <i>University of Bari, Italy</i>
12:15 - 12:30	2 nd classified thematic area B Identification and characterization of stem rust resistance genes in tetraploid wheat Jyoti Saini Sharma - <i>University of Minnesota</i> , <i>USA</i>
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





FROM SEED TO PASTA IV



Bologna - Italy, 26-29 October 2022

Thursday, 27th October 2022

	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 - <i>IPK</i> , <i>Germany</i>
15:20 - 15:35	Multivariate conditional QTL analysis of complex traits in durum wheat Andrii Fatiukha - <i>University of Saskatchewan</i> , <i>Canada</i>
15:35 - 15:50	Unravelling the genetics of grain yield potential in wheat Ragavendran Abba - <i>IPK</i> , <i>Germany</i>
15:50 - 16:05	Fine mapping and characterization of <i>Grain Number Increase</i> -2 locus (<i>GNI-A2</i>) in durum wheat Francesco de Sario - <i>University of Bologna</i> , <i>Italy</i>
16:05 - 16:20	Q&A - Discussion
16:20 - 16:50	Short presentations selected from Posters
16:20 - 16:23	Eco-geographic and genomic imprints on Emmer wheat phenotypic performance under Mediterranean climate Aviya Fadida - Myers - ARO, Israel
16:23 - 16:26	Towards the identification of <i>Purple Pericarp 1 (Pp1) in Triticum durum</i> Esposito Salvatore - <i>CREA</i> , <i>Italy</i>
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</i> , <i>Nigeria</i>



FROM SEED TO PASTA IV



Bologna - Italy, 26-29 October 2022

Thursday, 27th October 2022

16:35 - 16:38	Durum wheat (<i>Triticum turgidum</i> ssp. <i>durum</i> Desf.) breeding program in Tunisia: Current status and future prospects Ayed Sourour - <i>National Institute of Agronomic Research of Tunisia</i>
16:38 - 16:41	Durum wheat quality assessment: Influence of genotype and environment Mounira Azouz - <i>INRAA</i> , <i>Algeria</i>
16:41 - 16:44	Durum wheat adaption to heat along the Senegal river valley Amadou Tidiane Sall - <i>Institut Sénégalais de Recherches Agricoles</i> , <i>Senegal</i>
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</i> , <i>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





FROM SEED TO PASTA IV



Bologna - Italy, 26-29 October 2022

Thursday, 27th October 2022

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 - <i>Aleppo University</i> , <i>Syria</i>
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 <i>Aegilops</i> species of different origin using SSR markers Merahj Abbasov - <i>Genetic Resources Institute</i> , <i>Germplasm bank</i> , <i>Azerbaijan</i>
18:30	Discussion and closing remarks by Filippo Bassi
19:00	Close of the day



FROM SEED TO PASTA IV



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 - 08:20	Improving the nutritional value in durum wheat: New genotypes biofortified in resistant starch, provitamin A and minerals Francesco Sestili - <i>University of Tuscia</i> , <i>Italy</i>
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 Netherland
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.Ili)
11:20 - 11:35	High Amylose Pasta, more than prototype Michael Gusko - Innovation Director (Goodmills group), USA





FROM SEED TO PASTA IV



Bologna - Italy, 26-29 October 2022

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 - <i>RAM ELETTRONICA</i> , <i>Italy</i>
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 - <i>University of Córdoba</i> , <i>Spain</i>
14:45 - 15:00	Nutritional and industrial quality assessment in Spanish durum wheat commercial cultivars Virginia Garcia-Calabres - University of Córdoba, Spain
15:00 - 15:15	Renewing traditional Mediterranean durum wheat based products Barbara Laddomada - <i>ISPA</i> , <i>CNR</i> , <i>Italy</i>
15:15 - 15:30	North African traditional durum dishes: From end-use traits to their genomic control Houda Bousselham - ICARDA, Morocco
15:30 - 15:45	Selection of high-yellow color durum wheat lines by using effective molecular markers Maria Itria Ibba - Global Wheat Program, CIMMYT, Mexico



FROM SEED TO PASTA IV



Bologna - Italy, 26-29 October 2022

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 - ICARDA, Morocco
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	Carlotta award special mention Loci controlling moisture conversion of durum wheat productivity Meryem Zaïm - ICARDA, Morocco
17:00 - 17:15	Carlotta award special mention Assessment of Indian wheat genotypes for drought tolerance under two water regimes Divya Ambati - ICAR, India
17:15 - 17:30	DRF1 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 - University of Bologna, Italy
17:45 - 18:00	Q&A - Discussion
18:00	End of the day
20:00	Social Dinner Sydney Hotel, Bologna



FROM SEED TO PASTA IV



Bologna - Italy, 26-29 October 2022

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 - <i>Barilla G.e R. F.lli</i> , <i>Italy</i>
	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 - Kansas State University, USA
11:00 - 11:30	Wheat breeding as a DNA-assembly problem Cristobal Uauy - John Innes Centre, UK
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	Workshop Expert in Durum Wheat & Genomics and Breeding Chair: Luigi Cattivelli



FROM SEED TO PASTA IV



Bologna - Italy, 26-29 October 2022

POSTERS' LIST

Session 1. Genomics 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 - <i>University of Haifa</i> , <i>Israel</i>
P3	Study of gliadin-coding loci of the hybrid generation of durum wheat varieties of Azerbaijan Gulshen Polado - <i>Institute of Genetic Resources of ANAS</i> , <i>Azerbaijan</i>
P4	The ratio of yield and content of nucleic acids in heterotic hybrids of wheat (<i>T. durum</i> Desf.) Afet Mammadov - <i>Genetic Resources Institute</i> , Azerbaijan
P5	Development and validation of molecular markers for high molecular weight glutenins (HMW-GS) in durum wheat Laura Pascual - <i>Politécnica de Madrid</i> , <i>Spain</i>
P6	Influence in yellowness of allelic variation in <i>PSY-1A</i> gene in a durum wheat recombinant population Naima Bouabdellah - <i>Universidad Politécnica de Madrid</i> , <i>Spain</i>
P7	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
P8	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





FROM SEED TO PASTA IV



Bologna - Italy, 26-29 October 2022

POSTERS' LIST

P10	Identification of diverse set of genotypes for grain quality-related traits in wheat Maria Anna Russo - <i>CREA</i> , <i>Itay</i>
P11	Evaluation of genetic diversity of Sicilian autochthonous tetraploid wheat varieties by gluten protein analysis Marco Bonarrigo - <i>University of Tuscia</i> , <i>Italy</i>
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 - <i>University of Bologna</i> , <i>Italy</i>
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 - <i>University of Haifa</i> , <i>Israel</i>
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 - <i>University of Bologna</i> , <i>Italy</i>



FROM SEED TO PASTA IV



Bologna - Italy, 26-29 October 2022

POSTERS' LIST

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 - <i>University of Bologna</i> , <i>Italy</i>
P26	Molecular approaches for identifying sources of resistance to Fusarium wilt as the main pathogen causing wheat quality degradation Labhilili Mustapha - Regional Center for Agronomic Research of Rabat, INRA, Morocco

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 - <i>National Agriculture Research Centre</i> , <i>Pakistan</i>
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





FROM SEED TO PASTA IV



Bologna - Italy, 26-29 October 2022

POSTERS' LIST

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 - <i>Instituto de Agricultura Sostenible (CSIC)</i> , <i>Spain</i>
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 - <i>University of Tuscia</i> , <i>Italy</i>
P35	Biofortification in microelements by modulating the accumulation of phytic acid in durum wheat grain Arianna Frittelli - <i>University of Tuscia</i> , <i>Italy</i>
P36	Variability of lipid composition in a <i>Triticum turgidum</i> collection Giovanni Maria Poggi - <i>University of Bologna</i> , <i>Italy</i>
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*



FROM SEED TO PASTA IV



Bologna - Italy, 26-29 October 2022

POSTERS' LIST

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 <i>T. durum</i> cultivars grown in Poland Elżbieta Suchowilska - <i>University of Warmia and Mazury, Poland</i>
P42	Next generation variety testing for improved durum wheat Gracia Montilla - Bascon - Institute for Sustainable Agriculture, Cordoba, Spain
P43	Allelic variation at <i>Vrn-1</i> and <i>Ppd-1</i> loci and their effects on agronomic traits on Italian durum wheat germplasm Sanaz Afshari-Behbahanizadeh - <i>CREA-CI</i> , <i>University of Foggia</i> , <i>Italy</i>
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> , <i>Italy</i>
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 - <i>University of Tuscia</i> , <i>Italy</i>
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</i> , <i>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</i> , <i>Italy</i>





FROM SEED TO PASTA IV



Bologna - Italy, 26-29 October 2022

POSTERS' LIST

P49 Root system analysis of durum wheat under drought stress using high-

throughput phenotyping method

Ieva Urbanavičiūtė - University of Tuscia, Italy

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



FROM SEED TO PASTA IV



Bologna - Italy, 26-29 October 2022

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





FROM SEED TO PASTA IV



Bologna - Italy, 26-29 October 2022

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 Trainline (Trenitalia): + 39 892021

Taxi service: + 39 051 4590 / + 39 051 372727 Health Emergency: +39 118

Private cars: + 39 051 519090 (Cosepuri) Police: +39 051 266626

+ 39 051 553415 (Cab) Fireman: +39 115

Bologna Airport: + 39 051 6479615



FROM SEED TO PASTA IV





PATRONAGES



















SPONSOR

Platinum

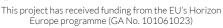


















Silver





Bronze















ORGANIZING SECRETARIAT



Viale Aldini 222/4 - 40136 Bologna - Italy Tel. + 39 051 6564300 - OnSite + 39 348 2487176 congressi@avenue-media.eu - www.avenuemedia.eu