

FROM SEED TO PASTA 5

A SUSTAINABLE DURUM WHEAT CHAIN FOR FOOD SECURITY AND HEALTHY LIVES

BARI - ITALY, 24-27 SEPTEMBER 2025

Camera di Commercio



Chairs

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University of Bari, Italy

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University of Bologna, Italy

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International Conference **FROM SEED TO PASTA 5** Bari - Italy, 24-27 September 2025

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International Conference
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Bari - Italy, 24-27 September 2025



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PROGRAM

WEDNESDAY, 24 SEPTEMBER 2025

08:00-08:30 Registration of participants

ROOM ALESSANDRO AMBROSI

08:30-09:10

WELCOME ADDRESSES

Chairs: Agata Gadaleta - *University of Bari, Italy*;
Roberto Tuberosa - *University of Bologna, Italy*

- Maria De Angelis - *Director DISSPA, University of Bari*
- CREA Representative
- CNR Representative
- Stefania Masci - *University of Tuscia, President of SIGA*

09:10-13:00

Session 1

SETTING THE FSTP5 SCENE FOR WHEAT BREEDING 5.0

Invited presentations

09:10-09:20

Title to be announced

Maurizio Martina - *FAO Deputy Director General* - recorded

09:20-09:40

Durum wheat role in the Global Drylands Strategy for ICARDA

Augusto Becerra - *ICARDA Deputy Director General Research, Rabat, Morocco*

09:40-09:50

Advancing Mediterranean Agriculture: PRIMA's vision, projects, and opportunities

Ali Rhouma - *PRIMA Foundation, Tunisia Agriculture Ministry* - recorded

09:50-10:10

The tetraploid wheat genetic resources for better bridging durum and bread wheat genomics and breeding

Marco Maccaferri - *University of Bologna, Italy*

10:10-10:30

Svevo reference genome 2.0: a comprehensive tool for durum wheat genomics and breeding

Luigi Cattivelli - *CREA, Genomic and Bioinformatics, Italy*

10:30-10:50

Multi-omic strategies for durum wheat improvement

Curtis Pozniak - *University of Saskatchewan, Canada*

10:50-11:20

Coffee break & posters vision



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11:20-11:40	Artificial intelligence and machine learning method: enhance prediction accuracy of durum wheat traits José Crossa - <i>CIMMYT, Texcoco, Mexico</i>
11:40-12:00	Integrating molecular tools into durum wheat breeding for enhanced crop performance Susanne Dreisigacker - <i>CIMMYT, Texcoco, Mexico</i>
12:00-12:30	Q&A and discussion with the speakers
12:30-13:00	<i>Short presentations selected from Abstracts</i>
12:30-12:33	Genotypic variation in wheat root architecture, soil pore structure and hydraulic properties Giuseppe Dimattia - <i>University of Bologna, Italy</i>
12:33-12:36	Genomic and Phenomic-Driven Prediction for Yellow Rust in Bread and Durum Wheat Biparental Populations Paolo Vitale - <i>CIMMYT, Mexico</i>
12:36-12:39	Digital canopy height time series from RGB-UAV imaging reveal sequential activation of rht and vrn genes in bread wheat Fabio Fania - <i>Research Centre for Cereal and Industrial Crops, Italy</i>
12:39-12:42	New insight into wheat domestication Emile Cavalet-Giorsa - <i>University of Science and Technology (KAUST), Saudi Arabia</i>
12:42-12:45	Breaking the Phenotype Barrier: Genomic Tools for Distinctness, Uniformity, and Stability (DUS) Testing in Durum Wheat Gautam Amit - <i>ICARDA, India</i>
12:45-12:48	Genebank-Omics: A Vision for Diversifying Global Food Crops Exemplified by the A.E. Watkins Durum Landrace Project Noam Chayut - <i>John Innes Centre, United Kingdom</i>
12:48-12:51	Phenotypic Diversity and Drought Tolerance in Triticum araraticum for Wheat Improvement Hakan Ozkan - <i>Çukurova University, Turkey</i>
12:51-12:54	Beyond Reference Biases and SNPs: k-mer-based Pangenome GWAS Taps into Disease Resistance Diversity in Wheat Landraces Javier Sánchez-Martín - <i>University of Salamanca, Spain</i>



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12:54-12:57	Allele Mining in the Watkins Landrace Collection of Durum Wheat for Grain Carotenoid Content and Disease Resistance <i>Ajay Siluveru - John Innes Centre, United Kingdom</i>
12:57-13:00	Functional Analysis of WRKY Transcription Factors in wild emmer (<i>Triticum dicoccoides</i>) <i>Antonio Costa de Oliveira - Federal University of Pelotas - Brazil</i>
13:00-14:00	<i>Lunch</i>
14:00-17:00	Session 2 AGRONOMY, PHYSIOLOGY AND MODELING OF YIELD POTENTIAL TO ENHANCE THE SUSTAINABILITY OF DURUM WHEAT Chairs: Zina Flagella - <i>University of Foggia, Italy</i> ; Nicola Pecchioni - <i>CREA Foggia, Italy</i>
	<i>Invited presentations</i>
14:00-14:20	The transition of durum wheat cultivation from conventional to conservation tillage in Mediterranean conditions <i>Michele Pisante - University of Teramo, Italy</i>
14:20-14:40	Durum wheat spike traits for improving yield potential <i>Nicola Pecchioni - CREA, Cereal and Industrial Crops, Italy</i>
14:40-15:00	Yield potential and adaptation to stress are not mutually exclusive <i>José Luis Araus - University of Barcelona, Spain - recorded</i>
15:00-15:20	Lessons from global Genotype x Environment x Management (GxExM) systems research to enhance the durum wheat value chain <i>Brian Beres - Agrifood, Alberta, Canada - recorded</i>
15:20-16:00	Q&A and discussion with the speakers
16:00-16:30	<i>Coffee break & posters vision</i>
16:30-17:00	<i>Short presentations selected from Abstracts</i>
16:30-16:33	Interactive effects of heat and drought on wheat yield change from synergistic to antagonistic as their severity increases <i>Arisede Chisaka - University of Reading, United Kingdom</i>
16:33-16:36	Relationships between durum wheat NUE traits and grain protein quality evaluated in two contrasting Mediterranean environments <i>Michele De Santis - University of Foggia, Italy</i>



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16:36-16:39	Yield potential and stress adaptation of durum wheat in Mediterranean environments of central Chile <i>Alejandro Del Pozo - Universidad de Talca, Chile</i>
16:39-16:42	Genetic Dissection of Drought-Adaptive Physiological Traits in Durum Wheat Using Wild Wheat-Derived NAM Populations <i>Yaman Jabbour – ICARDA, Rabat, Morocco</i>
16:42-16:45	Genetic Gains in Grain Yield and Yield-Related Traits in Argentinian Durum Wheat <i>Ana Laura Achilli - University of Saskatchewan, Canada</i>
16:45-16:48	Plant responses to nanoplastic pollution in durum wheat: a new challenge for stress-tolerance breeding <i>Giuliana Bruno - University of Tuscia, Italy</i>
16:48-16:51	Wild Emmer Introgression Enhances Leaf CO₂ Diffusion and Photosynthesis Under Drought in Durum Wheat <i>Zait Yotam - The Hebrew University of Jerusalem, Israel</i>
16:51-17:00	Open Discussion
17:00-19:00	INNOVAR & WHEAT SECURITY Chairs: Fiona Doohan - <i>University of Dublin, Ireland</i> ; Filippo Bassi - <i>ICARDA, Morocco</i>
19:00	End of the Conference Day



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THURSDAY, 25 SEPTEMBER 2025

ROOM ALESSANDRO AMBROSI

08:30-10:25

Session 3

GENETIC RESOURCES IN TETRAPLOID WHEAT TO BETTER BRIDGE DURUM AND BREAD WHEAT

Chairs: Marco Maccaferri, *University of Bologna, Italy*;
Elisabetta Mazzucotelli, *CREA, Genomics and Bioinformatics, Italy*

Invited presentations

08:30-08:45

Transfer and characterization of wild relative introgressions into durum wheat
Julie King - *BBSRC Wheat Research Centre, Nottingham, United Kingdom*

08:45-09:00

Wheat history revealed: insights from ancient grains of southern Israel
Assaf Distelfeld - *Institute of Evolution, Haifa, Israel*

09:00-09:12

Gene bank genomics of *Aegilops* supports introgression breeding of wheat
István Molnár - *Hungarian Academy of Sciences, Budapest, Hungary*

09:12-09:24

Unleashing the potential of tetraploid relatives: from core collections to QTL for introgression breeding
Elisabetta Mazzucotelli - *CREA, Genomics and Bioinformatics, Italy*

09:24-09:36

Resistance to rust diseases in tetraploid wheats
Pablo Olivera - *USDA-ARS, St. Paul, USA* - recorded

09:36-09:48

Genomic breeding for dryland durum at ICARDA
Filippo Bassi - *ICARDA, Rabat, Morocco*

09:48-10:00

Holistic approach to develop drought-tolerance of durum wheat
Andrés Schwember - *Pontificia Universidad Catolica, Santiago, Chile*

10:00-10:12

New soft spring durum variety release USDA 'Morris' brings novel milling and baking traits from farm to table
Jeffrey Boehm - *USDA, Lincoln NE, USA*

10:12-10:24

Genetic architecture of winter survival in the Global Durum Panel
Ahmad Sallam - *USDA-ARS, St. Paul, USA* - recorded

10:25-10:40

Coffee break & posters vision



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Simultaneous
translation
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THURSDAY, 25 SEPTEMBER 2025

10:40-13:00

SPECIAL SESSION “INNOVATIVE APPROACHES FROM THE INDUSTRY”

Moderators: Roberto Ranieri - Open Fields, Parma, Italy

CASE HISTORY

10:40-10:48

The Strategic Role of Pro-Fume® in Integrated Pest Management for the Milling Sector

Alexander Stock - Douglas Products and Colkim

10:48-10:56

Ensure quality, from raw material to finished product

Anton Paar

10:56-11:04

Disinfestazioni radicali: Alte temperature e acido cianidrico

Claudio Massara - Mouse & CO

11:05-13:15

ROUND TABLE

Honorary chair: Paolo De Castro – Economist, Expert of European Policies

Moderators: Roberto Ranieri - Open Fields, Parma, Italy

11:05-11:20

Opening lecture

Mediterranean diet: a worldwide Italian excellence

Paolo De Castro - Economist, expert of European policies

11:20-11:32

Worldwide pasta business overview

Margherita Mastromauro - President of the Italia Pasta Makers, Italy

11:32-11:44

AltoGrano: a breakthrough in the milling industry

Graziano Stasi - Molino Casillo, Bari, Italy

11:44-11:56

Stra Pasta: durum wheat pasta with 19% of protein and 12% of fiber

Emidio Mansi - Pastificio Lucio Garofalo, Gragnano, Italy

11:56-12:08

FROM INTUITION TO REALITY: Research as a driver of extraordinary results in the pasta industry

Alessio Marchesani - Fava-Storci, Cento, Italy

12:08-12:20

End products from the new perennial grain Kernza developed from intermediate wheatgrass, and looking ahead to a perennial durum-wheatgrass hybrid

Timothy Crews - The Land Institute, Salina, Kansas USA

12.20-12.32

Operative millers: how to manage high innovation and future

Lorenzo Cavalli - President Italian Association of Operative Millers – Antim



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12:32-13:00	Open Discussion
13:00-14:00	<i>Lunch</i>
14:00-16:00	ROUND TABLE WITH DURUM WHEAT AND PASTA STAKEHOLDERS Moderators:, Silvia Giuliani - <i>Assosementi Bologna, Italy</i> ; Roberto Ranieri - <i>Open Fields, Parma, Italy</i> • Stefano Ravaglia - <i>Società Italiana Sementi, Italy</i> • Andrea Massi - <i>Produttori Sementi Bologna, Italy</i> • Oriana Porfiri - <i>CGS Sementi, Italy</i> • Davide Bacilieri - <i>RAGT, Italy</i> • Francesco Divella - <i>Divella Pasta Company, Italy</i>
16:00-16:40	<i>Short presentations selected from Abstracts</i>
16:00-16:03	Harnessing Durum-like Traits and Wild Germplasm to Improve Grain Quality and Heat Resilience in Wheat Abbas Assad - <i>Western Sydney University, Australia</i>
16:03-16:06	Wheat Security: Exploring the genetic and environmental basis of wheat quality Francisco Andrade Martin - <i>Universidad de Córdoba, Spain</i>
16:06-16:09	Genetic Characterization and Traceability of Sicilian Tetraploid Wheat Conservation Varieties Using SNP Markers Marco Bonarrigo - <i>University of Tuscia, Italy</i>
16:09-16:12	Technological quality of durum wheat pasta as affected by soil tillage and fertilization management Laura Gazza - <i>CREA Research Centre for Engineering and Agro-Food Processing, Italy</i>
16:12-16:15	Exploring Arabinoxylans in Durum Wheat: Contrasting Genotypes and Environments Across Different Crop Seasons Nayeli Hernandez-Espinosa - <i>CIMMYT, Texcoco, Mexico</i>
16:15-16:18	Expanding End-Uses of Durum Wheat: Converting Starch into Dietary Fibers & Using Grain Softness for Multipurpose Flours Maria Itria Ibbia - <i>CIMMYT, Texcoco, Mexico</i>



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16:18-16:21 **Bran Oils from Tunisian Durum Wheat and Barley: Phytochemical Composition and Evaluation of In Vitro Bioactivities**
Ines Yacoubi - *Centre of Biotechnology, Tunisia*

16:21-16:40 **Open discussion**

16:40-17:00 *Coffee break & posters vision*

CELEBRATION OF NAZARENO STRAMPELLI

17:00-17:15 **Presentation of the commemorative stamp on Nazareno Strampelli**
Roberto Tuberosa - *DISTAL University of Bologna, Italy*

17:15-17:30 **The impact of Nazareno Strampelli work on wheat breeding in China**
Xueyong Zhang - *CAAS, China* **recorded**

17:30-19:00 **CARLOTTA AWARD**
Chairs: Patrizia Galeffi; Giuseppina del Signore - *ENEA, Rome, Italy*

17:30-17:45 **Open Session:**
Welcome and Acknowledgements

THEMATIC AREA A

17:45-17:55 **Epigenetics as a new frontier for wheat improvement**
Philippa Borrill - *John Innes Centre, UK*

17:55-18:05 **Genotyping-by-sequencing uncovers a *Thinopyrum* 4StS·1JvsS Robertsonian translocation linked to multiple stress tolerances in bread wheat**
Klaudia Kruppa - *Biological Resources Dpt., Agriculture Institute, Hungary*

18:05-18:15 **Special Mention A** - Title to be defined
Veronica Guwela - *CIMMYT, Texcoco, Mexico*

THEMATIC AREA B

18:15-18:25 **Mutagenesis-driven modulation of the carotenoid pathway in durum wheat: nutritional gains and pleiotropic effects**
Samuela Palombieri - *Tuscia University, Italy*

18:25-18:35 **CRISPR-based editing of the ω - and γ -gliadin gene clusters reduces wheat immunoreactivity without affecting grain protein quality**
Yu Zitong - *Plant Pathology Dpt., Kansas State University, USA*



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18:35-18:45	Special Mention B Complementing wheat with underutilized grains: A closer look at ancient grains and intermediate wheatgrass in food applications Maneka Malalgoda - <i>Manitoba University, Canada</i>
18:45-19:00	AWARD CEREMONY
19:00	End of the Conference Day

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ROOM ALESSANDRO AMBROSI

08:30-10:30	Session 4 BREEDING DURUM WHEAT UNDER CLIMATE CHANGE: PROGRESS AND CHALLENGES <i>Session dedicated to the memory of Gian Tommaso Scarascia Mugnozza</i> Chairs: Antonio Blanco - <i>University of Bari, Italy</i> ; Stefania Masci - <i>University of Tuscia, Viterbo, Italy</i>
08:30-08:50	Commemoration of Gian Tommaso Scarascia Mugnozza and his research activities Antonio Blanco - <i>University of Bari, Italy</i>
08:50-09:10	Feeding the World through Science: The life and work of Gian Tommaso Scarascia Mugnozza Antonio Bonatesta - <i>University of Bari, Italy</i>
09:10-09:20	Durum Wheat Research at the University of Tuscia: From Creso to Climate Resilience Stefania Masci - <i>University of Tuscia, Viterbo, Italy</i>
09:20-09:30	Gian Tommaso Scarascia Mugnozza and the Green Revolution Roberto Tuberosa - <i>University of Bologna, Italy</i>
09:30-09:50	A Novel Genotype-Driven BSA Strategy for Mapping Adaptive Traits: Insights from a Bread Wheat Case Study Pasquale De Vita - <i>CREA, Sezione Cerealicoltura, Foggia, Italy</i>
09:50-10:05	Improving durum wheat resilience to climate change: balancing between accelerating genetic gains and relevance to main production environments Karim Ammar - <i>CIMMYT, Texcoco, Mexico</i>
10:05-10:20	Genomic breeding for heat tolerance at ICARDA Hafssa Kabbaj - <i>ICARDA, Rabat, Morocco</i>



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10:20-10:30

Conclusions

Enrico Porceddu - *University of Tuscia, Viterbo, Italy*

AWARD IN MEMORY OF GIAN TOMMASO SCARASCIA MUGNOZZA

10:30-11:00

Coffee break & Posters vision

11:00-13:00

Session 5

BREEDING FOR DISEASE RESISTANCE/TOLERANCE IN DURUM WHEAT

Chairs: Valentyna Klymiuk - *University of Saskatchewan, Canada*;

Fiona Doohan - *University of Dublin, Ireland*

11:00-11:20

Pre-breeding for disease resistance in durum

Valentyna Klymiuk - *University of Saskatchewan, Canada*

11:20-11:40

The long road to Fusarium Head Blight resistance in durum wheat

Barbara Steiner - *BOKU University, Vienna, Austria*

11:40-12:00

Genetic basis for FHB and DON heterogeneity in barley: a single plant-omics approach

Gurcharn Singh Brar - *University of Alberta, Canada*

12:00-12:20

The evolutionary battle between *Stb* resistance genes and *Septoria tritici* blotch across bread and durum wheats

Marcel Thierry - *INRAE, Palaiseau, France*

12:20-12:40

Genetic dissection of resistance to major diseases and insects in cultivated emmer wheat

Steven Xu - *USDA, Albany, USA*

12:40-13:00

Short presentations selected from Abstracts

12:40-12:43

Novel k-mer based genomic tools enable rapid discovery of crop wild relative introgressions, uncovering a novel loci for Hessian Fly resistance

Anna Elisabeth Backhaus - *ICARDA, Rabat, Morocco*

12:43-12:46

The adaptive metabolomic response of pistils to heat stress applied at anthesis in durum wheat-*Thinopyrum ponticum* recombinant genotypes

Ljiljana Kuzmanović - *University of Tuscia, Italy*

12:46-12:49

Enhancing Nigeria's Food Security through Collaborative Durum Wheat (*Triticum turgidum* subsp. *Durum* Desf.) Innovation

Mala Kachalla - *Lake Chad Research Institute, Nigeria*



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12:49-12:52	Mixing varieties mitigates early root competition in durum wheat under water and nutrient limitation Germain Montazeaud - <i>Université de Montpellier, France</i>
12:52-12:55	Durum Wheat Breeding for the Senegal River Basin: High-yielding Cultivars Adapted to heat in Northwest Africa Filippo Bassi - <i>Instut Sénégalais de Recherches Agricoles ISRA – Senegal</i>
12:55-12:58	From genebank to farmers: Unlocking durum wheat diversity for climate change resilience Meryem Zaim - <i>ICARDA, Rabat, Morocco</i>
13:00-14:00	<i>Lunch</i>
14:00-15:30	Session 6 QTLOME, CANDIDATE GENES AND EDITING OF THE DURUM WHEAT GENOME Chairs: Roberto Tuberosa - <i>University of Bologna, Italy</i> ; Anna Maria Mastrangelo - <i>CREA, Cereal and Industrial Crops, Italy</i>
14:00-14:15	The durum wheat germplasm panels and genome as resources to unveil the genetic bases of agronomic traits under conservative agriculture Anna Maria Mastrangelo - <i>CREA, Foggia, Italy</i>
14:15-14:30	Three candidate genes in 60 Kb: which one is responsible for leaf rust resistance in <i>T. dicoccum</i>? Francesca Desiderio - <i>CREA, Fiorenzuola D'Arda, Italy</i>
14:30-14:45	Characterization of the <i>Sbm2</i>, a major QTL for resistance to soil borne cereal mosaic virus (SBCMV) in durum wheat Matteo Bozzoli - <i>DISTAL, University of Bologna, Italy</i>
14:45-15:00	Enhancing durum wheat seed quality and safety through CRISPR gene editing Francesco Camerlengo - <i>DISTAL, University of Bologna, Italy</i>
15:00-15:30	Q&A and discussion with the speakers
15:30-17:00	Session 7 QUALITY AND FUNCTIONAL FOODS TRACEABILITY IN THE DURUM WHEAT CHAIN Chairs: Agata Gadaleta - <i>University of Bari, Italy</i> ; Stefania Masci - <i>University of Tuscia, Viterbo, Italy</i>



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Invited presentations

15:30-15:45 **Development of new wheat-derived foods of the Mediterranean diet with improved nutritional and health value**
Francesco Sestili - *University of Tuscia, Viterbo, Italy*

15:45-16:00 **The expression of the *CsIF6* gene in wheat: a beta-glucan biosynthesis prospective**
Ilaria Marcotuli - *University of Bari, Italy*

16:00-16:15 **Genetic variation in semolina yellow colour-associated genes within the Global Durum Panel**
Carlos Guzman - *University of Cordoba, Spain*

16:15-16:30 ***Short presentations selected from Abstracts***

16:15-16:18 **Genome-Wide Association Studies Integrated with Genomic Selection Reveal Novel Loci for Rust Resistance in Canadian Durum Wheat**
Julio Isidro y Sánchez - *Technical University of Madrid, Spain*

16:18-16:21 **Genetic Insights into Durum Wheat Resistance to WSSMV and SBCMV Across France and Italy**
Hélène Pidon - *Institut Univ Montpellier, France*

16:21-16:24 **Molecular modulation of the brassinosteroid pathway in durum wheat to enhance abiotic stress resilience**
Chiara D'Attilia - *Unitus- DAFNE, Italy*

16:24-16:27 **Root development in wheat triggered by phytohormones crosstalk and dosage changes in monocot-specific genes**
Gilad Gabay - *University of the Negev, Israel*

16:27-16:30 **A new genetic map in durum wheat allows the detection of QTL related to yield and grain protein content**
Laura Pascual - *Universidad Politécnica de Madrid, Spain*

16:30-16:40 **Open discussion**

16:40-17:00 *Coffee break & Posters vision*

17:00-19:10 Session 8

DECODING AND LEVERAGING THE DURUM WHEAT PANGENOME

Chairs: Marco Maccaferri, *University of Bologna, Italy*; Curtis Pozniak - *University of Saskatchewan, Canada*



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17:00-17:20	Landscape of structural variation in the wheat genome: functional and phenotypic consequences Eduard Akhunov - <i>Department of Agronomy, Kansas State University, USA</i>
17:20-17:40	Uncovering hidden diversity in wheat genomes through k-mer-based analyses Simon Krattinger - <i>KAUST, Thuwal, Saudi Arabia</i>
17:40-18:00	Inflorescence architecture and its relevance for sink capacity Thorsten Schnurbush - <i>IPK, Gatersleben, Germany</i>
18:00-18:20	Decoding and leveraging the durum wheat pangenome Cristian Forestan - <i>University of Bologna, Italy</i>
18:20-18:50	Improving wheat productivity: stories from the source and the sink sides Jorge Dubcovsky - <i>University of California, Davis, USA</i>
18:50-19:10	Closing remarks Agata Gadaleta - <i>University of Bari, Italy</i> ; Roberto Tuberosa - <i>University of Bologna, Italy</i>
19:10	End of the Conference Day
20:00-23:00	<i>Social Dinner</i>

SATURDAY, 27 SEPTEMBER 2025

ROOM ALESSANDRO AMBROSI

09:00-11:00	EWG durum wheat (Part 1)
11:00-11:30	<i>Coffee break</i>
11:30-12:30	EWG durum wheat (Part 2)
12:30	End of the Conference

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1. SETTING THE FSTP5 SCENE FOR WHEAT BREEDING 5.0

- P. 1 Breaking the Phenotype Barrier: Genomic Tools for Distinctness, Uniformity, and Stability (DUS) Testing in Durum Wheat**
Gautam Amit 1, Yaman Jabbour 2, Hafssa Kabbaj 3, Muhammad Awais Farooq 4, Xinying Zeng 4, Marco Maccaferri 4, Filippo M. Bassi 3
1 ICARDA, India
2 General Commission for Scientific Agricultural Research, Syria
3 International Center for Agriculture Research in Dry Areas, Rabbat
4 University of Bologna, Italy
- P. 2 Functional Analysis of WRKY Transcription Factors in wild emmer (*Triticum dicoccoides*)**
Antonio Costa de Oliveira 1, Valeria Oliveira Nizolli 1, Jennifer Villavicencio 1, 2, Winder Felipez 1, 5, Amanda Valentini Basegio 1, Camila Pegoraro 1, Luciano Da Maia 1
1 Universidade Federal de Pelotas, Faculdade de Agronomia Eliseu Maciel, Departamento de Fitotecnia, Campus Capão do Leão, Brazil;
2 Universidad Científica del Sur, Carrera de Agroforesteria, Lima, Peru;
3 Universidad Nacional "Siglo XX", Dirección General de Investigación, Llallagua, Bolivia.
- P. 3 Genotypic variation in wheat root architecture, soil pore structure and hydraulic properties**
Giuseppe Dimattia 1, Maria Hernandez-Soriano 2, Silvio Salvi 1, Roberto Tuberosa 1, Marco Bittelli 1
1 University of Bologna, Italy
2 John Innes Centre, Norwich, United Kingdom
- P. 4 New insight into wheat domestication**
Emile Cavalet-Giorsa 1, Simon Krattinger 1
1 University of Science and Technology (KAUST)
- P. 5 Genebank-Omics: A Vision for Diversifying Global Food Crops Exemplified by the A.E. Watkins Durum Landrace Project**
Noam Chayut 1, Ajay Siluveru 1, Mei Jiang 2, Karim Ammar 3, Shifeng Cheng 2, Noam Chayut 1
1 Germplasm Resources Unit, John Innes Centre, UK;
2 Agricultural Genomics Institute at Shenzhen, China;
3 CIMMYT (International Maize and Wheat Improvement Center), Mexico



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- P. 6 Digital canopy height time series from RGB-UAV imaging reveal sequential activation of *rht* and *vrn* genes in bread wheat**
Fabio Fania 5, Patrizio Spadanuda 1,2, Damiano Puglisi 1, Giuseppina Angione 1,2, Ida Colella 1,3, Nicola Pecchioni 1, Salvatore Esposito 4, Pasquale De Vita 1
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3 Department of Agricultural and Forestry Sciences (DAFNE), University of Tuscia, Italy
4 National Research Council of Italy, Institute of Biosciences and BioResources, Research Division Portici (CNR-IBBR)
5 Research Centre for Cereal and Industrial Crops, Italy
- P. 7 Evaluation of the relationship between vegetation indices and agronomic and physiological performance of several durum wheat (*Triticum durum* Desf.) genotypes under agroecological system**
Nasreddine Louahdi 1, Labad Ryma 2, Belguet Haroun 1, Meziani Mouna 1, Boukhobza Nawel 1
1. Institut Technique des Grandes Cultures (ITGC Algeria)
2. Ecole Nationale Supérieure Agronomique (ENSA Algeria)
- P. 8 Phenotypic Diversity and Drought Tolerance in *Triticum araraticum* for Wheat Improvement**
Hakan Ozkan 1, Ali Zain 1, Melike Biçici 1, İ. Barış Çankaya 1, Benjamin Kilian 2, Michael Frei 3
1 Department of Field Crops, Faculty of Agriculture, Çukurova University, Adana, Turkey
2 Global Crop Diversity Trust, Bonn, Germany
3 Department of Agronomy and Crop Physiology, Institute of Agronomy and Plant Breeding, Germany
- P. 9 Integrating genomic and phenomic prediction to enhance complex trait selection in wheat**
Damiano Puglisi 1, Fabio Fania 1,2, Patrizio Spadanuda 1,2, Salvatore Esposito 1,3, Giuseppina Angione 1,2, Ida Colella 1,4, Nicola Pecchioni 1, Renaud Rincet 5, Pasquale De Vita 1
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4 Department of Agricultural and Forestry Sciences (DAFNE), University of Tuscia, Italy
5 GQE-Le Moulon, Université Paris-Saclay, INRAE, CNRS, AgroParisTech, France.
- P. 10 Beyond Reference Biases and SNPs: k-mer-based GWAS Taps into Disease Resistance Diversity in Wheat Landraces**
Javier Sánchez-Martín³, Benjaming Jaegle², David Encalada Bustamante¹, Victoria Widrig¹
1 Department of Microbiology and Genetics, Spanish-Portuguese Agricultural Research Center (CIALE), University of Salamanca, Salamanca, Spain
2 Department of Plant and Microbial Biology, University of Zurich, Zollikerstrasse 107, 8008 Zurich, Switzerland
3 University of Salamanca, Spain



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P.11 Allele Mining in the Watkins Landrace Collection of Durum Wheat for Grain Carotenoid Content and Disease Resistance

Ajay Siluveru¹, Josh Waites¹, Mei Jiang², Simon Orford¹, Rebecca Lee¹, Ruth Eyiowuawi¹, Smitha Chundakkad¹, Workie Zegeye¹, Liz Sayers¹, Alex Howard¹, Hang Gao¹, Darryl Playford¹, Karim Ammar³, Shifeng Cheng², Noam Chayut¹

1 Germplasm Resources Unit, John Innes Centre, UK;

2 Agricultural Genomics Institute at Shenzhen, China;

3 CIMMYT, Mexico;

P. 12 Genomic and Phenomic-Driven Prediction for Yellow Rust in Bread and Durum Wheat Biparental Populations

Paolo Vitale 1, Abelardo Montesinos-Lopez 2, Naeela Qureshi 1, Karim Ammar 1, Susanne Dreisigacker 1, Julio Huerta-Espino 1, Velu Govindan 1, Osval Montesinos-Lopez 3, Gilberto Thompson 1, Matthew Reynolds 1, Keith Gardner 1, Jose Crossa 1, Guillermo Gerard 1

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2 Departamento de Matemáticas, Centro Universitario de Ciencias Exactas e Ingenierías (CUCEI), Universidad de Guadalajara, Mexico

3 Facultad de Telemática, Universidad de Colima, Mexico



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**2. AGRONOMY, PHYSIOLOGY AND MODELING OF YIELD POTENTIAL
TO ENHANCE THE SUSTAINABILITY OF DURUM WHEAT**

P.13 Genetic Gains in Grain Yield and Yield-Related Traits in Argentinian Durum Wheat

Ana Laura Achilli^{1,2,3}, Pablo F. Roncallo^{2,3}, Susanne Dreisigacker⁴, Curtis J. Pozniak¹, Viviana C. Echenique²

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2 Centro de Recursos Naturales Renovables de la Zona Semiárida (CERZOS–CCT–CONICET Bahía Blanca), Argentina

3 Departamento de Agronomía, Universidad Nacional del Sur (UNS), Argentina

4 The International Maize and Wheat Improvement Center (CIMMYT), Mexico

P.14 From the Green Revolution to Green Resilience: Rht genes between productivity and adaptation

Giuseppina Angione¹ Concetta Lotti¹, Salvatore Esposito², Ida Colella^{3,4} Patrizio Spadanuda^{1,3}, Angelica Giancaspro¹, Philippa Borrill⁵, Pasquale De Vita³.

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P. 15 Plant responses to nanoplastic pollution in durum wheat: a new challenge for stress-tolerance breeding

Giuliana Bruno¹, Benedetta Pizziconi², Marco Bonarrigo¹, Giulia Quagliata¹, Panagiotis Liakopoulos³, Petros Kolovos³, Yiannis Kourkoutas³, Stefania Astolfi¹, Laura De Gara², Sara Cimini², Francesco Sestili¹, Samuela Palombieri¹

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3 Democritus University of Thrace, DUT, Department of Molecular Biology & Genetics, Greece



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- P. 16 Characterizing Developmental Traits for Grain Yield Enhancement in Tetraploid Wheat Core Collection: Focus on Spike Fertility and Grain Morphology**
Eugenia Carini¹, Paola Viola², Carlo Invernizzi², Elisabetta Mazzucotelli³, Agata Gadaleta⁴, Ilaria Marcotuli⁴, Roberto Tuberosa¹, Marco Maccaferri¹;
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³ *Council for Agricultural Research and Economics, CREA-GB Research Centre for Genomics and Bioinformatics, Italy;*
⁴ *Department of Agricultural and Environmental Science, University of Bari 'Aldo Moro', Italy.*
- P. 17 Interactive effects of heat and drought on wheat yield change from synergistic to antagonistic as their severity increases**
Arisede Chisaka¹, John P. Hammond¹, Shinichi Nakagawa^{2,3}, Jacob Bishop¹
¹ *School of Agriculture, Policy and Development, University of Reading, UK*
² *Evolution and Ecology Research Centre, School of Biological and Environmental Science, University of New South Wales, Australia.*
³ *Department of Biological Sciences, University of Alberta, CW 405, Biological Sciences Building, Canada*
- P.18 Relationships between durum wheat NUE traits and grain protein quality evaluated in two contrasting Mediterranean environments**
Michele De Santis¹, Raffale Meloni², Pasquale De Vita³, Nicola Pecchioni³, Amedeo Reyneri², Massimo Blandino², Zina Flagella¹
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² *University of Turin, Dipartimento di Scienze Agrarie, Forestali e Alimentari, Italy*
³ *CREA Research Centre for Cereal and Industrial Crops, Italy*
- P. 19 Yield potential and stress adaptation of durum wheat in Mediterranean environments of central Chile**
Alejandro Del Pozo¹, K. Gütter¹, I. Matus², D. Castillo², F. Mejias¹, J. Pacheco¹, and A. Schwember³
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³ *Departamento de Ciencias Vegetales, Facultad de Agronomía y Sistemas Naturales, Pontificia Universidad Católica de Chile, Chile.*
- P. 20 Agronomic and genotypic insights into durum wheat adaptation to conservation agriculture: a plot-to-field scale approach**
Zina Flagella¹, Michele Andrea De Santis¹, Francesco Ciavarella², Michele Rinaldi²
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² *CREA Research Centre for Cereal and Industrial Crops, Italy*



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- P. 21 The responses of winter cultivars of common wheat, durum wheat and spelt to agronomic factors**
Krzysztof Jankowski 1, Wojciech Budzyński 1, Krzysztof Bepirszcz 1, Bogdan Dubis 1, Anna Hłasko-Nasalska 1, Mateusz Sokółski 1, Jacek Olszewski 2, Dariusz Załuski 3
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3 University of Warmia and Mazury in Olsztyn, Faculty of Agriculture and Forestry, Department of Genetics, Plant Breeding and Bioresource Engineering, Poland
- P. 22 Genetic Dissection of Drought-Adaptive Physiological Traits in Durum Wheat Using Wild Wheat-Derived NAM Populations**
Yaman Jabbour 1, Mohammad Shafik Hakim 2, Hiba Alatrash 1, Hafssa Kabbaj 3, Meryem Zaïm 3, Charles Kleinerman 3, Filippo M. Bassi 3
1 General commission for scientific Agriculture research (GCSAR), Syria.
2 Field Crop Department, Faculty of Agriculture Engineering, Aleppo University, Aleppo, Syria
3 ICARDA, Biodiversity and Integrated Gene Management, Rabat, Morocco
- P. 23 Integrating imaging, yield components, and grain composition data to assess drought response in durum wheat**
Giacomo Mangini¹, Pasquale Luca Curci¹, Angelo Petrozza², Claudia Testolin³, Elena Baldoni³, Fabio Francesco Nocito⁴, Aldo Ceriotti³, Francesco Cellini², Gabriella Sonnante¹
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4 Department of Agricultural and Environmental Sciences -Production, Territory, Agroenergy, University of Milan, Italy
- P. 24 Genomic approaches to reduce cadmium accumulation in durum wheat for food safety and sustainable cultivation**
Ilaria Marcotuli 1, Alessio Aprile 2, Zina Flagella 3, Nunzio Fiorentino 4, Agata Gadaleta 1
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3 Department of Agriculture, Food, Natural Resources and Engineering, University of Foggia, Foggia, Italy
4 Department of Agricultural Sciences, University of Naples Federico II, Portici, Italy
- P. 25 Michay-Inia: A High-Yielding Spring Durum Wheat Cultivar for Chilean Conditions**
Ivan Matus 1, D. Castillo 1, C. Jobet 2, J. Hirzel 1, M. Valenzuela 3, N. Muñoz 3
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P. 26 Study of nitrogen metabolism in wheat cultivars under water and nutrient stress

Sara Muciaccia 1, Marcotuli, I. 1, Giove S.L. 1, Maccaferri M. 2, Forestan C. 2, Simone M. 1, Caranfa D. 1, Gadaleta A. 1

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P. 27 Grain metabolome profiling of a durum wheat core collection in response to different nitrogen supply

Raul Pirona 1, Elahe Tavakoli 2, Cristian Forestan 3, Laura Ruth Cagliani 4, Chiara Cappucci 3, Marco Maccaferri 3, Matteo Bozzoli 3, Andrea Tafuri 1, Aldo Ceriotti 1, Roberto Consonni 4

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4 Institute of Chemical Sciences and Technologies (SCITEC) “Giulio Natta”, National Research Council, Milan, Italy

P. 28 Response of ancient durum wheat varieties to low and high-input management systems: agronomic and physiological evaluation

Amani Romdhane 1, Khoulood Chetoui 1, Salma Tissaoui 2, Romdhane Nasraoui 3, Abdenmour Sebei 2, Noura Omri Ben Youssef 2, Noura Jammezi 2, Mariem Balloumi 2, Salah BenYoussef 1

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P. 29 The Italian Durum Wheat Variety Trial Network: A Collaborative Platform for Climate-Resilient Variety Evaluation

Fabrizio Spadanuda 1, Fabio Fania 1-2, Ivano Pecorella 2, Damiano Puglisi 2, Filippo Maria Bassi 3, Nicola Pecchioni 2, Pasquale De Vita 2

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P. 30 T. durum in Poland- new challenge for farmers

Elżbieta Suchowilska 1, Marian Wiwart 1, Urszula Wachowska 2, Dariusz Gontarz 3

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Mona Taghouti 1, G. Diria 1, F. Gaboune 1, K. M'bida 2, H. El Bouzidi 3
1 Institut National de la Recherche Agronomique Maroc
2 Faculté des sciences Fès Maroc
3 Faculté des sciences Settat Maroc
- P. 32 Cultivar-Specific Responses to Phosphate Fertilization in Triticum durum**
Olga Maria Vaccarella 1, Stefania Giove 2, Eleonora Davide 3, Nunzio Dipierro 1, Candida Vannini 3, Milena Marsoni 3, Guido Domingo 3, Stefania Fortunato 1, Ilaria Marcotuli 2, Agata Gadaleta 2, Maria Concetta de Pinto 1, Federico Vita 1
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3 Università degli Studi dell'Insubria, Dipartimento di Biotecnologie e Scienze della Vita, Varese, Italy
- P. 33 Evaluating Row-Based Yield Prediction in Durum Wheat Using Multispectral and Thermal Imagery**
Dolors Villegas 1, David Gómez-Candón (1,2), Joaquim Bellvert (3), José Antonio Jiménez-Berni (4)
(1) EEAD, CSIC, Zaragoza, Spain
(2) ARAID Foundation, Zaragoza, Spain
(3) IRTA, Lleida, Spain
(4) IAS, CSIC, Córdoba, Spain
- P. 34 Wild Emmer Introgression Enhances Leaf CO₂ Diffusion and Photosynthesis Under Drought in Durum Wheat**
Zait Yotam - The Hebrew University of Jerusalem, Israel



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**3. GENETIC RESOURCES IN TETRAPLOID WHEAT TO BETTER BRIDGE
DURUM AND BREAD WHEAT**

- P. 35 Expanding End-Uses of Durum Wheat: Converting Starch into Dietary Fibers & Using Grain Softness for Multipurpose Flours**
Karim Ammar 1, Susanne Dreisigacker 1, Angela Pacheco Gill
1 CIMMYT-Mexico
- P. 36 Wheat Security: Exploring the genetic and environmental basis of wheat quality**
Francisco Andrade Martin 1, Juan B. Alvarez 1, Nieves Aparicio 2, José Luis Araus 3, Fiona Doohan 4, Marco Maccaferri 5, Matteo Bozzoli 5, Justin Blancon 6, Sophie Bouchet 6, María Itria Ibba 7, Carlos Guzmán 1
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3 Section of Plant Physiology, University of Barcelona, Spain
4 School of Biology and Environmental Science and Earth Institute, University College Dublin, Ireland
5 Department of Agricultural Sciences, University of Bologna, Italy
6 UMR GDEC, INRAE, Université Clermont Auvergne, Clermont-Ferrand, France
7 International Maize and Wheat Improvement Center (CIMMYT), Mexico
- P. 37 Harnessing Durum-like Traits and Wild Germplasm to Improve Grain Quality and Heat Resilience in Wheat**
Abbas Assad 1, Jing He1, Afroz Naznin1, Damilola Dauda1, Kun Ning1, Yuanyuan Wang1, Jayakumar Bose1, Zhonghua Chen1*
1. School of Science, Western Sydney University, Australia
- P. 38 Genetic Characterization and Traceability of Sicilian Tetraploid Wheat Conservation Varieties Using SNP Markers**
Marco Bonarrigo¹, Giulio Metelli¹, Bernardo Messina², Giuseppe Russo², Francesco Sestili¹
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P. 39 Tetraomix Wheat Database: An Online Platform to Manage Triticum Germplasm

Ida Colella 1; Giuseppina Angione^{2,3}; Fabio Fania ^{2,3}; Patrizio Spadanuda ^{2,3}; Damiano Puglisi 2; Salvatore Esposito 4; Riccardo Aiese Cigliano 5; Rosa Barcelona Cabeza 5; Francesco Sestili 1; Pasquale De Vita 2;

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5. Sequentia Biotech SL, Barcelona, Spain

P.40 Transcriptomic profiling reveals divergent nitrogen deprivation responses in durum wheat cultivars

Pasquale Luca Curci 1, Giacomo Mangini 1, Diana Lucia Zuluaga 1, Francesco Punzi 1-2, Emanuela Blanco 1, Gaetano Laghetti 1, Barbara Laddomada 3, Gabriella Sonnante 1

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P. 41 Investigation of Vrn-B1 Diversity in Triticum Spp. Using In-Silico and Molecular Approaches

Pasquale De Vita 2, Ida Colella 1,2, – Giuseppina Angione ^{2,3}, – Salvatore Esposito 4 – Samuela Palombieri 1- Francesco Sestili 1

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P. 42 Protect and promote Crop Wild Relatives (PRO-WILD project): wild emmer for the resilience of food systems

Francesca Desiderio 1, Davide Guerra 1, Elisabetta Mazzucotelli 1, Giulia Castorina 1, Giorgia Carletti 1, Lorenzo Covarelli 2, Giovanni Beccari 2, Ioannis Mylonas 3, Hakan Özkan 4, Einav Mayzlish-Gati 5, Avraham A Levy 5, Luigi Cattivelli 1

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3- Hellenic Agricultural Organization – DIMITRA (ELGO – DIMITRA), Institute of Plant Breeding & Genetic Resources, Thessaloniki, Greece.

4- Department of Field Crops, Faculty of Agriculture, University of Çukurova, Adana, Turkey.

5- Department of Plant and Environmental Sciences, The Weizmann Institute of Science, Rehovot, Israel.

P. 43 Genetic variation and association mapping studies in elite spring bread wheat genotypes for yield and other agronomic traits under irrigated and rainfed environments

Zakaria El Gataa 1

1 Mohammed VI Polytechnic University (UM6P), AgBs, CAES, Benguerir, Morocco

P. 44 Genetic Dissection of Root Growth Angle Reveals Breeding Targets for Drought-Resilient Durum Wheat

Genet Atsbeha Fiseha 1, Muhammad Awais Farooq1, Martina Bruschi1, Manar Makoul2, Francisco Pinto4, Chunyi Liu1, Xinying Zheng1, Cristian Forestan1, Matteo Bozzoli1, Matthew Reynolds4, Rod J Snowdon 2, Silvio Salvil, Eric Ober3, Roberto Tuberosa1, Marco Maccaferri1.

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3 NIAB, 93 Lawrence Weaver Road, Cambridge, UK;

4 Global Wheat Program, International Maize and Wheat Improvement Center (CIMMYT), Mexico

P. 45 Genetic Diversity and Genome Wide Association Study in Tetraploid Wheat (Triticum Spp.) Genotypes from Ethiopia

Miheretu Fufa 1,2, Andargachew Gedebo 1, Tesfaye Letta 2, Dangachew Lule 2, and Anna Maria Mastrangelo 3

1 Hawassa University College of Agriculture, Hawassa, Ethiopia

2 Oromia Agricultural Research Institute, Finfinnee, Ethiopia

3 CREA-Research Centre for Cereal and Industrial Crops, Foggia, Italy

P. 46 Technological quality of durum wheat pasta as affected by soil tillage and fertilization management

Laura Gazza1, Francesca Nocente 1, Roberto Mancinelli 2, Marta Naso 1, Gaia Blandizzi 1, Gabriele Chilosi 3

1 CREA Research Centre for Engineering and Agro-Food Processing, Rome, Italy

2 Department of Agriculture and Forest Sciences (DAFNE), University of Tuscia, Italy

3 Department for Innovation in Biological, Agrofood and Forest Systems (DIBAF), University of Tuscia, Italy.



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- P. 47 Exploring Arabinoxylans in Durum Wheat: Contrasting Genotypes and Environments Across Different Crop Seasons**
Nayeli Hernandez-Espinosa 1, Maria Itria Ibba 1
1 International Maize and Wheat Improvement Center, CIMMYT, Mexico
- P. 48 The valorization of Apulian durum wheat landraces through their collection, characterization, and storage: the project SaveGrain-CER**
Gaetano Laghetti 1, Zonna Mariano1, Giunta Rosella1, Dorenzo Paolo1
1 Institute of Biosciences and BioResources, National Research Council (CNR), Italy
- P. 49 History of durum wheat in Spain**
Fernando Martinez-Moreno 1
1 University of Seville, Spain
- P. 50 Assessment of a Balkan Durum Panel for Virus Resistance and Sustainable Wheat Production**
Dragan Perovic 1, Heike Lehnert2, Cai Yu1, Katy Niedung1, Jelena Zindovic3, Zoran Jovovic3, Giacomo Mangini7, Mariella Matilde Finetti-Sialer7, Novo Przulj4, Marco Maccaferri5, Peter Dracatos6, Ana Velimirovic3
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- P. 51 Introgression breeding for durum wheat improvement**
1 Edina Türkösi, 1 Klaudia Kruppa,1 Eszter Gaál, 1 Balázs Kalapos, 2 Ilaria Marcotuli, 2 Agata Gadaleta, 1 István Molnár
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- P. 52 Genomic Design-Driven Enhancement of Processing Quality in Common Wheat**
Yingyin Yao 1, Zhaoheng Zhang 1, Dan Liu 1, Zhongfu Ni 1, Qixin Sun 1, Weilong Guo 1
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- P. 54 Evaluation of ICARDA durum wheat lines under moistures stress condition in the Central India**
Jang Bahadur Singh¹, Rahul Gajghate¹, Amit Gautam², Shiv Kumar Agrawal³, and Filippo Bassi⁴
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2 National Associate Scientist, ICARDA, Amlaha, Sehore, India
3 Regional Coordinator, ICARDA-South Asia & China Regional Program, New Delhi, India
4 Scientist, ICARDA-Morocco
- P. 55 Impact of Chilean Environmental Conditions on Durum Wheat Quality: Adverse And Optimal Scenarios**
1 Dalma Castillo, 1 Iván Matus, 2 Alejandro del Pozo, 3 Nicolás Muñoz
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3 Departamento de Producción Vegetal, Facultad Agronomía, Universidad de Concepción, Av. Vicente Méndez 595. Chillán. Ñuble. Chile.
- P. 56 Discovering transcriptional regulators of drought-induced senescence in wheat**
Miles Curl¹, Catherine Evans², Chris Burt³, Nick Bird⁴, Rachel Goddard⁵, Gurbinder Singh Sidhu⁶, Richard Morris⁶, Philippa Borrill¹
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5) Limagrain UK, Woolpit, Bury St Edmunds, UK
6) Department of Computational and Systems Biology, John Innes Centre, Norwich, UK
- P. 57 Characterization of Ppo-A1 alleles and their impact on PPO activity in tetraploid wheat**
Domenico De Paola², Fanelli V.1, Dellino M. 1, De Paola D. 2, De Giovanni C. 1, Minervini A.P. 2, Mangini G. 2, D'Agostino N. 3, De Vita P. 4, Montemurro C. 1,5,6, Taranto F. 2
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P. 58 Assessment of the technological quality and the pasta-making aptitude of emerging durum wheat lines cultivated in multiple Italian environments

Laura Gazza¹, Eder Groli², Mariarosa Giordano², Simone Palmirani², Andrea Raggi², Alessandro Cammerata¹, Viviana Del Frate¹, Marta Naso¹, Ester Gosparini¹, Alessandra Arcangeli¹, Roberto Mortaro¹, Cristina Cecchini¹, Stefano Ravaglia²

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P. 59 Harnessing Genomic Tools to Accelerate Breeding for Heat Tolerance in Durum Wheat in West Africa

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P. 60 Genome-Wide Association Study Identifies Novel SNPs for Forage Quality and Related Traits in Dual-Purpose Winter Wheat

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P. 61 G X E interaction and its effect on yield components of durum wheat under terminal drought conditions in the Mediterranean dryland of central Chile.

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- P. 62 Genetic Dissection of Heat Stress Tolerance in Durum Wheat under field conditions**
Roshan Paudel¹, M. Awais Farooq¹, Matteo Bozzoli¹, Eder Licieri Groli², Elisabetta Frascaroli¹, Marco Maccaferri¹, Karim Ammar³, Roberto Tuberosa¹
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2. Società Italiana Sementi, Italy;
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- P. 63 Evaluation of Moroccan durum wheat (*Triticum turgidum* L. ssp. *durum*) genotypes under seedling-stage drought stress in controlled conditions**
Oumaïma Rachik¹, Abdelghani Nabloussi¹, Loubna Belqadi², Hafssa Kabbaj³, Moha Ferrahi⁴
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- P. 64 Genetic discovery of fast dry down characteristics in durum wheat**
Yuefeng Ruan^{1*}, Jatinder S. Sangha^{1*}, Ron Knox^{2§}, Curtis Pozniak³, Brad Meyer¹, Tinku Gautam¹, Firdissa Bokore¹, Richard D. Cuthbert¹, Greg Viers⁵, Wentao Zhang⁴, Samia Berraies¹
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5 Barilla America Inc, 3311 East Lincoln way Ames, IA 50010
- P. 65 Enhancing Drought Resilience in Tetraploid Wheat: The Role of Polyphenol Oxidases and Microbial Inoculation**
Francesca Taranto¹, Minervini A.P.¹, Pellegrini A.¹, Procino S.¹, Bianco C.², Logozzo G.³, Marzario S.³, Prestera M.³, Placido G.³, Morante C.³, Verrastro V.³, Mangini G.¹, De Vita P.⁴, Gioia T.³, D'Agostino N.⁵
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Anna Elisabeth Backhaus¹, Kabbaj, Hafssa¹; Cavalet-Giorsa, Emile²; Quiroz-Chavez, Jesus⁴; Boulamat, Rachid¹; El'Bouhssini, Mustapha³; Walkowiak, Sean⁵; Bassi Filippo¹
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2 King Abdullah University of Science and Technology, Saudi Arabia
3 Mohamed VI Polytechnic University, Morocco
4 John Innes Centre, UK
5 Canadian Grain Commission, Canada
- P. 67 Durum Wheat Breeding for the Senegal River Basin: High-yielding Cultivars Adapted to heat in Northwest Africa**
Filippo Bassi¹
1 Institut Sénégalais de Recherches Agricoles (ISRA), Senegal
- P. 68 Identification of QTLs for Resistance to Leaf Rust, Yellow Rust, and Septoria Tritici Blotch Using Association and Linkage Mapping in Durum Wheat**
Luca Ceccato¹, Eugenia Carini¹, Matteo Bozzoli¹, Chunyi Liu¹, Francesco De Sario¹, Rafika Benbernou², Fabrice Ntakirutimana², Manon Delanoue², Nicolas Lapalu², Frédéric Suffert², Thierry C. Marcel², Chiara Cappucci¹, Muhammad Awais Farooq¹, Elisabetta Mazzucotelli², Paola Viola³, Carlo Invernizzi³, Roberto Tuberosa¹, Marco Maccaferri¹;
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P. 69 Loci relevant for Yellow Rust Resistance in Durum Wheat adapted to the Mediterranean environments identified in cultivated and landrace germplasm through genome-wide association study

Liu Chunyi¹, Francesco De Sario¹, Muhammad Awais Farooq¹, Jad B Novi¹, Shruti Dilip Desai¹, Ambra Viviani¹, Alessia Confortini¹, Eugenia Carini¹, Matteo Bozzoli¹, Cristian Forestan¹, Sandra Stefanelli¹, Elisabetta Mazzucotelli², Francesca Desiderio², Anna M Mastrangelo³, Daniela Marone³, Paola Viola⁴, Carlo Invernizzi⁴, Rola El Amil⁵, Nazari Kumarse⁶, Hakan Hozkan⁷, Isam Bashour⁸, Mohamed E Sharif Ragab⁹, Idrissi Omar¹⁰, Pablo Roncallo¹¹, Zahara Pourkhorshid¹², Filippo M Bassi¹³, Luigi Cattivelli², Roberto Tuberosa¹, Agata Gadaleta¹⁴, Marco Maccaferri¹

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P. 70 Susceptibility and attractiveness of ancient and old wheats to *Sitophilus granarius* (L.) and *Rhyzopertha dominica* (F.)

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P. 71 Evaluation of yield and quality traits in moderately *Fusarium* head blight resistant Durum wheat lines

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P. 73 Unraveling the genetic determinants of host specificity in the *Zymoseptoria tritici*– Wheat pathosystem

Ulysse Guilloteau¹, Emmie Dzialo¹, Lola Longayrou¹, Anaïs Bosc-Bierne¹, Vincent Leporini¹,
Rafika Benbernou¹, Hélène Rimbart², Olivier Soudiere³, Fabrice Ntakirutimana¹, Karim Ammar³, Cyrille
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P. 74 Durum landraces as valuable gene pool to uncover and map resistance to *Septoria Tritici* Blotch

Michela Giunti¹, Chunyi Liu², Matteo Bozzoli², Francesco De Sario², Delfina Barabaschi³, Francesca
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P. 75 Performance of Ethiopian Durum and Bread Wheat Varieties and Candidate Lines Under High of Yellow Rust Pressure in 2023

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P. 76 Resistance durum wheat to *Rhopalosiphum padi*

1) Bożena Kordan, Anna Wróblewska-Kurdyk, 3) Mariusz Kowalczyk, 3) Iwona Kowalska, 4) Jan
Bocianowski, 2) Katarzyna Dancewicz, 1) Agnieszka Pszczółkowska, 2) Beata Gabryś

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Klaudia Kruppa, Éva Szakács, Kitti Szőke-Pázs, Edina Türkösi, Eszter Gaál, András Farkas, László Ivanizs, Péter Kovács, Norbert Hidvégi, Andrea Gulyás, István Molnár
HUN-REN Centre for Agricultural Research
- P.78 The adaptive metabolomic response of pistils to heat stress applied at anthesis in durum wheat-*Thinopyrum ponticum* recombinant genotypes**
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- P. 79 Evaluation of granary weevil utilization efficiency in pigmented wheat varieties using nutritional indices**
Federica Lo Muzio¹, Ilaria D'Isita¹, Michele Romanelli¹, Giovanni Iadarola¹, Barbara Laddomada², Sara Mancarella², Marco Pistillo¹, Giuseppina Angione^{1,3}, Fabio Fania³, Pasquale De Vita³, Giacinto S. Germinara¹
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- P. 80 Breeding for Better Durum: Enhancing Defence Against FHB Disease**
Joy Jedi Mahilum¹, Rizky Psthika Kirana³, Sebastian Michell¹, Hermann Buerstmayr¹, Barbara Steiner¹
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- P.81 Enhancing Nigeria's Food Security through Collaborative Durum Wheat (*Triticum turgidum* subsp. *Durum* Desf.) Innovation**
Kachalla Mala¹, A. Nair², N. Metah², A. Pandey², D. Adeniyi², B.G.J. Kabir¹, A.S. Wali¹, F.M. Bassi³,
1 Lake Chad Research Institute, Maiduguri, Nigeria
2 Olam Agri-Crown Flour Mills, Nigeria
3 ICARDA, Rabat, Morocco
- P. 82 Genetic and Phenotypic Characterization of A 16-Way Magic Population for Traits of Agronomic Interest in Durum Wheat**
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P. 84 Mixing varieties mitigates early root competition in durum wheat under water and nutrient limitation

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P. 85 A collaborative approach to improve Fusarium head blight resistance in durum wheat: a multi-environment phenotyping ring trial

Barbara Steiner¹, Karim Ammar², Agata Gadaleta³, Anna Maria Mastrangelo⁴, Hermann Buerstmayr¹,
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Salma Tissaoui¹, Amani Romdhane², Salah BenYoussef², Abdenmour Sebei¹, Noura Jammezi¹, Mariem Balloumi¹, Khoulood Chetoui², Noura Omri BenYoussef¹

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P. 87 From genebank to farmers: Unlocking durum wheat diversity for climate change resilience

Meryem Zaim¹, Nouredine El Haddad², Andrea Visioni¹, Miguel Sanchez-Garcia¹, Zakaria Kehel¹,
Amadou Tidiane Sall³, Rola El Amil⁴, Wasihun Lagesse⁵, Kachalla Mala⁶, Hajer Ben Ghanem⁷,
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Ana Laura Achilli 4, Pablo F. Roncallo 1,2; Susanne Dreisigacker 3; Curtis J. Pozniak 4; Viviana C. Echenique¹

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P. 89 Identification and Biological Characterization of Candidate Genes for Resistance to Soil-Borne Cereal Mosaic Virus in Durum Wheat using CRISPR-Cas9 Genome Editing Systems

Lorenzo Calzini (1), Matteo Bozzoli (1), Cristian Forestan (1), Ambra Viviani (1), Francesco Camerlengo (1), Robert Eric Hoffie (2), Jochen Kumlehn (2), Roberto Tuberosa (1), Marco Maccaferri (1)

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P. 90 Identification of QTLs for quality traits using wheat interspecific backcross inbred lines

Pasqualina Colasuonno 1, Ilaria Marcotuli¹, José Miguel Soriano², Sara Muciaccia¹, Stefania Lucia Giove¹, Agata Gadaleta¹

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P. 91 Segmental introgression from wild *Thinopyrum ponticum* harbouring LATERAL ROOT DENSITY (LRD) gene positively affects root growth under drought stress and during recovery in durum wheat

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P. 92 Root development in wheat triggered by phytohormones crosstalk and dosage changes in monocot-specific genes

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P. 93 Identification of QTL and candidate genes involved in pigment biosynthesis in wheat

Fabiola Iurino 1, Ilaria Marcotuli 1, Pasqualina Colasuonno 1, Antonia Mores 1, Davide Caranfa 1, Agata Gadaleta 1

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P. 94 Agronomic Traits and Stability Indexes in a Durum Wheat Panel Assessed in a Multi-Environment Trial

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P. 96 In silico and molecular analysis of the *Thinopyrum ponticum* PLETHORA2 gene putatively associated with spike fertility in chromosomally engineered durum wheat-Th. *ponticum* introgression lines

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Francesca Orlando (1), Chiara D'Attilia (1), Valentina Bigini (1), Francesco Sestili (1), Fabio D'Orso (2),
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2: Université Côte d'Azur
3: AGRIS
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O. Bachrouch 1, H. Ben Ghanem 2, L. Gayess 3, S. Somrani 2, K. Horchani Ennaifer 4, A. Amdouni 5, M. Abderraba 3
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4 Physico-Chemistry Laboratory of Mineral Materials and their Applications, National Center for Research in Materials Sciences, Soliman, Tunisia
5 La Coopérative Centrale des Semences, COSEM, sis au 46 Rue des travailleurs, 2010, Manouba
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Houda Bousselham 1, Mounira Azerou 1, Meryem Zaim 1, Hafssa Kabbaj 1, Andrea Visioni 1, Amal Safi 2, Filippo M. Bassi 1,
1- International Center for Agricultural Research in the Dry Areas (ICARDA), Rabat 10112, Morocco
2- Faculty of Sciences and Techniques of Mohammedia, University Hassan II of Casablanca, Morocco
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Davide Caranfà¹, Ilaria Marcotuli¹, Patricia Cabas-Lühmann², Antonia Mores¹, Stefania Lucia Giove¹, Andrés R. Schwember², Pasqualina Colasuonno¹, Maria Simone¹, Sara Muciaccia¹, Agata Gadaleta¹
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Alessio Cimini¹, Giacomo Buglia¹, Lorenzo Morgante, Alessandro Benelli¹
Department for Innovation in Biological, Agrofood, and Forestry Systems (DIBAF), University of Tuscia, Viterbo, Italy
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Chiara D'Attilia
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Laura Gazza ¹, Francesca Nocente ¹, Roberto Mancinelli ², Marta Naso ¹, Gaia Blandizzi ¹, Gabriele Chilosi ³, Laura Gazza ¹
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Julio Isidro y Sánchez, Alejandro Domínguez Rondón¹, Julián García-Abadillo¹, Ron Knox², Firdissa E. Bokore², Kerry Boyle³, Karim Ammar⁴, Julio Huerta-Espino⁵, Samia Berraies², Brad Meyer², Wentao Zhang³, Richard D. Cuthbert², Pierre Fobert³, Yuefeng Ruan^{2*}, Julio Isidro y Sánchez¹
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Barbara Laddomada¹, Elisabetta Cavalcanti², Samuela Palombieri³, Francesco Sestili³, Marcello Chieppa⁴, Angelo Santino¹
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3 Department of Agricultural and Forestry Sciences (DAFNE), University of Tuscia, Italy;
4 Department of Experimental Medicine (DIMES), University of Salento, Italy.
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Maneka Malalgoda¹, Mackenzie Ferguson¹, Doug Cattani², Bin Xiao Fu³
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2 Department of Plant Science, University of Manitoba, Winnipeg, MB, Canada
3 Canadian Grain Commission, University of Manitoba, Winnipeg, MB, Canada
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1 Distretto Produttivo Cereali Sicilia, Via Libertà 203, 90139 – Palermo
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Safa Oufensou^{1,2*}, Koumba Mai Kone³, Virgilio Balmas^{1,2}, Giampiera Porqueddu¹, Targo Simplicie Guehi⁴, Quirico Migheli^{1,2}
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3 National Polytechnic Institute Houphouët Boigny (INPHB), Yamoussoukro, Ivory Coast.
4 Department of Foods Sciences and Technology, University Nangui Abrogoua, Abidjan, Ivory Coast.
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Laura Pascual, Naima Bouabdellah¹, Joaquín Algorta¹, José Miguel Soriano^{2,3}, Magdalena Ruíz⁴, Patricia Giraldo¹
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Hélène Pidon¹, Valentin Ribaut¹, Matteo Bozzoli², Hélène Pidon¹, Véronique Viader¹, Michel Bonnefoy³, Morgane Ardisson¹, Sylvain Santonni¹, Faharidine Mohamadi³, Marco Maccaferri², Jacques David¹,

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3 – Arvalis – Institut Du Vegetal, France

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Rosa Ragone¹, Biagia Musio, ¹; Stefano Todisco ¹; Antonino Rizzuti ¹; Maria Trisolini ¹; Marica Antonicelli ¹; Mario Latronico ^{1, 2}; Piero Mastrorilli ^{1, 2}; Vito Gallo ^{1,2}.

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Dorra Sfayhi Terras¹, Abessi, B¹., Zarroug Y¹., Ben Youssef, S²., Sbei A¹., Romdhane, A²., Tissaoui S¹, Ouji, S¹., Ben wada, M¹., Omri Ben Youssef, N¹.

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Maria Trisolini¹, Agata Gadaleta³, Maurizio Triggiani^{1,2}, Stefano Todisco¹, Rosa Ragone¹, Antonino Rizzuti¹, Biagia Musio¹, Mario Latronico^{1,2}, Piero Mastrorilli^{1,2}, Ilaria Marcotuli³, Pasqualina Colasuonno³, Vito Gallo^{1,2}

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- **On foot:** 6 minutes (450 m.) passing through Via Sparano da Bari and Via Giuseppe Davanzati Forges
- **By Bus:** take Bus 04 direction Melo. Caduti via Fani – 2 Stops – 5 minutes
- **By Taxi:** 450 m. – duration 5 minutes

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