

FROM SEED TO PASTA 5

A SUSTAINABLE DURUM WHEAT CHAIN FOR FOOD SECURITY AND HEALTHY LIVES

BARI - ITALY, 24-27 SEPTEMBER 2025

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2 General Commission for Scientific Agricultural Research, Syria
3 International Center for Agriculture Research in Dry Areas, Rabbat
4 University of Bologna, Italy
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2 Universidad Científica del Sur, Carrera de Agroforesteria, Lima, Peru;
3 Universidad Nacional "Siglo XX", Dirección General de Investigación, Llallagua, Bolivia.
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1 University of Science and Technology (KAUST)
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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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(3) IRTA, Lleida, Spain
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1 CIMMYT-Mexico
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Marco Bonarrigo¹, Giulio Metelli¹, Bernardo Messina², Giuseppe Russo², Francesco Sestili¹, Stefania Masci¹
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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 Turgidum Spp.) Genotypes from Ethiopia**
Miheretu Fufa 1,2, Andargachew Gedebo 1, Tesfaye Letta 2, Dangachew Lule 2, and Anna Maria Mastrangelo 3
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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
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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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6 La Trobe Institute of Sustainable Agriculture and Food (LISAF), AgriBio, Australia
7 Institute of Biosciences and Bioresources, National Research Council (IBBR-CNR), Italy
- 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
1 Centre for Agricultural Research, HUN-REN, Martonvásár, Hungary
2 University of Bari „Aldo Moro”, Italy
- 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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Jang Bahadur Singh¹, Rahul Gajghate¹, Amit Gautam², Shiv Kumar Agrawal³, and Filippo Bassi⁴
1 Scientist, ICAR-Indian Agricultural Research Institute, Regional Station, Indore, India
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

Maria Ali ¹ Ali Missaoui ¹², Uttam Saha ³, Benjamin Lopez ¹, Steve Sutton ¹, Mohamed Mergoum ^{12*}

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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.

Marcela Opazo ¹, Christian Alfaro ¹, Jereline Cardenas ³, Ivan Matus ², Dalma Castillo ²

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2 INIA Quilamapu

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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;
3. International Maize and Wheat Improvement Centre, CIMMYT, El Batían, Mexico
- 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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- P. 66 Novel k-mer based genomic tools enable rapid discovery of crop wild relative introgressions, uncovering a novel loci for Hessian Fly resistance.**
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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3International Maize and Wheat Improvement Center (CIMMYT), Mexico, D.F., Mexico

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. 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, Luigi Cattivelli⁵

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P. 86 Screening of durum wheat ancient genotypes reaction to Pyrenophora tritici- repentis

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 Visoni¹, Miguel Sanchez-Garcia¹, Zakaria Kehel¹, Amadou Tidiane Sall³, Rola El Amil⁴, Wasihun Lagesse⁵, Kachalla Mala⁶, Hajer Ben Ghanem⁷, Benjamin Kilian⁸, and Filippo M. Bassi¹

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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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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

Maria Lia Di Romana 1, Carla Ceoloni 1

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

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Anna Maria Mastrangelo 1, María Dolores Requena-Ramírez^{1,9}, Elisabetta Mazzucotelli¹, Daniela Marone², Sherif Ragab Mohamed El-Areed³, Omar Idrissi⁴, Ali Amamou⁴, Laila Satia⁴, Aziz Baidani⁵, Esra Çakır⁶, Hakan Ozkan⁶, Pasquale Garofalo⁷, Alessandro Vittorio Vonella⁷, Muhammad Awais Farooq⁸, Xinying Zeng⁸, Matteo Bozzoli⁸, Antonia Mores², Giuseppe Petruzzino², Valentina Giovanniello², Sergio G. Atienza⁹, Ilaria Marcotuli¹⁰, Agata Gadaleta¹⁰, Marco Maccaferri⁸, Luigi Cattivelli¹

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Antonia Mores 1, Ilaria Marcotuli 1, Pasqualina Colasuonno 1, Stefania Lucia Giove 1, Agata Gadaleta 1

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Francesca Orlando (1), Chiara D'Attilia (1), Valentina Bigini (1), Francesco Sestili (1), Fabio D'Orso (2), Daniel Valentin Savatin (1)
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1: Université de Tours
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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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2- Faculty of Sciences and Techniques of Mohammedia, University Hassan II of Casablanca, Morocco
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Department for Innovation in Biological, Agrofood, and Forestry Systems (DIBAF), University of Tuscia, Viterbo, Italy
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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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Maneka Malalgoda¹, Mackenzie Ferguson¹, Doug Cattani², Bin Xiao Fu³
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2 Department of Plant Science, University of Manitoba, Winnipeg, MB, Canada
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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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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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