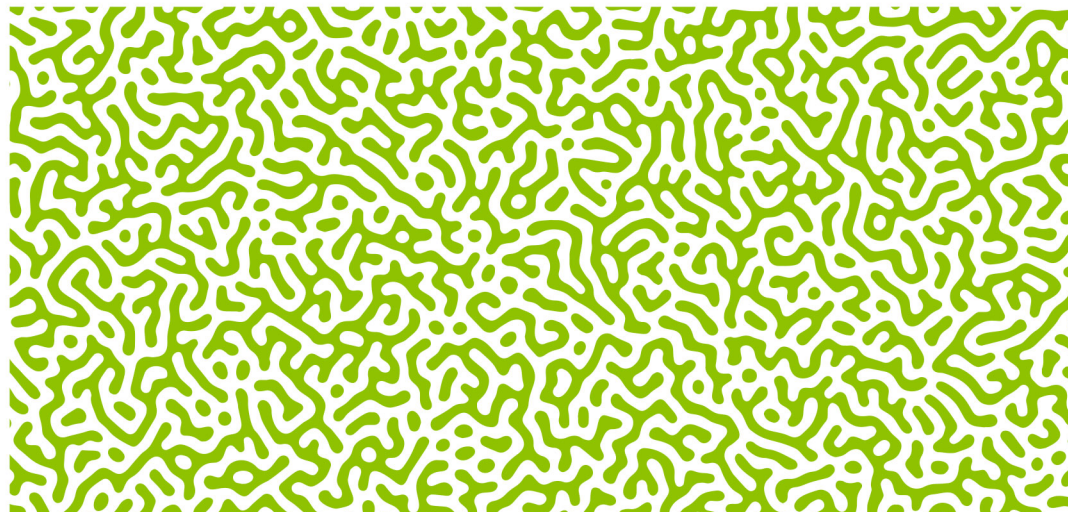




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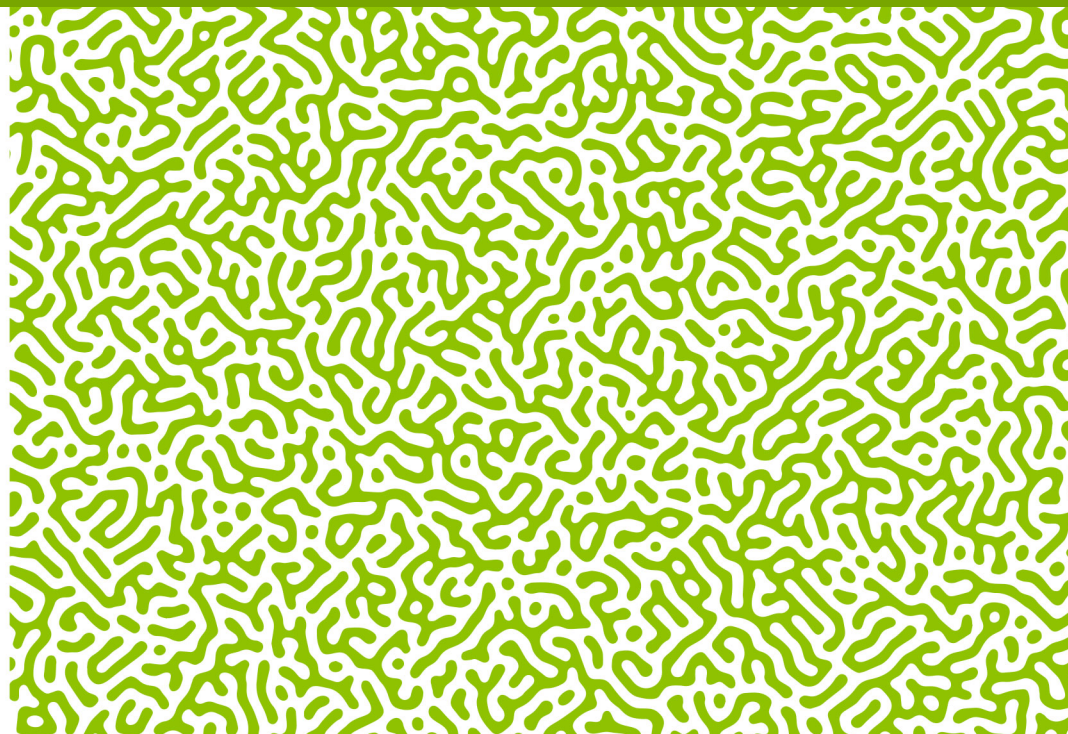
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## ELENCO DELLE PUBBLICAZIONI SAVEGRAINPUGLIA 2015-2021



Recupero, caratterizzazione, salvaguardia e valorizzazione di  
leguminose e cereali da granella e foraggio in Puglia



**PIROVANO W., MIOZZI L., BOETZER M., PANTALEO V., 2015.**  
Bioinformatics approaches for viral metagenomics in plants using short RNAs: model case of study and application to a *Cicer arietinum* population. *Frontiers in microbiology*, 5, 790.  
<https://doi.org/10.3389/fmicb.2014.00790>

frontiers in  
**MICROBIOLOGY**

ORIGINAL RESEARCH ARTICLE  
published: 27 January 2015  
doi: 10.3389/fmicb.2014.00790



Bioinformatics approaches for viral metagenomics in plants using short RNAs: model case of study and application to a *Cicer arietinum* population

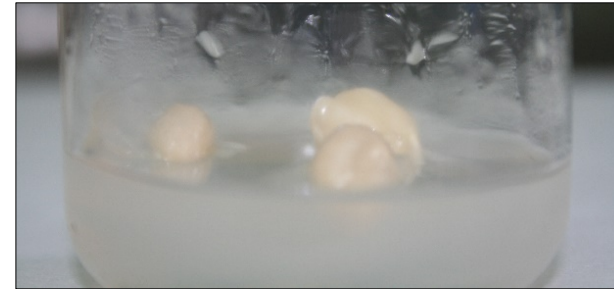
Walter Pirovano<sup>1\*</sup>, Laura Miozzi<sup>2</sup>, Marten Boetzer<sup>1</sup> and Vitantonio Pantaleo<sup>2\*</sup>

<sup>1</sup> Genome Analysis and Technology Department, BaseClear B. V., Leiden, Netherlands

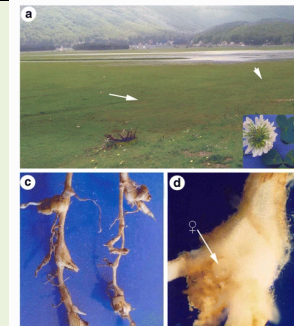
<sup>2</sup> Institute for Sustainable Plant Protection of National Research Council, Torino, Italy

<sup>3</sup> Institute for Sustainable Plant Protection of National Research Council, Bari Research Unit, Bari, Italy

**RUTA C., CAMPANELLI A., TAGARELLI A., DE MASTRO G., VANCINI C., 2015.** An efficient in vitro propagation for faba bean (*Vicia faba* L.) ecotypes. *Acta Horticulturae* 1155, 107-112.  
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**VOVLAS N., VOVLAS A., LEONETTI P., LIÉBANAS G., CASTILLO P., SUBBOTIN S. A., RIUS J.E.P., 2015.** Parasitism effects on white clover by root-knot and cyst nematodes and molecular separation of *Heterodera daverti* from *H. trifolii*. *European journal of Plant Pathology*, 143, 833-845. <https://doi.org/10.1007/s10658-015-0735-3>



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<https://doi.org/10.1534/g3.115.026021>



**Depletion of tyrosyl-DNA phosphodiesterase 1 $\alpha$  (*MtTdp1 $\alpha$* ) affects transposon expression in *Medicago truncatula***

Maria Elisa Sabatini, Mattia Donà, Paola Leonetti, Andrea Minio, Massimo Delledonne, Daniela Carbonera, Massimo Confalonieri, Giorgio Giraffa, Alma Balestrazzi ✉

**SABATINI M.E., DONÀ M., LEONETTI P., MINIO A., DELLEDONNE M., CARBONERA D., CONFALONIERI M., GIRAFFA G., BALESTRAZZI A., 2016.** Depletion of tyrosyl-DNA phosphodiesterase 1 $\alpha$  (*MtTdp1 $\alpha$* ) affects transposon expression in *Medicago truncatula*. *Journal of Integrative Plant Biology*, 58(7), 618-622. <https://doi.org/10.1111/jipb.12457>



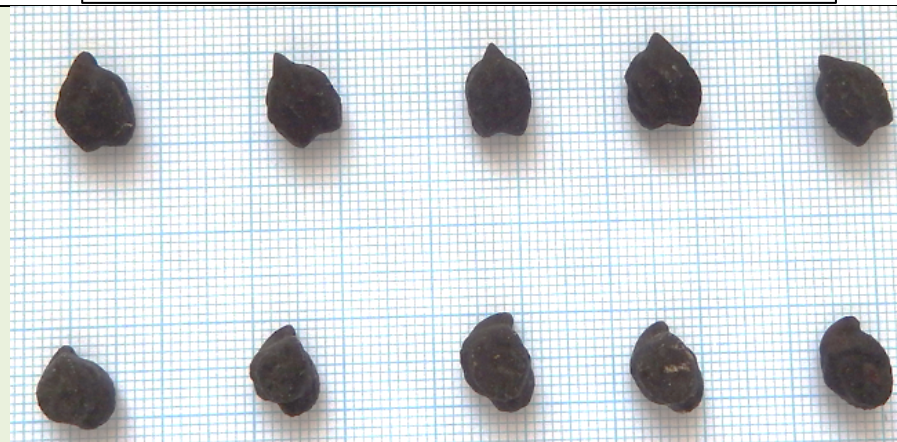
**Characterization of Aldehyde Oxidase (AO) Genes Involved in the Accumulation of Carotenoid Pigments in Wheat Grain**

Pasqualina Colasuonno<sup>1\*</sup>, Ilaria Marcotuli<sup>1</sup>, Maria L. Lozito<sup>2</sup>, Rosanna Simeone<sup>2</sup>, Antonio Blanco<sup>2</sup> and Agata Gadaleta<sup>1\*</sup>

<sup>1</sup> Department of Agricultural and Environmental Science, University of Bari Aldo Moro, Bari, Italy; <sup>2</sup> Department of Soil, Plant and Food Sciences, University of Bari Aldo Moro, Bari, Italy

**COLASUONNO P., MARCOTULI I., LOZITO M. L., SIMEONE R., BLANCO A., GADALETA A., 2017.** Characterization of Aldehyde Oxidase (AO) Genes Involved in the Accumulation of Carotenoid Pigments in Wheat Grain. *Frontiers in Plant Science*, 8, 863. <https://doi.org/10.3389/fpls.2017.00863>

**DE GIOVANNI C., PAVAN S., TARANTO F., DI RIENZO V., MIAZZI M. M., MARCOTRIGIANO A. R., MANGINI G., MONTEMURRO C., RICCIARDI L., LOTTI C., 2017.** Genetic variation of a global germplasm collection of chickpea (*Cicer arietinum* L.) including Italian accessions at risk of genetic erosion. *Physiology and Molecular Biology of Plants*, 23(1), 197-205. <https://doi.org/10.1007/s12298-016-0397-4>



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**MARGIOTTA B., LAGHETTI G., PIERGIOVANNI A.R., ET AL., 2017.** In Puglia la valorizzazione di leguminose, cereali e foraggere. *Terra e Vita*, anno LVIII n. 25, 28 agosto 2017, pg. 83-85.




**NIGRO D., FORTUNATO S., GIOVE S., MANGINI G., YACOUBI I., SIMEONE R., BLANCO A., GADALETA A., 2017.** Allelic variants of glutamine synthetase and glutamate synthase genes in a collection of durum wheat and association with grain protein content. *Diversity*, 9(4), 52. <https://doi.org/10.3390/d9040052>



**NIGRO D., LADDOMADA B., MITA G., BLANCO E., COLASUONNO P., SIMEONE R., GADALETA A., PASQUALONE A., BLANCO A., 2017.** Genome-wide association mapping of phenolic acids in tetraploid wheats. *Journal of Cereal Science*, 75, 25-34. <https://doi.org/10.1016/j.jcs.2017.01.022>



**Journal of Cereal Science**  
Volume 75, May 2017, Pages 25-34

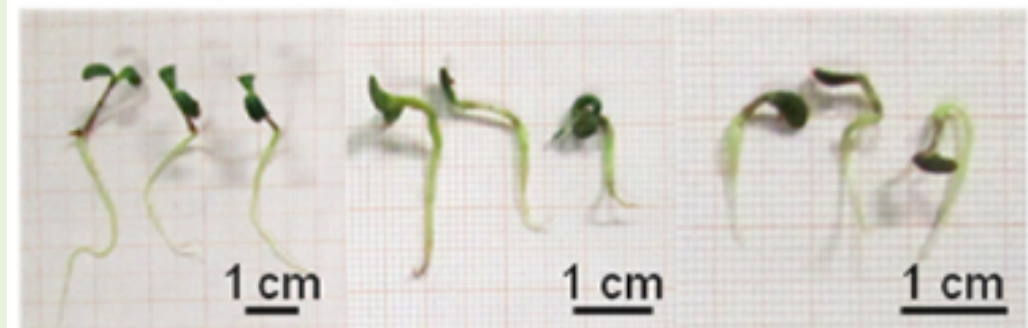


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**Genome-wide association mapping of phenolic acids in tetraploid wheats**

Domenica Nigro <sup>a</sup>, Barbara Laddomada <sup>b</sup>, Giovanni Mita <sup>b</sup>, Emanuela Blanco <sup>c</sup>, Pasqualina Colasuonno <sup>d</sup>, Rosanna Simeone <sup>a</sup>, Agata Gadaleta <sup>d</sup>, Antonella Pasqualone <sup>e</sup>, Antonio Blanco <sup>a</sup> ✉

**PAGANO A., ARAÚJO S.D.S., MACOVEI A., LEONETTI P., BALESTRAZZI A., 2017.** The seed repair response during germination: Disclosing correlations between DNA repair, antioxidant response, and chromatin remodeling in *Medicago truncatula*. *Frontiers in Plant Science*, 8, 1972. <https://doi.org/10.3389/fpls.2017.01972>



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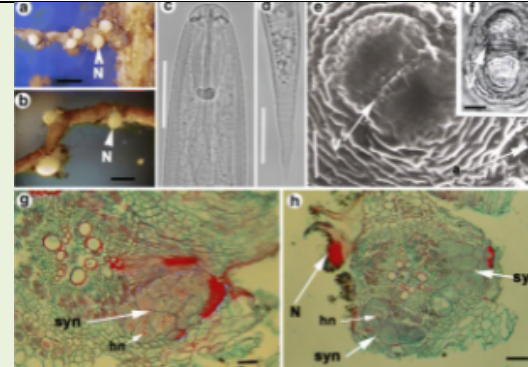
  
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PAVAN S., LOTTI C., MARCOTRIGIANO A. R., MAZZEO R., BARDARO N., BRACUTO V., RICCIARDI F., TARANTO F., D'AGOSTINO N., SCHIAVULLI A., DE GIOVANNI C., MONTEMURRO C., SONNANTE G., RICCIARDI L., 2017. A distinct genetic cluster in cultivated chickpea as revealed by genome-wide marker discovery and genotyping. *The Plant Genome* 10, 2016-11. <https://doi.org/10.3835/plantgenome2016.11.0115>



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PIERGIOVANNI A.R., LAGHETTI G., MARGIOTTA B. (a cura di) 2017. Leguminose, cereali, foraggere di Puglia. Fonti storiche, Tipolito Vitetum snc, pp. 1-154 (ISBN 978-88-906303-2-3).



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**PERTERMANN R., TAMILARASAN S., GURSINSKY T., GAMBINO G., SCHUCK J., WEINHOLDT C., LILIE H., GROSSE I., GOLBIK R.P., PANTALEO V., BEHRENS S.E., 2018.** A Viral Suppressor Modulates the Plant Immune Response Early in Infection by Regulating MicroRNA Activity. *MBio*, 9(2).

<https://doi.org/10.1128/mBio.00419-18>



RESEARCH ARTICLE



## A Viral Suppressor Modulates the Plant Immune Response Early in Infection by Regulating MicroRNA Activity

Robert Pertermann,<sup>a</sup> Selvaraj Tamilarasan,<sup>a</sup> Torsten Gursinsky,<sup>a</sup> Giorgio Gambino,<sup>b</sup> Jana Schuck,<sup>a</sup> Claus Weinholt,<sup>c</sup> Hauke Lilie,<sup>a</sup> Ivo Grosse,<sup>c</sup> Ralph Peter Golbik,<sup>a</sup> Vitantonio Pantaleo,<sup>d</sup> Sven-Erik Behrens<sup>a</sup>

<sup>a</sup>Institute of Biochemistry and Biotechnology, Martin Luther University Halle-Wittenberg, Halle/Saale, Germany

<sup>b</sup>Institute for Sustainable Plant Protection-Consiglio Nazionale delle Ricerche, Turin, Italy

<sup>c</sup>Institute of Informatics, Martin Luther University Halle-Wittenberg, Halle/Saale, Germany

<sup>d</sup>Institute for Sustainable Plant Protection-Consiglio Nazionale delle Ricerche, Research Unit of Bari, Bari, Italy

**CHIUMENTI M., CATACCIO C. R., MIOZZI L., PIROVANO W., VENTURA M., PANTALEO V., 2018.** A Short Indel-Lacking-Resistance Gene Triggers Silencing of the Photosynthetic Machinery Components Through TYLCSV-Associated Endogenous siRNAs in Tomato. *Frontiers in Plant Science*, 9, 1470.

<https://doi.org/10.3389/fpls.2018.01470>



ORIGINAL RESEARCH  
published: 11 October 2018  
doi: 10.3389/fpls.2018.01470



## A Short Indel-Lacking-Resistance Gene Triggers Silencing of the Photosynthetic Machinery Components Through TYLCSV-Associated Endogenous siRNAs in Tomato

Michela Chiumenti<sup>1\*</sup>, Claudia Rita Catacchio<sup>2†</sup>, Laura Miozzi<sup>2</sup>, Walter Pirovano<sup>4</sup>, Mario Ventura<sup>2</sup> and Vitantonio Pantaleo<sup>1\*</sup>

<sup>1</sup>Institute for Sustainable Plant Protection of the National Research Council, Research Unit of Bari, Bari, Italy; <sup>2</sup>Dipartimento di Biologia, Università degli Studi di Bari Aldo Moro, Bari, Italy; <sup>3</sup>Institute for Sustainable Plant Protection of the National Research Council, Research Unit of Turin, Turin, Italy; <sup>4</sup>BiosClear B.V., Leliden, Netherlands

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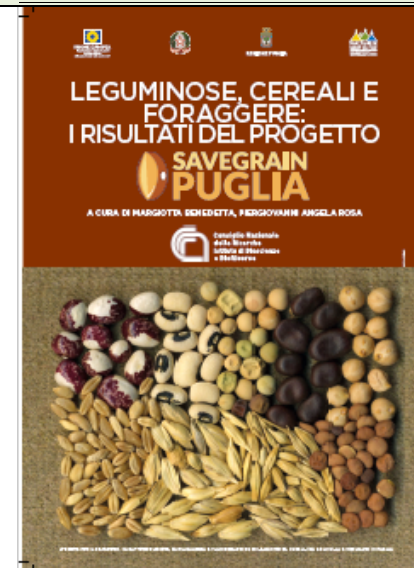
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**FRACCHIOLLA, M., LASORELLA, C., LAUDADIO, V., CAZZATO E., 2018.** *Trifolium mutabile* as New Species of Annual Legume for Mediterranean Climate Zone: First Evidences on Forage Biomass, Nitrogen Fixation and Nutritional Characteristics of Different Accessions. *Agriculture*, 8, 113.  
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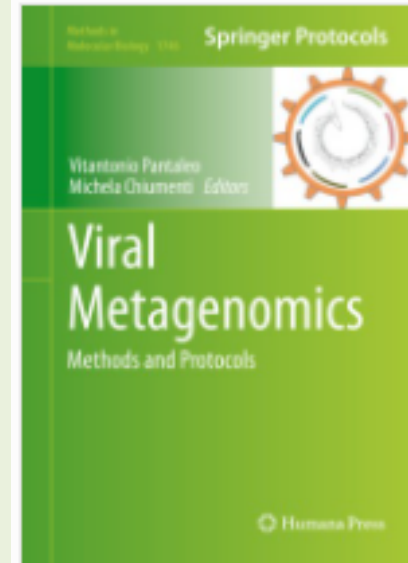
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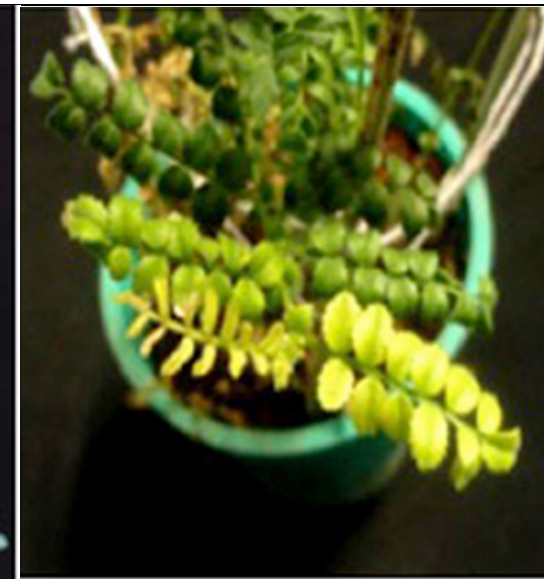
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**LEONETTI P., ACCOTTO G. P., HANAFY M.S., PANTALEO V., 2018.**  
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**2018.** Leguminose, cereali e foraggere: un catalogo della  
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**DE DOMENICO S., TAURINO M., GALLO A., POLTRONIERI P.,  
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*Medicago truncatula* in response to salt and wounding stresses.  
*Physiologia plantarum*, 165(2), 198-208.  
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**MARCOTULI I., COLASUONNO P., CUTILLO S., SIMEONE R., BLANCO A., GADALETA A., 2019.**  $\beta$ -glucan content in a panel of *Triticum* and *Aegilops* genotypes. *Genetic Resources and Crop Evolution*, 66, 897-907. <https://doi.org/10.1007/s10722-019-00753-1>

Genet Resour Crop Evol (2019) 66:897–907  
<https://doi.org/10.1007/s10722-019-00753-1>



RESEARCH ARTICLE

**$\beta$ -glucan content in a panel of *Triticum* and *Aegilops* genotypes**

Ilaria Marcotuli · Pasqualina Colasuonno · Silvia Cutillo · Rosanna Simeone · Antonio Blanco · Agata Gadaleta

**MOLINARI S., LEONETTI P., 2019.** Bio-control agents activate plant immune response and prime susceptible tomato against root-knot nematodes. *PLoS One*, 14 (12).  
<https://doi.org/10.1371/journal.pone.0213230>



RESEARCH ARTICLE

**Bio-control agents activate plant immune response and prime susceptible tomato against root-knot nematodes**

Sergio Molinari \*, Paola Leonetti

Institute for Sustainable Plant Protection, National Research Council of Italy (IPSP-CNR), Bari, Italy

**PIERGIOVANNI A. R., PROCINO G., CIFARELLI S., LIOI L., 2019.** Monti Dauni district (Apulia region, southern Italy): an environment promoting on farm conservation of common bean (*Phaseolus vulgaris* L.) landraces. *Genetic Resources and Crop Evolution*, 66(7), 1459-1468. <https://doi.org/10.1007/s10722-019-00810-9>



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**TARANTO F., D'AGOSTINO N., RODRIGUEZ M., PAVAN S., MINERVINI A.P., PECCHIONI N., PAPA R., DE VITA P., 2020.** Whole genome scan reveals molecular signatures of divergence and selection related to important traits in durum wheat germplasm. *Frontiers in Genetics*, 11, 217. <https://doi.org/10.3389/fgene.2020.00217>

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doi: 10.3389/fgene.2020.00217

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## Whole Genome Scan Reveals Molecular Signatures of Divergence and Selection Related to Important Traits in Durum Wheat Germplasm

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Francesca Taranto<sup>1†</sup>, Nunzio D'Agostino<sup>2†</sup>, Monica Rodriguez<sup>3,4</sup>, Stefano Pavan<sup>5</sup>, Anna P. Minervini<sup>1</sup>, Nicola Pecchioni<sup>1</sup>, Roberto Papa<sup>6</sup> and Pasquale De Vita<sup>1\*</sup>

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