

PERSONAL INFORMATION

Daniele Rosellini



Daniele.rosellini@unipg.it



www.unipg.it/pagina-personale?matricola=003807

WORK EXPERIENCE

2016 -2021	President, MSc course in Agricultural and Environmental Biotechnology
2013-2016	Coordinator, PhD Course in Plant Biology and Agro-Environmental Biotechnology, University of Perugia, Italy
2004 to present	Associate Professor, Agricultural genetics and Biotechnology, University of Perugia, Italy
1991-2004	Research Scientist, Agricultural genetics, University of Perugia, Italy
1990-1991	Research Scientist, Istituto Sperimentale per le Colture Industriali, Ministry of Agricultural Policies, Bologna, Italy

EDUCATION AND TRAINING

1986-1989	Ph.D. in Agricultural productivity, University of Perugia, Italy
1981-1986	MSc Degree in Agricultural Sciences, University of Perugia, Italy, (<i>Magna cum laude</i>)

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

English

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
C1	C1	C1	C1	C1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills Very good communication skills gained through my long teaching experience

Organisational / managerial skills

Principal investigator: leadership of small research groups
 2016 -2021: President of MSc course in Agricultural Biotechnology.
 Coordinator of the PhD Course in Plant Biology and Agro-Environmental Biotechnology, University of Perugia, Italy
 2019 to present: Secretary, Italian Society of Agricultural Genetics.
 Served in the Board of the Italian Society of Agricultural Genetics.
 Organisation of yearly summer schools for PhD students at national level from 2013 to 2019.
 Organisation of national and international scientific conferences.
 Served as the secretary of the International Herbage Seed Group.
 Served in the board of Eucarpia Forage Section as the representative for Italy.
 Serves as the reference person for the inclusion services for students with disability and learning disorders of the University of Perugia (2021 to present).

Job-related skills

- DNA and RNA analysis, genetic engineering techniques, Plant tissue culture, In silico DNA analysis;
- Teaching Agricultural genetics, Plant breeding and Plant biotechnology.

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving

Independent user	Independent user	Independent user	Independent user	Independent user
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Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

Other skills ▪ Paragliding licence

Driving licence B

ADDITIONAL INFORMATION

SELECTED PUBLICATIONS (2010 to present)

- Lorenzetti F, Albertini E, Ceccarelli S, Rosellini D, Veronesi F. (2023) *Genetica Agraria – Genetica e biotecnologie per l'agricoltura*. V Edizione. Patron, Bologna
- Falisticco E, Marconi G, Raggi L, Ceccarelli M, Rosellini D, Albertini E. 2022. Variation of microsporogenesis in sexual, apomictic and recombinant plants of *Poa pratensis* L. *Caryologia*, 74:135–143. <https://doi.org/10.36253/caryologia-1375>
- Sassolini A, Vagnini M, Aiello D, Bocchini M, Raggi L, Veronesi F, Rosellini D, Albertini E. 2020. Molecular tracing of the biological origin of drying oils used in works of art. *International Journal of Conservation Science* 11:381-392
- Marconi G, Landucci F, Venanzoni R, Rosellini D, Albertini E. 2019. DNA Barcoding as a tool for early warning and monitoring alien duckweeds *Lemna* sp.pl.): the case of Central Italy. *Plant Biosystems* 153: 660-668 doi:10.1080/11263504.2018.1536087
- Bellucci M, DeMarchis F, Pompa A, Micheli M, Gardi T, Rosellini D. 2019. Transfer of a mutant plant glutamate 1-semialdehyde aminotransferase gene from the nuclear to the plastid genome confers gabaculine resistance in tobacco. *Plant Cell Tissue Organ Culture* 137:411-416 doi 10.1007/s11240-019-01566-x
- Ceccobelli S, Ciancaleoni S, Lancioni H, Veronesi F, Albertini E, Rosellini D. 2019. Genetic distinctiveness of a Protected Geographic Indication lentil landrace from the region of Umbria, Italy, over 20 years. *Genetic Resources and Crop Evolution*, 66:1483–1493
- Nicolia A, Ferradini N, Veronesi F, Rosellini D. 2017. An insight into T-DNA integration events in *Medicago sativa*. *Int J Mol Sci*, 18, 1951. doi:10.3390/ijms18091951.
- Rosellini D (2017) Genetic engineering for crop yield. In Pilu R, Gavazzi G (Ed) *More food – Road to survival*. Bentham Books, pp. 399-414.
- Gürel F, Öztürk ZN, Uçarlı C, Rosellini D (2016) Barley Genes as Tools to Confer Abiotic Stress Tolerance in Crops. *Front. Plant Sci.* 7:1137. doi: 10.3389/fpls.2016.01137
- Rosellini D, Ferradini N, Allegrucci S, Capomaccio S, Zago ED, Leonetti P, Balech B, Aversano R, Carputo D, Reale L, Veronesi F (2016) Sexual polyploidization in *Medicago sativa* L.: impact on the phenotype, gene transcription and genome methylation. *G3 – Genes Genomes Genetics* 6:925-938 doi: 10.1534/g3.115.026021
- Ferradini N, Giancaspro A, Nicolia A, Gadaleta A, Veronesi F, Rosellini D (2015) Efficient, antibiotic marker-free transformation of a dicot and a monocot crop with glutamate 1-semialdehyde Aminotransferase selectable marker genes. In: *Recombinant proteins from plants. Methods and protocols*. Vol. 1385 of Series: *Methods Molecular Biology*. Menassa R, Kolotilin I, McDonald J (Eds). Springer Science, New York. ISBN : 978-1-4939-3288-7
- Bellucci M, De Marchis F, Ferradini N, Pompa A, Veronesi F, Rosellini D (2015) A mutant *Synechococcus* gene encoding glutamate 1-semialdehyde aminotransferase confers gabaculine resistance when expressed in tobacco plastids. *Plant cell Reports* 34:2127–2136 doi: 10.1007/s00299-015-1856-z
- Faralli M, Lektemur C, Rosellini D, Gürel F (2015) Effects of heat shock on salinity tolerance in barley (*Hordeum vulgare* L.): plant growth and stress-related gene transcription. *Biologia Plantarum*, in press.
- Ferradini N, Iannacone R, Capomaccio S, Metelli A, Armentano N, Semeraro L, Cellini F, Veronesi F, Rosellini D (2015) Assessment of Heat Shock Protein 70 Induction by Heat in Alfalfa Varieties and Constitutive Overexpression in Transgenic Plants. *Plos One* 10(5): e0126051. doi:10.1371/journal.pone.0126051.
- Milner SG, Ferradini N, Nicolia A, Veronesi F, Salvi S, Rosellini D (2014) Copy number of a plant-derived selectable marker gene estimated by high resolution melting analysis: a tool to simplify transgenic plant breeding. *Crop Science* 54:1133-1138.
- Nicolia A, Ferradini N, Molla G, Biagetti E, Pollegioni L, Veronesi F, Rosellini D (2014) Expression of an Evolved Engineered Variant of a Bacterial Glycine Oxidase Leads to Glyphosate Resistance in Alfalfa. *Journal of Biotechnology* 184: 201–208. doi:10.1016/j.jbiotec.2014.05.020.
- Nicolia A, Veronesi F, Rosellini D (2013) An overview of the last ten years of GE crop safety research. *Critical reviews in biotechnology* <http://informahealthcare.com/doi/abs/10.3109/07388551.2013.823595>
- Rosellini D. (2012) Selectable markers and reporter genes: a well furnished toolbox for plant science and genetic engineering. *Critical reviews in Plant Science* 31:401–453. DOI: 10.1080/07352689.2012.683373
- Giancaspro A, Rosellini D, Blanco A, Gadaleta A (2012) Gabaculine selection using bacterial and plant marker genes (GSA-AT) in durum wheat transformation. *Plant Cell Tissue Organ Culture* 109:447–455. DOI 10.1007/s11240-011-0109-2.
- Aversano R, Ercolano MR, Caruso I, Fasano C, Rosellini D, Carputo D (2012) Molecular tools for exploring polyploid genomes in plants. *Int. J. Mol. Sci.* 13, 10316-10335; DOI: 10.3390/ijms130810316

- Aversano R, Capomaccio S, Carputo D, Veronesi F, Rosellini D (2012) Variation of DNA methylation and phenotypic traits following unilateral sexual polyploidization in *Medicago*. *Euphytica* 186:731–739. DOI: 10.1007/s10681-011-0571-2
- Lorenzetti F, Albertini E, Ceccarelli S, Rosellini D, Veronesi F. (2023) *Genetica Agraria – Genetica e biotecnologie per l'agricoltura*. Patron, Bologna
- Falisticco, E., Marconi, G., Raggi, L., Rosellini, D., Ceccarelli, M., & Albertini, E. (2021). Variation of microsporogenesis in sexual, apomictic and recombinant plants of *Poa pratensis* L. *Caryologia*, 74(4), 135–143. <https://doi.org/10.36253/caryologia-1375>
- Sassolini A, Vagnini M, Aiello D, Bocchini M, Raggi L, Veronesi F, Rosellini D, Albertini E. 2020. Molecular tracing of the biological origin of drying oils used in works of art. *International Journal of Conservation Science* 11:381-392.
- Ceccobelli S, Ciancaleoni S, Lancioni H, Veronesi F, Albertini E, Rosellini D. 2019. Genetic distinctiveness of a Protected Geographic Indication lentil landrace from the region of Umbria, Italy, over 20 years. *Genetic Resources and Crop Evolution*, 66:1483–1493
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- Marconi G, Landucci F, Venanzoni R, Rosellini D, Albertini E. 2019. DNA Barcoding as a tool for early warning and monitoring alien duckweeds *Lemna* sp.pl.): the case of Central Italy. *Plant Biosystems* 153: 660-668 doi:10.1080/11263504.2018.1536087
- Lorenzetti F, Albertini E, Frusciante L, Rosellini D, Russi L, Tuberosa R, Veronesi F (2018) *Miglioramento genetico delle piante agrarie*. Edagricole, Bologna.
- Nicolia A, Ferradini N, Veronesi F, Rosellini D (2017) An insight into T-DNA integration events in *Medicago sativa*. *International Journal of Molecular Sciences* 18, 1951; doi:10.3390/ijms18091951
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- Ferradini N, Iannacone R, Capomaccio S, Metelli A, Armentano N, Semeraro L, Cellini F, Veronesi F, Rosellini D (2015) Assessment of Heat Shock Protein 70 induction by heat in alfalfa varieties and constitutive overexpression in transgenic plants. *PLoS ONE* 10(5): e0126051. doi:10.1371/journal.pone.0126051
- Faralli M, Lektemur C, Rosellini D, Gürel F (2015) Effects of heat shock on salinity tolerance in barley (*Hordeum vulgare* L.): plant growth and stress-related gene transcription. *Biologia Plantarum* 59: 537-546. doi: 10.1007/s10535-015-0518-x
- Nicolia A, Ferradini N, Molla G, Biagetti E, Pollegioni L, Veronesi F, Rosellini D (2014) Expression of an evolved engineered variant of a bacterial glycine oxidase leads to glyphosate resistance in alfalfa. *Journal of Biotechnology* 184: 201–208. doi:10.1016/j.jbiotec.2014.05.020
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- Nicolia A, Ferradini N, Biagetti E, Pedotti M, Molla G, Pollegioni L, Rosellini D. 2011. Expression of a mutated glycine oxidase gene for glyphosate resistance in alfalfa. *Minerva Biotecnologica* 23 – Suppl. 1 No. 2, pp 56–58
- Rosellini D (2011) Selectable marker genes from plants: reliability and potential. *In Vitro Cell. Devel. Biol.-Plant* (invited review) 47:222-233 DOI: 10.1007/s11627-011-9348-5
- Ferradini N, Nicolia A, Capomaccio S, Veronesi F, Rosellini D (2011) Assessment of simple marker-free genetic transformation techniques in alfalfa. *Plant Cell Reports* 30:1991-2000 DOI: 10.1007/s00299-011-1107-x
- Ferradini N, Nicolia A, Capomaccio S, Veronesi F, Rosellini D (2011) A point mutation in the *Medicago sativa* GSA gene provides a novel, efficient, selectable marker for plant genetic engineering. *J. Biotechnol.* 146:147-152. DOI: 10.1016/j.jbiotec.2011.08.015
- Kölliker R, Rosellini D, Wang Z-Y (2010) Development and application of biotechnological and molecular genetic tools. In: Boller B, Posselt U, Veronesi F (Eds) *Fodder crops and amenity grasses*, Vol. 5 in the Series: *Handbook of Plant Breeding*. Springer Science, pp. 89-113. ISBN: 978-1-4419-0759-2. DOI 10.1007/978-1-4419-8_17



Curriculum Vitae

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