

Curriculum vitae et studiorum

Sara Zenoni, PhD

Place of birth: Verona, Italy.

Date of birth: 19 December, 1975.

Present position: Assistant Professor of Plant Genetics, University of Verona, Italy
Laboratory of Plant Genetics
Department of Biotechnology, University of Verona
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Website:

Research Main Topics:

- i) Fruit development system, mainly genetic control of the transition from the vegetative to mature phase in *Vitis vinifera* berry;
- ii) Transcriptome analysis by means of mRNA profiling and NGS technologies, gene expression studies, aimed to describe molecular responses against environmental stress and growth conditions in grapevine;
- iii) Functional studies of candidate transcription factors involved in the control of secondary metabolite accumulation during fruit ripening for the development of biotechnological processes to improve agricultural plants;
- iv) Functional studies of candidate transcription factors involved in the control of seed development in table grapes;
- v) Analysis of cell wall polymer dynamics in berry during ripening and senescence phase.

Education

2000 M.Sc. in Agro-Industrial Biotechnology with Magna cum Laude, University of Verona, Italy.

2004 Ph.D. in Gene function characterization in Petunia system, University of Verona, Italy.

Postdoctoral Research Training

2004 – 2008 Post Doctoral Fellow in Crops genetics and transcriptomic analysis, University of Verona, Italy.

Faculty Positions:

2008 – present Researcher, University of Verona, Italy.

University Accomplishments:

2010 – 2014 Member of the teaching staff body of the PhD in Applied Biotechnology of the School of Science, Engineering and Medicine, University of Verona, Italy.

2017 – present Member of the teaching staff body of the PhD in Biotechnology of the School of Natural Science and Engineering, University of Verona, Italy.

Teaching Activities:

2014 – present Plant genetics and breeding in the Bachelor's degree in Viticultural and Oenological Science and Technology

2014 – present Grape Biotechnology and Genomics in the Bachelor's degree in Viticultural and Oenological Science and Technology

Selected Research Funding and Projects:

In the last 10 years, scientific collaborations have been developed and maintained with several Italian, European and American groups (coauthors of scientific publications).

Among the research programs coordinated, it is worth mentioning several Projects of Relevant National Interest funded by the Ministry of University and Research, and several Joint projects with national and international companies involved in different industry sectors funded by the University of Verona, Italy.

Selected/Invited Talks and Seminars:

In the last decade of academic placement, she has carried out seminar activities, both in domestic meetings and foreign countries. In particular, selected oral communications have been given in national and international conferences (*e.g.*, Annual Congress of the Italian Society of Agriculture Genetics, International Symposium on Grapevine Physiology and Biotechnology, Microvine, etc.).

Publications:

She published more than 50 *in extenso* articles (35 and 46 records are available in both the Web of Science and Scopus databases, respectively, and 38 records in the NCBI PubMed database).

A – Scientific publications in international, peer-reviewed journals:

41 papers of which 13 (30%) as first or last author, and/or corresponding author.

B – Books and Book Chapters

2 book chapters.

C – Citations and Scientific production statistics

1.461 citations with H-index=20 in Scopus.

Last Publications (2017-2018):

Dal Santo S, Zenoni S, Sandri M, De Lorenzis G, Magris G, De Paoli E, Di Gaspero G, Del Fabbro C, Morgante M, Brancadoro L, Grossi D, Fasoli M, Zuccolotto P, Tornielli GB, Pezzotti M. (2018). Grapevine field experiments reveal the contribution of genotype, the influence of environment and the effect of their interaction (GxE) on berry transcriptome. *Plant J.* 2018 Jan 30. DOI: 10.1111/tbj.13834 [Epub ahead of print]

Pastore, C, Dal Santo, S, Zenoni, S, Allegro, G, Valentini, G, Tornielli, G.B, Filippetti, I. (2017). Changes in flavonoid biosynthesis and in the berry whole transcriptome of 'Sangiovese' under moderate air temperature increase. *Acta Horticulturae*, Vol. 1188: 157-164 (10.17660/ActaHortic.2017.1188.21).

Zamboni, A., Celletti, S., Zenoni, S., Astolfi, S., Varanini, Z. (2017). Root physiological and transcriptional response to single and combined S and Fe deficiency in durum wheat. *Environmental and Experimental Botany*, Vol. 143: 172-184 (DOI: 10.1016/j.envexpbot.2017.09.002).

Pastore, C., Movahed, N., Allegro, G., Valentini, G., Zenoni, S., Dal Santo, S., Tornielli, G.B., Filippetti, I. (2017). Phenolic contents and genome-wide expression profiling of grapevine berries (*Vitis vinifera* L. 'Sangiovese') ripened under two different temperature regimes. *Acta Horticulturae*, Vol. 1172: 289-294 (DOI: 10.17660/ActaHortic.2017.1172.55).

Massonnet M., Fasoli M., Tornielli G.B., Altieri M., Sandri M., Zuccolotto P., Paci P., Gardiman M., Zenoni S., Pezzotti M. (2017). Ripening Transcriptomic Program in Red and White Grapevine Varieties Correlates with Berry Skin Anthocyanin Accumulation. *Plant Physiol.*, 174(4): 2376-2396 (DOI: 10.1104/pp.17.00311).

Pastore C., Dal Santo S., Zenoni S., Movahed N., Allegro G., Valentini G., Filippetti I., Tornielli G.B. (2017). Whole plant temperature manipulation affects flavonoid metabolism and the transcriptome of grapevine berries. *Front. Plant Sci.*, 8: 929 (DOI: 10.3389/fpls.2017.00929).

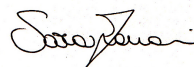
Zenoni S., Dal Santo S., Tornielli G.B., D'Incà E., Filippetti I., Pastore C., Allegro G., Silvestroni O., Lanari V., Pisciotta A., Di Lorenzo R., Palliotti A., Tombesi S., Gatti M., Poni S. (2017). Transcriptional responses to pre-flowering leaf defoliation in grapevine berry from different growing sites, years, and genotypes. *Front. Plant Sci.*, 8: 630 (DOI: 10.3389/fpls.2017.00630).

Galla G., Zenoni S., Avesani L., Altschmied L., Rizzo P., Sharbel T.F., Barcaccia G. (2017). Pistil transcriptome analysis to disclose genes and gene products related to aposporous apomixis in *Hypericum perforatum* L. *Front. Plant Sci.* 8: 79 (DOI: 10.3389/fpls.2017.00079 PMID: 28203244).

Amato A., Cavallini E., Zenoni S., Finezzo L., Begheldo M., Ruperti B., Tornielli G.B. (2017). A grapevine TTG2-Like WRKY transcription factor is involved in regulating vacuolar transport and flavonoid biosynthesis. *Front. Plant Sci.* (doi: 10.3389/fpls.2016.01979).

Verona, 1 February 2018

Sara Zenoni, PhD

A handwritten signature in black ink, appearing to read "Sara Zenoni". The signature is written in a cursive style with a prominent flourish at the end.