



CURRICULUM OF SCIENTIFIC AND TEACHING ACTIVITY

Giovanni Battista Tornielli

Date of birth: 27/3/1968

Place of birth: Padova (Italy)

CHRONOLOGY

1995: Degree in Agricultural Science at University of Padova (Italy), with a thesis on physiological and molecular aspects of peach fruit development and ripening.

1999: PhD at University of Padova, with thesis on the evolution of the phenolic profile and the study of phenolic-related biosynthetic gene expression during grapevine berry ripening and postharvest dehydration.

1999-2002: Post-doc position in Agricultural Genetics at the University of Verona (Italy), with research activity in the field of functional analysis of genes through transposon mutagenesis in model plant species.

2002: Researcher in Food Science and Technology at the University of Verona.

2006-2007: *Marie Curie Fellowship* at the Vrije Universiteit of Amsterdam (The Netherlands), to study the regulation of anthocyanin biosynthesis and vacuolar acidification in plant cells.

2008: Researcher in Viticulture at the University of Verona.

2018: Associate Professor of Viticulture at the University of Verona.

TEACHING ACTIVITY

Teaching in Italian university courses:

- from a.a. 2002/03 to 2008/09: *Biology* (6 ECTS);
- from a.a. 2004/05 to 2008/09: *Physiology and Processes of the Postharvest of Grapes* (3 CFU);
- a.a. 2007/08: *Viticulture II* (5 ECTS);
- a.a. 2008/09 and 2009/10: *Grapevine Ecology and Physiology* (5 ECTS);
- from a.a. 2011/12 to 2014/15: *Postharvest Physiology and Non-Conventional Processes in Enology* (4 ECTS);
- a.a. 2019/20: *Territory analyses* (3 ECTS);
- from a.a. 2013/14 to present: *Grapevine Ecology and Physiology* (6 ECTS);
- a.a. 2020/21 and 2021/22: *Viticulture Technics* (6 ECTS);
- from a.a. 2022/23 to present: *Viticulture Technics* (4 ECTS);
- from a.a. 2020/21 to present: *Biotechnology of fruit crops* (4 ECTS);
- from a.a. 2021/22 to present: *Precision management of grape ripening and post-ripening* (4 ECTS).

PhD thesis supervisor:

- Dr Erika Cavallini: *Unravelling the regulatory network putatively controlling flavonoid biosynthesis in grapevine*. Doctorate in Applied Biotechnology XXIV° cycle;
- Dr.ssa Laura Finezzo: *Flavonoid biosynthesis in grapevine: the role of novel MYB transcriptional regulators*. Doctorate in Applied Biotechnology XXVI° cycle;
- Dr.ssa Erica D'Inca: *Master regulators of the vegetative-to-mature organ transition in grapevine: the role of NAC transcription factors*. Doctorate in Biotechnology XXIX° cycle;
- Dr. Massimiliano Trenti: *Investigating the genetic basis of drought stress response in grape rootstocks*. Doctorate in Biotechnology XXXI° cycle;
- Dr. Edoardo Bertini: *Identification and functional characterization of master regulators of the onset of berry ripening in grapevine (Vitis vinifera L.)*. Doctorate in Biotechnology XXXI° cycle.

SCIENTIFIC ACTIVITY

The main research lines includes:

- Large-scale gene expression analysis aimed at analyzing the transcriptome of the various organs of the grapevine and at exploring the gene expression programs related to their development. In particular, this approach has been used to study the process of grape development in vines subjected to different cultivation conditions (e.g. different growing environments, different thermal regimes, water stress, bunch thinning and defoliation).
- Study of the physical, biochemical and molecular aspects that characterize the grape post-harvest dehydration process through the use of different analytical approaches. The study of transcriptional changes through large-scale gene expression analyzes has been particularly used. Furthermore, the effects of different environmental conditions on grape dehydration kinetics and on the biochemical modifications induced within the berries during the process were studied.
- Gene function studies through gene silencing, insertional mutagenesis, ectopic expression and other molecular approaches. The function of grapevine genes, including various MYB, bHLH, WRKY and NAC type regulators were studied in relation to their involvement in polyphenol metabolism and, more generally, to their regulatory role in the berry development process.
- Study of the molecular mechanisms regulating the accumulation of anthocyanin pigments and the vacuolar pH, during grape ripening.
- Study of the segregation of phenological and fruit quality characters in vines obtained from breeding of divergent grape varieties.
- Application of techniques based on optical sensors and study of the information potential of spectral measurements on the growth, production and physiological responses of the grapevine plant.

Since 2003 he has participated in numerous national and international scientific meetings, as well as dissemination seminars and local initiatives, presenting the results of his research activity.

Since 2004 he has been part of numerous regional national and international research projects both with public bodies and with private production structures, in many of them assuming the position of scientific referent and/or head of an operating unit.

The research activity is documented by the publication of 63 scientific papers indexed on SCOPUS (*h-index* = 37; total citations = 3597).

Editorial boards:

- Associate Editor of Horticulture Research *Horticulture Research* (Oxford Academic);
- Guest Associate Editor of Frontiers in Plant Science. Research topic: Omics and systems approaches in grapevine fruit composition to understand responses to environmental factors and agronomical practices. (<http://journal.frontiersin.org/researchtopic/4675/omics-and-systems-approaches-in-grapevine-fruit-composition-to-understand-responses-to-environmental>).
- Co-Editor of the Acta of “X International Symposium on Grapevine Physiology and Biotechnology” – Verona, 12-18 June 2016. Acta Horticulturae n. 1188; ISBN 9789462611832;.
- Technic-Scientific Board of the Journal Vite&Vino (Eds L’Informatore Agrario) from 2015 to 2021.

Peer review activity:

Australian Journal of Grape and Wine Research; Oeno One; American Journal of Enology and Viticulture; Plant Journal; Journal of the Science of Food and Agriculture; BMC Plant Biology;

BMC Genomics; Plant Physiology; Planta; Plant Science; Journal of Experimental Botany; Journal of Plant Physiology; Molecular Breeding; Horticulture Research; Horticulturae.

Other assignments:

2004: Member of the Academic Board of the Doctorate in Applied Genomics for Health - University of Verona (XX cycle);

2005-2012: Member of the Academic Board of the Doctorate in Applied Biotechnology - University of Verona (from the XXI to the XXVIII cycle);

2013-present: Member of the Academic Board of the PhD in Biotechnology - University of Verona (from the XXIX cycle to present).

2014-2015: member of the Academic Senate of the University of Verona

2018-present: corresponding member of the Italian Academy of Vine and Wine

2013-present: member of the Italian Horticultural Society (S.O.I.), fruit growing section.

2018-present: member of the Scientific Committee of RIVE-ENOTREND (International Exhibition of Viticulture and Enology) – Pordenone, Italy.

2020-present: founding partner of EDIVITE, a spin-off of the University of Verona aiming to develop and apply biotechnological methods to produce plants of genetically improved grapevine varieties.

Publications:

1. Navarro-Payá D., Santiago A., Orduña L., Zhang C., Amato A., D'Inca E., Fattorini C., Pezzotti M., Tornielli GB., Zenoni S., Rustenholz C., Matus JT. (2022). The Grape Gene Reference Catalogue as a Standard Resource for Gene Selection and Genetic Improvement. *Frontiers in Plant Science*, vol. 12, p. 1-7, ISSN: 1664-462X, doi: 10.3389/fpls.2021.803977
2. D'Inca E., Cazzaniga S., Foresti C., Vitulo N., Bertini E., Galli M., Gallavotti A., Pezzotti M., Tornielli GB., Zenoni S. (2021). VviNAC33 promotes organ de-greening and represses vegetative growth during the vegetative-to-mature phase transition in grapevine. *New Phytologist*, vol. 231, p. 726-746, ISSN: 0028-646X, doi: 10.1111/nph.17263
3. Zenoni S., Amato A., D'Inca E., Guzzo F., Tornielli GB. (2020). Rapid dehydration of grape berries dampens the post-ripening transcriptomic program and the metabolite profile evolution. *Horticulture Research*, vol. 7, p. 1-15, ISSN: 2052-7276, doi: 10.1038/s41438-020-00362-5
4. Magris G., Di Gasparo G., Marroni F., Zenoni S., Tornielli GB., Celii M., De Paoli E., Pezzotti M., Conte F., Paci P., Morgante M. (2019). Genetic, epigenetic and genomic effects on variation of gene expression among grape varieties. *Plant Journal*, vol. 99, p. 895-909, ISSN: 0960-7412, doi: 10.1111/tjp.14370
5. Lovato A., Zenoni S., Tornielli GB., Colombo T., Vandelle E., Polverari A. (2019). Plant and fungus transcriptomic data from grapevine berries undergoing artificially-induced noble rot caused by *Botrytis cinerea*. *Data in Brief*, p. 1-6, ISSN: 2352-3409, doi: 10.1016/j.dib.2019.104150
6. Bertini E., Tornielli G.B., Pezzotti M., Zenoni S. (2019). Regeneration of plants from embryogenic callus-derived protoplasts of Garganega and Sangiovese grapevine (*Vitis vinifera* L.) cultivars. *Plant Cell, Tissue and Organ Culture*, vol. 138, p. 239-246, ISSN: 1573-5044, doi: 10.1007/s11240-019-01619-1
7. Delfino P., Zenoni S., Imanifard Z., Tornielli GB., Bellin D. (2019). Selection of candidate genes controlling veraison time in grapevine through integration of meta-QTL and transcriptomic data. *Bmc Genomics*, vol. 20, p. 739-757, ISSN: 1471-2164, doi: 10.1186/s12864-019-6124-0
8. Lovato A., Zenoni S., Tornielli GB., Colombo T., Vandelle E., Polverari A. (2019). Specific molecular interactions between *Vitis vinifera* and *Botrytis cinerea* are required for noble rot development in grape berries. *Postharvest Biology and Technology*, vol. 156, p. 1-15, ISSN: 0925-5214, doi: 10.1016/j.postharvbio.2019.05.025
9. Amato A., Cavallini E., Walker AR., Pezzotti M., Bliet M., Quattrocchio F., Koes R., Ruperti B., Bertini E., Zenoni S., Tornielli GB. (2019). The MYB5-driven MBW complex recruits a WRKY factor to enhance the expression of targets involved in vacuolar hyper-acidification and trafficking in grapevine. *Plant Journal*, vol. 99, p. 1220-1241, ISSN: 0960-7412, doi: 10.1111/tjp.14419
10. Fasoli M., Richter CL., Zenoni S., Bertini E., Vitulo N., Dal Santo S., Dokoozlian N., Pezzotti M., Tornielli GB. (2018) Timing and Order of the Molecular Events Marking the Onset of Berry Ripening in Grapevine, *Plant Physiology*, Volume 178, Issue 3: 1187–1206, <https://doi.org/10.1104/pp.18.00559>
11. Dal Santo S., Zenoni S., Sandri M., De Lorenzis G., Magris G., De Paoli E., Di Gasparo 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 (G×E) on the berry transcriptome. *Plant Journal* 93: 1143–1159.
12. Negri S., Lovato A., Boscaini F., Salvetti E., Torriani S., Commisso M., Danzi R., Ugliano M., Polverari A., Tornielli G.B., Guzzo F. (2017) The Induction of Noble Rot (*Botrytis cinerea*) Infection during Postharvest Withering Changes the Metabolome of Grapevine Berries (*Vitis vinifera* L., cv. Garganega). *Front Plant Sci.* 8:1002.
 13. 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.
 14. 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
 15. Zenoni S., Dal Santo S., Tornielli G.B., D'Inca 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.
 16. Matus JT, Cavallini E, Loyola R, Höll J, Finezzo L, Dal Santo S, Vialat S, Commisso M, Roman F, Schubert A, Alcalde JA, Bogs J, Ageorges A, Tornielli GB, Arce-Johnson P. (2017) A group of grapevine MYBA transcription factors located in chromosome 14 control anthocyanin synthesis in vegetative organs with different specificities compared with the berry color locus. *Plant J.* 91, 220–236.
 17. 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.* 7:1979.
 18. Zenoni S., Fasoli M., Guzzo F., Dal Santo S., Amato A., Anesi A., Commisso M., Herderich M., Ceoldo S., Avesani L., Pezzotti M., Tornielli G.B. (2016) Disclosing the Molecular Basis of the Postharvest Life of Berry in Different Grapevine Genotypes. *Plant Physiol.* 172(3):1821-1843.
 19. Dal Santo S., Palliotti A., Zenoni S., Tornielli G.B., Fasoli M., Paci P., Tombesi S., Frioni T., Silvestroni O., Bellincontro A., D'Onofrio C., Matarese F., Gatti M., Poni S., Pezzotti M. (2016) Distinct transcriptome responses to water limitation in isohydric and anisohydric grapevine cultivars. *BMC Genomics.* 17(1):815.
 20. Loyola R, Herrera D, Mas A, Wong DC, Höll J, Cavallini E, Amato A, Azuma A, Ziegler T, Aquea F, Castellarin SD, Bogs J, Tornielli GB, Peña-Neira A, Czemmel S, Alcalde JA, Matus JT, Arce-Johnson P. (2016) The photomorphogenic factors UV-B RECEPTOR 1, ELONGATED HYPOCOTYL 5, and HY5 HOMOLOGUE are part of the UV-B signalling pathway in grapevine and mediate flavonol accumulation in response to the environment. *J Exp Bot.* 67(18):5429-5445.
 21. Dal Santo S, Fasoli M, Negri S, D'Inca E, Vicenzi N, Guzzo F, Tornielli GB, Pezzotti M, Zenoni S. (2016) Plasticity of the Berry Ripening Program in a White Grape Variety. *Front Plant Sci.* 7:970.
 22. Salvetti E, Campanaro S, Campedelli I, Fracchetti F, Gobbi A, Tornielli GB, Torriani S, Felis GE. (2016) Whole-Metagenome-Sequencing-Based Community Profiles of *Vitis vinifera* L. cv. Corvina Berries Withered in Two Post-harvest Conditions. *Front Microbiol.* 7:937.
 23. Wong DC, Schlechter R, Vannozzi A, Höll J, Hmam I, Bogs J, Tornielli GB, Castellarin SD, Matus JT. (2016) A systems-oriented analysis of the grapevine R2R3-MYB transcription factor family uncovers new insights into the regulation of stilbene accumulation. *DNA Res.* 23(5), 451–466.
 24. Movahed N, Pastore C, Cellini A, Allegro G, Valentini G, Zenoni S, Cavallini E, D'Inca E, Tornielli GB, Filippetti I. (2016) The grapevine VviPrx31 peroxidase as a candidate gene involved in anthocyanin degradation in ripening berries under high temperature. *J Plant Res.* May;129(3):513-26.
 26. Rinaldo AR, Cavallini E, Jia Y, Moss SM, McDavid DA, Hooper LC, Robinson SP, Tornielli GB, Zenoni S, Ford CM, Boss PK, Walker AR. (2015) A Grapevine Anthocyanin Acyltransferase, Transcriptionally Regulated by VvMYBA, Can Produce Most Acylated Anthocyanins Present in Grape Skins. *Plant Physiol.* 169(3):1897-916.
 27. Anesi A, Stocchero M, Dal Santo S, Commisso M, Zenoni S, Ceoldo S, Tornielli GB, Siebert TE, Herderich M, Pezzotti M, Guzzo F. (2015) Towards a scientific interpretation of the terroir concept: plasticity of the grape berry metabolome. *BMC Plant Biol.* 15:191.
 28. Belli Kullán J, Lopes Paim Pinto D, Bertolini E, Fasoli M, Zenoni S, Tornielli GB, Pezzotti M, Meyers BC, Farina L, Pè ME, Mica E. (2015) miRVine: a microRNA expression atlas of grapevine based on small RNA sequencing. *BMC Genomics.* 16:393.
 29. Cavallini E, Matus JT, Finezzo L, Zenoni S, Loyola R, Guzzo F, Schlechter R, Ageorges A, Arce-Johnson P, Tornielli GB. (2015) The phenylpropanoid pathway is controlled at different branches by a set of R2R3-MYB C2 repressors in grapevine. *Plant Physiol.* 167: 1448–1470
 30. Matus J.T., Aquea F., Espinoza C., Vega A., Cavallini E., Dal Santo S., Cañón P., de la Guardia A.R., Serrano J., Tornielli G.B., Arce-Johnson P. (2014) Inspection of the Grapevine BURP Superfamily Highlights an

- Expansion of RD22 Genes with Distinctive Expression Features in Berry Development and ABA-Mediated Stress Responses. *PLoS One*. 9(10): e110372.
31. Liu J., Chen N., Chen F., Cai B., Dal Santo S., Tornielli G.B., Pezzotti M., Cheng Z.M. (2014) Genome-wide analysis and expression profile of the bZIP transcription factor gene family in grapevine (*Vitis vinifera*). *BMC Genomics*. 13; 15:281.
 32. Cavallini E., Zenoni S., Finezzo L., Guzzo F., Zamboni A., Avesani L., Tornielli G.B. (2014) Functional diversification of grapevine MYB5a and MYB5b in the control of flavonoid biosynthesis in a petunia anthocyanin regulatory mutant. *Plant Cell Physiol*. 55(3): 517-34.
 33. Wang M., Vannozzi A., Wang G., Liang Y. H., Tornielli G.B., Zenoni S., Cavallini E., Pezzotti M., Cheng Z.M. (2014). Genome and transcriptome analysis of the grapevine (*Vitis vinifera* L.) WRKY gene family. *Horticulture Research*, Article number: 14016.
 34. Wang G., Lovato A., Liang Y.H., Wang M., Chen F., Tornielli G.B., Polverari A., Pezzotti M. and Cheng Z.M. (2014). Validation by isolation and expression analyses of the mitogen-activated protein kinase gene family in the grapevine (*Vitis vinifera* L.). *Australian Journal of Grape and Wine Research* 20(2): 255–262.
 35. Chen F., Fasoli M., Tornielli G.B., Dal Santo S., Pezzotti M., Zhang L., Cai B., Cheng Z.M. (2013) The evolutionary history and diverse physiological roles of the grapevine calcium-dependent protein kinase gene family. *PLoS One* 8(12): e80818.
 36. Dal Santo S., Tornielli GB., Zenoni S., Fasoli M., Farina L., Anesi A., Guzzo F., Delledonne M., Pezzotti M. (2013) The plasticity of the grapevine berry transcriptome. *Genome Biol*. 10;14(6):r54
 37. Dal Santo S., Vannozzi A., Tornielli GB., Fasoli M., Pezzotti M., Zenoni S. (2013) Genome-wide Analysis of the Expansin Gene Superfamily Reveals Grapevine-specific Structural and Functional Characteristics. *PLoS One* 16;8(4):e62206.
 38. Zoccatelli G., Zenoni S., Savoi S., Dal Santo S., Tononi .P, Zandonà V., Dal Cin A., Guantieri V., Pezzotti M., Tornielli GB. (2013) Skin pectin metabolism during the post-harvest dehydration of berries from three distinct grapevine cultivars. *Australian Journal of Grape and Wine Research* 19:2.171-179.
 39. Pastore C., Zenoni S., Fasoli M., Pezzotti M., Tornielli GB., Filippetti I (2013) Selective defoliation affects plant growth, fruit transcriptional ripening program and flavonoid metabolism in grapevine. *BMC Plant Biol*. 22;13:30
 40. Venturini L, Ferrarini A, Zenoni S, Tornielli GB, Fasoli M, Santo SD, Minio A, Buson G, Tononi P, Zago ED, Zamperin G, Bellin D, Pezzotti M, Delledonne M. (2013) De novo transcriptome characterization of *Vitis vinifera* cv. Corvina unveils varietal diversity. *BMC Genomics* 18;14:41.
 41. Fasoli M, Dal Santo S, Zenoni S, Tornielli GB, Farina L, Zmboni A, Porceddu A, Venturini L, Bicego M, Murino V, Ferrarini A, Delledonne M, Pezzotti M (2012) The grapevine expression atlas reveals a deep transcriptome shift driving the entire plant into a maturation program. *Plant Cell* 24(9): 3489-3505.
 42. Pastore C., Zenoni S., Tornielli G.B., Allegro G., Dal Santo S., Valentini G., Intrieri C., Pezzotti M., Filippetti I., (2011). Increasing the source/sink ratio in *Vitis vinifera* (cv Sangiovese) induces extensive transcriptome reprogramming and modifies berry ripening. *BMC Genomics* 21: 1-64.
 43. S. Zenoni, N. D'Agostino, G.B. Tornielli, F. Quattrocchio, M. L. Chiusano, R. Koes, J. Zethof, F. Guzzo, M. Delledonne, L. Frusciante, T. Gerats, M. Pezzotti. (2011) Revealing impaired pathways in the an11 mutant by high-throughput characterization of *Petunia axillaris* and *Petunia inflata* transcriptomes. *Plant J*. 68: 11-27.
 44. Dal Santo S., Fasoli M., Cavallini E., Tornielli G.B., Pezzotti M., Zenoni S., (2011) PhEXPA1, a *Petunia hybrida* expansin, is involved in cell wall metabolism and in plant architecture specification. *Plant Signaling & Behavior* 6 (12): 2031-2034.
 45. S. Zenoni, M. Fasoli, G.B. Tornielli, S. Dal Santo, A. Sanson, P. de Groot, S. Sordo, S. Citterio, F. Monti, M. Pezzotti. (2011). Overexpression of PhEXPA1 increases cell size, modifies cell wall polymer composition and affects the timing of axillary meristem development in *Petunia hybrida*. *New Phytologist* 191: 662-677.
 46. Zamboni A, Minoia L, Ferrarini A, Tornielli GB, Zago E, Delledonne M, Pezzotti M. (2008). Molecular analysis of post-harvest withering in grape by AFLP transcriptional profiling. *J Exp Bot* 59 (15): 4145-59.
 47. Barbanti D., Mora B., Ferrarini R., Tornielli G.B., Cipriani M. (2008). Effect of various thermo-hygrometric conditions on the withering kinetics of grapes used for the production of “Amarone” and “Recioto” wines. *Journal of Food Engineering* 85 (3): 350-358.
 48. Cecchetti V., Pomponi M., Altamura M.M., Pezzotti M., Marsilio S., D'Angeli S., Tornielli G.B., Costantino P., Cardarelli M. (2004). Expression of rolB in Tobacco Flowers affects the Coordinated Processes of Anther Dehiscence and Style Elongation. *Plant J*. 38 (3): 512-525.
 49. Castellari M., Simonato B., Tornielli G.B., Spinelli P., Ferrarini F. (2004). Effects of different enological treatments on dissolved oxygen in wines. *Italian Journal of Food Science* 16 (3): 387-396.
 50. Versari A., Ferrarini R., Tornielli G.B., Parpinello G.P., Gostoli C., Celotti E. (2004). Treatment of Grape Juice by Osmotic Evaporation. *Journal of Food Science* 69 (8): 422-426.
 51. Zenoni S., Reale L., Tornielli G.B., Lanfaloni L., Porceddu A., Ferrarini A., Moretti C., Zamboni A., Speghini A., Ferranti F., Pezzotti M. (2004). Downregulation of the *Petunia hybrida* {alpha}-Expansin Gene PhEXP1

- Reduces the Amount of Crystalline Cellulose in Cell Walls and Leads to Phenotypic Changes in Petal Limbs. *Plant Cell* 16 (2): 295-308.
52. Vandenbussche M., Zethof J., Souer E., Koes R., Tornielli G.B., Pezzotti M., Ferrario S., Angenot G.C., Gerats T. (2003). Toward the analysis of the petunia MADS box gene family by reverse and forward transposon insertion mutagenesis approaches: B, C, and D floral organ identity functions require SEPALLATA-like MADS box genes in petunia. *Plant Cell* 15 (11): 2680-2693.
 53. Avesani L., Falorni A., Tornielli G.B., Marusic C., Porceddu A., Polverari A., Faleri C., Calcinaro F., Pezzotti M. (2003). Improved in planta expression of the human islet autoantigen glutamic acid decarboxylase (GAD65). *Transgenic Research* 12 (2): 203-212.
 54. Versari A., Parpinello G.P., Tornielli G.B., Ferrarini R., Giulivo C. (2001). Stilbene compounds and stilbene synthase expression during ripening, wilting, and UV treatment in grape cv. Corvina. *J Agric Food Chem.* 49(11): 5531-5536.
 55. Tonutti P., Bonghi C., Ruperti B., Tornielli G.B., Ramina A. (1997). Ethylene evolution and 1-aminocyclopropane-1-carboxylate oxidase gene expression during early development and ripening of peach fruit. *J Am Soc Hort Sci.* 122 (5): 642-647.

Book chapters:

Vezzulli S., Gramaje D., Tello J. *et al.* (2022). Designing for Biotic Stress Resistant Grapevine. In: Kole C (ed) Genomic Designing for Biotic Stress Resistant Fruit Crops. Springer Nature, Cham, Switzerland: pp. 87-255. ISBN 978-3-030-91801-9 - ISBN 978-3-030-91802-6 (eBook). <https://doi.org/10.1007/978-3-030-91802-6>.

Zenoni S., Amato A., Tornielli G.B. (2020). Grape Berry Transcriptome. In: A. Cifuentes. Comprehensive Foodomics. vol. 1, p. 558-571, Elsevier, ISBN: 9780128163955

Tornielli G.B., Zamboni A., Zenoni S., Delledonne M., Pezzotti M., (2012) Transcriptomics and metabolomics for the analysis of grape berry development. In: The Biochemistry of the Grape Berry. Gerós H., Chaves M. & Delrot S. (Eds). Bentham. pp. 218-240.

Tornielli G., Koes R.E., Quattrocchio F.M. (2009). The genetics of flower color. In: Petunia, A Model System for Comparative Research. Gerats T. & Strommer J. (Eds.). Springer N.Y. pp. 269-299.

Verona, 10/01/2023

Giovanni Battista Tornielli