

MARIO PEZZOTTI CV

Full Professor, Plant Genetics

Born in Rieti 14/02/1958; Married, One child

University of Verona Vice Rector for Research

EDUCATION

Laurea in Agricultural Sciences University of Perugia, Italy. 1981

UNIVERSITY CAREER

- Professor, Department of Biotechnology, Faculty of Science, University of Verona, Verona, 03/2011 – present
- Associate Professor, Department of Science and Technology, University of Verona 11/1998 - 03/2011.
- Assistant Professor, Department of Plant Breeding, Faculty of Agriculture, University of Perugia, Italy, 03/1990 -11/1998.
- Visiting Scientist , Plant Genetic Systems, Gent, Belgium, 09/1991 – 09/1993.
- Researcher at Plant Breeding Centre for Pasture Grasses of the National Research Council, Perugia, Italy 03/1984 – 03/1990.
- Visiting Scientist, University of Purdue, Indiana, U.S.A.
- Researcher at Plant Breeding Centre for Pasture Grasses of the National Research Council, Perugia, Italy 05/1982 – 03/1984.

TEACHING EXPERIENCE

1990- 1998 Teacher Assistant at the Faculty of Agriculture, University of Perugia, Italy

1998- present Professor at the Department of Biotechnology, University of Verona, Italy, for the following Courses:

- 1998-2008 Genetica
- 2003 Genetica Vegetale e Biotecnologie
- 2004 Genetica Molecolare Vegetale
- 2004 Tecniche di Biotecnologie
- 2006-2008 Molecular Farming
- 2006 -2008 OGM e MGM
- 2006- Genetica e Miglioramento Genetico

- 2010- Genomica e Biotecnologia della Vite

2011- 2013 Professor at University of Bolzano, Italy. Faculty of Science

- Plant Genetics in English at the Master in FruitScience

Philosophy Doctor (PhD) Thesis Supervisor

Sara Zenoni, Linda Avesani, Anita Zamboni, Luisa Bortesi Marina Purelli, Leone Minoia, Francesca Morandini, Matteo Bruschetta, Marianna Fasoli, Elisa Gecchele, Matilde Merlin, Melanie Massonet, Roberta Zampieri

Bachelor and Master Thesis Supervisor

From 1999 - 10 Bachelor and 40 Master Theses

INVITED LECTURES AT INTERNATIONAL CONFERENCES

- Symposium on Horticulture in Europe Greece Chania Greece 17th October 2016
- Australia-Italia Grape and Wine Symposium Adelaide Monday 7 December 2015
- Scientific Symposium in Grape and Wheat Research Canberra 3rd-4th December 2015
- IX IVAS, Trento 17 July 2015.
- IGGP Bordeaux 11 February 2015
- XI International Conference on Grapevine Breeding and Genetics Beijing, July 29th, 2014
- Postharvest Unlimited Cyprus 11 June 2014
- Macrowine 2014 Stellenbosch 9 September 2014
- GRacious Symposium Sede Boger ISRAEL October 30, 2014
- Plant Gene Discovery & "Omics" Technologies, Vienna, February 17, 2014
- COST ACTION 1106 Quality Fruit Chania 22 September 2013
- Molecular Biology and Genomics of Fruit Trees Wuhan Agricultural University 19th October 2013
- XXXI PAG San Diego 15 January 2013
- Grapevine Physiology and Biotechnology La Serena Chile 22 April 2013
- Omics and Biotechnology of Fruit Crops Nanjing Agricultural University 28th October 2012
- University California Davis, 11 January 2012
- XX PAG International Grape Genome Project San Diego 15 January 2012
- EDF Interlaken, 20 January 2012
- Macrowine, Bordeaux, 20 June 2012
- VINELINK, Paris 21 October, 2011
- Vinexpo, Bordeaux, Seminario Masi, 20 June 2011.
- Plant-Based Vaccine and Antibody, Oporto 8-10 June 2011.
- Grape Research Coordination Network III, Lake Tahoe, 2-5 June 2011.
- XIX PAG International Grape Genome Project San Diego, 16th January 2011.
- XIX PAG Ornamentals, San Diego, 15th January 2011

ORGANIZATION OF NATIONAL AND INTERNATIONAL CONFERENCES

- XL National Conference of the Italian Society of Agricultural Genetics 1996, Perugia
- V World Petunia Days 2002, Verona
- XLVII National Conference of the Italian Society of Agricultural Genetics 2003, Verona
- Pharma-Planta 2005, Verona
- Pharma-Planta 2006, Verona
- Vigna 2006 Verona
- Plant Based Vaccine and Antibody, Verona 2007
- Plant Based Vaccine and Antibody, Verona 2009
- The Genome and Transcriptome of the grapevine cv. Corvina, Verona 2010
- Plant Based Vaccine and Antibody, Verona 2011
- COST 1106 Quality Fruit 2012-2013-2014(Chania-GR), 2015 (Verona-IT), 2015 (Lisbon-P), 2016 (Porto-P)
- X International Symposium on Grapevine Physiology and Biotechnology June 13-18 Verona 2016

ACADEMIC SERVICE

- 1999- present: Member of Doctorate Committee “Biotecnologie Applicate”, Verona University.
- 2001-present: Representative of Verona University and Executive Member of the National Consortium of Plant Molecular Biology
- 2002-2007 Representative of the Associate professors of the Faculty of Science in the Academic Senate of the University of Verona.
- 2002-2007 Member of the Senate Committee “Balance and Planning” of the University of Verona.
- 2014- Nominated Vice-Rector for Research of University of Verona
- 2014 Member of the University of Verona Committee “Patents and Technology Transfer”
- 2015 Member of the University of Verona Committee “Technology Platform Center”

PROFESSIONAL

- 2007-present: Co-Founder of the “Plant Functional Genomic Centre” of the University of Verona
- 2009-2014 Founder and Chief Scientific Officer and Chief Executive Officer of the “Officina Biotecnologica”, Verona University Spin Off
- 2007 Nominate life member of the “Accademia Agricoltura, Scienze e Lettere” Verona
- 2008-2010 Member of the National Committee for Bio-Security, Biotechnology and Life Science, Working Group Agricultural Biotechnology - Prime Minister Commission
- 2014 Nominate life member of the Accademia dei Georgofili
- 2014 Elected Vice-President of Italian Society of Plant Genetics
- 2015-2017 Founder of the “Diamante” Verona University Spin Off
- 2017 Nominated President of Italian Society of Agricultural Genetics
- 2017 Member of the Executive Committee of Italian Association of Scientific Societies in Agriculture “AISSA”
- 2017 Member of the Executive Committee of Italian Federation of Life Science Societies

- 2017 President of the Start Cup Veneto

Member of the Editorial Board of the Journals:

Scientific Reports, Transgenic Research, Horticulture Research and BMC Biotechnology.

Member of the Steering Committee of the International Grape Genome Program.

Chair of the Gene Annotation Committee of the Grape Genome.

Member of the Scientific Advisory Committee of the MacroWine Conferences.

Member of the Scientific Advisory Committee of the Plant-Based Vaccine and Antibody (PBVA) conferences.

Member of the Scientific Committee "Wine in Moderation", Grinzane Cavor.

Member of the Scientific Committee "Grapevine Breeding and Genetics" conferences.

Current or Past reviewer for: Biotechnology Journal, Faseb Journal, FEBS letters, Gene, Journal of Biotechnology, Frontiers journals, Journal of Cellular Physiology, Molecular Breeding, New Phytologist, Plant Biotechnology Journal, Plant Cell, Plant Molecular Biology, Plant Physiology, Sexual Plant Reproduction, The Plant Journal, Theoretical and Applied Genetics.

Ad Hoc Grant Reviewer for: European Commission (Biotechnology Programme), MURST-PRIN, BARD, FWF Austria, OMAFRA Canada, Israel Science Foundation, Scientific and Technological Cooperation in Plant Genome Research Plant KBBE, National Science Foundation. France ANR. German Federal Minister of Education and Research PTJ.

AWARDS

Winner of the "Premio Antico Fattore 2011" of the Georgofili Agricultural Academy

PATENTS

Avesani L., Falorni A., Morandini F. e Pezzotti M. (2008) In planta expression method and the relative vectors for human glutamic acid decarboxylase (GAD65).

GRANTS FUNDED

From 1996 to 2015

- 1996 Ovulemb-Molecular control of ovule development 1,5000.000 € 5 years.
- 1998 MIUR PRIN 60,000 € Italian lire, 2 years.
- 1999 TELETHON 90,000 €, 2 years.
- 1999 MIUR PRIN 115,000 €, 2 years.
- 2000 CNR PROGETTO STRATEGICO 12,000 €, 1 year.
- 2001PRIN 64,000 € 2 years.
- 2002 MIUR 40,000 €, 2 years.
- 2003 MIUR GENEFUN: 180.000 €, 2 years.
- EU FP6 Integrated Project Pharma-Planta. 13,500,000 € , 5 years.
- 2005 REGIONE VENETO: BACCA. Co-PI Massimo Delledonne. 1,000,000 €, 2 years.
- 2005 FONDAZIONE CARIVERONA 280,000 €, 2 years.
- 2005 MIUR PRIN 124,000 €, 2 years
- 2006 MIPAF VIGNA (Vitis genome analysis), 6,500,000 €, 3 years.
- 2006 FONDAZIONE CARIVERONA Plant Functional Genomic Centre I. Co-PI Massimo Delledonne . 450,000€, 5 years.
- 2008 FONDAZIONE CARIVERONA Plant Functional Genomic Centre II. Co-PI Massimo Delledonne. 1,800,000 €, 5 years.
- 2009 REGIONE VENETO VALVIVE 1,000,000 €, 3 years
- 2010 JOINT PROJECT University of Verona – MASI Agricola. 80,000 €, 2 years.
- 2011 MIPAF VIGNETO 1,600,000 €, 2 years.
- 2013-2017 INNOVINE FP7 8,500,000 €, 4 years.

PUBLICATIONS (from 2007 to 2018)

- 1) 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. Jan 30. doi: 10.1111/tpj.13834.
- 2) Gambino G, Dal Molin A, Boccacci P, Minio A, Chitarra W, Avanzato CG, Tononi P, Perrone I, Raimondi S, Schneider A, Pezzotti M, Mannini F, Gribaudo I, Delledonne M. (2017) Whole-genome sequencing and SNV genotyping of 'Nebbiolo' (*Vitis vinifera* L.) clones. Sci Rep. Dec 11;7(1):17294. doi: 10.1038/s41598-017-17405-y
- 3) Mercenaro L, Nieddu G, Porceddu A, Pezzotti M, Camiolo S. (2017) Sequence Polymorphisms and Structural Variations among Four Grapevine (*Vitis vinifera* L.) Cultivars Representing Sardinian Agriculture. Front Plant SciJul 20;8:1279. doi: 10.3389/fpls.2017.01279. eCollection 2017.
- 4) Fortes AM, Granell A, Pezzotti M, Bouzayen M. (2017) Editorial: Molecular and Metabolic Mechanisms Associated with Fleshy Fruit Quality. Front Plant SciJul 13;8:1236. doi: 10.3389/fpls.2017.01236. eCollection 2017.
- 5) Massonnet M, Fasoli M, Tornielli GB, 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* Aug;174(4):2376-2396. doi: 10.1104/pp.17.00311. Epub 2017 Jun 26.
- 6) Pii Y, Zamboni A, Dal Santo S, Pezzotti M, Varanini Z, Pandolfini T. (2017) Prospect on Ionomeric Signatures for the Classification of Grapevine Berries According to Their Geographical Origin. *Front Plant Sci.* Apr 24;8:640. doi: 10.3389/fpls.2017.00640. eCollection 2017.
 - 7) Adam-Blondon AF, Alaux M, Pommier C, Cantu D, Cheng ZM, Cramer GR, Davies C, Delrot S, Deluc L, Di Gaspero G, Grimplet J, Fennell A, Londo JP, Kersey P, Mattivi F, Naithani S, Neveu P, Nikolski M, Pezzotti M, Reisch BI, Töpfer R, Vivier MA, Ware D, Quesneville (2016) H. Towards an open grapevine information system. *Hortic Res.* Nov 23;3:16056. eCollection 2016. Review.
 - 8) Dal Santo S, Commisso M, D'Inca E, Anesi A, Stocchero M, Zenoni S, Ceoldo S, Tornielli GB, Pezzotti M, Guzzo F. (2016) The Terroir Concept Interpreted through Grape Berry Metabolomics and Transcriptomics. *J Vis Exp.* Oct 5;(116). doi: 10.3791/54410.
 - 9) Dal Santo S, Palliotti A, Zenoni S, Tornielli GB, 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.* Oct 20;17(1):815.
 - 10) Paim Pinto DL, Brancadoro L, Dal Santo S, De Lorenzis G, Pezzotti M, Meyers BC, Pè ME, Mica E. (2016) The Influence of Genotype and Environment on Small RNA Profiles in Grapevine Berry. *Front Plant Sci.* Oct 5;7:1459. eCollection 2016.
 - 11) Zenoni S, Fasoli M, Guzzo F, Dal Santo S, Amato A, Anesi A, Commisso M, Herderich M, Ceoldo S, Avesani L, Pezzotti M, Tornielli GB. (2016) Disclosing the Molecular Basis of the Postharvest Life of Berry in Different Grapevine Genotypes. *Plant Physiol.* Nov;172(3):1821-1843. Epub 2016 Sep 26.
 - 12) da Silva DC, da Silveira Falavigna V, Fasoli M, Buffon V, Porto DD, Pappas GJ Jr, Pezzotti M, Pasquali G, Revers LF. (2016) Transcriptome analyses of the Dof-like gene family in grapevine reveal its involvement in berry, flower and seed development. *Hortic Res* Aug 31;3:16042. doi: 10.1038/hortres.2016.42. eCollection 2016.
 - 13) 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.* Jul 12;7:970. doi: 10.3389/fpls.2016.00970. eCollection 2016.
 - 14) Bombarely A, Moser M, Amrad A, Bao M, Bapaume L, Barry CS, Bliet M, Boersma MR, Borghi L, Bruggmann R, Bucher M, D'Agostino N, Davies K, Druge U, Dudareva N, Egea-Cortines M, Delledonne M, Fernandez-Pozo N, Franken P, Grandont L, Heslop-Harrison JS, Hintzsche J, Johns M, Koes R, Lv X, Lyons E, Malla D, Martinoia E, Mattson NS, Morel P, Mueller LA, Muhlemann J, Nouri E, Passeri V, Pezzotti M, Qi Q, Reinhardt D, Rich M, Richert-Pöggeler KR, Robbins TP, Schatz MC, Schranz ME, Schuurink RC, Schwarzacher T, Spelt K, Tang H, Urbanus SL, Vandebussche M, Vijverberg K, Villarino GH, Warner RM, Weiss J, Yue Z, Zethof J, Quattrocchio F, Sims TL, Kuhlemeier C. (2016) Insight into the evolution of the Solanaceae from the parental genomes of *Petunia hybrida*. *Nat Plants.* 2016 May 27;2(6):16074. doi: 10.1038/nplants.2016.74.
 - 15) Fasoli M, Dell'Anna R, Dal Santo S, Balestrini R, Sanson A, Pezzotti M, Monti F, Zenoni S. (2016) Pectins, Hemicelluloses and Celluloses Show Specific Dynamics in the Internal and External Surfaces of Grape Berry Skin During Ripening. *Plant Cell Physiol.* Jun;57(6):1332-49. doi: 10.1093/pcp/pcw080. Epub 2016 Apr 19.
 - 16) Merlin M, Pezzotti M, Avesani L. (2017) Edible plants for oral delivery of biopharmaceuticals. *Br J Clin Pharmacol.* Jan;83(1):71-81. doi: 10.1111/bcp.12949. Epub 2016 May 9. Review.
 - 17) Merlin M, Gecchele E, Arcalis E, Remelli S, Brozzetti A, Pezzotti M, Avesani L. (2016) Enhanced GAD65 production in plants using the MagnICON transient expression system: Optimization of

- upstream production and downstream processing. *Biotechnol J*. Mar;11(4):542-53. doi: 10.1002/biot.201500187. Epub 2016 Jan 25.
- 18) Tinazzi E, Merlin M, Bason C, Beri R, Zampieri R, Lico C, Bartoloni E, Puccetti A, Lunardi C, Pezzotti M, Avesani L. (2015) Plant-Derived Chimeric Virus Particles for the Diagnosis of Primary Sjögren Syndrome. *Front Plant Sci*. 2015 Dec 1;6:1080. doi: 10.3389/fpls.2015.01080.
 - 19) Pinnola A, Ghin L, Gecchele E, Merlin M, Alboresi A, Avesani L, Pezzotti M, Capaldi S, Cazzaniga S, Bassi R. (2015) Heterologous Expression of Moss Light-harvesting Complex Stress-related 1 (LHCSR1), the Chlorophyll a-Xanthophyll Pigment-protein Complex Catalyzing Non-photochemical Quenching, in *Nicotiana sp.* *J Biol Chem*. Oct 2;290(40):24340-54. doi: 10.1074/jbc.M115.668798. Epub 2015 Aug 10.
 - 20) Anesi A, Stocchero M, Dal Santo S, Commisso M, Zenoni S, Ceoldo S, Torielli 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*. Aug 7;15:191. doi: 10.1186/s12870-015-0584-4.
 - 21) Belli Kullán J, Lopes Paim Pinto D, Bertolini E, Fasoli M, Zenoni S, Torielli 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*. May 16;16:393. doi: 10.1186/s12864-015-1610-5.
 - 22) Gecchele E, Merlin M, Brozzetti A, Falorni A, Pezzotti M, Avesani L A comparative analysis of recombinant protein expression in different biofactories: bacteria, insect cells and plant systems. (2015) *J Vis Exp*. Mar 23;(97). doi: 10.3791/52459.
 - 23) Cramer GR, Ghan R, Schlauch KA, Tillett RL, Heymann H, Ferrarini A, Delledonne M, Zenoni S, Fasoli M, Pezzotti M. Transcriptomic analysis of the late stages of grapevine (*Vitis vinifera* cv. Cabernet Sauvignon) berry ripening reveals significant induction of ethylene signaling and flavor pathways in the skin. *BMC Plant Biol*. 2014 Dec 19;14(1):370.
 - 24) Grimplet J, Adam-Blondon AF, Bert PF, Bitz O, Cantu D, Davies C, Delrot S, Pezzotti M, Rombauts S, Cramer GR. (2014) The grapevine gene nomenclature system. *BMC Genomics*. 2014 Dec 6;15:1077. doi: 10.1186/1471-2164-15-1077.
 - 25) Palumbo MC, Zenoni S, Fasoli M, Massonnet M, Farina L, Castiglione F, Pezzotti M, Paci P. (2014) Integrated Network Analysis Identifies Fight-Club Nodes as a Class of Hubs Encompassing Key Putative Switch Genes That Induce Major Transcriptome Reprogramming during Grapevine Development. *Plant Cell*. Dec;26(12):4617-35. doi: 10.1105/tpc.114.133710. Epub 2014 Dec 9.
 - 26) G. Wang, A. Lovato, Y.H. Liang, M. Wang, F. Chen, G.B. Torielli, A. Polverari, M. Pezzotti and Z.M. Cheng (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* Volume 20, Issue 2, June 2014 Pages: 255–262.
 - 27) Giacosa A, Barale R, Bavaresco L, Faliva MA, Gerbi V, La Vecchia C, Negri E, Opizzi A, Perna S, Pezzotti M, Rondanelli M (2014) MEDITERRANEAN WAY OF DRINKING AND LONGEVITY. *Crit Rev Food Sci Nutr*. Sep 10.
 - 28) Degu A, Hochberg U, Sikron N, Venturini L, Buson G, Ghan R, Plaschkes I, Batushansky A, Chalifa-Caspi V, Mattivi F, Delledonne M, Pezzotti M, Rachmilevitch S, Cramer GR, Fait A (2014) Metabolite and transcript profiling of berry skin during fruit development elucidates differential regulation between Cabernet Sauvignon and Shiraz cultivars at branching points in the polyphenol pathway. *BMC Plant Biol*. Jul 26;14:188. doi: 10.1186/s12870-014-0188-4.
 - 29) Gecchele E, Schillberg S, Merlin M, Pezzotti M, Avesani L (2014) A downstream process allowing the efficient isolation of a recombinant amphiphilic protein from tobacco leaves. *J Chromatogr B Analyt Technol Biomed Life Sci*. Jun 1;960:34-42.

- 30) Merlin M, Gecchele E, Capaldi S, Pezzotti M, Avesani L. (2014) Comparative evaluation of recombinant protein production in different biofactories: the green perspective. *Biomed Res Int.* 2014;:136419.
- 31) Liu J, Chen N, Chen F, Cai B, Dal Santo S, Tornielli GB, Pezzotti M, Cheng ZM. (2014). Genome-wide analysis and expression profile of the bZIP transcription factor gene family in grapevine (*Vitis vinifera*). *BMC Genomics.* Apr 13;15:281.
- 32) Chen F, Fasoli M, Tornielli GB, Dal Santo S, Pezzotti M, Zhang L, Cai B, Cheng ZM. (2013) The evolutionary history and diverse physiological roles of the grapevine calcium-dependent protein kinase gene family. *PLoS One.* Dec 6;8(12):e80818. doi: 10.1371/journal.pone.0080818. eCollection 2013.
- 33) Da Silva C, Zamperin G, Ferrarini A, Minio A, Dal Molin A, Venturini L, Buson G, Tononi P, Avanzato C, Zago E, Boido E, Dellacassa E, Gaggero C, Pezzotti M, Carrau F, Delledonne M. (2013) The high polyphenol content of grapevine cultivar tannat berries is conferred primarily by genes that are not shared with the reference genome. *Plant Cell.* Dec;25(12):4777-88. doi: 10.1105/tpc.113.118810. Epub 2013 Dec 6.
- 34) Avesani L, Merlin M, Gecchele E, Capaldi S, Brozzetti A, Falorni A, Pezzotti M.(2013) Comparative analysis of different biofactories for the production of a major diabetes autoantigen. *Transgenic Res.* Oct 20. [Epub ahead of print]
- 35) 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.* Jun 10;14(6):r54
- 36) Dal Santo S, Vannozzi A, Tornielli G B, Fasoli M, Pezzotti M, Zenoni S (2013) Genome-wide Analysis of the Expansin Gene Superfamily Reveals Grapevine-specific Structural and Functional Characteristics. *PLoS One.* 2013 Apr 16;8(4):e62206.
- 37) Zoccatelli G, Zenoni S, Savoi S, Dal Santo S, Tononi P, Zandonà V, Dal Cin A, Guantieri V, Pezzotti M, Tornielli G B (2013) Skin pectin metabolism during the post-harvest dehydration of berries from three distinct grapevine cultivars. *Australian Journal of Grape and Wine Research* June 2013 19:2.171-179
- 38) Pastore C, Zenoni S, Fasoli M, Pezzotti M, Tornielli G B Filippetti I (2013) Selective defoliation affects plant growth, fruit transcriptional ripening program and flavonoid metabolism in grapevine *BMC Plant Biol.* 2013 Feb 22;13:30
- 39) 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.* 2013 Jan 18;14:41.
- 40) Bicego M, Lovato P, Perina A, Fasoli M, Delledonne M, Pezzotti M, Polverari A, Murino V. (2012) Investigating Topic Models' Capabilities in Expression Microarray Data Classification. *IEEE/ACM Trans Comput Biol Bioinform.* Sep 17.
- 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.* 2012 Sep;24(9):3489-505.
- 42) Gambino G, Cuozzo D, Fasoli M, Pagliarani C, Vitali M, Boccacci P, Pezzotti M, Mannini F (2012) Co-evolution between Grapevine rupestris stem pitting-associated virus and *Vitis vinifera* L. induces the decrease of defence responses and physiological performances associated to an increase in the transcription of photosynthesis-related genes *J Exp Bot.* 2012 Oct;63(16):5919-33.

- 43) Bortesi L, Rademacher T, Schiermeyer A, Schuster F, Pezzotti M, Schillberg S. (2012) Development of an optimized tetracycline-inducible expression system to increase the accumulation of interleukin-10 in tobacco BY-2 suspension cells. *BMC Biotechnol.* Jul 11;12:40.
- 44) Giacosa A, Barale R, Bavaresco L, Gatenby P, Gerbi V, Janssens J, Johnston B, Kas K, La Vecchia C, Mainguet P, Morazzoni P, Negri E, Pelucchi C, Pezzotti M, Rondanelli M. (2012) Cancer prevention in Europe: the Mediterranean diet as a protective choice. *Eur J Cancer Prev.* 2012 May 24.
- 45) Grimplet J, Van Hemert J, Carbonell-Bejerano P, Díaz-Riquelme J, Dickerson J, Fennell A, Pezzotti M, Martínez-Zapater JM (2012) Comparative analysis of grapevine whole-genome gene predictions, functional annotation, categorization and integration of the predicted gene sequences *BMC Res Notes.* May 3;5(1):213.
- 46) Zamboni A, Zanin L, Tomasi N, Pezzotti M, Pinton R, Varanini Z, Cesco S (2012) Genome-wide microarray analysis of tomato roots showed defined responses to iron deficiency. *BMC Genomics.* Mar 20;13:101.
- 47) Lico C, Santi L, Twyman RM, Pezzotti M, Avesani L (2012). The use of plants for the production of therapeutic human peptides. *Plant Cell Rep.* Mar;31(3):439-51. Epub 2012 Jan 5.
- 48) Pastore C, Zenoni S, Tornielli GB, Allegro G, Dal Santo S, Valentini G, Intriери 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.* Dec 23;12(1):631.
- 49) Dal Santo S, Fasoli M, Cavallini E, Tornielli GB, Pezzotti M, Zenoni S. (2011) PhEXPA1, a *Petunia hybrida* expansin, is involved in cell wall metabolism and in plant architecture specification. *Plant Signal Behav.* Dec 1;6(12).
- 50) Cramer GR, Urano K, Delrot S, Pezzotti M, Shinozaki K. (2011) Effects of abiotic stress on plants: a systems biology perspective. *BMC Plant Biol.* Nov 17;11(1):163.
- 51) Giacosa A, Adam-Blondon AF, Baer-Sinnott S, Barale R, Bavaresco L, Di Gaspero G, Dugo L, Curtis Ellison R, Gerbi V, Gifford D, Janssens J, La Vecchia C, Negri E, Pezzotti M, Santi L, Santi L, Rondanelli M. (2011) Alcohol and wine in relation to cancer and other diseases. *Eur J Cancer Prev.* 2012 Jan;21(1):103-108.
- 52) Bitta C, Zenoni S, Vriezen W, Mariani C, Pezzotti M, Gerats T (2011) Temperature stress differentially modulates transcription in meiotic anthers of heat-tolerant and heat-sensitive tomato plants. *BMC Genomics,* 12:384.
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