

MARIO PEZZOTTI CV

Professore Ordinario di Genetica Agraria SSD AGR07

Nato a Rieti 14/02/1958; Sposato, un figlio

Delegato del Rettore per la Ricerca e il Trasferimento Tecnologico (2013-2019)

Università of Verona

FORMAZIONE

Laurea in Scienze Agrarie, Università di Perugia, Italia. 1981

CARRIERA UNIVERSITARIA

- Professore Ordinario, Dipartimento di Biotecnologie, Università of Verona, Verona, 03/2011 –
- Professore Associato, Dipartimento of Scienze and Tecnologie, Università di Verona 11/1998 - 03/2011.
- Ricercatore, Istituto di Allevamento Vegetale, Facoltà of Agraria, Università of Perugia, Italia 03/1990 -11/1998.
- Visiting Scientist, Plant Genetic Systems, Gent, Belgio, 09/1991 – 09/1993.
- Ricercatore presso il Centro Miglioramento Genetico delle Piante Foraggere del C.N.R., Perugia, Italia 03/1984 – 03/1990.
- Visiting Scientist, Università di Purdue, Indiana, U.S.A. 1985/86
- Ricercatore a tempo determinato presso il Centro Miglioramento Genetico delle Piante Foraggere del C.N.R., Perugia, Italia 05/1982 – 03/1984.

INSEGNAMENTI IMPARTITI

1990- 1998 Ricercatore Esercitatore presso la Facoltà of Agraria, Università di Perugia, Italia

1998- Professore Associato e Professore Ordinario presso il Dipartimento di Biotecnologi, Università di Verona, Italia, per i seguenti insegnamenti:

- 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 Professore presso l' Università di Bolzano, Italia. Facoltà di Scienze

- Plant Genetics in Inglese nel the Master in FruitScience

Supervisore di Tesi di Dottorato :

- 1999- present: Membro collegio dei Docenti del Dottorato di "Biotecnologie ", Università di Verona.

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

Supervisore delle Tesi di Laurea e Tesi di Laurea Magistrale

Dal 1999 – 15 Tesi di Laurea and 50 Tesi di Laurea Magistrale

INVITED LECTURES in CONFERENZE INTERNAZIONALI

- International Plant Molecular Biology France Montpellier 6 August 2018
- International Conference Grapevine Breeding and Genetics Bordeaux 17 2018
- The future of Medicine Genova 29 June 2017
- Symposium on Horticulture in Europe Greece Chania Greece 17 October 2016
- Australia-Italia Grape and Wine Symposium Adelaide Monday 7 December 2015
- Scientific Symposium in Grape and Wheat Research Canberra 3-4 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

ORGANIZZAZIONE OF CONFERENZE NAZIONALI E INTERNAZIONALI

- 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
- VXII National Conference of the Italian Society of Agricultural Genetics 2018, Verona
- COST 117111 INTEGRAPPE 25-28 Marzo 2019, CHANIA (GR)

CARICHE ACCADEMICHE

- 2002-2007 Rappresentante dei Professori Associati della facoltà di Scienze nel Senato Accademico Università di Verona.
- 2002-2007 Membro della Commissione "Bilancio e Programmazione" dell'Università di Verona
- 2014- Delegato del Rettore per la Ricerca e il Trasferimento Tecnologico dell'Università di Verona
- 2014 Membro della "Commissione Brevetti e Trasferimento Tecnologico" dell'Università di Verona
- 2015 Membro del Comitato Scientifico "Centro Piattaforme Tecnologiche"
- 2016-2018 Membro della Commissione Nazionale ASN per il settore concorsuale O7/E1
- Membro della Cabina di Regia Università- Regione Veneto

CARICHE PROFESSIONALI

- 2009-2014 Fondatore e Responsabile Scientifico di “Officina Biotecnologica”, Spin Off dell’Università di Verona
- 2007 Nominato membro permanente dell’Accademia Agricoltura, Scienze e Lettere di Verona
- 2008-2010 Membro della Commissione Nazionale della Presidenza del Consiglio Bio-Sicurezza, Biotecnologie e Scienze della Vita
- 2014 Nominato socio corrispondente dell’Accademia dei Georgofili
- 2014 Eletto Vice-Presidente della Società Italiana di Genetica Agraria
- 2015-2017 Fondatore di “Diamante” Spin Off dell’Università di Verona
- 2017 Nominato Presidente of Società Italiana di Genetica Agraria
- 2017 Membro del Comitato Direttivo della Associazione Italiana delle Società Scientifiche in Agricoltura “AISSA”
- 2017 Membro del Comitato Direttivo della Federazione Italiana Scienze della Vita FISV
- 2017 Presidente di Start Cup Veneto

Membro Comitato Editoriale delle Riviste Scientifiche:
Scientific Reports, Transgenic Research e BMC Biotechnology.

Vice Presidente del Comitato International Grape Genome Program.

Membro del Comitato Scientifico delle Conferenze Internazionali: MacroWine, Plant-Based Vaccines and Antibody, Grapevine Breeding and Genetics

Membro del Comitato Scientifico “Wine in Moderation”, Grinzane Cavour.

Revisore per le riviste: 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 Revisore dei progetti: 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.

PREMI

“Premio Antico Fattore 2011” dell’Accademia dei Georgofili

BREVETTI

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

PROGETTI FINANZIATI

DAL 1996 to 2018

- 1996 Ovulemb-Molecular control of ovule development 1,5000.000 Lire 5 anni.
- 1998 MUIR PRIN 60,000 Lire , 2 anni.
- 1999 TELETHON 90,000 €, 2 anni.
- 1999 MIUR PRIN 115,000 lire, 2 anni.
- 2000 CNR PROGETTO STRATEGICO 12,000 lire , 1 anno.
- 2001PRIN 64,000 € 2 anni.
- 2002 MIUR 40,000 €, 2 anni.
- 2003 MIUR GENEFUN: 180.000 €, 2 anni.
- EU FP6 Integrated Project Pharma-Planta. 13,500,000 € , 5 anni.
- 2005 REGIONE VENETO: BACCA. Co-PI Massimo Delledonne. 1,000,000 €, 2 anni.
- 2005 FONDAZIONE CARIVERONA 280,000 €, 2 anni.
- 2005 MIUR PRIN 124,000 €, 2 anni
- 2006 MIPAF VIGNA (Vitis genome analysis), 6,500,000 €, 3 anni.
- 2006 FONDAZIONE CARIVERONA Plant Functional Genomic Centre I. Co-PI Massimo Delledonne . 450,000€, 5 anni.
- 2008 FONDAZIONE CARIVERONA Plant Functional Genomic Centre II. Co-PI Massimo Delledonne. 1,800,000 €, 5 anni.
- 2009 REGIONE VENETO VALVIVE 1,000,000 €, 3 anni
- 2010 JOINT PROJECT University of Verona – MASI Agricola. 80,000 €, 2 anni.
- 2011 MIPAF VIGNETO 1,600,000 €, 2 anni.
- 2013-2017 INNOVINE FP7 8,500,000 €, 4 anni.
- INVITE MARIE CURIE e REGIONE VENETO 2,200,000 3 anni
- 2018-2022 COST ACTION 17111 INTEGRAPPE 800,000, 4 anni.
- 2019-2021 PRIN 2017, 3 anni

PUBBLICAZIONI (from 2007 to 2019)

- 1) Ambrosino L, Ruggieri V, Bostan H, Miralto M, Vitulo N, Zouine M, Barone A, Bouzayen M, Frusciante L, Pezzotti M, Valle G, Chiusano ML. (2018) Multilevel comparative bioinformatics to investigate evolutionary relationships and specificities in gene annotations: an example for tomato and grapevine. *BMC Bioinformatics*. 2018 Nov 30;19(Suppl 15):435. doi: 10.1186/s12859-018-2420-y.
- 2) 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 Physiol*. Sep 17. pii: pp.00559.2018. doi: 10.1104/pp.18.00559.
- 3) Bertini E, Merlin M, Gecchele E, Puggia A, Brozzetti A, Commisso M, Falorni A, Bini V, Klymyuk V, Pezzotti M, Avesani L. (2018) Design of a Type-1 Diabetes Vaccine Candidate Using Edible Plants Expressing a Major Autoantigen. *Front Plant Sci*. 2018 May 1;9:572. doi: 10.3389/fpls.2018.00572. eCollection 2018.
- 4) 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.
- 5) 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
- 6) 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 Sci* Jul 20;8:1279. doi: 10.3389/fpls.2017.01279. eCollection 2017.
- 7) Fortes AM, Granell A, Pezzotti M, Bouzayen M. (2017) Editorial: Molecular and Metabolic Mechanisms Associated with Fleshy Fruit Quality. *Front Plant Sci* Jul 13;8:1236. doi: 10.3389/fpls.2017.01236. eCollection 2017.
- 8) 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.
- 9) 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.
- 10) 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.
- 11) 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.

- 12) 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.
- 13) 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.
- 14) 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.
- 15) 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.
- 16) Dal Santo S, Fasoli M, Negri S, D'Incà 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.
- 17) 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, Vandenbussche 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.
- 18) 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.
- 19) 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.
- 20) 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.
- 21) 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.
- 22) 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.
- 23) 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.* Aug 7;15:191. doi: 10.1186/s12870-015-0584-4.
- 24) 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.* May 16;16:393. doi: 10.1186/s12864-015-1610-5.
 - 25) 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.
 - 26) 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.
 - 27) 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.
 - 28) 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.
 - 29) G. Wang, A. Lovato, Y.H. Liang, M. Wang, F. Chen, G.B. Tornielli, 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.
 - 30) 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.
 - 31) 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.
 - 32) 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.
 - 33) 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.
 - 34) 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.
 - 35) 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.
 - 36) 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.

- 37) 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]
- 38) 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
- 39) 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.
- 40) 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
- 41) 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
- 42) 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.
- 43) 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.
- 44) 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.
- 45) 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.
- 46) 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.
- 47) 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.
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