



**Europass
Curriculum Vitae**

Riccardo Velasco, PhD

h-index = ISIWeb 36, Scopus 39, Gscholar 47

n. of ISI-Web publications = 124

total impact points = 580

*Fondazione E. Mach di San Michele a/A
Head of Genomics and Crop Biology Dpt.*

Education and training

Dates	1991-1995
Title of qualification awarded	PhD
Principal subjects/occupational skills covered	Plant molecular biology
Name and type of organisation providing education and training	Max Planck Institut - University zu Koeln (Germany)
Level in national or international classification	Top class European research Institutes
Dates	1982-1989
Title of qualification awarded	Degree in Agricultural Science (equivalent to Master degree)
Principal subjects/occupational skills covered	Agronomy, plant physiology, biochemistry, botany, plant biology, soil chemistry, genetics, molecular biology, zoology, soil microbiology, ecology
Name and type of organisation providing education and training	University of Florence (Italy)

Scientific career

	BEFORE FEM-IASMA
(1989-1990)	Diploma student Desiccation tolerance in maize embryo. Role of abscisic acid. University of Firenze – Supervisor: Prof. C. Vazzana.
(07/'89-09/'89)	Research Fellowship Isolation of cold stress resistant barley genes. Erasmus-EEC fellowship at the Max-Planck-Institut für Züchtungsforschung, Köln. Supervisor Prof. F. Salamini.

- (07/'91-12/'92)** **Research Fellowship**
Tobacco transformation by means of water stress resistant genes.
Fellowship of region of Umbria (Italy) and the EU at the Max-Planck-Institut für Züchtungsforschung, Köln. Supervisor Prof. D. Bartels.
- (01/'93-03/'95)** **Research Fellowship**
Characterization of the expression of the desiccation-related gene CDet11-24 isolated from the resurrection plant *Craterostigma plantagineum* Hochst. and analysis of its promoter in transgenic plants.
Max-Planck-Gesellschaft fellowship at the Max-Planck-Institut für Züchtungsforschung, Köln. Supervisor Prof. D. Bartels.
- (09/'94)** **Research Fellowship**
Gatsby Charitable Foundation - John Innes Centre
- (05/'95-06/'97)** **Post-doctoral fellowship**
DFG-project: Characterization of DNA/protein interaction in the Polymerase I System.
University of Tuebingen, chair of Genetics - Supervisor: Prof. V. Hemleben.
- (06/'97-07/'99)** **Post-doctoral fellowship**
Dissection of wax synthetic pathways by transposon tagging.
Universitaet zu Koeln. Supervisor: Prof. F. Salamini.

AT FEM-IASMA

Dates	July 1999 – October 2000
Occupation or position held	Researcher 3° class (R3)
Main activities and responsibilities	Junior research staff
Type of business or sector	Genetics and genomics of grape and apple
Dates	October 2000 – December 2005
Occupation or position held	(till August 2003, researcher of 3° class, after August 2003, of 2° class, R2) Responsible of the Advanced Biology Area, Senior management
Main activities and responsibilities	6 staff – plus post-docs and PhD students (up to 20)
Type of business or sector	Coordination of the largest project at IASMA (3.7 Million of €) Set up of 1,200 m ² of laboratories Molecular breeding programs in grape and apple Development of genomics and bioinformatic platforms
Dates	January 2006 – December 2008
Occupation or position held	Head of the Biology and Molecular Genetics Department
Main activities and responsibilities	45 staff – including post-docs and PhD students
Type of business or sector	Molecular breeding program of grape and apple Bioinformatics Structural and Functional Genomics Grape and apple genome sequencing projects
Dates	January 2009 – today
Occupation or position held	Head of the Genomic and Crops Biology Dept. Director of research (R1)

Main activities and responsibilities	80 staff – including post-docs and PhD students
Type of business or sector	Structural and Comparative Genomics Functional Genomics Molecular Genetics and Breeding
National Habilitation for Academics	BIO13 – Applied Biology (full Professor) AGR07 – Crop Genetics (full Professor)
ANVUR 2011-14	GEV 07 – Member of the VQR Evaluation Panel (Expert Evaluation Group) For Agricultural and Veterinary Sciences

Positions of responsibility and achievements

ASSOCIATE EDITOR	Molecular Genetics and Genomics Plant Molecular Biology Reporter International Journal of Wine Research Frontiers in Crop Science and Horticulture (till 2016) American Journal of Oenology and Viticulture (till 2014) Tree Genetics and Genomes (till 2013)
REVIEWER of JOURNALS (LAST 5 YEARS)	Theoretical and Applied Genetics, Molecular Breeding, Journal of Food Chemistry, Genome, Plant Breeding, Plant Physiology and Biochemistry, BMC Bioinformatics, American Journal of Viticulture and Enology, BMC Biology, Functional and Integrative Genomics, Trends in Genetics, Nature Genetics, Plant Journal
REVIEWER of RESEARCH GRANTS	University of Padova, referee for genetics, genomics and molecular biology of fruit trees; University of Milano, referee for genomics projects in plants; Ministry of Research and University, FIRB and PRIN Actions; Genoplante; KBBE EraNet; Ateneo Italo-Tedesco; Ateneo Italo-Francese; Parco Tecnologico Padano
AWARDS	- Honorable Research Lecturer of the Year 2007, the Grape Genome, The American Society of Enology and Viticulture - Premio Assoenologia 2013, Role of Resveratrol in Grape Defence “Best scientific publications 2010-2012”. - Premio “N. Strampelli” 2013, Società Italiana di Genetica Agraria. - Chair of the Working Group “Molecular Markers in Horticulture” of the International Society of Horticultural Science, ISHS. (2013-today)
MEMBERSHIP	- Co-founder and member of the International Grapevine Genome Program (Davis, CA) - Member of the Board of the Italian Society of Genetics years 2004-2005

Personal skills and competences

Mother language(s)	ITALIAN
Other language(s)	English (excellent), German (very good), French (good), Spanish (scholar)

Teaching and academic roles

UNIVERSITY COURSES	AA 2016-17 University of Verona, Faculty of Biotechnology, lectures on Genomics AA 2015-17 University of Ferrara, Faculty of Biology, lectures on Plant Biotechnology AA 2002-2013 University of Verona, Faculty of Medicine, lectures on Molecular Biology AA 2009-2011 University of Bologna, Faculty of Biology, lectures on Evolutionary Genetics AA 2006-2009 University of Napoli, Faculty of Agriculture, lectures on Crop Genetics AA 2002-2003 University of Trento, Faculty of Informatics, lectures on Molecular Biology
PHD SUPERVISION	Over 20 PhD supervised in career
STUDENT SUPERVISION	Over 30 Master degree supervisions
EXTERNAL EXAMINER EXPERIENCES	Member of evaluation committees for Italian and European Universities Tenure track evaluation for U.S. and UK professorships VQR ANVUR 2011-14, member of evaluation panel GEV 07 (Agriculture)

Research awards and fellowships

Dates	EXTERNAL GRANTS AS PRINCIPAL INVESTIGATOR (total budget managed between 2000 and 2016: approximately 30 M€)
2016	Progetto CARIPL0 – Ricerca integrata sulle biotecnologie industriali e sulla bioeconomia progetto “GrAptaResistance: a novel strategy based on peptide aptamers to protect grapevines from downy mildew fungal infection”, in collaboration with UNIMI (3 years project, amount required 280 K€) (competitive)
2016	Progetto Euregio – “VITISANA: Dissecting the genetic basis of negative quality traits in new disease resistant grapevines”, in collaboration with Experimental station Laimburg and University of Innsbruck. (3 years project, amount required 320 K€) (competitive)
2015	European Research Project, Marie Skłodowska Curie “Genevabreed - Cloning and functional characterization of a complex resistance locus from ‘Geneva’ to breed apple cultivars with durable scab resistance”. Collaboration between Plant and Food Research (NZ) and FEM. (3 years project, amount required 265 K€) (competitive)
2014	Associated DFG-ANR project “AlternApp: Genetic mechanisms underlying alternate cropping in apple (<i>Malus x domestica</i>)” in collaboration with INRA (coordinator) and 4 other European Institutions. (competitive)
2013	TRANSAPPLE, regional funded project on epigenetics in apple, co-PI with dr. Azeddine SiAmmour (3 years project, amount required 765 K€) (competitive)
2010	KBBE-2010-1-1-01: Fruitbreedomics. Genetic and genomic tools to increase the breeding efficiency in fruit trees: (3 years project, amount requested: 5999 K€) (competitive)
2009	AGER (Bank foundations) 2009: Apple fruit quality in the post-genomic era, from breeding new genotypes to post-harvest: nutrition and health (3 years project, amount requested: IASMA 1006 K€ of 3598 K€) (competitive)
2009	Autonomous Province of Trento and National Institute for Nuclear Physics (2009): “AURORA Project High performance computing for scientific applications.” (18 months, IASMA 110K€ of 1552 K€) (competitive)
2007	Research project “Apple Genome Sequencing” funded by the Province of Trento, in collaboration with Myriad Genetics inc., Salt Lake City, Utah, USA and 454 Life Science, Branford CT USA. (2 years – IASMA 9500 K€)(directly funded)

- 2007 | Research Project “Parallelomics” High parallelism in Genomics and Metabolomics in higher plants, collaboration with ENEA Rome, University of Verona, CRA Fiorenzuola, PTP Lodi. (3 years – IASMA 200 K€ of 1300 K€)(**competitive**)
- 2005 | Research project “Grapevine Genome Sequencing” funded by the Province of Trento, in collaboration with Myriad Genetics inc., Salt Lake City, Utah, USA and 454 Life Science, Branford CT USA. (2 years – IASMA 10500 K€)(**directly funded**)
- 2004-2008 | 6 post-doctoral fellowships funded between 2004 and 2008 funded by the Provincia of Trento (6 x 150 K€)(**competitive**)
- 2003 | Research project “Grapevine Physical mapping”, in collaboration with Università di Udine, Keygene Wageningen, Università di Padova, ERGV Evry Parigi, funded by the Province of Trento. (2 years – IASMA 1500 K€)(**directly funded**)
- 2002 | Ministry of Research and University MURST “Genomics approaches to define biological parameters for grape berry quality”, funded by the Ministry of Research and University (3 years – IASMA 60 K€)(**competitive**)
- 2002 | Research project BAC-co “Analysis of the grape genomic structure towards isolation of relevant genes to improve grape quality “, funded by the Province of Trento. (3 years – IASMA 900 K€)(**competitive**)
- 2001 | Functional genomics in grape (glass microarrays) “Resveratrol” in collaboration with Institute Fraunhofer of Aachen-Schmallenberg, Germany, funded by the Province of Trento and the Fraunhofer Gesellschaft. (3 years - IASMA 450 K€)(**competitive**)
- 2000 | Research project „Advanced Biology in grape and apple“, funded by Fondazione Casse di Risparmio di Trento e Rovereto, CARITRO. (5 years – IASMA 3771 K€) (**competitive**)

Invited lecturers and seminars

2017	IV° Horticulture Research (Nature Group) Congress, East Malling, UK
2017	5° Plant Genomes and gene editing, Amsterdam, The Netherlands
2017	Plant Genomics, IPK Gatersleben, Germany
2016	III° Horticulture Research (Nature Group) Congress, Nanjing, China
2016	Apple World Symposium, Yangling, Xi'An, China
2014	Grape Genetics, Beijing, China
2013	II° Plant Genomics, London, UK
2013	ISHS Molecular Markers in Horticulture, TN (I) (Convenor)
2013	Italian Society of Horticulture, Padua I
2012	ISHS Biotechnology in fruit crops, Nelson NZ
2011	Chinese Agriculture Academy of Science, Beijing, China
2011	Plant Genome Evolution, Amsterdam, NL
2010	ETNA European Training Networks, EPSO PhD school
1999, 2002, 2005, 2007, 2009, 2011, 2013, 2014, 2015, 2016, 2017	Plant and Animal Genomes Congress – San Diego CA
2010	II° Internat. Symposium Genomics of Plant Genetic Resources Bologna (I)
2016	VIII° Congress of Rosaceae Genomics Angers (F) (Chair)
2014	VII° Congress of Rosaceae Genomics Seattle WA (USA)
2012	VI° Congress of Rosaceae Genomics San Michele all'Adige (I) (Convenor)
2010	V° Congress of Rosaceae Genomics Cape Town (ZA)
2008	IV° Congress of Rosaceae Genomics Pucon (CL)
2006, 2009	COST 858 Prague (CZ) and Bordeaux (F)
2007	American Society of Enology and Viticulture, Reno NV (USA)
2006	South African Society of Enology and Viticulture, Stellenbosch (ZA)
2006	5. Plant Genomics European Meeting, Venice (I)
2005	Italian-Israel Joint congress Jerusalem (IL)

Publications

124 REFEREED ISI Web PUBLICATIONS

Total impact points: 580

Average citation per Paper: 41

h-index: 36 (WoS); 39 (Scopus); 47 (G Scholar)

Note: Moser et al., 2005 *Funct. Integr. Genom.*, Karatas et al. *Genet. Mol. Res.*, not included in ISIWeb

Daccord N, Celton JM, Linsmith G, Becker C, Choisne N, Schijlen E, van de Geest H, Bianco L, Micheletti D, Velasco R, Di Pierro EA, Gouzy J, Muranty H, Gaillard S, Durel CE, Laurens F, Lespinasse Y, Aubourg S, Rees JG, Quesneville H, Weigel D, van de Weg E, Troggio M, Bucher E (2017) The apple genome: evolution and methylome dynamics of early fruit development. *Nat. Genet.* (*in press*)

Buonassisi D; Colombo M; Migliaro D; Dolzani C; Peressotti E; Mizzotti C; Velasco R; Masiero S; Perazzolli M; Vezzulli S. (2017) Breeding for grapevine downy mildew resistance: a review of "omics" approaches. *Euphytica* (*in press*)

- Farneti B, Di Guardo M, Khomenko I, Cappellin L, Biasioli F, Velasco R, Costa F (2017) Genome-wide association study unravels the genetic control of the apple volatilome and its interplay with fruit texture. *J Exp Bot (in press)*
- Pessina S., Palmieri L., Bianco L., Gassmann J., Visser R.G.F., Schouten H.J., Salamini F., Velasco R., Malnoy M.A. (2017) Frequency of a natural truncated allele of MdMLO19 in the germplasm of *Malus domestica*. *Mol. Breed.* 37:7
- Malnoy M, Viola R, Jung M-H, Koo O, Kim S, Kim J-S, Velasco R, Kanchiswamy CN, (2016) DNA-free genetically edited fruit crop plants using CRISPR/Cas9 ribonucleoproteins. *Frontiers Plant Science* 7:1904
- Di Pierro EA, Gianfranceschi L, Kruisselbrink JW, Bianco L, Troglio M, Bink CAM, Voorrips E, Di Guardo M, Koehorst HJJ van Putten, Aziz E, Tartarini S, Pagliarini G, Muranty H, Garkava-Gustavsson L, Longhi S, Micheletti D, Velasco R, Laurens F, van de Weg E (2016) A high-density, multi-parental, integrated SNP linkage map of the obligate outcrossing species *Malus x domestica* (Borkh), through a novel mapping approach. *HortRes (in press)*
- Tadiello A, Longhi S, Moretto M, Ferrarini A, Farneti B, Busatto N, Vrhovsek U, Biasioli F, Cappellin L, Sholz M, Velasco R, Trainotti L, Delledonne M, Costa F. (2016) Integrative approach combining transcriptomic assay with physical and metabolite analysis reveal novel clues about the regulatory mechanism governing the climacteric ripening physiology in apple (*Malus x domestica* Borkh.). *Pl. Journal (in press)*
- Buti M, Sargent DJ, Mhelembe KG, Delfino P, Tobutt KR, Velasco R (2016) Genotyping-by-sequencing in an orphan plant species *Physocarpus opulifolius* helps identify the evolutionary origins of the genus *Prunus*. *BMC Res Notes* 9:268
- Pessina S, Angeli D, Martens S, Visser R.G.F, Bai Y, Salamini F, Velasco R, Schouten H.J, Malnoy M. (2016) Knock-down of *MdMLO19* reduces susceptibility to powdery mildew (*Podosphaera leucotricha*) in *Malus x domestica* Borkh. *Plant Biotech J* 14:2033-2044
- Kanchiswamy CN, Maffei M, Malnoy M, Velasco R, Kim J-S. (2016) Fine-tuning next-generation genome editing tools. *Trends Biotech* 34(7): 562-574
- Montanari S, Perchepied L, Bus VGM, Gardiner SE, Chagné D, Durel CE, Velasco R, Malnoy M (2016) Quantitative genetic analysis for fire blight resistance in a pear interspecific family: a major QTL stable through environments and populations mapped to linkage group 2. *Mol Breed* 36: 47-
- Pessina S, Lenzi L, Perazzolli M, Campa M, Dalla Costa L, Urso S, Valè G, Salamini F, Velasco R, Malnoy M. (2016) Knock-down of *MLO* genes reduces susceptibility to powdery mildew in grapevine. *HortRes* 3:16016
- Bianco L, Cestaro A, Linsmith G, Muranty H, Micheletti D, Denance C, Kershbamer E, Larger S, Pindo M, Davassi A, Laurens F, Velasco R, Durel CE, Troglio M. (2016) Development and validation of the Axiom® Apple480K SNP genotyping array. *Plant J* 86, 62–74
- Busatto N, Farneti B, Tadiello A, Velasco R, Costa G, Costa F (2016) Candidate gene expression profiling reveals a time specific activation among different harvesting dates in 'Golden Delicious' and 'Fuji' apple cultivars. *Euphytica* 208:401–413
- Montanari S, Brewer L, Lamberts R, Velasco R, Malnoy M, Perchepied L, Guerif P, Durel CE, Bus VGM, Gardiner SE, Durel CE, Chagné D (2016). Genome mapping of post-zygotic hybrid necrosis in an interspecific pear population. *HortRes* 3:15064
- Muranty H, Troglio M, Ben Sadok I, Al Ridai M, Auwerkerken A, Banchi E, Velasco R, Stevanato P, Van de Weg E, Di Guardo M, Laurens F, Bink CAM (2015) Accuracy and responses of genomic selection on traits scored at harvest in apple. *HortRes* 2:15060
- Cova V, Bandara N L, Tartarini S, Gessler C, Troglio M, Velasco R, Komjanc M (2015) Fine mapping of *Rvi5 (Vm)* scab resistance locus in apple (*Malus x domestica* Borkh.) *Mol. Breed.* 35(10): 200

- Sargent, JD; Yang, Y; Surbanovski, N; Bianco, L; Buti, M; Velasco, R; Giongo, L, Davis, TM (2015) HaploSNP affinities and linkage map positions illuminate subgenome composition in the octoploid, cultivated strawberry (*Fragaria × ananassa*). *Pl. Science* 242 (2016) 140–150
- Di Guardo M, Micheletti D, Bianco L, Koehorst-van Putten KJJ, Longhi S, Costa F, Aranzana MJ, Velasco R, Arús P, Troggio M, van de Weg EW. ASSiST: An Automatic SNP Scoring Tool for in- and outbreeding species. *Bioinformatics*, 2015:1-2
- Potenza E, Racchi M, Sterck L, Asquini E, Velasco R, Van de Peer Y, Cestaro A (2015) Alternative splicing evaluation of 10 different grapevine cultivars. *BMC Genomics* 16:706
- Malacarne G, Costantini L, Coller, E, Battilana J, Velasco R, Vrhovsek U, Grando M.S, Moser C (2015) Integration of transcriptional profiling and metabolic QTL related to flavonol content and composition in (Syrah x Pinot noir) mature grapes. *J Exp Bot* 66(15): 4441-4453
- Falginella L, Cipriani G, Monte C, Testolin R, Velasco R, Troggio M, Gregori R, Tartarini S (2015) A major QTL controlling apple skin russeting on linkage group 12 in the 'Renetta Grigia di Torriana' variety. *BMC Plant Biol* 15:150
- Kanchiswamy CN, Malnoy M, Velasco R, Kim J-S, Viola R (2015) Non-GMO genetically edited crop plants. *Trends Biotech* 33(9): 489-491
- Montanari S, Guérif P, Ravon E, Denancé C, Muranty H, Robert P, Velasco R, Chagné D, Bus V, Percepied L, Durel CE (2015) QTL detection for *Cacopsylla pyri* resistance in an interspecific pear (*Pyrus* spp.) population. *Tree Genom. Genomes (in press)*
- Farneti B, Busatto N, Khomenko I, Cappellin L, Gutierrez S, Spinelli F, Velasco R, Biasioli F, Costa G, Costa F (2015) Untargeted metabolomics investigation of volatile compounds involved in the development of apple superficial scald by PTR-ToF-MS. *Metabolomics* 11:341-349
- Buti M, Poles L, Caset D, Magnago P, Fernandez Fernandez F, Colgan RJ, Velasco R, Sargent DJ (2015) Identification and validation of a QTL influencing bitter pit symptoms in apple (*Malus pumila*). *Mol. Breeding* 35:29-39
- Salvi S, Piazza S, Predieri S, Fuochi P, Velasco R, Malnoy M (2015) High frequency of chromosome deletions in regenerated and mutagenized apple (*Malus x domestica* Borkh.) seedlings. *Mol. Breeding* 34:5-14
- Cova V, Lasserre-Zuber P, Piazza S, Cestaro A, Velasco R, Durel CE, Malnoy M (2015) High-resolution genetic and physical map of the *Rvi1* (Vg) apple scab resistance locus. *Mol. Breeding* 35:16-28
- Cappellin L, Farneti B, Di Guardo M, Busatto N, Khomenko I, Romano A, Velasco R, Costa G, Biasioli F, Costa F (2015) QTL analysis coupled with PTR-ToF-MS and candidate gene based association mapping validate the role of Md-AAT1_{SSR} as a major gene in the control of flavor in apple fruit. *Plant Mol. Biol. Rep.* 33:239–252
- Kanchiswamy CN, Sargent DJ, Velasco R, Maffei ME, Malnoy M (2014) Looking forward: biotechnology of fruit crops. *Trends Biotech.* 33 (2): 62-62
- Gardner KM, Brown P, Cooke T, Cann S, Bustamante C, Velasco R, Troggio M and Myles S. (2014) Fast and cost-effective genetic mapping in apple using next-generation sequencing. *G3 Genes/ Genomes | Genetics* 4(9): 1681-1687
- Padmarasu S, Sargent DJ, Jaensch M, Kellerhalls M, Tartarini S, Velasco R, Troggio M, Patocchi A. (2014) Fine-mapping of the apple scab resistance locus *Rvi12* (Vb) derived from "Hansen's baccata #2". *Mol. Breeding* 34:2119–2129
- Soriano JM, Madduri M, Schaart JG, van der Burgh A, van Kaauwen MPW, Tomic L, Groenwold R, Velasco R, van de Weg E, Schouten HJ (2014) Fine mapping of the gene *Rvi18* (V25) for broad-spectrum resistance to apple scab, and development of a linked SSR marker suitable for marker-assisted breeding. *Mol. Breeding* 34:2021–2032

- Bianco L, Cestaro A, Sargent DJ, Banchi E, Derdak S, Di Guardo M, Salvi S, Viola R, Gut I, Chagné D, Velasco R, van de Weg E, Troggio M (2014) Development and validation of a 20K SNP whole genome genotyping array for apple (*Malus x domestica* Borkh). *PLoS ONE* 9(10):e110377
- Migliaro D, Crespan M, Munoz-Organero G, Velasco R, Moser C, Vezzulli S (2014) Structural dynamics at the berry colour locus in *Vitis vinifera* L. somatic variants. *Austr. J. Grape and Wine Res.* 20, 485–495
- Longhi S, Giongo L, Buti M, Šurbanovski N, Viola R, Velasco R, Ward JA, Sargent DJ (2014) Molecular genetics and genomics of the Rosoideae – state of the art and future perspectives. *HortRes* 1: 1
- Fischer TA, Malnoy M, Hofmann T, Schwab W, Palmieri L, Wehrens R, Schuch LA, Müller M, Schimmelpfeng H, Velasco R, Martens S (2014) An F1 hybrid of cultivated apple (*Malus x domestica*) and European pear (*Pyrus communis*) with fertile F2 offspring. *Mol Breeding* 34:817–828
- Velasco R, Licciardello C (2014) A genealogy of the citrus family. *Nature Biotechnology* 32(7):640–642
- Busatto N, Farneti B, Tadiello A, Vrhovsek U, Cappellin L, Biasioli F, Velasco R, Costa G, Costa F (2014) Target metabolite and gene transcription profiling during the development of superficial scald in apple (*Malus x domestica* Borkh) *BMC Plant Biol* 14(1):193
- Salvi S, Micheletti D, Magnago P, Fontanari M, Viola R, Pindo M, Velasco R (2014) One-step reconstruction of multigeneration pedigree networks in apple (*Malus x domestica* Borkh.) and the parentage of Golden Delicious. *Mol. Breeding* 34:511–524
- Barghini E, Natali L, Cossu MR, Pindo M, Cattonaro F, Scalabrin S, Velasco R, Morgante M, Cavallini A (2014) The peculiar landscape of repetitive sequence in the olive (*Olea europaea* L.) genome. *Genome Biol. Evol.* 6 (4): 776–791
- Chagné D, Crowhurst R, Pindo M,Viola R,....., Troggio M,... Gardiner S E., Velasco R (2014) The draft genome sequence of European pear (*Pyrus communis* L. ‘Bartlett’). *PLoS ONE* 9(4):e92644
- Costa F, Cappellin L, Farneti B, Tadiello A, Romano A, Soukoulis C, Sansavini S, Velasco R, Biasioli F (2014) Advances on QTL mappig for ethylene production in apple (*Malus x domestica* Borkh.) *Postharvest Biol Tec* 87: 126-132
- Perazzolli M, Malacarne G, Baldo A, Righetti L, Bailey AG, Fontana P, Velasco R, Malnoy M (2014) Characterization of NBS resistance genes in apple (*Malus x domestica* Borkh.) and the evolutionary history of the Rosaceae family. *PLoS ONE* 9(2):e83844
- Wolters PJ, Schouten H, Velasco R, Si-Ammour A, Baldi P, (2013) The apple columnar habit associates with bud-specific overexpression of a 2OG-Fe(II) oxygenase-like gene. *New Phytologist* 200: 993–999
- Ferrarini M, Moretto M, Ward JA, Surbanovsky N, Stefanovic V, Giongo L, Viola R, Cavalieri D, Velasco R, Cestaro A, Sargent DJ (2013) An evaluation of the PacBio RS platform for sequencing and *de novo* assembly of a chloroplast genome. *BMC Genomics* 4(1):670
- Di Guardo M, Tadiello A, Farneti B, Lorenz G, Masuero D, Vrhovsek U, Costa G, Velasco R, Costa F (2013) Multidisciplinary approach provides novel insight about fruit flesh browning physiology in apple (*Malus x domestica* Borkh.). *PLoS ONE* 8(10):e78004
- Montanari S, Saeed M, Knaebel M, Kim YK, Troggio M, Malnoy M, Velasco R, Fontana P, Won KH, Durel CE, Percheplied L, Schaffer R, Wiedow C, Bus V, Brewer L, Gardiner SE, Crowhurst RN, Chagné D. (2013) Identification of *Pyrus* Single Nucleotide Polymorphisms (SNPs) and Evaluation for Genetic Mapping in European Pear and Interspecific *Pyrus* Hybrids. *PLoS ONE* 8(10):e77022
- Troggio M, Šurbanovski N, Bianco L, Moretto M, Giongo L, Viola R, Fernandez Fernandez F, Costa F, Velasco R, Cestaro A, Sargent DJ. (2013) Manual annotation of SNP data from the

Malus Infinium[®] array identifies challenges for genetic analysis of the complex apple genome. *PLoS ONE* 8(6):e67407

Nikoforova SV, Cavalieri D, Velasco R, Goremykin V (2013) Analysis of 47 chloroplast genomes clarifies the contribution of wildspecies to the domesticated apple maternal line. *Mol Biol Evol* 30(8):1751-60

Longhi S, Hamblin MT, Trainotti L, Peace CP, Velasco R, Costa F (2013) A candidate gene based approach validates Md-PG1 as the main responsible for a QTL impacting fruit texture in apple (*Malus x domestica* Borkh) *BMC Plant Biology* 13:37

Chagné D, Lin-Wang K, RV Espley, RK Volz, NM How, S Rouse, C Brendolise, CM Carlisle, S Kumar, N De Silva, D Micheletti, T McGhie, RN Crowhurst, RD Storey, R Velasco, RP Hellens, SE Gardiner, AC Allan. (2013) An ancient duplication of apple MYB transcription factors is responsible for novel red fruit-flesh phenotypes. *Plant Phys.* 161(1):225-39

Ward JA, Bhangoo J, Fernández-Fernández F, Moore P, Swanson JD, Viola R, Velasco R, Bassil N, Weber C, Sargent JD (2013) Saturated linkage map construction in *Rubus idaeus* using genotyping by sequencing and genome-independent imputation. *BMC Genomics* 14:2

Baldi P, Wolters PJ, Komjanc M, Viola R, Velasco R, Salvi S (2013) Genetic and physical characterization of the locus controlling columnar habit in apple (*Malus x domestica* Borkh.) *Mol. Breeding* 31:429–440

Perazzolli M, Moretto M, Fontana P, Ferrarini A, Velasco R, Moser C, Delledonne M, Pertot I (2012) Downy mildew resistance induced by *Trichoderma harzianum* T39 in susceptible grapevines partially mimics the defence processes of resistant genotypes. *BMC Genomics* 13(1):660

Vezzulli S, Leonardelli L, Malossini U, StEfanini M, Velasco R, Moser C (2012) The evolutionary model of Pinots. *J Exp Bot* 63(18):6359–6369

Young PR, Lashbrooke JG, Alexandersson E, Jacobson D, Moser C, Velasco R, Vivier MA. (2012) The genes and enzymes of the carotenoid biosynthetic pathway in *Vitis vinifera* L. *BMC Genomics* 13:243

Antanaviciute L, Fernandez F, Jansen J, Banchi E, Evans KM, Viola R, Velasco R, Dunwell JM, Troglio M, Sargent DJ (2012) An evaluation of the *Malus Infinium* whole genome genotyping array in an apple rootstock mapping progeny. *BMC Plant Biol.* 13:203

Falda M, Toppo S, Pescarolo A, Lavezzo E, Di Camillo B, Facchinetti A, Cilia E, Velasco R, Fontana P (2012) Argot2: a large scale function prediction tool relying on semantic similarity of weighted Gene Ontology terms. *BMC Bioinformatics Notes suppl.* 4:S14

Goremykin V., PJ Lockhart, R Viola, R Velasco (2012) mtDNA of *Malus domestica* and the import-driven hypothesis of mtDNA expansion in seed plants. *Plant J* 71(4):615-626

Bushakra JM, Sargent DJ, Cabrera A, Crowhurst R, Lopez Girona E, Troglio M, Vaughan Symonds V, van der Knaap E, Velasco R, Gardiner SE, Chagné D (2012) Assessing genome synteny between *Malus* and *Fragaria* using Rosaceae conserved orthologous set (RosCOS) markers. *Tree Genes. Genomes* 8:643–658

Jung S, Cestaro A, Troglio M, Main D, Zheng P, Cho I, Folta KM, Sosinski B, Abbott A, Celton JM, Arus P, Shulaev V, Verde I, Morgante M, Roksahr DS, Velasco R, Sargent DJ (2012) Whole genome comparisons of *Fragaria*, *Prunus* and *Malus* reveal different modes of evolution between Rosaceous subfamilies. *BMC Genomics* 13:129

Khan SA, Chibon PY, de Vos RHC, Schipper BA, Walraven E, Beekwilder J, van Dijk T, Finkers R, van de Weg EW, Bovy A, Cestaro A, Velasco R, Visser RGF, Jacobsen E, Schouten HJ (2012) Genetical metabolomics in apple indicates an mQTL hotspot on Linkage Group 16. *J. Exp. Bot.* 63(8) 2895-2908

Chagné D, Crowhurst RN, Troglio M, Davey MW, Vanderzande S, Gilmore B, Lawley C, Cestaro A, Gardiner SE, Main D, Rees J, Velasco R, Bassil N, Peace C. (2012) Genome-wide SNP

detection, validation and development of a SNP Infinium II assay for apple. *PLoS ONE* 7(2): e31745

Vrhovsek U, Malacarne G, Masuero D, Zulini L, Guella G, Stefanini M, Velasco R, Mattivi F. (2012) Profiling and accurate quantification of *trans*-resveratrol, *trans*-piceid, *trans*-pterostilbene and eleven viniferins induced by *Plasmopara viticola* in partially resistant grapevine leaves. *Austr. J. Grape and Wine Res.* 18:11-19

Dunemann F, D. Ulrich, L. Malysheva-Otto, W. E. Weber, R. Velasco and F. Costa. (2012) Functional allelic diversity of the apple alcohol acyl-transferase gene *MdAAT1* associated with fruit ester volatile contents in apple cultivars. *Mol. Breeding* 29:609–625

Longhi S, Moretto M, Viola R, Velasco R, Costa F (2012). Comprehensive QTL mapping survey dissects the complex fruit texture physiology in apple (*Malus x domestica* Borkh.) *J. Exp. Bot.* 63(3):1107-21

Malacarne G, Perazzolli M, Cestaro A, Sterck L, Fontana P, Van de Peer Y, Viola R, Velasco R, Salamini F (2012) Transposition mediated deconstruction of a (paleo)polyploid genome. *PLoS ONE* 7(1):e29762

Guitton B, Kelner JJ, Velasco R, Gardiner S, Chagne D, Costes E (2012). Genetic control of biennial bearing in apple. *J. Exp. Bot.* 63(1):131-49

Costa F, Longhi S, Cappellin L, Guerra W, Velasco R, Salvi S, Biasioli F and Gasperi F (2011) Mechanical and acoustical profile investigation to dissect fruit texture complexity in apple. *Postharvest Biol Tec* (in press)

Bassil, N.V.; Peace, C.P.; Main, D.; Gilmore, B.; Mockler, T.; Wilhelm, L.; Chagne, D.; Gardiner, S.E.; Crowhurst, R.; Verde, I.; Sosinski, B.; Morgante, M.; Scalabrin, S.; Arus, P.; Velasco, R.; Troglio, M.; Cestaro, A.; Ficklin, S.; Fazio, G.; Norelli, J.; Rees, J.; Lawley, C.; Hansen, M.; Iezzoni, A. RosBREED deploys genome-wide scans in peach, apple, and cherry. (2011) *HortScience* 46(9 (suppl.)), S101.

Moser M, Musetti R, Velasco R, Jarausch W. (2011) Gene expression analysis and cytochemical investigations in 'Candidatus Phytoplasma mali'-resistant and -susceptible *Malus* genotypes grown in vitro. *Bulletin of Insectology* 64: 161-162

Jarausch, W, Bisognin C, Schneider B, Grando, S, Velasco R, Seemueller, E. (2011) Breeding apple proliferation-resistant rootstocks: durability of resistance and pomological evaluation. *Bulletin of Insectology* 64: 275-276

Malacarne G, Vrhovsek U, Zulini L, Cestaro A, Stefanini M, Mattivi F, Delledonne M, Velasco R, Moser C (2011) Grapevine resistance to *Plasmopara viticola* is associated to stilbenoids accumulation and to specific transcriptional responses as revealed by metabolic and gene expression profiling of resistant and susceptible individuals in a segregating population. *BMC Plant Biol* 2011, 11:114

Vrhovsek U, Malacarne G, Masuero D, Zulini L, Guella G, Stefanini M, Velasco R, Mattivi F. (2011) Profiling and accurate quantification of *trans*-resveratrol, *trans*-piceid, *trans*-pterostilbene and eleven viniferins induced by *Plasmopara viticola* in partially resistant grapevine leaves. *Austr. J. Grape and Wine Res.* (submitted)

Guitton B, Kelner JJ, Velasco R, Gardiner SE, Chagnè D, Costes E (2011) Genetic control of biennial bearing in apple. *BMC Plant Biol* (submitted)

Mattivi F, Vrhovsek U, Malacarne G, Masuero D, Zulini L, Stefanini M, Moser C, Velasco R, Guella G (2011) Profiling of resveratrol oligomers, important stress metabolites accumulating 1 in the leaves of hybrid *V. vinifera* (Merzling x Teroldego) genotypes infected with *Plasmopara viticola*. *J. Agr. Food Chem.* (in press)

Dunemann F, D. Ulrich, L. Malysheva-Otto, W. E. Weber, R. Velasco and F. Costa. (2011) Functional allelic diversity of the apple alcohol acyl-transferase gene *MdAAT1* associated with fruit ester volatile contents in apple cultivars. *Mol. Breeding* (in press)

- Micheletti D, Troggio M, Zharkikh A, Costa F, Malnoy M, Velasco R, Salvi S (2011) Genetic diversity of the genus *Malus* and implications for linkage mapping *Tree Genet. Genomes* (in press)
- Costa F, Longhi S, Cappellin L, Guerra W, Velasco R, Salvi S, Biasioli F and Gasperi F (2011) Mechanical and acoustical profile investigation to dissect fruit texture complexity in apple. *Postharvest Biol Tec* (in press)
- Shulaev V, DJ Sargent, RN Crowhurst, T Mockler, O Folkerts, ..., M Troggio, R Viola, ... R Velasco, M Borodovsky, RE Veilleux, KM Folta (2011) The genome of woodland strawberry (*Fragaria vesca*). *Nature Genetics* 43(2): 109-116
- Moreira F.M., Madini A, Marino R, Zulini L, Stefanini M, Velasco R, Kozma P, Grando MS (2011) Genetic linkage maps of two interspecific grape crosses (*Vitis* spp.) used to localize quantitative trait loci for downy mildew. *Tree Genet. Genomes* 7:153-167
- Illa E, DJ Sargent, E Lopez Girona, J Bushakra, A Cestaro, R Crowhurst, M Pindo, A Cabrera, E van der Knaap, A Iezzoni, S Gardiner, R Velasco, P Arus, D Chagne, M Troggio (2011) Comparative analysis of rosaceous genomes and the reconstruction of a putative ancestral genome for the family *BMC Evol Biol* 11:9
- Botton A, Eccher G, Forcato C, Ferrarini A, Begheldo M, Zermiani M, Moscatello S, Battistelli A, Velasco R, Ruperti B, Ramina A. (2011) Signalling pathways mediating the induction of apple fruitlet abscission. *Plant Physiol.* 155: 185-208
- Karatas DD, Kunter B, Coppola G, Velasco R (2010) Lack of polymorphisms based on SSCP markers in gamma-irradiated (Co⁶⁰) grape (*Vitis vinifera*) varieties. *Genet. Mol. Res.* 9 (4): 2357-2363
- Velasco R, Zharkikh A, Affourtit J, Dhingra A, Cestaro A, et al. (2010) The genome of the domesticated apple (*Malus x domestica* Borkh). *Nature Genetics* 42 (10), 833-839
- Scalabrin S., Troggio M., Moroldo M., Pindo M., Felice N., Coppola G., Prete G., Malacarne G., Marconi R., Faes G., Jurman I., Grando S., Jesse T., Segala C., Valle G., Policriti A., Fontana P., Morgante M., Velasco R, (2010) Physical mapping in highly heterozygous genomes: a physical contig map of the Pinot Noir grapevine cultivar. *BMC Genomics* 11:204
- Perazzolli M, Bampi F, Faccin S, Moser M, De Luca F, Ciccotti AM, Velasco R, Gessler C, Pertot I, Moser C. (2010) *Armillaria mellea* Induces a Set of Defense Genes in Grapevine Roots and One of Them Codifies a Protein with Antifungal Activity. *Mol Plant Microbe Interact* 23(4): 485-496
- Dal Cin V, Velasco R, Ramina A. (2009) Dominance induction of fruitlet shedding in *Malus X domestica* (L. Borkh): molecular changes associated with polar auxin transport. *BMC Plant Biology* 9:139
- Zamboni A, Gatto P, Cestaro A, Pilati S, Viola R, Mattivi F, Moser C, Velasco R, (2009) Grapevine cell early activation of specific responses to DIMEB, a resveratrol elicitor. *BMC Genomics* 10:363
- Dal Cin V, Barbaro E, Danesin M, Murayama H, Velasco R, Ramina A. (2009) Fruitlet abscission: A cDNA-AFLP approach to study genes differentially expressed during shedding of immature fruits reveals the involvement of a putative auxin hydrogen symporter in apple (*Malus domestica* L. Borkh). *Gene.* 442(1-2):26-36
- Lazzari B, Caprera A, Cestaro A, Merelli I, Del Corvo M, Fontana P, Milanese L, Velasco R, Stella A. (2009) Ontology-oriented retrieval of putative microRNAs in *Vitis vinifera* via GrapeMiRNA: a web database of de novo predicted grape microRNAs. *BMC Plant Biol.* 9(1):82
- Bisognin C, E. Seemüller, S. Citterio, R. Velasco, M.S. Grando, and W. Jarausch. (2009) Use of SSR markers to assess sexual vs apomictic origin and ploidy level of breeding progenies derived from crosses of apple proliferation-resistant *Malus sieboldii* and its hybrids with *Malus x domestica* cultivars. *Plant Breeding* 128: 507-513

- Fontana P, Cestaro A, Velasco R, Formentin E, Toppo S (2009) Rapid annotation of anonymous sequences from genome projects using semantic similarities and a weighting scheme in Gene Ontology. *PLoS ONE* 4(2):e4619
- Battilana J, Costantini L, Emanuelli F, Sevini F, Segala C, Moser S, Velasco R, Versini G, Grando MS. (2009) DXP synthase emerged from QTL analysis as a key gene for Muscat flavour determination in grape (*Vitis vinifera* L.). *Theor Appl Genet* 118(4):653-69
- Goremykin V, Salamini F, Velasco R, Viola R (2009). Abnormalities in phylogeny reconstruction of plant mtDNA, grapevine included, are not necessarily due to horizontal gene transfer. *Mol. Biol. Evol.* 26: 99-110
- Vezzulli S, D. Micheletti, S. Riaz, M. Pindo, R. Viola, P. This, M.A. Walker, M. Troggio, R. Velasco (2008) A wide SNP transferability survey within the genus *Vitis*. *BMC Plant Biology* 8: 128
- Gatto P, Vrhovsek U, Muth J, Segala C, Romualdi C, Fontana P, Pruefer D, Stefanini M, Moser C, Mattivi F, Velasco R (2008) Ripening and genotype control of the stilbene accumulation in healthy grape berry *J Agric Food Chem* 56: 11773-85
- Giannetto S, Velasco R, Troggio M., Malacarne G, Storchi P, Cancellier S, De Nardi B, Crespan M (2008). A PCR-based method useful to distinguish grape skin color mutants from white to colored and from black to grey, pink or white. *Plant Sci.* 175: 402-409
- Vezzulli S., M. Troggio, G. Coppola, A. Jermakow, D.A. Carthwright, A. Zharkikh, M. Stefanini, M.S. Grando, R. Viola, A.-F. Adam-Blondon, M.R. Thomas, P. This, R. Velasco (2008). A functional integrated map for cultivated grapevine (*Vitis vinifera* L.) from three pedigrees, based on 283 SSR and 501 SNP-based markers. *Theor. Appl. Genet.* 117(4):499-511
- Troggio M, Silvia Vezzulli, Massimo Pindo, Giulia Malacarne, Paolo Fontana, Flavia Maia Moreira, Laura Costantini, M. Stella Grando, Roberto Viola and Riccardo Velasco (2008) Beyond the Genome, Opportunities for a Modern Viticulture: A Research Overview. *Am. J. Vit. Enol.* 59: 2-11
- Zharkikh A, Michela Troggio, Dmitry Pruss, Massimo Pindo, Glenn Eldrdge, Alessandro Cestaro, Jeff T. Mitchell, Silvia Vezzulli, Satish Bhatnagar, Paolo Fontana, Roberto Viola, Alexander Gutin, Francesco Salamini, Mark Skolnick, Riccardo Velasco (2008) Sequencing and Assembly of Highly Heterozygous Genome of *Vitis vinifera* L. cv. Pinot Noir: Problems and Solutions. *J. Biotech* 136: 38-43
- Salmaso M, Malacarne G, Troggio M, Stefanini M, Grando MS, Velasco R. Integrated SNPs-based genetic map of grapevine (*Vitis vinifera* L.). (2008) *Theor. Appl. Genet.* 116:1129-1143
- M Pindo, S Vezzulli, G Coppola, D Cartwright, A Zharkikh, R Velasco, M Troggio. SNP High throughput screening in grapevine using the SNPlex™ genotyping system.(2008) *BMC Plant Biol.* 8:12
- Troggio M, Malacarne G, Vezzulli S, Faes G, Salmaso M, Velasco R. (2008) Methods for polymorphism detection and genotyping within expressed regions in grapevine genome. *Vitis* 47: 21-30
- R. Velasco, A. Zharkikh, M. Troggio, D.A. Cartwright, A. Cestaro, D. Pruss, M. Pindo, L.M. FitzGerald, S. Vezzulli, J. Reid, G. Malacarne, D. Iliev, G. Coppola, B. Wardell, D. Micheletti, T. Macalma, M. Facci, J.T. Mitchell, M. Perazzolli, G. Eldredge, P. Gatto, R. Oyzerski, M. Moretto, N. Gutin, M. Stefanini, Y. Chen, C. Segala, C. Davenport, L. Demattè, A. Mraz, J. Battilana, K. Stormo, F. Costa, Q. Tao, A. Si-Ammour, T. Harkins, A. Lackey, C. Perbost, B. Taillon, A. Stella, V. Soloviev, J.A. Fawcett, L. Sterck, M.S. Grando, S. Toppo, C. Moser, J. Lanchbury, R. Bogden, M. Skolnick, V. Sgaramella, S.K. Bhatnagar, P. Fontana, A. Gutin, Y. Van de Peer, F. Salamini, R. Viola. (2007) A High Quality Draft Consensus Sequence of the Genome of a Heterozygous Grapevine Variety. *PLoS ONE* 2(12) e1326
- Moser M., Sprenger C, Bisognin C, Velasco R, Jarausch W. (2007) Gene expression study in different 'Ca. Phytoplasma mali' - infected micropropagated Malus genotypes. *Bulletin of Insectology* 60(2) 207-08

- Jarausch W, Bisognin C, Schneider B, Grando S, Velasco R, Seemuller E. (2007) Breeding of apple rootstocks resistant to 'Candidatus Phytoplasma mali' *Bulletin of Insectology* 60(2): 299-300
- Pilati S, Perazzolli M, Malossini A, Cestaro A, Demattè L, Fontana P, Dal Rì A, Viola R, Velasco R, Moser C; Genome-wide transcriptional analysis of grapevine berry development. (2007) *BMC Genomics* 22;8(1):428
- Karataş H, D. Değirmenci, R. Velasco, S. Vezzulli, Ç. Bodur, Y. Sabit Ağaoğlu, Microsatellite fingerprinting of homonymous grapevine (*Vitis vinifera* L.) varieties in neighboring regions of South-East Turkey. (2007) *Sci. Hort.* 114/3: 164-169
- Troggio M, Malacarne G, Coppola G, Segala C, Cartwright D, Pindo M, Stefanini M, Mank R, Moroldo M, Morgante M, Grando MS, Velasco R. (2007) A physically anchored SNP-based genetic linkage map of grapevine (*Vitis vinifera* L.) *Genetics* 176(4): 2637-50
- Cartwright D, Troggio M, Velasco R, Gutin A (2007) Genetic mapping in the presence of genotyping error. *Genetics* 176(4): 2521-7
- Mattivi F, Guzzon R, Vrhovsek U, Stefanini M, Velasco R (2006) Metabolite profiling of Grape: Flavonols and Anthocyanins. *J. Agric. Food Chem.* 54(20): 7692-7702
- Zamboni A, Vrhovsek U, Kassemeyer HH, Mattivi F, Velasco R. (2006) Elicitor-induced resveratrol production in cell cultures of different grape genotypes. *Vitis* 45(2): 63-68
- Bertamini M, Muthuchelian K, Ribinigg M, Zorer R, Velasco R, Nedunchezian N (2006) Low-night temperature increased the photoinhibition of photosynthesis in grapevine (*Vitis vinifera* L. cv. Riesling) leaves. *Environ. Exper. Bot.* 57:25-31
- Lalle M, Visconti S, Marra M, Camoni L, Velasco R, Aducci P. (2005) ZmMPPK6, a novel maize MAP kinase that interacts with 14-3-3 proteins. *Plant Mol. Biol.* 59: 713-722
- Moser C, Segala C, Fontana P, Salakhutdinov I, Gatto P, Pindo M, Zyprian E, Toepfer R, Grando MS, Velasco R. (2005) Comparative analysis of expressed sequence tags from different organs of *Vitis vinifera* L.. *Funct. Integr. Genomics* 5(4): 208-217
- Sturaro M, Hartings H, Schmelzer E, Velasco R, Salamini F, Motto M. (2005) Cloning and characterizing of GLOSSY1, a maize gene involved in cuticle membrane and wax production. *Plant Physiol.* 138(1): 478-489
- Adam-Blondon AF, Bernole A., Pateyron S., Faes G., Grando M.S., Velasco R., Caboche M., Chalhoub B. (2005) Construction of BAC library resources for physical mapping of the *Vitis vinifera* genome. *Theor. Appl. Genet.* 110(8): 1363-1371
- Fontana P., Bindewald E., Toppo S., Velasco R., Valle G., Tosatto S.C.E. (2004) The SSEA server for protein secondary structure alignment. *Bioinformatics* 21: 393-395
- Salmaso M, Faes G, Segala C, Stefanini M, Salakhutdinov I, Zyprian E, Toepfer R, Grando MS, Velasco R. (2004) Genome diversity in grapevine (*Vitis vinifera* L.) revealed by single nucleotide polymorphisms. *Mol. Breeding* 14: 385-395
- P. Baldi, A. Patocchi, E.Zini, C. Toller, R. Velasco, M. Komjanc (2004). Cloning and linkage mapping of resistance genes homologues in apple. *Theor. Appl. Gen.* 109, 1: 227-235
- Moser C, Gatto P, Moser M, Pindo M, Velasco R. Isolation of functional RNA from grapevine and apple tissues with a modified hot borate method. (2004) *Mol. Biotech.* 26: 95-99
- Grando MS, Bellin D, Edwards KJ, Pozzi C, Stefanini M, Velasco R. (2003) Molecular linkage maps of *Vitis vinifera* and *Vitis riparia*. *Theor. Appl. Gen.* 106(7): 1213-24.
- Bhat RA, Riehl M, Santandrea G, Velasco R, Slocombe S, Donn G, Steinbiss HH, Thompson RD, Becker HA (2003). Alteration of GCN5 levels in maize reveals dynamic responses to manipulating histone acetylation. *Plant J.* 33:455-469
- Shaporova N., McMullen MD., ...Velasco R., Thompson R., ...Davis G., Coe Jr. EH. (2002) Development and mapping of SSR markers for maize. *Plant Mol. Biol.* 48 (5-6): 463-481

Velasco R., Korfhage C., Salamini A., Tacke E., Schmitz J., Salamini F. and Döring H.P. (2002) Expression of the *glossy2* gene of maize during plant development. *Maydica* 47: 71-81

Velasco R., Salamini F., Bartels D. (1998) ABA and drought stress modulate the expression of CDet1124 gene from the resurrection plant *Craterostigma plantagineum*: gene expression and regulation analysis. *Planta* 204: 459-471

Borisjuk N.V., Davidjuk Y, Kostishin S., Miroshnichenco G.P., Velasco R., Hemleben V., Volkov R.A. (1997) Structural analysis of rDNA in the genus *Nicotiana*. *Plant Mol. Biol.* 35: 655-660

Velasco R., Salamini F., Bartels D. (1994) Dehydration and ABA increase mRNA levels and enzyme activity of cytosolic GAPDH in the resurrection plant *Craterostigma plantagineum*. *Plant Mol. Biol.* 26: 541-546

Alamillo J.M., Roncarati R., Heino P., Velasco R., Nelson D., Elster R., Bernacchia G., Furini A., Schwall G., Salamini F., Bartels D. (1994) Molecular analysis of desiccation tolerance in barley embryos and in the resurrection plant *Craterostigma plantagineum*. *Agronomie* 2: 161-167

Bochicchio A., Vazzana C., Velasco R., Singh S., Bartels D. (1991) Exogenous ABA induces desiccation tolerance and leads to the synthesis of specific gene transcripts in immature embryos of maize. *Maydica* 36: 11-16

Book chapters

Muleo R, Morgante M, Cattonaro F, Scalabrin S, Cavallini A, Natali L, Perrotta G, Lopez L, Velasco R., Kalaitzis P. (2017) Genome Sequencing, Transcriptomics, and Proteomics. In: *The Olive Tree Genome* Compendium of Plant Genomes. Rugini E, Baldoni L, Muleo R, Sebastiani L eds. pagg. 141-162, Springer Verlag Berlin Heidelberg

Bavaresco L, Gardiman M, Brancadoro L, Espen L, Failla O, Scienza A, Vezzulli S, Zulini L, Velasco R., Stefanini M, Di Gaspero G, Testolin R. (2015) *Grapevine breeding programs in Italy: traditional and molecular techniques*. Pagg. 135-155 Woodhead Publishing Series in Food Science, Technology and Nutrition. Andrew G. Reynolds Ed., Elsevier

Muleo R, Morgante M, Velasco R., Cavallini A, Perrotta G, Baldoni L. (2012) Olive Tree Genomics. in *Olive Germplasm - The Olive Cultivation, Table Olive and Olive Oil Industry in Italy (7): 135-148. Agricultural and Biological Sciences*. Edited by I Muzzalupo, Publisher InTech.

Adam-Blondon AF, Jaillon O, Morgante M, Valle G, Pé EM, Vezzulli S, Zharkikh A, Troggio M, Velasco R. (2011) Genome Sequence Initiative. In: *Encyclopedia of Plant Genomics*. Eds: JM Martinez-Zapater and AF Adam Blondon. Science Publishers

Sosinski B, Shulaev V, Dhingra A, Kalyanaraman A, Bumgarner R, Rokhsar D, Verde I, Velasco R., Abbott AG. (2010) Rosaceous Genome Sequencing: Perspectives and Progress. Folta, Kevin M. & Gardiner, Susan E. (Eds.), *Plant Genetics and Genomics: Crops and Models, Vol. 6: 601-616*. Springer Verlag Berlin Heidelberg

Zentgraf U., Velasco R., Hemleben V. (1998) Molecular Cell Biology: Different transcriptional activities in the nucleus. *Progress in Botany vol. 59: 131-168*. Springer Verlag Berlin Heidelberg

Bartels D., Heino P., Nelson D., Michel D., Furini A., Bernacchia G., Velasco R., Roncarati R., Elster R., Schwall G., Alamillo J., Salamini F.(1994) Analysis and regulation of gene expression in the resurrection plant *Craterostigma plantagineum*. *N.A.T.O. Advanced Studies Institut Plant Molecular Biology, vol. H 81: 267-275*. Eds: G. Coruzzi and P. Puigdomenech, Springer Verlag Berlin Heidelberg

Bartels D., Alexander R., Schneider K., Elster R., Velasco R., Alamillo J., Bianchi G., Nelson D., Salamini F.(1993) Desiccation-related gene products analysed in a resurrection plant and in barley embryos. In *Plant Responses to Cellular Dehydration During Environmental Stress pp. 119-127*, Eds: T.J. Close and E.A. Bray, published by American Society for Plant Physiologists.

Bartels D., Velasco R., Schneider K., Forlani F., Furini A., Salamini F. (1993) Resurrection plants as a model system to study desiccation tolerance in higher plants. In *Biotechnologies in*

Aridland Plants pp. 47-58. Eds.: T. Mabry, H. Nguyen, R. Dixon, M.S. Bonness. Published by IC² University of Texas, Austin, Texas USA

Bohicchio A., Vernieri P., Puliga S., Velasco R., Vazzana C. (1992) Desiccation tolerance in immature embryos of maize. Possible implication of ABA. *Basic and Applied Aspects of Seeds Biology* vol. 1: 115-120, Angers. Eds Come D. and Corbineau F., Universite' Pierre et Marie Curie – Paris

Autorizzo il trattamento dei dati personali contenuti nel mio curriculum vitae in base art. 13 del D. Lgs. 196/2003.