

Prof Guido CIPRIANI

PERSONAL DETAILS

Nationality: Italian

Place and date of birth: Cividale del Friuli (UD) – Italy, 05.02.61

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PROFILE

Area of activity / line of research

Analysis of plant genomes, high throughput genotyping of fruit crops, development of genetic maps and molecular markers, applied marker assistant selection, functional genomics studies. Plant breeding of *Actinidia* with the aim to develop new cultivars with improved fruit traits (flesh color, size, different harvest periods, storage). Development of gender markers in *Actinidia*. Genome editing in kiwifruit. Plant breeding of *Vitis* both for wine and table cultivars with the aim to introgress resistance genes to the main pathogens. Germplasm collection of new sources of resistance genes. Mapping and markers development of the new genes. Plant breeding of *Malus*, with the aim to introgress resistance genes to scab, downy mildew and fire blight.

Lectures

Grape Genetics and breeding – University of Udine

Fruit genetics and breeding – University of Udine

Pomology – University of Udine

Participation in national research projects

- Breeding for quality: Ministry of Agriculture Research project
- Expressed Sequence Tags in peach – Ministry of Research and technology
- Sugar metabolism and gene regulation – Ministry of Research and technology
- Association mapping in strawberry – Ministry of Research and technology
- Breeding for resistance/tolerance to PSA in kiwifruit – Ministry of Agriculture

Other information

Degree award “Domenico e Camilla Pecile” for the thesis at University of Udine

Honorary Fellow of Plant & Food Research – The New Zealand Institute for Plant and Food research Limited

Affiliation

Member of the Società Orticola Italiana (SOI)

Member of the International Society of Horticultural Sciences (ISHS)

EDUCATION

1987 Degree in Agricultural Science, University of Udine

1994 PhD – University of Udine

PROFESSIONAL EXPERIENCE

1991-1994 PhD student at University of Udine, Fac. Agriculture

1992 -1993 PhD student at University of Auckland (NZ), Faculty of Biology, 8 months

1995-2000 technician at Faculty of Agriculture – University of Udine

1997 Visiting scientist at HortResearch, Auckland (NZ), 3 months

1999 Visiting scientist at University of Santiago (Chile), 1 month

2000 – 2010 Senior scientist at University of Udine, Faculty of Agriculture

2001-2002 Visiting scientist at HortResearch, Auckland (NZ), 4 months, OECD fellowship

2000 – present Lecturer at Faculty of Agriculture, University of Udine

2010 – 2014 Head of the Fruit Crop Research Centre – CRA – Rome

2014 – Associate Professor, University of Udine

2018 – Full Professor, University of Udine

Publications of the last five years

- Dettori MT, Micali S, Giovinazzi J, Scalabrin S, Verde I, Cipriani G. 2015. Mining microsatellites in the peach genome: development of new long-core SSR markers for genetic analyses in five *Prunus* species. SpringerPlus 4:337. DOI 10.1186/s40064-015-1098-0
- Falginella L, Cipriani G, Monte C, Gregori R, Testolin R, Velasco R, Troglio M, Tartarini S. 2015. A major QTL controlling apple skin russeting maps on the linkage group 12 of “Renetta Grigia di Torriana”. BMC Plant Biology 15:150 DOI 10.1186/s12870-015-0507-4
- Scaglione D, Fornasiero A, Pinto C, Cattonaro F, Spadotto A, Infante R, Meneses C, Messina R, Lain O, Cipriani G, Testolin R. 2015. A RAD-based linkage map of kiwifruit (*Actinidia chinensis* Pl) as a tool to improve the genome assembly and to scan the genomic region of the gender determinant for the marker-assisted breeding. TGG 11:115. DOI 10.1007/s11295-015-0941-3
- Vischi M, Chiabà C, Raranciuc S, Poggetti L, Messina R, Ermacora P, Cipriani G, Paffetti R, Vettori C, Testolin R. 2017. Genetic diversity of Walnut (*Juglans regia* L.) in the Eastern Italian Alps. Forests 8:81 doi:10.3390/f8030081
- Poggetti L, Ermacora P, Cipriani G, Pavan F, Testolin R. 2017. Morphological and carpological variability of walnut germplasm (*Juglans regia* L.) collected in North-Eastern Italy and selection of superior genotypes. Scientia Horticulturae 225: 615-619 <http://dx.doi.org/10.1016/j.scienta.2017.07.056>
- Carbone K, Ciccoritti R, Paliotta M, Rosato T, Terlizzi M, Cipriani G. 2017. Chemometric classification of early-ripening apricot (*Prunus armeniaca*, L.) germplasm based on quality traits, biochemical profiling and in vitro biological activity. Scientia Horticulturae 227: 187-195 <http://dx.doi.org/10.1016/j.scienta.2017.09.020>
- Foria, Serena; Copetti, Dario; Eisenmann, Birgit; Magris, Gabriele; Vidotto, Michele; Scalabrin, Simone; Testolin, Raffaele; Cipriani, Guido; Wiedemann-Merdinoglu, Sabine; Bogs, Jochen; Di Gaspero, Gabriele; Morgante, Michele. 2019. Gene duplication and transposition of mobile elements drive evolution of the Rpv3 resistance locus in grapevine. Plant Journal doi [10.1111/tbj.14551](https://doi.org/10.1111/tbj.14551)
- Testolin, Raffaele; Foria, Serena; Baccichet, Irina; Messina, Rachele; Danuso, Francesco; Losa, Alessia; Scarbolo, Ennio; Stocco, Marco; Cipriani, Guido. 2019. Genotyping apple (*Malus x domestica* Borkh) heirloom germplasm collected and maintained by the Regional Administration of Friuli Venezia Giulia (Italy). SCIENTIA HORTICULTURAE 252: 229-237
- Irina Baccichet, Serena Foria, Rachele Messina, Elisabetta Pecol, Alessia Losa, Michele Fabro, Gianluca Gori, Pietro Zandigiaco, Guido Cipriani, Raffaele Testolin. 2019. Genetic and ploidy diversity of pear (*Pyrus* spp.) germplasm of Friuli Venezia Giulia, Italy. Genetic Resources and Crop Evolution (Print ISSN: 0925-9864; Online ISSN: 1573-5109)