

## **CURRICULUM VITAE**

### **Personal Information:**

Morgante Michele

Italian

03/10/1964

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Scopus Author ID: 7005950440

Google scholar: <https://scholar.google.it/citations?hl=it&user=-42meGUAAAAJ>

### **Education:**

1983-1987: Laurea in Forest Sciences, Università di Padova, Italy

### **Current Position(s):**

2005- present Full Professor, Genetics, Università di Udine

2006- present Scientific Director, Istituto di Genomica Applicata, Udine

2023- present Scientific Director, Fondazione per la Ricerca Genomica e Epigenomica, Udine

### **Previous Positions:**

1988-1990 Research Fellow Regione FVG, Dipt. Produzione Vegetale e Tecnologie Agrarie, University of Udine, Italy.

1990-1992 Research Fellow in Agricultural Genetics "V.V. Landi" Foundation of the Accademia Nazionale dei Lincei

1992-1994 Postdoctoral Visiting Scientist, Agricultural Products Department - Biotechnology Research, E.I. du Pont de Nemours & Co., Wilmington, DE

1994-2000 Researcher, Genetics, Dipt. Produzione Vegetale e Tecnologie Agrarie, University of Udine, Italy

1998-2002 Senior Scientist, Agricultural Products Department - Biotechnology Research, E.I. du Pont de Nemours & Co., Wilmington, DE

2000- 2005 Associate Professor, Plant Genetics, Dipt. Produzione Vegetale e Tecnologie Agrarie, University of Udine, Italy

2005- 2009 Guest Professor, Umea Plant Science Center, Umea University, Sweden

2008-2013 Vice Rector for Research and Technology Transfer, Università di Udine

### **Fellowships and awards:**

- 2023 Member Accademia dei Georgofili

- 2023 Member Accademia di Ingegneria e Tecnologia (ITATEC)

- 2021 Member Istituto Veneto di Scienze, Lettere ed Arti

- 2018 Member Accademia Europaea

- 2015 Member Accademia Nazionale di Agricoltura

- 2011 European Research Council Advanced Grant Award

- 2010 Member Accademia Italiana della Vite e del Vino

- 2007 Member, Accademia Nazionale dei Lincei

- 2006 Member Accademia Italiana di Scienze Forestali

- 2005 Medal for Physical and Natural Sciences, Accademia delle Scienze detta dei XL

- 2003 DuPont Young Professor Award

- 1990 Research Fellowship, Accademia Nazionale dei Lincei

### **SUPERVISION OF GRADUATE STUDENTS; PHD POSTDOC STUDENTS:**

2000-present supervisor of more than 20 PhD Students at the University of Udine and at SISSA

1994-present supervisor of more than 35 Postdocs at Dupont and at the University of Udine

### **TEACHING ACTIVITIES:**

Since 2000 I have been teaching at the University of Udine a number of courses, including General Genetics, Advanced Genetics, Genomics, Genome Analysis and Bioinformatics, etc.

### **ORGANISATION OF SCIENTIFIC MEETINGS:**

2018-2021 Scientific programme committee, Plant Genomes in a Changing Environment, Wellcome Centre, Hinxton UK

2006-09 Plant GEM 5, 6, 7 and 8, Program Board Member

2010 International Conference on "Forest Ecosystem Genomics and Adaptation, Madrid, Organising Committee

2011 26th New Phytologist Symposium on Bioenergy Trees, Organising Committee

### **INSTITUTIONAL RESPONSIBILITIES:**

2006-2008 PhD. programme committee coordinator, University of Udine

2008-2011 Board Member Area Science Park, Trieste

2013- 2019 President, Consorzio INNOVA FVG, Italy

2015-2019 Board Member Area Science Park, Trieste

2017-2019 Board member and Vicepresident, Consorzio per la Biomedicina Molecolare, Trieste

2022-present Coordinator Master Course (Laurea Magistrale) In Molecular Biotechnologies, Università di Udine

2023-present President of the National Conference of Biotechnology Study Courses, Italy

### **REVIEWING ACTIVITIES:**

- Editorial boards

2005-2009 Associate Editor Theoretical and Applied Genetics

2005-2009 Associate Editor Tree Genetics and Genomes

2010-2011 Associate Editor BMC Genetics  
2011-2018 Section Editor BMC Genetics  
2010-2018 Associate Editor BMC Plant Biology  
- Review panels  
2008-2011 ERC Advanced Grants Life Sciences 8: Evolutionary, Population and Environmental Biology  
2013-2017; 2021-2026 ERC Consolidator Grants Life Sciences 9: Applied Life Sciences and Biotechnology  
2006 NSF Plant Genome Panel  
2004 Generation Challenge Program Panel  
2010-2011 Agence Nationale de la Recherche, Biotechnology and Bioresource Engineering  
2011-2020 EU FPVII-Infrastructures  
2010-2013 CONICYT, Chile  
2014-2016 NOW, Holland  
2015 Experimental Plant Science Doctorate School, Holland  
2014 INRA Plant Biology and Breeding Department Review Panel  
2013-2020 MIUR, progetti PON distretti e laboratori pubblico-privato  
2015-2017 ICREA (Catalan Institution for Research and Advanced Studies) Spain  
2017-2025 La Caixa Spain  
2019 Qualitative Evaluation of Completed ERC Projects Life Sciences 9: Applied Life Sciences and Biotechnology  
2022 Royal Swedish Academy of Sciences, Crafoord Prize  
- Evaluation panels  
GEV Scienze Biologiche, VQR 2004-2010, ANVUR, Italy  
2018-2021 Commissione Abilitazione Scientifica Nazionale Settore Concorsuale Genetica  
Hceres Research Evaluation Campaigns 2019-2020, 2022-2023 2024-2026 France  
Jury member, International Award "Premio Internazionale Lombardia è Ricerca" 2020  
-Scientific Advisory Boards  
2006-2012 Dipartimento Agroalimentare, Consiglio Nazionale delle Ricerche  
2008-2012 IBERS, Aberystwyth University, UK  
2005-2009 UPSC Research School in Forest Genetics, Umea, Sweden  
2010-2014 Instituto de Recerca i Tecnologia Agroalimentaries, Barcelona  
2011-2014 SMARTForest Project, GenomeCanada, Canada,  
2013-2017 French Plant Genomic Resources Center (CNRGV), France  
2017-2021 Consiglio per la Ricerca in Agricoltura e l'Analisi dell' Economia Agraria  
2021-present Plant Health Center, University of Bozen, Italy  
2022-present The Laboratory for Quantitative Sustainability, Fondazione Internazionale Trieste, Italy  
2022-present Scientific and Technological Committee for Priority Research and Equipment Programme (PEPR) in Advanced Plant Breeding, ANR, France.  
- Reviewer  
Reviewer for more than 30 different journals, among which Nature, Science, Nature Genetics, Nature Plants, Nature Communications, Cell, PNAS, Genome Research, Genome Biology, etc.  
**MEMBERSHIPS OF SCIENTIFIC SOCIETIES:**  
Member, Past President (2015-2017), Società Italiana di Genetica Agraria  
Member, Past President (2021-2023), Associazione Genetica Italiana

#### **Track Record:**

As of 28/02/2025 I published more than 180 full papers indexed in Web of Science (4 Nature, 3 Nature Genetics, 2 Nature Biotechnology, 2 Nature Communications, 2 Nature Reviews Genetics, 3 PNAS) since 1991 (Google Scholar 45740 citations, H-index 83; Scopus 29091 citations, H-index 68). I am inventor in 16 US and international industrial patents on genome analysis methods and use of genes in plant breeding and in 14 plant variety rights related to wine grapevine varieties resistant to fungal diseases.

#### **Selected publications 2013-2025**

Scalabrin S, Magris G, ... Di Gaspero G, Morgante M. A chromosome-scale assembly reveals chromosomal aberrations and exchanges generating genetic diversity in *Coffea arabica* germplasm. *Nature Communications*, 2024 Jan 23;15(1):463.  
Magris G, Jurman I, ...Di Gaspero G, Morgante M. The genomes of 204 *Vitis vinifera* accessions reveal the origin of European wine grapes. *Nature Communications*, 2021, 12, 7240  
Schwope R, Magris G, ...De Paoli E, Morgante M. Open chromatin in grapevine marks candidate CREs and with other chromatin features correlates with gene expression *Plant J.* 2021, 107:1631–1647  
Pinosio S, Marroni F, ... Vendramin GG, Morgante M. A draft genome of sweet cherry (*Prunus avium* L.) reveals genome-wide and local effects of domestication. *Plant J.* 2020 103:1420-1432  
Foria S, Copetti D, ... Di Gaspero G, Morgante M. Gene duplication and transposition of mobile elements drive evolution of the Rpv3 resistance locus in grapevine. *Plant J.* 2020 101:529-542

Magris G, Di Gaspero G, ... Paci P, Morgante M. Genetic, epigenetic and genomic effects on variation of gene expression among grape varieties. *Plant J.* 2019 99:895-909  
Marroni F, Scaglione D, ...Di Gaspero G, Morgante M. Reduction of heterozygosity (ROH) as a method to detect mosaic structural variation. *Plant Biotechnol J.* 2017 15:791-793.  
Pinosio S, Giacomello S, ... Marroni F, Morgante M. Characterization of the poplar pan-genome by genome-wide identification of structural variation. *Mol Biol Evol.* 2016 Aug 7. pii: msw161.  
Marroni F, Pinosio S, Morgante M. Structural variation and genome complexity: is dispensable really dispensable? *Curr Opin Plant Biol.* 2014 18:31-6.  
Falchi R, Vendramin E, ... Vizzotto G, Morgante M. Three distinct mutational mechanisms acting on a single gene underpin the origin of yellow flesh in peach. *Plant J.* 2013 76:175-87.

#### Major research projects 2013-2025

MIUR Progetto Bandiera Epigenomica: "Next generation sequencing for epigenomic analysis" (2012-2018) 6500000 EU  
European Research Council Advanced Grant: "NOVABREED: Novel variation in plant breeding and the plant pan-genomes" (2012-2018) 2473500 EU  
WATBIO "Development of improved perennial non-food biomass and bioproduct crops for water stressed environments", EU FPVII, (2012-2017) 900000 EU  
GENTREE "Optimizing the management and sustainable use of forest genetic resources in Europe", EU-Horizon2020, P.I. (2016-2020) 903000 EU  
EPIDIVERSE Marie Curie Innovative Training Network "Linking Ecology, Molecular Biology and Bioinformatics in plant epigenetic research", EU-Horizon2020, P.I. (2017-2021) 560000 EU  
PRIN 2017 "Regulation of gene expression in grapevine: analysis of genetic and epigenetic determinants", MIUR, Coordinatore Nazionale (2019-2022) 271000 EU  
PRIN 2020 "Grain Pangenomics for Durum Wheat Sustainable Production", MUR, Responsabile unità (2022-2025) 185000 EU  
NBFC, National Biodiversity Future Center, PNRR (2022-2025) 1250000 EU  
WildwoodMicrobes MSCA Post-doctoral fellowship – European Fellowships, EU Horizon Europe 216000 EU  
PRIN2022 Defining gene regulation and coregulation at single cell resolution in grapevine, MUR, PI (2023-2025) 78000 EU  
FIS-2 CISVAR: Cis-regulatory variation, from cells to populations, MUR, PI (2025-2028) 2008000 EU

#### Selected invited and keynote lectures

01/2013 Keynote lecture, XXI Plant and Animal Genome Meeting, San Diego, USA  
05/2013 Keynote lecture, Next NGS Challenge Conference, Valencia, Spain  
06/2013 Invited seminar, SciLifeLab The Svedbergh seminar, Uppsala University, Sweden  
09/2013 Keynote lecture, Plant Genome Evolution 2013, Amsterdam, The Netherlands  
06/2014 Keynote lecture, Plant Genomes Day, Toulouse, France  
06/2015 Keynote lecture, IUFRO Tree Biotechnology Conference, Florence, Italy  
09/2015 Plenary lecture, International Botanical Congress, Munich, Germany  
03/2016 Plenary lecture, German Plant Breeding Society Congress, Bonn, Germany  
04/2016 Plenary lecture, International Transposable Element Meeting, Saint Malò, France  
09/2016 Plenary lecture, 18th annual Donald Danforth Plant Science Center Fall Symposium, "Genetics and Genomics of Crop Improvement", St. Louis, USA  
09/2017 Keynote lecture, 4th International Symposium on Genomics of Plant Genetic Resources, Giessen, Germany  
07/2018 Plenary lecture, VISCEA 4th International Conference Plant Genetics & Breeding Technologies, Vienna, Austria  
09/2019 Plenary lecture, AGI Annual Congress, Cortona, Italy  
09/2022 Keynote Lecture, SIGA Congress, Piacenza, Italy  
05/2023 Plenary lecture, EPICATCH Meeting, Sofia, Bulgaria  
09/2024 Plenary lecture, FISV congress, Padova, Italy

#### Membership of scientific academies:

Accademia Nazionale dei Lincei  
Accademia Europaea  
Accademia dei Georgofili  
Accademia di Ingegneria e Tecnologia  
Accademia Nazionale di Agricoltura  
Accademia Italiana della Vite e del Vino  
Accademia Italiana di Scienze Forestali  
Istituto Veneto di Scienze, Lettere ed Arti  
For Accademia dei Lincei I am a member of the University and the Agriculture commissions