

PERSONAL INFORMATION

Gloria De Mori

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WORK EXPERIENCE

26/01/2022 – Present **Researcher at University of Udine**

EDUCATION

2007–2012 1° LEVEL DEGREE in Biotechnologies

University of Udine, Udine (Italy)

Degree/Bachelor in Biotechnologies obtained on 12/04/2012

Final degree mark: 95/110

Dissertation/thesis title: Use of natural repellents against 'Cacopsylla pruni' in the control of European stone fruit yellows in apricot.

2012–2014 2° LEVEL DEGREE in Plant and Animal Biotechnologies

University of Udine, Udine (Italy)

Degree/Bachelor in Plant and Animal Biotechnologies obtained on 07/10/2014

Final degree mark: 110/110 cum laude (with honour) and Academic mention

Dissertation/thesis title: Fine mapping of resistance gene to Sharka (PPV, Plum Pox Virus) in apricot (*Prunus armeniaca* L.).

2014–2018 3° LEVEL DEGREE - PhD in Agriculture Science and Biotechnology

University of Udine, Udine (Italy)

PhD in Agriculture Science and Biotechnology approved *cum laude* on 22/02/2018

Dissertation/thesis title: Fine mapping of resistance gene to Sharka (PPV, Plum Pox Virus) in apricot (*Prunus armeniaca* L.), gene prediction and annotation of the region of interest.

07/07/2020 – Present **Non tenured subject expert and examiner “Agricultural Sciences and technologies” (SSD: AGR/03)**

TRAINING and CERTIFICATES

Udine, 16/12/2014 PassLAB – formazione generale in materia di “Salute e sicurezza sul lavoro”
Paluzza, 6-10/9/2017 Summer school on Data Analysis in Applied Biology
Udine, 4-7/9/2018 Summer school on Epigenetics: on the top of Genetics
Verona, 2-5/7/2019 XVI CORSO SIGA “New Breeding Techniques: CRISPR/Cas9 in plants”
Paluzza, 17-21/02/2020 Winter school “Hands-on data analysis with R for applied biology and environmental sciences”

PERSONAL SKILLS

Mother tongue(s)	Italian				
Foreign language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
 Common European Framework of Reference for Languages

Technical skills

Molecular biology lab: genomic DNA and RNA extraction, Real-Time PCR, PCR, electrophoresis, DNA and RNA library preparation for Illumina sequencing, SSR marker, bacteria growth in liquid and solid media, cloning and plant transformation.

Molecular genetics: molecular markers, genetic and physical maps, genes/QTLs mapping.

Bioinformatics analysis: Next Generation Sequencing data analysis – reads trimming and filtering (ERNE package), Illumina reads alignment against reference genome (BWA), sequences comparison using dot-plot (Seqtools package), de novo genome assembly (i-Assembler), de novo genome assembly with PacBio data (Canu, SSPACE long read, Pbjelly), PacBio reads alignment against reference genome (Blasr), SNP and indels/deletions identification (GATK), samtools package, annotation pipeline (Maker).

Breeding techniques: emasculation and hand pollination of fruit species, phenotypisation for fruit traits.

ADDITIONAL INFORMATION

Overseas research experience

April-July 2017, Visiting PhD-student at the Bioinformatics group at Wageningen University, Wageningen Campus Building 107 Droevendallsesteeg 1, 6708 PB Wageningen. Supervisor: prof. dr. ir. Dick de Ridder.

Conferences and seminars

XIV Eucarpia Symposium on Fruit Breeding and Genetics (Bologna 14-18/6/2015). *Poster presentation.*

XI GIORNATE SCIENTIFICHE SOI (Bolzano 14-16/9/2016). *Poster presentation.*

Winter school in Plant Biotechnology and Environmental Sustainability held (Alba di Canazei 15-20/1/2017). *Oral presentation.*

LXIII SIGA Annual Congress (Napoli, 10-13/9/2019). *Poster presentation.*

XIII Giornate Scientifiche SOI. I traguardi di Agenda 2030 per l'ortoflorofruitticoltura italiana. (Catania, 22-23/6/2021). *Poster presentation.*

VIII Convegno Nazionale di Viticoltura. (Udine 5-7/7/2021).

X International Symposium on kiwifruit. (Yalova/Turkey, 27-30/9/2021). *Poster presentation.*

Research topics

Genetic approaches for vineyard sustainability.

Molecular characterization of *Actinidia* genotypes resistant or tolerant to PSA (*Pseudomonas syringae p. actinidiae*).

Develop new markers linked to the gender and test them on different accessions of *Actinidia*.

Develop tools CRISPR/Cas9 for genetic transformation in *Actinidia* in order to modify the gender in transformed plants.

Genetic map of resistances in grape.

Genetic and physical map of resistance to Sharka in apricot.

De novo assembly of Apricot genome.

Genome annotation, gene prediction and annotation.

Identification and characterization of candidate genes of resistance to Sharka in apricot.

Educational activity Assistance in carrying out degree thesis.

- Publication** *Poster - Construction of a minimum tiling path of BAC clones covering the Sharka resistance region in apricot (Prunus armeniaca).* Savazzini F, Ungarelli M, Dondini L, Falchi R, **De Mori G**, Passaro M, Geuna F, Messina R, Cattonaro F, Scalabrin S, Bassi D, Tartarini S, Testolin R. XIV Eucarpia Fruit Breeding and Genetics Symposium – Bologna, 14-18 June, 2015.
- Poster – Analysis of the chromosomal region responsible for the resistance trait toward the Sharka disease in apricot.* Savazzini F, Falchi R, Passaro M, Dondini L, Geuna F, Messina R, **De Mori G**, Cattonaro F, Bassi D, Tartarini S, Testolin R. (2015). In: Proceedings of the Joint Congress SIBV-SIGA. ISBN: 978-88-904570-5-0, Milano, 8-15 settembre 2015
- Poster – Fine physical mapping of a resistance region to Sharka (Plum Pox Virus) in Apricot.* **De Mori G**, Falchi R, Messina R, Testolin R, Scalabrin S, Passaro M, Geuna F, Bassi D, Savazzini F, Dondini L, Tartarini S. XI Giornate Scientifiche SOI – Bolzano, 14-16 September 2016.
- Article - Construction of a minimum tiling path of BAC clones covering the Sharka resistance region in apricot (Prunus armeniaca).* Savazzini F, Ungarelli M, Dondini L, Falchi R, **De Mori G**, Passaro M, Geuna F, Messina R, Cattonaro F, Scalabrin S, Bassi D, Tartarini S, Testolin R. Acta horticulturae 09/2017; 10.17660/ActaHortic.2017.1172.8
- Conference proceeding abstract - Identification of candidate genes by sequencing the resistant and susceptible haplotypes at the main Sharka resistance QTL on 'Lito' chromosomes 1 of apricot.* Tartarini S, **De Mori G**, Falchi R, Testolin R, Bassi D, Dondini L, Palmisano F, Minafra A, Spadotto A, Scalabrin S, Geuna F. XV Eucarpia Symposium on Fruit Breeding and Genetics – Prague, 3 June, 2019.
- Book chapter - Molecular tools to investigate Sharka disease in Prunus species.* **De Mori G**, Savazzini F, Geuna F. Applied Plant Biotechnology for improving Resistance to Biotic Stress, Elsevier book, 2020, Pages 203-223, doi:10.1016/B978-0-12-816030-5.00010-0.
- Poster - Hermaphroditism in kiwifruit: loss of ShyGI activity induced by CRISPR/Cas9 editing.* **De Mori G**, Zaina G, De Paoli E, Testolin R, Montefiori M, Cipriani G. Proceedings of the LXIII SIGA Annual Congress Napoli, Italy – 10/13 September, 2019 ISBN 978-88-904570-9-8.
- Article - Resistance to Sharka in Apricot: Comparison of Phase-Reconstructed Resistant and Susceptible Haplotypes of 'Lito' Chromosome 1 and Analysis of Candidate Genes.* **De Mori G**, Falchi R, Testolin R, Bassi D, Savazzini F, Dondini L, Tartarini S, Palmisano F, Minafra A, Spadotto A, Scalabrin S, Geuna F. Frontiers in Plant Science 12/2019, doi:10.3389/fpls.2019.01576.
- Informative Article – Breeding del melo, la strategia per aumentare la diversità genetica.* Testolin R, Falginella L, De Carli A, Monte C, **De Mori G**, Cipriani G. Frutticoltura 2020, 10, 20-24.
- Article – Targeted Mutagenesis of the Female Suppressor SyGI Gene in Tetraploid Kiwifruit by CRISPR/CAS9.* **De Mori G**, Zaina G, Franco-Orozco B, Testolin R, De Paoli E, Cipriani G. Plants 2021, 10, 62, doi: 10.3390/plants10010062.
- Article – Pyramiding resistance genes and widening the genetic base of the apple (Malus × domestica Borkh.) crop.* Testolin R, Falginella L, De Carli A, **De Mori G** and Cipriani G. Italus Hortus 2021, 28, 32-43, doi:10.26353/j.itahort/2021.1.3243.
- Poster - Overcome dioecism in tetraploid kiwifruit: a CRISPR/CAS9 editing approach.* **De Mori G**, Zaina G, De Paoli E., Testolin R., Montefiori M., Cipriani G. XIII Giornate Scientifiche SOI – Catania, 22/23 June 2021.
- Poster - Implementing CRISPR/Cas9 editing in kiwifruit: a first step towards a hermaphrodite tetraploid valuable cultivars.* **De Mori G**, Zaina G, Franco-Orozco B, Testolin R, De Paoli E, Cipriani G. X International Symposium on kiwifruit. Yalova, 27-30 September 2021.
- Article – Construction of A High-Density Genetic Map And Detection of A Major QTL of Resistance To Powdery Mildew (Erysiphe Necator Sch.) In Caucasian Grapes (Vitis*

Vinifera L.J., Possamai T, Wiedemann-Merdinoglu S, Merdinoglu D, Migliaro D, **De Mori G**, Cipriani G, Velasco R, Testolin R. BMC Plant Biology 2021, 21, doi:10.1186/s12870-021-03174-4

Article – A molecular protocol for Early Sex Discrimination (ESD) in Actinidia spp. De Mori G., Testolin R., Cipriani G. Journal of Berry Research. Journal of Berry Research 2022, 12, 249–266, doi:10.3233/JBR-211530.

Article – SSR-Based DNA Fingerprinting of Fruit Crops. Testolin, R.; Messina, R.; Cipriani, G.; De Mori, G. Crop Science 2023, 63, 390–459, doi:10.1002/CSC2.20896.

Article – Marker-Assisted Selection in Breeding for Fruit Trait Improvement: A Review. De Mori, G.; Cipriani, G. International Journal of Molecular Sciences 2023, 24, 8984, doi:10.3390/IJMS24108984.

Honours and awards

Best graduate student of the second level Master degree in Plant and Animal Biotechnologies.

Best Presentation Award in Session New Breeding Technologies at Winter School in Plant Biotechnology and Environmental Sustainability, Alba di Canazei (TN), 2017.

“Convegno SIGA 2019” Award for poster presentation during LXIII SIGA Annual Congress, Napoli, 2019.

Medaglia “Leonardo da Vinci” per il miglior elaborato – Bando Leonardo da Vinci 2020 (Decreto Direttoriale MUR n. 1184 del 24.07.2020).

References

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Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 “Codice in materia di protezione dei dati personali”

Udine, 19/05/2023

