PERSONAL INFORMATION

Name and Surname		**SORDO MADDALENA**
Residence		ROVERE' DELLA LUNA (TN)
Domicile		
Phone Number		
E-mail		**maddalena.sordo@fmach.it**

Nationality		Italian

Place and date of birth		LEGNAGO (VR) – 16/02/1981

Professional Sector		Technologist/ Experimenter of new protocols in the laboratory

WORKING EXPERIENCE

• Date		From 01/02/2008 to today
• Employer's name and address		Fondazione Edmund Mach - Istituto Agrario di San Michele all'Adige, 1 Via E. Mach, 38010 San Michele all'Adige
• Type of company and sector		Research & Innovation Center - Molecular Biology
• Qualification and CCNL applied		Technologist (IV level) in Biotechnology sector
• Kind of employment		Permanent employment contract
• Working hours		Part Time
• Main duties and responsibilities		Molecular biology activity from the extraction of DNA and RNA from plant, animal, human material and food matrices, molecular characterization of germplasm of apple, vine and softberry (raspberry, currant, strawberry) with the main markers (SSCP, CAPS, SSR, SNP, Snapshot, RFLP, SCAR, RAPD, HRM) and sequence analysis. Transfer of molecular markers between various fruit and herbaceous species. Applications Real Time qPCR, metagenomics, Next Time Sequencing, classical microbiology, micropropagation of tree and herbaceous species in vitro. Sample preparation for metabolomics analysis with metabolite extraction. Seed germination, organogenesis and in vitro micropropagation of various tree and herbaceous species and transfer to greenhouse. Internal management of the laboratory of problems relating to safety-waste disposal, management of purchase orders, training of trainees/graduate students.

• Date		From 01/03/2007 to 31/01/2008
• Employer's name and address		Istituto Agrario di San Michele all'Adige, 1 Via E. Mach, 38010 San Michele all'Adige
• Type of company and sector		Public Research Institute – Molecular Biology
• Qualification and CCNL applied		Scholarship awarded following successful selection through public competition
• Kind of employment		Scholarship contract
• Working hours		Full Time
• Main duties and responsibilities		Genetic characterization of softberry through the development of molecular markers and sequence analysis. Transfer of molecular markers between various fruit species (Malus, Fragaria, Rubus) belonging to the Rosaceae family. Development of techniques for the traceability of the species present in fruit juices through the use of Real-Time techniques.

• Date		From 01/09/2006 to 28/02/2007
• Employer's name and address		Istituto Agrario di San Michele all'Adige, 1 Via E. Mach, 38010 San Michele all'Adige Centro sperimentale, dipartimento Biologia Molecolare e Genetica Molecolare, Unità operativa Genetica Molecolare
• Type of company and sector		Public Research Institute – Molecular biology

• ***Qualification and CCNL applied***		Co.co.pro. (financed by Regione Sicilia)
• ***Kind of employment***		Co.Co.Pro.
• ***Working hours***		Full Time
• ***Main duties and responsibilities***		Molecular characterization of ancient Sicilian apple varieties and putative Trentino'varieties to create a database of molecular profiles and observations of pomological characters, and trace any phylogenetic relationships

• ***Date***		From 17/04/2005 to 01/07/2006
• ***Employer's name and address***		Istituto Agrario di San Michele all'Adige, 1 Via E. Mach, 38010 San Michele all'Adige Centro sperimentale, dipartimento Biologia Molecolare e Genetica Molecolare, Unità operativa di Biologia Cellulare e MolecolarePublic Research Institute – Molecular biology
• ***Type of company and sector***		Public Research Institute – Molecular biology
• ***Qualification and CCNL applied***		Trainer
• ***Kind of employment***		Internship
• ***Working hours***		Full TimeIdentification and study of expression of sequences similar to resistance genes in apple trees using the techniques: extraction of DNA and RNA from apple leaves and flowers, PCR and RT-PCR, enzymatic digestion, electrophoresis on agarose and polyacrylamide gels, development of new CAPS and SSCP markers and integration of an association map.
• ***Main duties and responsibilities***		Identification and study of expression of sequences similar to resistance genes in apple trees using the techniques: extraction of DNA and RNA from apple leaves and flowers, PCR and RT-PCR, enzymatic digestion, electrophoresis on agarose and polyacrylamide gels, development of new CAPS and SSCP markers and integration of an association map.

EDUCATION AND TRAINING

• ***Date***		From 2000 to 2006
• ***Training Institution***		Università degli Studi di Verona, Facoltà di Scienze MM. FF. NN., Corso di Laurea in Biotecnologie Agro-Industriali (Indirizzo Vegetale)
• ***Qualification***		Laurea magistrale pre- riforma in Biotecnologie Agro-Industriali
• ***Vote***		109/ 110

• ***Date***		From 1995 to 2000
• ***Training Institution***		Liceo Scientifico (sperimentale Brocca) - G. Cotta, Legnago (VR)
• ***Qualification***		Diploma Secondario di Maturità Scientifica
• ***Vote***		83/ 100

PERSONAL SKILLS ACQUIRED		Management and disposal of special waste and management of purchase orders - skills acquired during the period of work at the Fondazione Mach

OTHER LANGUAGES		
• ***Language***		English language
Reading ability		optimal
Writing skills		good
Oral expression skills		good

• ***Language***		French language
Reading ability		good
Writing skills		discrete
Oral expression skills		discrete

RELATIONAL SKILLS AND		– *Teamwork with various researchers and technologists, some of whom come from foreign*

COMPETENCES *Working with other people, in a multicultural environment, in positions where communication is important and in situations where teamwork is essential, etc.*		*countries* – *Collaboration, technical support, organization of work with other research groups off site.*

ORGANIZATIONAL SKILLS *Workplace coordination and administration of people, projects, budgets, etc.*		– Training of thesis/ trainee students and their introduction to the working environment. – Management of purchase orders and related internal reporting. – Management of special waste and organization of its disposal. – Organization of shifts for use-repair-assistance of instrumentation in the laboratory. – Organization of large samplings of germplasms (vine, currant, raspberry, yeast) – Organization of registration to conferences of colleagues *(competenze acquisite durante il periodo di lavoro presso Fondazione Mach)*

TECHNICAL SKILLS AND COMPETENCES *With computers, specific kinds of equipment, machinery, etc.*		**IT skills** - Good knowledge of the Office package, of the most common graphics programs, data and image processing for Windows and Internet browsing. - Bibliographic research of scientific articles. - Consultation of databases and use of bioinformatics tools necessary for the analysis of nucleotide and protein sequences. - Good knowledge of the software GeneScan® 3.7 and Genotyper® 3.7 combined with the automatic genetic analyzer AbiPrism 3100 (Applied Biosystems) and Sequencer Analysis® 5.2 and GeneMapper® 4.0 combined with the AbiPrism 3130xl (Applied Biosystems) and GeneMarker v. 3.0.0 - Use of JoinMap and MapChart programs for segregation analysis and construction of linkage maps. - Use of the Gap4 program (Staden package) to search for polymorphisms. - Use of the MEGA4 program for sequence analysis and the study of phylogenetic relationships. - Use of the Identity® 1.0 program for tracing phylogenetic relationships between different varieties belonging to the same species. **Technical and Research skills** - Familiarity with the main molecular biology techniques: amplification by PCR, enzymatic digestions, electrophoresis on agarose and polyacrylamide gels, cloning of nucleic sequences, sequencing. - Development of DNA extraction protocols from fresh and non lignified leaf tissue and RNA extraction, both with commercial and home-made kits. - Design of specific primers for PCR application and PCR setup. - Differential expression studies in various plant tissues by RT-PCR, Real Time with SybrGreen and Hight Resolution Melting techniques. - Use and routine maintenance of the automatic genetic analyzers AbiPrism 310, 3100, 3130, 3730 (Applied Biosystems) and the Roche Real Time machine, LightCycler 480 and the Applied Biosystems Via7 machine - Molecular characterization using sets of SSCP, CAPS, SSR, ISSR, SNP, Snapshot, RFLP, SCAR, RAPD, HRM - Study of the transferability of molecular markers. - Varietal characterization based on conserved gene sequences and study of phylogenetic relationships. - Basic statistical analysis of data - Traceability studies of the various species present in fruit juices through the use of Real-Time - Classical microbiology, relies on solid and liquid medium and microscopy - Sample preparation for metabolomics analysis with metabolite extraction. - Seed germination, organogenesis and in vitro micropropagation of various tree and herbaceous species and transfer to greenhouse. - Internal laboratory management of issues relating to safety-waste disposal, management of purchase orders, training of trainees/graduate students.

ARTISTIC SKILLS AND COMPETENCES		– Tempera painting – watercolor – Sewing, embroidery, crochet, wool carding, ecoprinting, recognition of medicinal herbs (skills acquired following practical courses – Bricolage and bijou creation – Cooking

LICENSE		• Patente B

FURTHER INFORMATION		**Publications list**

Conterno, L., Martinelli, F., Tamburini, M., Fava F., Mancini A., **Sordo M.**, Pindo M., Martens S., Masuero D., Vrhovsek U., Dal Lago C., Ferrario G., Morandini M., Tuohy K., Measuring the impact of olive pomace enriched biscuits on the gut microbiota and its metabolic activity in mildly hypercholesterolaemic subjects. Eur J Nutr 58, 63–81 (2019). https://doi.org/10.1007/s00394-017-1572-2

Bona, D., **Sordo M.**, Amato, B., Fava, F., Tuohy, K., Guzzon, R., & Silvestri, S. (2019). Power to gas: process monitoring of hydrogenotrophic methanogenesis to biomethane production. In 4th MatER meeting: Innovations & Technologies in Waste Recovery, Piacenza, Italy, May 27-29, 2019 (pp. 32-35). IT.

Di Paola M., Cavalieri D., Albanese D., **Sordo M.**, Pindo M., Donati C., Pagnini I., Giani T., Simonini G., Paladini A., Lionetti P., De Filippo C., Cimaz R., Alteration of Fecal Microbiota Profiles in Juvenile Idiopathic Arthritis. Associations with HLA-B27 Allele and Disease Status, Frontiers in Microbiology, Volume 7 - 2016 | https://doi.org/10.3389/fmicb.2016.01703

Qviirist L. A., De Filippo C., Strati F., Stefanini I., **Sordo M.**, Andlid T., Felis G. E., Mattarelli P., Cavalieri D., Isolation, Identification and Characterization of Yeasts from Fermented Goat Milk of the Yaghnob Valley in Tajikistan. Front. Microbiol., 2016 Sec. Food Microbiology Volume 7 2016.
https://doi.org/10.3389/fmicb.2016.01690

Costantini L., Kappel C. D., Trenti M., Battilana J., Emanuelli F., **Sordo M.**, Moretto M., Camps C., Larcher R., Delrot S., Grando M. S., Drawing Links from Transcriptome to Metabolites: The Evolution of Aroma in the Ripening Berry of Moscato Bianco (Vitis vinifera L.). Front. Plant Sci., 16 May 2017 Sec. Plant Breeding Volume 8 - 2017 | https://doi.org/10.3389/fpls.2017.00780

Stefanini I., Albanese, D., **Sordo M.,** Legras J. L., De Filippo C., Cavalieri D., Donati C., SaccharomycesIDentifier, SID: strain-level analysis of Saccharomyces cerevisiae populations by using microsatellite meta-patterns. Sci Rep 7, 15343 (2017). https://doi.org/10.1038/s41598-017-15729-3

Emanuelli, F., **Sordo M.**, Lorenzi S., Battilana J., Grando M. S. Development of user-friendly functional molecular markers for VvDXS gene conferring muscat flavor in grapevine. Mol Breeding 33, 235–241 (2014). https://doi.org/10.1007/s11032-013-9929-6

Costantini L., Battilana J., Kappel C., Emanuelli F., **Sordo M.**, Delrot S. and Grando M.S. (2014). Drawing links from transcriptome to metabolites: the evolution of muscat aroma in the ripening berry. Acta Hortic. 1046, 493-498 https://doi.org/10.17660/ActaHortic.2014.1046.67

Ceppa F. A., Albanese, D., **Sordo M.**, Armanini F., Faccenda F., Lunelli F., De Filippo, C. (2013). Natural essential oils in aquaculture. How essential oils affect the stress factors and intestinal microbiota of rainbow trout (Oncorhynchus mykiss)?. In MICROBIOLOGY 2013: 30th Meeting of the Società Italiana di Microbiologia Generale e Biotecnologie Microbiche (SIMGBM), Ischia, September 18th-21st 2013.

Palmieri L., Grando M. S., **Sordo M.**, Grisenti M., Martens S., Giongo L. (2013). Establishment of molecular markers for germplasm management in a worldwide provenance “Ribes” spp. collection. Plant Omics, 6(3), 165–174.
https://search.informit.org/doi/10.3316/informit.397611529693606

Costantini L., Lorenzi S., Troggio M., **Sordo M.**, Emanuelli F., Moreira Maia F., Grando M. S. (2010). Quantitative genetic analysis of developmental and quality-related traits in grapevine. In Proceedings of the 54rd Italian Society of Agricultural Genetics Annual Congress-SIGA 2010 (pp. poster-communication).
Moreira F., Lorenzi S., Laera M., **Sordo M.**, Zulini L., Stefanini M., Grando S., Molecular characterization of the Vitis vinifera ssp sativa and sylvestris germplasm held at the Fondazione Edmund Mach, SIGA Annual Congress, 27-30 September 2010, Matera

Costantini L., Lorenzi S., Troggio M., **Sordo M.**, Emanuelli F., Moreira F., Battilana J., Vrhovsek U., Stefanini M., Velasco R., Mattivi F., Larcher R., Grando S., Quantitative genetic analysis of developmental and quality-related traits in grapevine, SIGA Annual Congress, 27-30 September 2010, Matera

Zulini L., Lorenzi S., **Sordo M.**, Stefanini, M., Grando M. S. (2010). Studio delle accessioni di Vitis vinifera sylvestris e sativa in collezione presso la Fondazione Mach. Origini della viticoltura: dalla vite selvatica alle varietà coltivate: Convegno internazionale.

Costantini L., Battilana J., Emanuelli F., **Sordo M.**, Grando S., Drawing links from transcriptome to metabolites: the evolution of Muscat aroma in the ripening berry, 10th International Conference on Grapevine Breeding and Genetics, 1-5 August 2010, Geneva, New York

Moreira F., Lorenzi S., **Sordo M.**, Zulini L., Stefanini M., Grando S. Molecular characterization of the grapevine germplasm collection held at the Fondazione Edmund Mach, 10th International Conference on Grapevine Breeding and Genetics, 1-5 August 2010, Geneva, New York

Moreira F., Zulini L., Lorenzi S., **Sordo M.**, Stefanini M., Grando S., Studio delle accessioni di Vitis vinifera sylvestris e sativa in collezione presso la Fondazione Mach, Convegno internazionale Origini della viticoltura: dalla vite selvatica alle varietà coltivate, 25 giugno 2010, Castglione d'Orcia (SI)

Grando S., Vignani R., Scali M., **Sordo M.**, Paolucci E., Lorenzi S., Bigliazzi J., Moreira F., Velasco R., Cresti M., Tracciabilità su base molecolare dell'intera filiera vitivinicola., Atti Convegno Frontiere della tracciabilità molecolare e sicurezza dei prodotti alimentari, 18 marzo 2010

Palmieri L., **Sordo M.**, Grando M. S., Virzí A., Giongo L. (2009). Soft fruit germplasm molecular characterization. International conference on foodomics (pp. 87-88).

Palmieri L., Saviane A., **Sordo M.**, Grando S., Giongo L. (2008). The development of SNPs (Single Nucleotide Polymorphism) markers in Fragaria vesca and Rubus idaeus and their transferability between the two species. na.

Palmieri L., **Sordo M.**, Grando M. S., Giongo L. (2008). Germplasm characterization and food traceability of Vaccinium using molecular markers. In 52° Annual congress Italian Society of Agricultural Genetics (pp. A-26).

Sordo M., Palmieri L., Giongo L., Grando M. S. (2008). Molecular characterization of currant (ribes SPP.) accessions using SNP and SSR markers. In 52° Annual congress Italian Society of Agricultural Genetics (pp. F-03).

Sordo M., Palmieri L., Saviane A., Giongo L., Grando M. S. (2008). Molecular characterization of raspberry (Rubus idaeus L.) accessions using specific and other rosaceae SSRs. In International conference Molecular mapping & marker assisted selection in plants (pp. N-43).

Palmieri L., Saviane A., **Sordo M.**, Virzí A., Grando M. S., Giongo L. (2008). Characterization of Fragraria vesca L. genotypes through phenotyping and through the use of SSR, SCAR and SNP markers. In VI International strawberry symposium ISHS: book of abstracts (p. 173).

Palmieri L., Saviane A., **Sordo M.**, Grando M. S., Giongo L. Blueberry: germplasm characterization and food traceability by the use of molecular markers. In: IX International vaccinium symposium: Corvallis, Oregon, July 13-16, 2008 (editor K.E. Hummer). Leuven: ISHS. (Acta Horticulturae 810). 1: 167-172.

Sordo M., Palmieri L., Giongo L., Grando M.S. - Molecular characterization of currant (Ribes spp.) accessions using SNP and SSR markers, SIGA Annual Congress, 14-17 September 2008, Padova

Palmieri L., Saviane A., **Sordo M.**, Virzì A., Grando S., Giongo L.. Characterization of Fragaria vesca L. genotypes through phenotyping and through the use of SSR, SCAR and SNP markers. VI Strawberry International Symposium, 3-7 March 2008, Huelva

Palmieri L., Saviane A., **Sordo M.**, Grando S., Giongo L.. The development of SNP (Single Nucleotide Polymorphisms) markers in Fragaria vesca and Rubus idaeus and their transferability between the two species. First Symposium on Horticulture in Europe, 17-20 February 2008, Vienna

Sordo M., Palmieri L., Saviane A., Giongo L., Grando S.. Molecular characterization of raspberry

		(Rubus idaeus L.) accessions using specific and other rosaceae SSRs. Molecular Mapping & Marker Assisted Selection in Plants, 3-6 February 2008, Vienna. Palmieri L., Saviane A., **Sordo M.**, Grando S., Giongo L.. The development of SNP (Single Nucleotide Polymorphisms) markers in Fragaria vesca and Rubus idaeus and their transferability between the two species. SIGA Annual Congress, 23-26 September 2007, Riva del Garda Saviane A., Palmieri L., **Sordo M.**, Grando S., Giongo L.. A useful method for the identification of plant genera in fresh fruit juices. SIGA Annual Congress, 23-26 September 2007, Riva del Garda

ATTACHMENTS		Privacy Note

CON L'INVIO DEL PRESENTE MODULO COMPILATO IL SOTTOSCRITTO GARANTISCE LA VERIDICITA' DEI DATI FORNITI.

IL SOTTOSCRITTO DICHIARA DI AVER PRESO VISIONE DELL'INFORMATIVA DI CUI AL D.LGS. N. 196/2003, CONTENUTA NELL'AVVISO DI RICERCA DI PERSONALE.

FIRMA

San Michele all'Adige, 31 / 01 / 2023 _____

*** CONSENSO DELL'INTERESSATO AL TRATTAMENTO DEI PROPRI DATI SENSIBILI (art. 23, comma 4, del D.Lgs. n. 196/2003)**
(da sottoscrivere nel caso di compilazione dei quadri "Eventuale appartenenza alle categorie protette di cui alla legge n. 68/1999" e "Eventuale iscrizione nelle liste di mobilità di cui alla legge n. 223/1991" pena l'immediata distruzione del presente CURRICULUM)

IL SOTTOSCRITTO, CON LA FIRMA APPOSTA ALLA PRESENTE, ESPRIME IL PROPRIO CONSENSO AL TRATTAMENTO DEI DATI SENSIBILI CONTENUTI NEL PRESENTE CURRICULUM, VINCOLANDOLO COMUNQUE AL RISPETTO DI OGNI ALTRA CONDIZIONE IMPOSTA PER LEGGE.

FIRMA

San Michele all'Adige, 31 / 01 / 2023

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