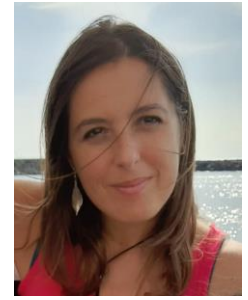


CURRICULUM VITAE



VERONICA DE MICCO

Date of Birth: 24th September 1977
Place of Birth: Cercola (Naples), Italy
Nationality: Italian

e-mail: demicco@unina.it

PRESENT EMPLOYMENT

Since June 2021, Full Professor of Environmental and Applied Botany at the University of Naples Federico II, Naples, Italy (From 2007 to 2015 Assistant Professor, and from 2015 to 2021 Associate Professor of Environmental and Applied Botany at the University of Naples Federico II)

SCIENTIFIC FORMATION

Laurea Degree

She graduated in Agricultural Sciences on 19th July 2000 at the University of Naples Federico II with the final grade of 110/110 with laudem.

Experimental thesis: *Adaptation strategies of Mediterranean shrubs and new methods of investigations*

PhD

She was doctoral student in *Woody Cultures* at University of Naples Federico II between November 2000 and January 2004, achieving the title of Research Doctor on 14th January 2004.

Title of the thesis: *“Combinations of xylem elements as adaptive strategies in Mediterranean woody species: anatomical, functional and chemical approaches”*

Short Courses

July 2003 University of Naples Federico II, Proficiency Course for post-graduates
“Territorial analysis of the natural and agricultural resources” – Module:
Statistics of ecological data: multivariate analysis.

- July 2003 University of Naples Federico II, Proficiency Course for post-graduates "Territorial analysis of the natural and agricultural resources" – Module: *Statistics of ecological data: biometry*.
- Aug-Sept 2001 *5th Intensive international course on soil micromorphology* – University of Naples Federico II – Lessons on microscopy and digital image analysis.
- March 1999 University of Naples Federico II, Stage of Reproductive Biology – *Pollination: biological, ecological and agronomical aspects*.

Study periods abroad

Universiteit Leiden, Nationaal Herbarium Nederland (The Netherlands) – Scientific debates with Prof. Pieter Baas for the preparation of manuscripts on the hydraulic architecture of the wood of some Mediterranean shrubs and trees along meso-xeric gradients and study of the collections of wood slides, November 2006

Centre de Recherches sur les Macromolécules Végétales – Centre National de la Recherche Scientifique, CERMAV – CNRS, Grenoble (France). Post – doc research position in *Microstructure and assembly of plant cell wall*, Sept 2005-June 2006

Swiss Federal Institute for Forest, Snow and Landscape Research (WSL), Birmensdorf, Switzerland
WSL – *Research training: Combination of biometrical anatomy and dendroecology*, October 2003

Universiteit Leiden, Nationaal Herbarium Nederland (The Netherlands) – *Study of the wood slide collection and Research training on evolutionary trends in xylem anatomy*, September 2003

European Space Agency, ESA-ESTEC, Noordwijk, The Netherlands – Stage and Workshop *Parabolic flight User Days*, September 2003

Washington State University, Institute of Biological Chemistry WA, USA – *Research training on confocal and electron microscopy, laser microdissection and chemical analyses applied to cell wall formation and lignin accumulation*, July – November 2002

NASA – Kennedy Space Center, Dynamic Corporation (Life Sciences Support Facility), FL, USA – Study visits, November 2002

University of Aberdeen, Scotland, UK - *Summer course of English language* and study visits at Dept. of Plant and Soil Science, August – September 1998

RESEARCH

Working Experience – Research fellowship

Dec 2006 – Oct 2007 Temporary researcher at the Dept. of Plant Biology at the University of Rome "La Sapienza", Rome, Italy.

- June 2006 – Nov 2006 Research fellowship within the project “Work on the job and research training” at the University of Salerno (Italy), funded by UE through the Campania Region – Italy.
- Sept 2005 – June 2006 Post-doc researcher at the Centre de Recherches sur les Macromolécules Végétales – Centre National de la Recherche Scientifique, CERMAV – CNRS, Grenoble (France)
- April – June 2005 Research collaboration for “Microscopy and statistical analysis of data” at the Palynological Analysis Centre of the Dept. Fruticulture, Botany and Plant Pathology, University of Naples Federico II (Naples, Italy)
- Mar 2004 – Mar 2005 Research fellowship within the project “Formation of Experts for Research, Technology and Management of Agricultural and Food Productions” at the University of Salerno (Italy), funded by UE through the Campania Region – Italy.
- April – May 2004 Research collaboration for the “Detection of the best time for honey collection from the hives in various environments and informatics support” at the Dept. Fruticulture, Botany and Plant Pathology, University of Naples Federico II (Naples, Italy) within a regional project (Reg. CE 1221/97).
- Nov. 2000-April 2001 Research collaboration for “Light microscopy for plant anatomical description” at the Dept. of Agricultural Engineering and Agronomy, University of Naples Federico II (Naples, Italy) within the “*Morphological and physiological adaptation of vegetal systems in microgravity*” funded by ASI (Italian Space Agency).
- July 1999-March 2000 Technical training on organic woody crops at the farm “Galdieri” (Nocera Inferiore, SA, Italy).
- Dec. 1999–June 2000 Research collaboration for “Light microscopy applied to root anatomy” at the Dept. of Agricultural Engineering and Agronomy, University of Naples Federico II (Naples, Italy) within the “*Morphological and physiological adaptation of vegetal systems in microgravity*” funded by ASI (Italian Space Agency).

Coordination of Research Projects

- 2023-... **MUR (Italian Ministry of University and Research) PRIN: PROGETTI DI RICERCA DI RILEVANTE INTERESSE NAZIONALE – Bando 2022 PNRR (Prot. P20227BLHS)** Substitute Principal Investigator and Research Unit Coordinator of the project “Novel materials for bioinspired metal-air batteries”
- 2023-... **ESA (European Space Agency) AO-2022 - Reserve Pool of Science Activities for the Moon** Coordinator of the project “Priming Radiation-Induced plants’ adaptation to MOon: make an enemy your friend (PRIMO)”

- 2022-... **Project for Beamtime by the Program Advisory Committee for Biophysics and Radio-Biology nel programma FAIR Facility for Antiproton and Ion Research in Europe GmbH, GSI Helmholtzzentrum für Schwerionenforschung GmbH (Darmstadt, Germany) BIOPAC 09 (2022/01) in 2023/2024:** Exploring the radioresistance and radiosensitivity mechanisms of edible plants (RadioPlant2)' dal Program Advisory Committee for Biophysics and Radio-Biology nel programma FAIR Facility for Antiproton and Ion Research in Europe GmbH, GSI Helmholtzzentrum für Schwerionenforschung GmbH (Darmstadt, Germany).
- Importo progetto totale complessivo: fornito direttamente in forma di 2 shifts di beam-time presso il SIS del GSI*
- 2021-... **International Exchanges award funded by The Royal Society (London, UK)** IES\R2\212159 Co-Investigator with Prof. Alessandro Tarantino of the University of Strathclyde (UK). Project Title: "Plants: climate-smart and carbon-efficient nature based solution to mitigate diffuse climate-induced landslide hazard".
- 2020-... **INSPIRE H2020 Transnational Access INfraStructure in Proton International Research:** User Group Leader for the supporting Grant to the project "Assessing radiosensitivity of higher plants and mechanisms for radioresistance at different phenological stages (RadioPlant)".
- 2020-... **Project for Beamtime by the Program Advisory Committee for Biophysics and Radio-Biology nel programma FAIR Facility for Antiproton and Ion Research in Europe GmbH, GSI Helmholtzzentrum für Schwerionenforschung GmbH (Darmstadt, Germany):** Assessing radiosensitivity of higher plants and mechanisms for radioresistance at different phenological stages (RadioPlant).
- 2019-... **Project funded by the Campania Region (PSR Campania 2014 – 2020 Sottomisura 16.1 azione 2 - D.R.D. n. 339/2017):** Modelli sostenibili di coltivazione del vitigno Greco: efficienza d'uso delle risorse ed applicazione di indicatori della 'Footprint family' - GREASE. Sustainable models of cultivation of the Greco grapevine: resource use efficiency and application of the Footprint family indicators - GREASE.
- 2018-... **Project funded by the Private Company RADICIRPINE DI CANONICO & SANTOLI S.R.L.S.:** Morpho-anatomical investigations for the evaluation of theoretical conductivity and hydraulic safety in grapevine
- 2018-... **Project funded by the Private Company CAT SERVIZI ALLE IMPRESE S.R.L.S.:** Evaluation of the application of an integrated approach to the environmental sustainability in viticulture through Footprint Family indicators.
- 2017-... **Project funded by the Private Company Cantine Astroni s.r.l.:** Rootstock effect on ecophysiological and structural traits in grapevine cv 'Piedirosso'.
- 2017-2018 **Project of the Vesuvio National Park:** "Monitoring plant biodiversity and evaluation of the impact of dusts on plant growth in the Vesuvio National (BIO-IND-2), within the Project of the Italian Ministry of Environment "Impatto antropico da pressione turistica nelle aree protette: interferenze su territorio e biodiversità" – Direttiva Conservazione della Biodiversità n. 15956 del 27.07.2016 del Ministero dell'Ambiente e della Tutela del Territorio e del Mare.

- 2016-2017 **Project funded by the Private Company Cantine Astroni s.r.l.**: Study of ecophysiological and anatomical responses of grapevine cv Piediroso, trained with and without rootstock.
- 2015-2016 **Project of the Vesuvio National Park**: “Biodiversity of plants and evaluation of indicators in model species in the Vesuvio National Park (BIO-IND), within the Project of the Italian Ministry of Environment “Impatto antropico da pressione turistica nelle aree protette: interferenze su territorio e biodiversità” – Direttiva Conservazione della Biodiversità n. 48234 del 21.10.2013.
- 2013-2014 **Progetto FARO (Finanziamenti per l’Avvio di Ricerche Originali)** co-funded by the University of Naples and the San Paolo Company: Effetto delle RADiazioni IONizzanti sulla crescita di POModoro: contromisure alimentari per sostenere la vita nello Spazio (RADIO-POM)
- 2004 - 2006 **ESA Project (European Space Agency)**: SAYSOY – Space Apparatus to Yield SOYsprouts (FOTON-M2 Campaign).
- 2005 - 2006 **UE - SYNTHESYS project**: “Application of digital image analysis on wood anatomy of Mediterranean species aimed to compare adaptive strategies at vascular level”

Responsibility of Research Units in Research Projects

- 2019/.... **PSR Campania 2014 – 2020 Sottomisura 16.1 azione 2 - D.R.D. n. 339/2017**: Terroir Intelligente del Sannio - Innovazione per una Falanghina Resiliente - INNFARES. V. De Micco is Scientific Responsible of the WP2 (Working Package) on “Reconstruction of past and monitoring of present eco-physiological status of vineyards”.
- 2019/.... **ASI Project (Italian Space Agency)**: REBUS - In-situ REsource Bio-Utilization for life Support system; Bando di Ricerca per missioni future di esplorazione umana dello spazio - Area tematica Sistemi Biorigenerativi. V. De Micco is Scientific Responsible of the following WP (Working Package): WP1300 “Effect of ionizing radiation on plants”.
- 2019/.... **ASI Project (Italian Space Agency)**: MICROX2 - Microgreens x Microgravity' (MICROx2). V. De Micco is Scientific Responsible of the following WP (Working Package): WP1300 “Definizione dei parametri ambientali per la produzione in ambiente spaziale (T e UR) - Definition of environmental parameters for plant production in Space (T and RH)”.
- 2015/.... **ESA Project (European Space Agency)**: WAPS - Water Across the Plant Systems: effects of microgravity on organ morphological and functional traits, ILSRA-2014-0020 (International Life Sciences Research Announcement. V. De Micco is Scientific Responsible of the following WPs (Working Packages): WP1100 “Set up of the biological system; WP3100 “Pre-flight Operations on seeds”; WP7100 “Morphological and anatomical analyses in plants”

Participation to Research Projects

- 2020/... NASA Project: NASA funding announcement Development of Microgravity Food Production: Plant Watering, Volume Management, and Novel Plant Research on the International Space Station funding opportunity [solicitation # [NNH18ZTT001N-PT](#)]. Title of the Project: Microgravity crop production: Meeting the challenges of water/nutrient delivery, volume management, and providing diet diversity for the International Space Station
- 2017/2018 **ASI Project (Italian Space Agency):** EXPLORA - Esplorazione umana e robotica dello spazio; Education Programme for the MISSION ISS 53/54 "VITA"
- 2016/2018 **ESA Project (European Space Agency):** ACSA – Air and Canopy Sub-compartment Analysis
- 2016/2018 **Progetto ASI (Agenzia Spaziale Italiana):** MULTI-TROP (MULTI-TROPismo) within the programme "Youth ISS Science", MISSION ISS Expedition 52/53 "VITA". V. De Micco is Co-Scientific Responsible for the activities of the Dept. of Agricultural Sciences of the University of Naples Federico II
- 2015/2016 **ESA Project (European Space Agency):** PFPU - Precursor of Food Production Unit
- 2014/2015 **ASI Project (Italian Space Agency):** EPO-HiP (Higer Plants) within the Education Programme of the MISSION ISS 42/43 "FUTURA". The project include the Action LISS: Lessons on the International Space Station
- 2013/2015 **ESA-Project (European Space Agency):** MELISSA Food Characterisation Phase 2
- 2012/2016 **UE – COST Action:** FP1106 STReSS - Studying Tree Responses to extreme Events: a Synthesis (Participation as Substitute Member of the Management Committee)
- 2008/2012 **ESA-Project (European Space Agency):** MELISSA Food Characterisation Phase 1
- 2009/2010 **National Park of "Cilento e Vallo di Diano":** Environmental monitoring of microsites in which grows Primula palinuri Pet. and study of the early phases of its life cycle
- 2007/2008. **Progetto ASI (Italian Space Agency) -** Controllo Ambientale Biorigenerativo (CAB).
- 2004/2006 **National Project (PRIN):** Physiology of crop timing and scheduling technologies for ornamental crops
- 2000/2002 **ASI Project (Italian Space Agency):** Morphological and physiological adaptation of vegetal systems in microgravity
- 1998/2002 – **EU Project (European Union):** ModMED III: Modelling Mediterranean Ecosystem Dynamics, EU-DGXII Environment (IV) Framework, ENV 4-CT97-0680

Other Projects: Regional and sub-contracting

2012. Regional Project - Regolamento CE 797/04 - Sottoazione F1 - Mieli uniflorali della Campania: analisi della fioritura e dell'interazione ape-fiore per migliorare la qualità della produzione.
2011. Regional Project - Regolamento CE 797/04 - Sottoazione F1 - Caratterizzazione botanica dei mieli campani mediante analisi degli aromi e dei residui di polline.

2010. Regional Project - Regolamento CE 797/04 - Sottoazione F1 - Caratterizzazione dei mieli: applicazione di nuove tecniche analitiche e confronto con metodi tradizionali.

2009. Regional Project - Regolamento CE 797/04 - Sottoazione F1 - Caratterizzazione botanica e geografica dei mieli attraverso l'elaborazione di dati melissopalinologici con tecniche matematiche di data-mining.

2008. Regional Project - Comunità Montana Costiera Amalfitana - Miele di qualità in Costiera Amalfitana: formazione e divulgazione.

2008. Regional Project - Regolamento CE 797/04 - Sottoazione F1 - Miglioramento qualitativo del miele mediante analisi fisico-chimiche e microbiologiche, studi di tipizzazione in base all'origine botanica e geografica - (Cilento). Caratterizzazione botanica e geografica dei mieli attraverso l'elaborazione di dati melissopalinologici con sistemi esperti di apprendimento supervisionato.

2008. Regional Project - Regolamento CE 797/04 - Sottoazione C1 - Mappatura delle aree nettarifere, cartografia, raccolta dati sulle fioriture o flussi di melata, spese per la diffusione dei dati raccolti - (Cilento). Redazione di una monografia sul miglioramento delle produzioni di miele ed elaborazione dati melissopalinologici e cartografici.

2007. Regional Project - Regolamento CE 797/04 - Sottoazione F1 - Miglioramento qualitativo del miele mediante analisi fisico-chimiche e microbiologiche, studi di tipizzazione in base all'origine botanica e geografica - (Cilento). Analisi palinologiche ed elaborazione dei dati attraverso sistemi esperti di apprendimento supervisionato per la caratterizzazione botanica e geografica dei mieli al fine di valorizzare le produzioni locali.

2006. Regional Project - Regolamento CE 797/04 - Sottoazione F1 - Miglioramento qualitativo del miele mediante analisi fisico-chimiche e microbiologiche, studi di tipizzazione in base all'origine botanica e geografica - (Cilento). Caratterizzazione botanica di mieli prodotti in aree del Cilento scarsamente utilizzate per l'apicoltura.

2005. Regional Project - Regolamento CE 797/04 - Sottoazione F1 - Miglioramento qualitativo del miele mediante analisi fisico-chimiche e microbiologiche, studi di tipizzazione in base all'origine botanica e geografica - Penisola Sorrentino Amalfitana.

2004. Regional Project - Regolamento CE 2407/01 - Caratterizzazione istologica delle drupe delle varietà di olive da olio in relazione alle variabili agronomiche, allo stadio di maturazione ed alla tecnologia di trasformazione.

2004. Regional Project - Regolamento CE 1221 - Caratterizzazione Botanica e geografica del miele prodotto in Penisola Sorrentino-Amalfitana e nelle aree del Beneventano.

2003. Regional Project - Regolamento CE 1221 - Caratterizzazione melissopalinologica e miglioramento qualitativo del miele prodotto nella penisola Sorrentino-Amalfitana.

2001. CNR Project (National Research Council) - Fenologia florale e biologia dell'impollinazione di progenie selezionate di *Juglans regia*. (Nell'ambito del progetto nazionale "Aspetti di agrobiologia e sostenibilità dei sistemi produttivi di specie da legno pregiato: il modello *Juglans regia*")

National and International Appointments

- 2021-...Member of the Lunar BioMission Topical Team of the European Space Agency
- 2021-... Member of the IAWA Council (International Association of Wood Anatomists).
- 2021-... Coordinator of the Student Orientation and Transversal Skills activities at UNINA-DIA, IT.
- 2020 – 2023 Member of the Life Sciences Working Group (LSWG) of the European Space Agency
- 2020- ...Elected Fellow of the International Academy of Wood Science
- 2020-... Coordinator of the International Working Group for the realization of the ROADMAP #9: Biology in Space and Analogue Environments (Plant Biology) within the ESA (European Space Agency) program “Science roadmaps in life and physical sciences in space”.
- 2020-... Coordinator of the International Working Group for the realization of the ROADMAP #11: Bio-regenerative life support systems in space: space biotechnology & space agriculture within the ESA (European Space Agency) program “Science roadmaps in life and physical sciences in space”.
- 2020-...Member of the Facility Science Teams (FST) dell’European Space Agency per definire: “science capability requirements for the upgrade of the Biolab facility on the International Space Station”.
- 2020-...Member of the Working Group “Radiation” for the development of the Roadmap of ASI
- 2020-...Member of the Coordination Team of the Q-Net (network of scholars using Quantitative Wood Anatomy; [Q-NET – exchanging on Quantitative Wood Anatomy \(qwa-net.com\)](http://qwa-net.com))
- 2019-... Member of the Teaching Commission “Commissione Paritetica” of the Dept. of Agricultural Sciences of the University of Naples Federico II.
- 2017 – ... Member of the Teaching Board of the PhD in Food Science at UNINA-DIA, IT
- 2017-... Coordinator of the Inter-institutional Agreement between the Dept. of Agricultural Sciences of the University of Naples Federico II and the University of Ljubljana (Slovenia) within the EU Erasmus+ Programme.
- 2017- Member of the Working Group of ISS4MARS of the ASI (Italian Space Agency).
- 2016.- Coordinator of the International Working Group for the realization of the ROADMAP 2 “Supporting Life in Hostile Environments” within the ESA (European Space Agency) program “Science roadmaps in life and physical sciences in space”.
- 2016.- Member of the International Working Group for the realization of the ROADMAP 4 “Understanding gravity-related phenomena in cells and organisms” within the ESA (European Space Agency) program “Science roadmaps in life and physical sciences in space”.
- 2015 - Member of the Steering Committee of the ESA (European Space Agency) project WAPS - Water Across the Plant Systems: effects of microgravity on organ morphological and functional traits (European Space Agency - ESA - ILSRA-2014-0020).
- 2015-..... She is Member of the Scientific and Management Committee of the Botanical Garden of the University of Naples Federico II.

2014-today. She is Member of the Technical and Scientific Committee of the Agreement for Research Activities between the Dept. of Agricultural and Food Sciences of the University of Naples Federico II and the Vesuvio National Park.

2014-.... she is member of the Working Group IBIS (Italian Bioregenerative System) of ASI (Italian Space Agency).

2012-2017. Substitute Member of the Management Committee of the UE – COST Action FP1106 STReESS - Studying Tree Responses to extreme Events: a Synthesis.

2012-2017. Member of the IAWA Council (International Association of Wood Anatomists).

From 2012 she is Member of the Afro-European Regional Committee of the International Association of Wood Anatomists (IAWA).

2013 - 2016. Member of the Topic Group 4 - Wood-anatomical functional traits (Leaders Hans Beeckman, Katarina Cufar) of the UE – COST Action FP1106 STReESS - Studying Tree Responses to extreme Events: a Synthesis. Attività: Categorisation of wood-anatomical variables that potentially contain information on stress.

2013 - 2016. Member of the Topic Group 5 - Intra-annual density fluctuations (stable isotopes) (Leaders Giovanna Battipaglia, Martin De Luis) of the UE – COST Action FP1106 STReESS - Studying Tree Responses to extreme Events: a Synthesis. Attività: Using intra-annual features in wood for precise quantification of climatic factors influencing cambial activity and wood formation processes in the different environments (from Mediterranean to Siberia region).

2013 - 2016. Member of the Topic Group 9 - Effect of Stress on Wood quality (Leaders Manuela Romagnoli, Bilgin Icel) of the UE – COST Action FP1106 STReESS - Studying Tree Responses to extreme Events: a Synthesis. Attività: studying wood quality-relation to anatomy, chemistry, growth rate and wood density. Effect of stress on wood production and quality.

2008-2017. Adviser of the Working Group on Plant Biorhythms and Phenology of the Italian Botanical Society.

Editorial Boarding

2021-...Associate Editor of Frontiers in Plant Science “Crop and Product Physiology”

2020-...Associate Editor of Plants (MDPI) for the Plant Response to Abiotic Stress and Climate Change Section

2020-...Editor di Forests (MDPI) per lo Special Issue “Wood formation and environmental constraints: multiscale approach” ([mdpi.com/journal/forests/special_issues/Wood_Formation](https://www.mdpi.com/journal/forests/special_issues/Wood_Formation))

2020-...Member of the Editorial Review Board of Tree Physiology (Oxford Academic - ISI-WoS Journal)

2020-... Guest Associate Editor of Frontiers in Forests and Global Change. Title: “Vital Rates of Forest Dynamics Driven by Traits and Performance of Trees”

2019-... Communicating Editor of Trees Structure and Function (TSAF) (Springer Nature - ISI-WoS Journal)

2019-... Member of the Editorial Board of Forests (MDPI)

2019-.... Guest Editor of Dendrochronologia (Elsevier - ISI-WoS Journal)

2018-2020 Guest Associate Editor of Frontiers in Plant Science in “Functional Plant Ecology”. Title: “Multiscale Approach to Assess Forest Vulnerability”

2017-2020 Review Editor of Frontiers in Plant Science “Crop and Product Physiology”

2017-... Review Editor of Frontiers in Plant Science “Functional Plant Ecology”

2016-..... Associate Editor of IAWA Journal (Brill Academic Publishers –ISI-WoS Journal)

2014. Guest Editor of Dendrochronologia (Elsevier - ISI-WoS Journal)

2011 - 2017. Member of the Editorial Board of IAWA Journal (Brill Academic Publishers –ISI-WoS Journal).

2008-2014: Member of the Editorial Advisory Board of The Open Forest Science Journal, Bentham Open.

Collaborations as referee

She serves as referee for many journals, including: Annals of Botany (Oxford University Press)

- Advances in Space Research (Elsevier Publishing)
- Acta Astronautica (Elsevier Publishing)
- New Phytologist (Blackwell Publishing)
- Physiologia Plantarum (Blackwell Publishing)
- Plant Biology (Blackwell Publishing)
- Forest Ecology and Management (Elsevier Publishing)
- Plant Science (Elsevier Publishing)
- Journal of Wood Chemistry and Technology (Taylor & Francis)
- Journal of Horticultural Science and Biotechnology (ISHS)
- Radiation and Environmental Biophysics (Springer)
- Trees Structure and Function (Springer)
- Tree Physiology (Oxford University Press)
- Dendrochronologia (Elsevier Publishing)
- Acta Oecologica (Elsevier Publishing)
- IAWA Journal (Brill)
- PLOS ONE
- Planta (Springer)
- Nature Communications

Scientific associations

She is member of the following scientific associations:

-International Association of Wood Anatomists (IAWA)

-Società Botanica Italiana – Italian Society of Botany (SBI)

- European Geosciences Union (EGU)

Participation to Commission for the Assignment of International Awards

2017. I.W. Bailey Award for best publication by an early career wood anatomists in the IAWA Journal.

2016. Annual award for the best scientific publication (year 2016). University of Perugia.

Participation to Scientific and Organizing Committees in International Conferences

2023-24. Member of the Scientific Committee and Organizer of the International School “Wood and charcoals in Mediterranean forest ecology: anatomical identification and functional traits to interpret past and current climate changes” (Portici, 19-23 February)

2023. Member of the Organizing Committee of the 5th Q-NET workshop “Plant Cell Walls – Structure, Function, Composition”, 19 Jan 2023, online

2022-2023. Co-Convener of the Session SSS9.9: “Biogeosciences and wine: the management and the environmental processes that regulate the terroir effect in space and time” of the EGU General Assembly (Vienna, Austria, 23-28 April 2023)

2022-2023. Convener of the Session BG3.3: “Trait-based approach to assess plant species vulnerability and resilience to environmental changes in agriculture, forestry and natural ecosystems” of the EGU General Assembly (Vienna, Austria, 23-28 April 2023)

2022. Chair of the Session “Ecological Wood Anatomy” of The 9th IAWA China Group Annual Meeting and 2022 International Youth Forum for Wood Anatomy (Beijing, China, 10-11 December)

2021-2022. Co-Convener of the Session SSS9.3: “Biogeosciences and wine: the management and the environmental processes that regulate the terroir effect in space and time” of the EGU General Assembly (Vienna, Austria, 23-27 May 2022)

2021-2022. Convener of the Session BG3.16: “Trait-based approach to assess plant species vulnerability to environmental changes in agriculture, forestry and natural ecosystems” of the EGU General Assembly (Vienna, Austria, 23-27 May 2022)

2021. Member of the Organizing Committee of the 3rd Q-NET workshop “Tropical QWA”, 26 Nov 2021, online

2021. Chair of the Session “Ecological Wood Anatomy” of The 8th IAWA China Group Annual Meeting and 2021 International Youth Forum for Wood Anatomy (Beijing, China, 13 November)

2021. Member of the Scientific Committee and Organizer of the International Summer School “Wood and charcoals in Mediterranean forest ecology: anatomical identification and functional traits to interpret past and current climate changes” (Portici, 21-25 June)

2020-2021. Convener of the Session SSS9.5: “Biogeosciences and wine: the management and the environmental processes that regulate the terroir effect in space and time” of the EGU General Assembly (Vienna, Austria, 19-30 April 2021)

2020-2021. Co-convener of the Session BG3.10: "Tree mortality and forest vulnerability across different biomes and climatic conditions - the need of multidisciplinary approaches at various scales" of the EGU General Assembly (Vienna, Austria, 19-30 April 2021)

2019-2020. Convener of the Session SSS9.3: "Biogeosciences and wine: the management and the environmental processes that regulate the terroir effect in space and time" of the EGU General Assembly (Vienna, Austria, 3-8 May 2020)

2019-2020. Co-convener of the Session BG2.23: "Tree mortality and forest vulnerability across different biomes and climatic conditions - the need of multidisciplinary approaches at various scales" of the EGU General Assembly (Vienna, Austria, 3-8 May 2020)

2019. Member of the International Program Committee of the 2019 IEEE International Workshop Metrology for Agriculture and Forestry (Portici, Naples, Italy, 24-26 October 2019)

2018-2019. Co-convener of the Session BG2.23: "Tree mortality and forest vulnerability" of the EGU General Assembly (Vienna, Austria, 7-12 April 2019)

2019 Member of the Scientific Committee, Chair and Organizer of the Session "Wood anatomy meets Dendro-sciences", TRACE (Tree-rings in Archaeology, Climatology and Ecology) (Caserta, IT, 7-10 May 2019)

2017-2018. Co-convener of the Session BG2.23: "Mediterranean forests under pressure: current knowledge and future science directions" of the EGU General Assembly (Vienna, Austria, 8-13 April 2018).

2017. Member of the Organising Committee of the International Summer School "Dendroecology, Quantitative wood anatomy and Stable isotopes: from xylogenesis to tree rings" (Napoli-Caserta, 25-29 September)

2017. Member of the Scientific Committee of the First Italian Workshop ISS4Mars: a new concept to foster human exploration of Mars to provide ISS with an impressive final mission. Vision and limitations (Rome, Italy, 26 June)

Member of the Organizing Committee of the International Summer School "Flowers & pollinators: field and lab techniques to assess functionality for biodiversity conservation" (Naples, 13-16 September, 2016)

Co-Organizer of the Round Table "Do the cells really matter?" within the Outreach Event of the Final COST-STReESS meeting, COST Action FP1106 STReESS - Studying Tree Responses to extreme Events: a Synthesis (Joachimsthal, Berlin, Germany, 12-14 April 2016).

Co-Chair Of the Session "Biological Elements of Bioregenerative Life Support Systems" within the ISLSWG - Workshop on Bioregenerative Life Support (Turin, 18-19 May, 2015).

Chair of the Organizing Committee of the International Symposium on Wood Structure for Plant Biology and Ecology (WSE) (Naples, Italy, 17-20 April 2013).

Member of the Scientific Committee of the International Symposium on Wood Structure for Plant Biology and Ecology (WSE) (Naples, Italy, 17-20 April 2013).

Local Organizer of the "II Meeting of the Management Committee of the COST Action FP1106 STReESS - Studying Tree Responses to extreme Events: a Synthesis (Napoli, 15-16 April 2013).

Co-Chair of the Session " Ecological and evolutionary wood anatomy " nell'ambito dell'International Symposium on Wood Structure for Plant Biology and Ecology (WSE) (Naples, 17-20 April 2013).

Co-Chair of the session "Bioregenerative Life Support and Radiation" within the Plant Biology Congress, ISLSWG Satellite Workshop (Freiburg, 29 July - 3 August 2012).

Awards

National award for the best Project GO (Sustainable models of cultivation of the Greco grapevine: resource use efficiency and application of the Footprint family indicators – GREASE) of the PEI-AGRI within the Climate Change section, in the RURINNOVA Contest, National Rural Network (Rural Development Programme 2014-2020): (Rome, Italy, 2 March 2023)

Best Paper of the Poster Session to “Retrospective reconstruction of the eco-physiological grapevine behaviour through the analysis of tree-ring series to validate an approach to extract data from space-born and UAV techniques” by Damiano N, Bonfante A, Cirillo C, Amitrano C, Erbaggio A, Brook A, De Micco V., within the 2019 IEEE International Workshop Metrology for Agriculture and Forestry (Portici, Naples, Italy, 24-26 October 2019)

Award for the best poster presented at the AgroSpace (ESA) MELISSA Workshop with the contribution: Effects of heavy ions on development, photosynthesis and fruit antioxidant production (authors: ArenaC, Vitale E, Hay Mele B, Cataletto PR, Turano M, Simoniello P, De Micco V.) (Rome, Italy May 2018)

Scientific award of the Italian Space Agency (ASI) in recognition of the outstanding contribution to the LISS Project “LISS – Lesson on the ISS” (Rome, October 2016)

Carnevale della Fisica (48a Edizione). Award to the LISS Project (Lessons on the International Space Station) of the Italian Space Agency (January-February 2015)

Recognition of the Fondazione Marisa Bellisario for the “excellent and brilliant professionalism and expertise in the fields of research, innovation and development”. Donne Innovazione e Capitale Umano, Le protagoniste 2011 –Marisa Bellisario Award, XXIII Edition (Rome, June 2011)

Award “Alla Ricerca di Talenti, premio Roberto Marrama” (Association Il Denaro Ricerche & Formazione in collaboration with the Istituto Banco di Napoli Fondazione), Section Research, edition 2007-2008

Award of the Italian Society of Botany (SBI) for the best Italian PhD Thesis in the years 2002-2004 in Botany, Rome (Italy), September 2005

Scientific award of the European Space Agency (ESA) in recognition of the outstanding contribution and with special appreciation for the professional dedication as Principal Investigator of the SAYSOY Project “SAYSOY – Space Apparatus to Yield SOYsprouts” during the successful Foton-M2 mission, Baikonur (Kazakhstan), June 2005

International award for the advancement of Space Sciences “Luigi Napolitano Award” for the best paper presented by young researchers at the 54th International Astronaut Congress and assigned by the International Astronaut Federation (IAF), Bremen (Germany), October 2003

Scientific Award of European Space Agency (ESA) for the project “Xylem differentiation and phenolics accumulation in vegetal systems developed in space” presented within the “Success 2002 Student Contest”, Colony (Germany), August 2003

Revision of national and international projects

She has acted as referee for projects to be funded by Portuguese public funding agency for R&D, FCT Findacao para a Ciencia e a Tecnologia within the 2020 Call for SR & TD Project Grants (2022).

She has acted as referee for projects for the Swiss National Science Foundation (2020).

She has acted as referee for projects to be funded by Portuguese public funding agency for R&D, FCT Findacao para a Ciencia e a Tecnologia within the 2020 Call for SR & TD Project Grants (2020).

She has acted as referee for projects funded by the National Science Center, Poland (2020).

She has acted as referee for projects to be funded by the Netherlands Organisation for Scientific Research, Domain Applied and Engineering Sciences - NWO Domain TTW (2019).

She serves as referee and rapporteur of SIR projects for the MIUR (Ministero dell'Istruzione, dell'Universita' e della Ricerca).

She has acted as referee for projects to be funded by the Netherlands Organisation for Scientific Research, User Support Programme Space Research - NWO/SRON (2008).

TEACHING AND TUTORSHIP

Courses at Italian Universities

a.a. 2022-2023. Teaching of the Course “General and systematic botany”, Group A-H, (9CFU) of the Laurea Degreee in Agricultural, Forestry and Environmental Sciences of the University of Naples Federico II

a.a. 2022-2023. Teaching of the Course “Elements of General Biology and Botany”, Group A-H, (6CFU) of the Laurea Degreee in Food Sciences of the University of Naples Federico II

a.a. 2021-2022. Teaching of the Course “General and systematic botany”, Group A-H, (9CFU) of the Laurea Degreee in Agricultural, Forestry and Environmental Sciences of the University of Naples Federico II

a.a. 2021-2022. Teaching of the Course “Elements of General Biology and Botany”, Group A-H, (6CFU) of the Laurea Degreee in Food Sciences of the University of Naples Federico II

a.a. 2020-2021. Teaching of the Course “General and systematic botany”, Group A-H, (9CFU) of the Laurea Degreee in Agricultural, Forestry and Environmental Sciences of the University of Naples Federico II

a.a. 2020-2021. Teaching of the Course “Elements of General Biology and Botany”, Group A-H, (6CFU) of the Laurea Degreee in Food Sciences of the University of Naples Federico II

a.a. 2019-2020. Teaching of the Course "General and systematic botany", Group A-H, (9CFU) of the Laurea Degreee in Agricultural, Forestry and Environmental Sciences of the University of Naples Federico II

a.a. 2019-2020. Teaching of the Course "Elements of General Biology and Botany", Group A-H, (6CFU) of the Laurea Degreee in Food Sciences of the University of Naples Federico II

a.a. 2018-2019. Teaching of the Course "General and systematic botany", Group A-H, (9CFU) of the Laurea Degreee in Agricultural, Forestry and Environmental Sciences of the University of Naples Federico II

a.a. 2018-2019. Teaching of the Course "Elements of General Biology and Botany", Group A-H, (6CFU) of the Laurea Degreee in Food Sciences of the University of Naples Federico II

a.a. 2017-2018. Teaching of the Course "General and systematic botany", Group A-H, (9CFU) of the Laurea Degreee in Agricultural, Forestry and Environmental Sciences of the University of Naples Federico II

a.a. 2017-2018. Teaching of the Course "Elements of General Biology and Botany", Group A-L, (6CFU) of the Laurea Degreee in Food Sciences of the University of Naples Federico II

a.a. 2016-2017. Teaching of the Course "Elements of General Biology and Botany", Group A-L, (6CFU) of the Laurea Degreee in Food Sciences of the University of Naples Federico II

a.a. 2015-2016. Teaching of the Course "Elements of General Biology and Botany", Group A-L, (6CFU) of the Laurea Degreee in Food Sciences of the University of Naples Federico II

a.a. 2014-2015. Teaching of the Course "Elements of General Biology and Botany", Group A-L, (6CFU) of the Laurea Degreee in Food Sciences of the University of Naples Federico II

a.a. 2013-2014. Teaching of the Course "Elements of General Biology and Botany", Group A-L, (6CFU) of the Laurea Degreee in Food Sciences of the University of Naples Federico II

a.a. 2012-2013. Teaching of the Course "Elements of General Biology and Botany", Group A-L, (6CFU) of the Laurea Degreee in Food Sciences of the University of Naples Federico II

a.a. 2011-2012. Teaching of the Course "Elements of General Biology and Botany", Group M-Z, (6CFU) of the Laurea Degreee in Food Sciences of the University of Naples Federico II

a.a. 2011-2012. Teaching of the Course "General and systematic botany" (9CFU) of the Laurea Degreee in Viticulture and Oenology of the University of Naples Federico II

a.a. 2010-2011. Teaching of the Course "General and systematic botany" (9CFU) of the Laurea Degreee in Viticulture and Oenology of the University of Naples Federico II

a.a. 2008-2009. Teaching of the Course "General and systematic botany" (9CFU) of the Laurea Degreee in Viticulture and Oenology of the University of Naples Federico II

Tutorship at Italian Universities

2022-2023, Responsible of tutorship at the Dept. Agricultural Sciences of the University of Naples Federico II within “Percorsi di Conoscenze Trasversali e di Orientamento (PCTO) with secondary schools” about “Gestione e conservazione della biodiversità vegetale”.

2022-2023, Tutorship at the Dept. Agricultural Sciences of the University of Naples Federico II within “Percorsi di Conoscenze Trasversali e di Orientamento (PCTO) with secondary schools” about “Le agro-tecnologie per la coltivazione delle piante in ambienti estremi”.

2021-2022, Responsible of tutorship at the Dept. Agricultural Sciences of the University of Naples Federico II within “Percorsi di Conoscenze Trasversali e di Orientamento (PCTO) with secondary schools” about “Gestione e conservazione della biodiversità vegetale e animale”.

2021-2022, Tutorship at the Dept. Agricultural Sciences of the University of Naples Federico II within “Percorsi di Conoscenze Trasversali e di Orientamento (PCTO) with secondary schools” about “Le agro-tecnologie per la coltivazione delle piante in ambienti estremi”.

2017-2018. Tutorship at the Dept. Agricultural Sciences of the University of Naples Federico II within “Percorsi in alternanza scuola lavoro” about the “Gestione del verde in ambito urbano e in aree di interesse naturalistico” - “Management of the urban green and natural areas”.

2016-2017. Tutorship at the Dept. Agricultural Sciences of the University of Naples Federico II within “Percorsi in alternanza scuola lavoro” about the “Plant growth experiments to evaluate the quality of compost”.

2007-2008. Tutorship of the E-learning Course of Plant Biology at the Faculty of Agriculture of the University of Naples Federico II within the Degree course in “Food technologies”.

2000-2001. Tutorship for undergraduate students at CDS (Centro Didattico Scientifico – Scientific and Education Office) of the University of Naples Federico II, within the Project P.Or.T.A. co-funded by Italian MURST and European Union (2000/2001)

Additional Educational Activities for undergraduates

Tutorship to undergraduate students since 2009.

Collaboration to the activities of support to students, seminars and practical lessons in laboratory within the following courses:

- “Elements of General Biology and Botany” (Laurea Degree in Food Technologies) during the academic years 2009/2010, 2010/2011, 2011/2012
- “Laboratory of Ecology and Plant Reproduction (Laurea Degree in Agronomic and Food Biotechnology) during the academic year 2008/2009
- “Applied Botany” (Laurea Degree in Plant Productions) during the academic years 2002/2003, 2003/2004, 2004/2005, 2005/2006, 2006/2007 and 2007/2008
- “Agricultural Biology” (Laurea Degree in Agronomic and Food Biotechnology) during the academic years 2005/2006, 2006/2007 and 2007/2008

- “Plant Biology” (Laurea Degree in Food Technologies) during the academic years 2004/2005, 2005/2006, 2006/2007 and 2007/2008
- “Botany” (Laurea Degree in Animal Productions) during the academic years 2003/2004, 2004/2005 and 2005/2006
- “Applied Plant Biology” (Laurea Degree in Biotechnologies for the Agro-industry) during the academic year 2004/2005

Since 2012 she gives lectures on dendroecology and quantitative wood anatomy within the Laurea Degree in Forest and Environmental Science of the University of Naples Federico II.

Lessons of General and Applied Botany at the Course for Education and Post-Graduate Technical Formation (IFTS – G.R. 9619/99 Cod.Uff. 104) (2000/2001)

Additional Educational Activities within International Courses, PhD Courses and Summer Schools

2021 - Instructor at the International Summer School “Wood and charcoals in Mediterranean forest ecology: anatomical identification and functional traits to interpret past and current climate changes” (Portici, 21-25 June)

2017 - Instructor at the International Summer School “Dendroecology, Quantitative wood anatomy and Stable isotopes: from xylogenesis to tree rings” (Napoli-Caserta, 25-29 September, 2017)

2013/2014, 2014-2015, 2015-2016, 2016-2017 and 2017-2018 - she participated to the activities of ERASMUS MUNDUS MASTER COURSE FIPDes (Food Innovation and Product Design), on the subject “Food for Astronauts”.

2013/2014 - she carried out a cycle of seminars on Bioregenerative Life Support Systems in Space within the Course “Advanced Techniques for Horticultural Productions” for the PhD Course “Valorizzazione e gestione delle risorse agroforestali” of the University of Naples Federico II.

2011/2012 - Participation to the board of the Proficiency Course for post-graduates in “Wood and charcoals in the Mediterranean area: archaeological and palaeo-ecological problems” at the University of Naples Federico II, for the academic year 2011-2012.

Lectures and cycles of seminars for International Laurea Degree Courses, PhD Courses, Stages and Meetings.

Lecture “Wood Intra-Annual Density Fluctuations (IADFs): What have we learned in 15 years of study of their wood anatomy and stable isotopic composition?” within the Birmensdorfer Tree-Ring Lectures, Swiss Federal Institute for Forest, Snow and Landscape Research (WSL), Birmensdorf, CH (21 febbraio 2021)

Lecture “Forest vulnerability in Mediterranean environment under climate change: interdisciplinary approaches at multiple scales”, within the Editor in Chief Forum: International Day of Forests and World Water Day, MDPI Webinar (21-22 marzo 2021)

Lecture “Attività cambiale e formazione del legno: variabilità intra-annuale delle caratteristiche anatomiche in risposta a cambiamenti ambientali” within the PhD Course in “Scienze e Tecnologie per la gestione forestale ed ambientale” of the University of Tuscia, Dept. DAFNE (december 2012)

Lecture “Cambium activity and quantitative wood anatomy” within the “Stage for Young Researchers and workshop on Phenology and Climate Change” at the Centro Appenninico del Terminillo, 6-10 July, 2009.

Lecture “Microscopy and Digital Image Analysis of Plants in Space and in Mediterranean Ecosystems” at the Universiteit Leiden, Nationaal Herbarium Nederland, Leiden, The Netherlands (November 2006)

Lecture “Effect of simulated microgravity on seedling development and vascular differentiation of soybean” at the Swiss Federal Institute for Forest, Snow and Landscape Research (WSL), Birmensdorf, Switzerland (October 2003)

De Micco V. 2015. Formation of Intra-Annual Density Fluctuation in Mediterranean tree rings: evidence from xylogenesis and quantitative wood anatomy. Lecture within the Tree-Ring Summer Meeting “Mediterranean Ecology” of the Birmensdorfer Tree-Ring Lectures, at the Swiss Federal Institute for Forest, Snow and Landscape Research (WSL), Birmensdorf, Switzerland (28 July)

Activities for Laurea Degrees, Doctoral and PhD Theses, and Job Training

Supervisor of a PhD student in “Sustainable Agricultural and Forestry Systems and Food Security” (XXXVII cycle) of the Dept. of Agricultural and Food Sciences of the University of Naples Federico II. Candidate: Sara De Francesco (2021-...).

2022. Member of the Commission for the Final Examination of the PhD in SUSTAINABLE AGRICULTURAL AND FORESTRY SYSTEMS AND FOOD SECURITY (XXXIV cycle) at the University of Naples Federico II.

2021. Member of the Commission for the Final Examination of the PhD in Biology (XXXIII cycle) at the University of Naples Federico II.

Supervisor of a PhD student in “Sustainable Agricultural and Forestry Systems and Food Security” (XXXVI cycle) of the Dept. of Agricultural and Food Sciences of the University of Naples Federico II. Piano Stralcio «Ricerca e innovazione 2015-2017», Comitato Interministeriale per la Programmazione Economica (CIPE), Fondo per lo Sviluppo e la Coesione (FSC) Candidate: Petracca Francesca (2020-...).

2020. External reviewer for the PhD thesis in “A multi-proxy approach to investigate climate drivers in the South-Eastern alps: records from three rings and peat bogs” of the PhD Programme “Mountain Environment and Agriculture” (Ciclo XXXII) at Libera Università di Bolzano.

Co-Supervisor of a PhD student in “Environment, design and innovation” (XXXIV cycle) of the University of Campania Luigi Vanvitelli Federico II. Candidate: Niccoli Francesco (2019-...).

2019. Member of the Commission for the Final Examination of the PhD Title in “Bioscienze e territorio” Curriculum Bioambientale (XXXI cycle) of the University of Molise

Supervisor of a PhD student in “Food Science” (XXXIV cycle) of the Dept. of Agricultural and Food Sciences of the University of Naples Federico II. Candidate: Nicola Damiano (2018-...).

2017-.....Member of the Teaching Board of the PhD in Food Science of the University of Naples Federico II

Supervisor of a PhD student in “Sustainable Agricultural and Forestry Systems and Food Security” (XXXIII cycle) of the Dept. of Agricultural and Food Sciences of the University of Naples Federico II. Candidate: Amitrano Chiara) (2017-...).

Supervisor of a PhD student in “Valorizzazione e gestione delle risorse agroforestali” (XXX cycle) of the Dept. of Agricultural and Food Sciences of the University of Naples Federico II. Candidate: Zalloni Enrica) (2014-2018). Title of the Thesis: The use of wood anatomical traits such as Intra-Annual Density Fluctuations as a tool to gain insights into Mediterranean plant adaptation to drought

Supervisor of a PhD student in “Valorizzazione e gestione delle risorse agroforestali” (XXIX cycle) of the Dept. of Agricultural and Food Sciences of the University of Naples Federico II. Candidate: Zalloni Enrica) (2014-2017). Title of the Thesis: Functional wood traits: xylogenesis, tree rings and intra-annual density fluctuations (IADFs) in Mediterranean species

In the year 2017 she has been appointed by the Universidad de Alicante (Spain) as external referee for the final evaluation of the PhD Thesis “Características de los anillos de crecimiento de *Pinus halepensis* en el Mediterráneo - Growth characteristics of tree rings in *Pinus halepensis* in the Mediterranean”.

In the year 2017 she has been appointed by the University of Padova (Italy) as external referee for the intermediate evaluation of the PhD Thesis “Dendroanatomy: a new approach to sharpen the focus on the climatic drivers of tree growth in the Mediterranean” within the PhD Course “Land, Environment, Resources and Health (LERH)”.

In the year 2017 she has been appointed by the University of Perugia (Italy) as external referee for the intermediate evaluation of the PhD Thesis “Analysis of *Phragmites australis* die-back in Italy: morpho-histological, molecular, and microbiological aspects of a complex phenomenon” within the PhD Course “Scienze e Biotecnologie Agrarie, Alimentari e Ambientali”.

In the year 2017 she has been appointed by the University of Naples “Parthenope” (Italy) as external referee for the intermediate evaluation of the PhD Thesis “Tutela della biodiversità e del paesaggio mediante la conservazione e produzione ex situ di specie vegetali di habitat dunali e retrodunali utilizzabili in interventi di ingegneria naturalistica per il ripristino ambientale in aree naturali protette” within the PhD Course “Scienze Applicate al Mare, all’Ambiente e al Territorio”.

In the year 2014 she has been appointed by the University of Basilicata (Italy) as external referee for the intermediate evaluation of the PhD Thesis “Vulnerability assessment of Mediterranean forests to climate changes: the study case of oak forest decline in Southern Italy” within the PhD Course “Agriculture, Forest and Food Science”.

In the year 2012 she has been appointed by the Universidad Complutense de Madrid (Spain) as external referee for the PhD Thesis “Estrategias de utilización del agua por las plantas en pinares

naturales y de repoblación del sureste ibérico semiárido” by Cristina Moreno Gutiérrez for the official defence according to Spanish Law.

In the year 2009 she was external professor of the Doctoral Course in Chemistry, Biology and Ecology of agricultural and natural Ecosystems at the University of Catania, Italy.

She is and has been tutor or co-tutor for more than 70 theses and experimental thesis for students of the Dept. of Biology and Dept. of Agricultural and Food Sciences of the University of Naples Federico II and tutor for the job training of undergraduates of the Laurea Degree Course in Viticulture and Enology.

KNOW-HOW TRANSFER

Consultancy

From 2000 to 2008 she has been consultant for the Journal “Giardini – Gardens” (Logos Publishing) on agronomical aspects for the horticulture, fruitculture and ornamental crops.

In the year 2000 she collaborated to the preparation of analytical keys for botanic identification within the book “*Guida al Riconoscimento degli arbusti ornamentali*” di R. Motti, Liguori Editions, First Italian Edition. April 2001.

Dissemination ACTIVITIES

2016-...Participation to and organization of numerous events aimed to the diffusion of scientific knowledge to stakeholders and public, including Darwin Day, Fascination of Plants Day. Examples of subjects:

- - Talk “In ‘volo’ con le piante oltre i confini della Terra...to be continued!” Darwin Day: Un viaggio con le piante nel tempo e nello Spazio, On-line (24 february 2022)

- Talk “Evoluzione delle piante e nascita del fiore: un viaggio attraverso forme, colori e profumi”, Rassegna *Conversazioni in Floridiana tra arte, letteratura, teatro e musica*, Museo Duca di Martina -Villa Floridiana, Napoli (6 october 2018)

- Talk “Gli alberi della Floridiana si raccontano”, Rassegna *Primavera in Floridiana*, Museo Duca di Martina -Villa Floridiana, Napoli (19 may 2018)

- Talk “Il cibo del futuro: nuovi consumi e responsabilità”, FOOD FOR ALL, Fondazione Giangiacomo Feltrinelli, Milan (3-10 may 2017)

- Talk “Gli anelli del legno come bioindicatori: non solo l’età”, World Biodiversity Day, Portici, Naples (20 may 2017)

- Talk “Space salad: sapori tra le stelle!”, European Researcher Night, Portici, Naples (10 oct 2016)

- Stands for practical activities on Plant Space Biology and on the Wood as archive of environmental informations in many events such as the World Biodiversity Day

2014. Participation to the preparation of the scientific contents of the website <http://avamposto42.esa.int/> of the ASI (Agenzia Spaziale Italiana) ed ESA (European Space Agency) to support the dissemination of results of the ISS MISSION – Increment 42/43 “FUTURA” (Astronaut Samantha Cristoforetti).

Publications

The research activity carried out has led to numerous research products divided according to the following scheme:

1. Papers in ISI-WoS or Scopus Journals with Impact Factor: n. 145
2. Papers in international Journals with peer-review without Impact Factor: n. 9
3. Papers in National Journals: n. 14
4. Books in English language: n. 1
5. Books in Italian language: n. 2
6. Edited Books: n. 6
7. Chapters in International Books with peer-review: n. 2
8. Articles in Proceedings in International conferences with peer-review: n. 6
9. Chapters in National books: n. 9
10. Articles in Proceedings of National conferences: n. 12
11. Abstract in international journals: n. 5
12. Invited lectures, oral and poster communications in National and International Conferences: more than 100

Indexes Scopus up to 06/10/2023

Number of Articles: n. 145

Number of Citations: n. 3417

H-index: 33

Articles in International Journals ISI-WoS or Scopus

- 1) De Micco V, Amitrano C, Mastroleo F, Aronne G, Battistelli A, Carnero-Diaz E, De Pascale S, Detrell G, Dussap CG, Ganigué R, Jakobsen ØM, Poulet L, Van Houdt R, Verseux C, Vlaeminck SE, Willaert R, Leys N. Plant and microbial science and technology as cornerstones to Bioregenerative Life Support Systems in space. npj Microgravity 9, 69 (2023). <https://doi.org/10.1038/s41526-023-00317-9>
- 2) De Micco, V., Aronne, G., Caplin, N. Carnero-Diaz E, Herranz R, Horemans N, Legué V, Medina FJ, Pereda-Loth V, Schiefloe M, De Francesco S, Izzo LG, Le Disquet I, Kittang Jost AI. Perspectives for plant biology in space and analogue environments. npj Microgravity 9, 67 (2023). <https://doi.org/10.1038/s41526-023-00315-x>
- 3) Amitrano C, Paglialunga G, Battistelli A, De Micco V, Del Bianco M, Liuzzi G, Moscatello S, Paradiso R, Proietti S, Roupheal Y and De Pascale S. 2023. Defining growth requirements of microgreens in space cultivation via biomass production, morpho-anatomical and nutritional traits analysis. Front. Plant Sci. 14:1190945. doi: 10.3389/fpls.2023.1190945
- 4) Battipaglia G, Kabala JP, Pacheco-Solana A, F. Niccoli, Bräuning A, Campelo F, Cufar K, de Luis M, De Micco V, Klisz M, Koprowski M, Garcia-Gonzalez I, Nabais C, Vieira J, Wrzesiński P,

- Zafirov N, Cherubini P. 2023. Intra-annual density fluctuations in tree rings are proxies of air temperature across Europe. *Sci Rep* 13, 12294 <https://doi.org/10.1038/s41598-023-39610-8>
- 5) Damiano N, Battipaglia G, Cherubini P, Amitrano C, Altieri S, Schneider L, Balzano A, Cirillo C, De Micco V. 2023. Anatomical and isotopic traits in grapevine wood rings record environmental variability. *IAWA Journal*, *in press*
 - 6) Petracca F, Arena C, Cirillo C, De Micco V. 2023. The basalt dust deposition on leaves does not influence the measurement of ecophysiological traits in grapevine. *Photosynthetica* 61 (SI): 241-246. DOI 10.32615/ps.2023.013
 - 7) De Francesco S, Amitrano C, Vitale E, Costanzo G, Pugliese M, Arrichiello C, Ametrano G, Muto P, Arena C, De Micco V. 2023. Growth, Anatomical, and Biochemical Responses of the Space Farming Candidate Brassica rapa L. Microgreens to Low-LET Ionizing Radiation, *Horticulturae*, 9, 452. <https://doi.org/10.3390/horticulturae9040452>
 - 8) De Micco V, Beeckman H. 2023. Editorial: Vital rates of forest dynamics driven by traits and performance of trees. *Frontiers in Forests and Global Change*, 54, 1090078. DOI: 10.3389/ffgc.2022.1090078
 - 9) Rita A, Ripullone F, Battipaglia G, Camarero JJ, De Micco V. 2023. Editorial: Forests under pressure: The need for interdisciplinary approaches to address forest vulnerability to tree mortality in response to drought. *Frontiers in Forests and Global Change*, 6, 1120987. DOI: 10.3389/ffgc.2023.1120987
 - 10) De Micco V, Amitrano C, Balzano A, Cirillo C, Izzo LG, Vitale E, Arena C. 2023. Anthropogenic Dusts Influence Leaf Anatomical and Eco-Physiological Traits of Black Locust (*Robinia pseudoacacia* L.) Growing on Vesuvius Volcano. *Forests*, 14, 212. DOI: 10.3390/f14020212
 - 11) Niccoli F, Pacheco-Solana A, De Micco V, Battipaglia G. 2023. Fire affects wood formation dynamics and ecophysiology of *Pinus pinaster* Aiton growing in a dry Mediterranean area. *Dendrochronologia*, 77: 126044. DOI: 10.1016/j.dendro.2022.126044
 - 12) Bonanomi G, Zotti M, Idbella M, Termolino P, De Micco V, Mazzoleni S. 2022. Field evidence for litter and self-DNA inhibitory effects on *Alnus glutinosa* roots. *New Phytologist*, 236: 399 – 412. DOI: 10.1111/nph.18391
 - 13) De Micco V, Arena C, Di Fino L, Narici L. 2022. Radiation environment in exploration-class space missions and plants' responses relevant for cultivation in Bioregenerative Life Support Systems. *Front. Plant Sci.* 13:1001158. doi: 10.3389/fpls.2022.1001158
 - 14) De Micco V, Amitrano C, Cirillo C. 2022. Wood anatomical and chemical characterization of trees for gaining knowledge on efficiency in water transport. *Acta Horticulturae*, 1345: 373 – 381. DOI: 10.17660/ActaHortic.2022.1345.50
 - 15) Amitrano C, Junker A, D'Agostino N, De Pascale S., De Micco V. 2022. Integration of high-throughput phenotyping with anatomical traits of leaves to help understanding lettuce acclimation to a changing environment. *Planta* 256, 68 (2022). <https://doi.org/10.1007/s00425-022-03984-2>
 - 16) Amitrano C, Roupael Y, De Pascale S, De Micco V. 2022. Vapour Pressure Deficit (VPD) Drives the Balance of Hydraulic-Related Anatomical Traits in Lettuce Leaves. *Plants* 2022, 11, 2369. <https://doi.org/10.3390/plants11182369>
 - 17) Damiano N, Cirillo C, Petracca F, Caputo R, Erbaggio A, Giulioli M, De Micco V. Falanghina Grapevine (*Vitis vinifera* L.) Yield and Berry Quality under Different Pedoclimatic Conditions in Southern Italy. *Horticulturae*. 2022; 8(9):829. <https://doi.org/10.3390/horticulturae8090829>
 - 18) Carillo P, De Micco V, Ciriello M, Formisano L, El-Nakhel C, Giordano M, Colla G, Roupael Y. 2022. Morpho-Anatomical, Physiological, and Mineral Composition Responses Induced by a

- Vegetal-Based Biostimulant at Three Rates of Foliar Application in Greenhouse Lettuce. *Plants*, 11(15):2030. <https://doi.org/10.3390/plants11152030>
- 19) Vitale E, Izzo LG, Amitrano C, Velikova V, Tsonev T, Simoniello P, De Micco V, Arena C. 2022. Light quality modulates photo synthetic behavior and antioxidant properties of *B. vulgaris* L. plants from seeds irradiated with high-energy heavy ions: implications for cultivation in Space. *Plants*, 11, 1816. <https://doi.org/10.3390/plants11141816>
 - 20) Carillo P, El-Nakhel C, De Micco V, Giordano M, Pannico A, De Pascale S, Graziani G, Ritieni A, Soteriou GA, Kyriacou MC, Roupheal Y. 2022. Morpho-Metric and Specialized Metabolites Modulation of Parsley Microgreens through Selective LED Wavebands. *Agronomy* 12, 1502. <https://doi.org/10.3390/>
 - 21) Damiano N, Arena C, Bonfante A, Caputo R, Erbaggio A, Cirillo C, De Micco V. 2022. How Leaf Vein and Stomata Traits Are Related with Photosynthetic Efficiency in Falanghina Grapevine in Different Pedoclimatic Conditions. *Plants* 11, 1507. <https://doi.org/10.3390/plants11111507>
 - 22) Cirillo C, Pannico A, Balzano A, Zallon E, Caputo R, Arena C, De Pascale S, De Micco V. 2022. Effects of a simulated heat wave on growth and photosynthesis of *Quercus ilex* L. And *Arbutus unedo* L. seedlings. *Acta Horticulturae*, 1335: 725 - 731
 - 23) Damiano N, Altieri S, Battipaglia G, De Micco V. 2022. Comparing Methods for the Analysis of δ ^{13}C in Falanghina Grape Must from Different Pedoclimatic Conditions. *Horticulturae* 8, 226. <https://doi.org/10.3390/horticulturae8030226>
 - 24) De Micco V, Arena C, Amitrano C, Roupheal Y, De Pascale S, Cirillo C. 2022. Changes in Morpho-Anatomical and Eco-Physiological Responses of *Viburnum tinus* L. var *lucidum* as Modulated by Sodium Chloride and Calcium Chloride Salinization. *Horticulturae* 8, 119. <https://doi.org/10.3390>
 - 25) De Micco V, Arena C, Amitrano C, Roupheal Y, De Pascale S, Cirillo C. 2021. Effects of NaCl and CaCl₂ Salinization on Morpho-Anatomical and Physiological Traits of Potted *Callistemon citrinus* Plants. *Forests*. 12(12):1666. <https://doi.org/10.3390/f12121666>
 - 26) von Arx G, Carrer M, Crivellaro A, De Micco V, Fonti P, Lens F, Prendin A, Rosner S, Sass-Klaassen U. 2021. Q-NET – a new scholarly network on quantitative wood anatomy. *Dendrochronologia* 70: 125890
 - 27) De Micco V, De Francesco S, Amitrano C, Arena C, 2021. Comparative analysis of the effect of carbon-and titanium-ions irradiation on morpho-anatomical and biochemical traits of *Dolichos melanophthalmus* dc. seedlings aimed to space exploration. *Plants* 10(11),2272
 - 28) Vitale E, Vitale L, Costanzo G, Velikova V, Tsonev T, Simoniello P, De Micco V, Arena C. 2021. Light spectral composition influences structural and eco-physiological traits of *solanum lycopersicum* L. Cv. ‘microtom’ in response to high-let ionizing radiation. *Plants* 10(8),1752
 - 29) Amitrano, C., Roupheal, Y., Pannico, A., De Pascale, S., De Micco, V. 2021. Reducing the Evaporative Demand Improves Photosynthesis and Water Use Efficiency of Indoor Cultivated Lettuce. *Agronomy* 2021, 11, 1396. <https://doi.org/10.3390/agronomy11071396>
 - 30) Corrado G., De Micco V., Lucini L., Begoña M., Senizza B., Zengin G., El Nakhel C., De Pascale S., Roupheal Y. 2021. Isosmotic Macrocation Variation Modulates Mineral Efficiency, Morpho-physiological Traits, and Functional Properties in Hydroponically Grown Lettuce Varieties (*Lactuca sativa* L.). *Frontiers in Plant Science*, 12:678799. doi: 10.3389/fpls.2021.678799
 - 31) De Micco V., Amitrano C., Vitaglione P., Ferracane R., Pugliese M., Arena C. 2021. Effect of light quality and ionising radiation on morphological and nutraceutical traits of sprouts for astronauts’ diet. *Acta Astronautica*. 185: 188-197. <https://doi.org/10.1016/j.actaastro.2021.05.007>

- 32) Amitrano C., Roupheal Y., De Pascale S., De Micco V. 2021. Modulating Vapor Pressure Deficit in the Plant Micro-Environment May Enhance the Bioactive Value of Lettuce. *Horticulturae* 7: 32. <https://doi.org/10.3390/horticulturae7020032>
- 33) De Pascale S., Arena C., Aronne G., De Micco V., Pannico A., Paradiso R., Roupheal Y. 2021. Biology and crop production in Space environments: Challenges and opportunities. *Life Sciences in Space Research*. 29: 30-37. <https://doi.org/10.1016/j.lssr.2021.02.005>
- 34) Amitrano C., Arena C., Cirillo V., De Pascale S., De Micco V. 2021. Leaf morpho-anatomical traits in *Vigna radiata* L. affect plant photosynthetic acclimation to changing vapor pressure deficit. *Environmental and Experimental Botany*, 186, 104453. <https://doi.org/10.1016/j.envexpbot.2021.104453>
- 35) Cirillo C., Arena C., Roupheal Y., Caputo R., Amitrano C., Petracca F., De Francesco S., Vitale E., Erbaggio A., Bonfante A., De Micco V. 2021. Counteracting the Negative Effects of Copper Limitations Through the Biostimulatory Action of a Tropical Plant Extract in Grapevine Under Pedo-Climatic Constraints. *Front. Environ. Sci.* 9:587550. doi: 10.3389/fenvs.2021.587550
- 36) Balzano A., Cufar K., De Micco V. 2021. Xylem and Phloem Formation Dynamics in *Quercus ilex* L. at a Dry Site in Southern Italy. *Forests*, 12, 188. <https://doi.org/10.3390/f12020188>
- 37) Amitrano C., Arena C., De Pascale S., De Micco V. 2020. Light and Low Relative Humidity Increase Antioxidants Content in Mung Bean (*Vigna radiata* L.) Sprouts. *Plants*, 9(9), 1093; <https://doi.org/10.3390/plants9091093>
- 38) Battipaglia G., De Micco V., Gartner H. 2020. Most recent trends in tree-ring sciences: From local to global, from molecule to forest stands, from days to millennia. - Editorial to the special issue "TRACE 2019". *Dendrochronologia*, 63, 125758; <https://doi.org/10.1016/j.dendro.2020.125758>
- 39) Corrado G., Formisano L., De Micco V., Pannico A., Giordano M., El-Nakhel C., Chiaiese P., Sacchi R., Roupheal Y. 2020. Understanding the Morpho-Anatomical, Physiological, and Functional Response of Sweet Basil to Isosmotic Nitrate to Chloride Ratios. *Biology*, 9, 158; doi:10.3390/biology9070158
- 40) Amitrano C., Chirico GB., De Pascale S., Roupheal Y., De Micco V. 2020. Crop management in controlled environment agriculture (CEA) systems using predictive mathematical models. *Sensors*, 20(11) 3110; <https://doi.org/10.3390/s20113110>
- 41) Battipaglia G., Rigling A., De Micco V. 2020. Editorial: Multiscale approach to assess forest vulnerability. *Frontiers in Plant Science* 11:744. doi: 10.3389/fpls.2020.00744
- 42) Aronne G., Izzo LG., Romano LE., De Francesco S., De Micco V., De Pascale S., Carrubba E., Galoforo G., Piccirillo S., Valentini G., Mascetti G. Solutions to Overcome Technical Constraints and Achieve Scientific Goals of the Multi-trop Experiment. *Aerotecnica Missili & Spazio* <https://doi.org/10.1007/s42496-020-00040-8>
- 43) Balzano A., Battipaglia G., Cherubini P., De Micco V. 2020. Xylem plasticity in *Pinus pinaster* and *Quercus ilex* growing at sites with different water availability in the Mediterranean region: relations between Intra-Annual Density Fluctuations and environmental conditions. *Forests* 11, 379; doi:10.3390/f11040379
- 44) Brook A., De Micco V., Battipaglia G., Erbaggio A., Ludeno G., Catapano I., Bonfante A. 2020. A smart multiple spatial and temporal resolution system to support precision agriculture from satellite images: Proof of concept on Aglianico vineyard. *Remote Sensing of Environment*, 240: 111679, doi.org/10.1016/j.rse.2020.111679
- 45) Balzano A., De Micco V., Čufar K., De Luis M., Gričar J. 2020. Intra-seasonal trends in phloem traits in *Pinus* spp. from drought-prone environments. *IAWA Journal*, 41(2), 219-235. doi: <https://doi.org/10.1163/22941932-00002112>

- 46) De Micco V., Amitrano C., Stinca A., Izzo LG., Zalloni E., Balzano A., Barile R., Conti P., Arena C. 2020. Dust accumulation due to anthropogenic impact induces anatomical and photochemical changes in leaves of *Centranthus ruber* growing on the slope of the Vesuvius volcano. *Plant Biology*, 22: 93-102. DOI: 10.1111/plb.12966
- 47) Amitrano C., Arena C., Rouphael Y., De Pascale S., De Micco V. 2019. Vapour pressure deficit: The hidden driver behind plant morphofunctional traits in controlled environments. *Annals of Applied Biology*. 175: 313-325. DOI: 10.1111/aab.12544
- 48) Amitrano C., Chirico G.B., De Pascale S., Rouphael Y., De Micco V. 2019. Application of a MEC model for the irrigation control in green and red-leaved lettuce in precision indoor cultivation. 2019 IEEE International Workshop on Metrology for Agriculture and Forestry, MetroAgriFor 2019 - Proceedings. 978-1-7281-3611-0/19, pp 196-201
- 49) Damiano N., Bonfante A., Cirillo C., Amitrano C., Erbaggio A., Brook, A., De Micco V. 2019. Retrospective Reconstruction of the Ecophysiological Grapevine Behaviour Through the Analysis of Tree-Ring Series to Validate an Approach to Extract Data from Space-Born and UAV Techniques. 2019 IEEE International Workshop on Metrology for Agriculture and Forestry, MetroAgriFor 2019 – Proceedings. 978-1-7281-3611-0/19, pp 191-195
- 50) Giannino F., Hay Mele B., De Micco V., Toraldo G., Mazzoleni S., Carteni F. 2019. An Individual Based Model of Wound Closure in Plant Stems. *IEEE Access* vol. 7, 8709683: 65821-65827. 10.1109/ACCESS.2019.2915575
- 51) Cirillo C., De Micco V., Arena C., Carillo P., Pannico A., De Pascale S., Rouphael Y. 2019. Biochemical, Physiological and Anatomical Mechanisms of Adaptation of *Callistemon citrinus* and *Viburnum lucidum* to NaCl and CaCl₂ Salinization. *Frontiers in Plant Science* 10:742. doi: 10.3389/fpls.2019.00742
- 52) De Micco V., Carrer M., Rathgeber CBK., Camarero JJ., Voltas J., Cherubini P., Battipaglia G. 2019. From xylogenesis to tree rings: wood traits to investigate tree response to environmental changes. *IAWA Journal* 40: 155-182
- 53) De Micco V., Battipaglia G., Camarero JJ., Cirillo C., Baas P. 2019. From Wood Formation to Tree Rings in Biology, Ecology and Forestry. *IAWA Journal* 40: 151-154
- 54) Zalloni E., Battipaglia G., Cherubini P., Saurer M., De Micco V. 2019. Wood growth in pure and mixed *Quercus ilex* L. forests: drought influence depends on site conditions. *Frontiers in Plant Science* 10:397. doi: 10.3389/fpls.2019.00397
- 55) Chelli S., Marignani M., Barni E., Petraglia A., Puglielli G., Wellstein C., Acosta ATR., Bolpagni R., Bragazza L., Campetella G., Chiarucci A., Conti L., Nascimbene J., Orsenigo S., Pierce S., Ricotta C., Tardella FM., Abeli T., Aronne G., Bacaro G., Bagella S., Benespero R., Bernareggi G., Bonanomi G., Bricca A., Brusa G., Buffa G., Burrascano S., Caccianiga M., Calabrese V., Canullo R., Carbognani M., Carboni M., Carranza ML., Catorci A., Ciccarelli D., Citterio S., Cutini M., Dalle Fratte M., De Micco V., Del Vecchio S., Di Martino L., Di Musciano M., Fantinato E., Filigheddu R., Frattaroli AR., Gentili R., Gerdol R., Giarrizzo E., Giordani P., Gratani L., Incerti G., Lussu M., Mazzoleni S., Mondoni A., Montagnani C., Montagnoli A., Paura B., Petruzzellis F., Pisanu S., Rossi G., Sgarbi E., Simonetti E., Siniscalco C., Slaviero A., Stanisci A., Stinca A., Tomaselli M., BEL. Cerabolini. 2019. Plant–environment interactions through a functional traits perspective: a review of Italian studies. *Plant Biosystems*, 153: 853-869. DOI: 10.1080/11263504.2018.1559250
- 56) Izzo LG., Arena C., De Micco V., Capozzi F., Aronne A. 2019. Light quality shapes morphofunctional traits and pigment content of green and red leaf cultivars of *Atriplex hortensis*. *Scientia Horticulturae* 246: 942-950
- 57) Arena C., Vitale E., Hay Mele B., Cataletto PR., Turano M., Simoniello P., De Micco V. 2019. Suitability of *Solanum lycopersicum* L. ‘Microtom’ for growth in Bioregenerative Life Support

Systems: exploring the effect of high-LET ionising radiation on photosynthesis, leaf structure and fruit traits. *Plant Biology*, 21: 615-626. DOI: 10.1111/plb.12952

- 58) Balzano A., Battipaglia G., De Micco V. 2019. Wood-traits analysis to understand climatic factors triggering intra-annual density fluctuations in co-occurring Mediterranean trees. *IAWA Journal* 40: 241-258
- 59) Carillo P., Cirillo C., De Micco V., Arena C., De Pascale S., Roupael Y. 2019. Morpho-anatomical, physiological and biochemical adaptive responses to saline water of *Bougainvillea spectabilis* Willd. trained to different canopy shapes. *Agricultural Water Management*, 212: 12–22. doi.org/10.1016/j.agwat.2018.08.037
- 60) Carteni F, Deslauriers A, Rossi S, Morin H, De Micco V, Mazzoleni S, Giannino F. 2018. The physiological mechanisms behind the earlywood-to-latewood transition: A process-based modeling approach. *Frontiers in Plant Science*, 9: 1053. DOI: 10.3389/fpls.2018.01053
- 61) Zalloni E, Battipaglia G, Cherubini P, Saurer M, De Micco V. 2018. Contrasting physiological responses to Mediterranean climate variability are revealed by intra-annual density fluctuations in tree rings of *Quercus ilex* L. and *Pinus pinea* L. *Tree Physiology*, 38: 1213-1224 doi:10.1093/treephys/tpy061
- 62) Zalloni E, Battipaglia G, Cherubini P, De Micco V. 2018. Site conditions influence the climate signal of intra-annual density fluctuations in tree rings of *Q. ilex* L. *Annals of Forest Science*, 65: 68-79. DOI: 10.1007/s13595-018-0748-0
- 63) Balzano A., Čufar K., Battipaglia G., Merela M., Prislán P., Aronne G., De Micco V. 2018. Xylogenesis reveals the genesis and ecological signal of IADFs in *Pinus pinea* L. and *Arbutus unedo* L. *Annals of Botany*, 121: 1231-1242. DOI: 10.1093/aob/mcy008
- 64) De Micco V., Zalloni E., Battipaglia G., Erbaggio A., Scognamiglio P., Caputo R., Cirillo C. 2018. Rootstock effect on tree-ring traits in grapevine under a climate change scenario. *IAWA Journal*, 39: 145-155
- 65) Amitrano C., Vitale E., De Micco V., Arena C. 2018. Light fertilization affects growth and photosynthesis in mung bean (*Vigna radiata*) plants. *Journal of Environmental Accounting and Management*. 6: 295-304. DOI: 10.5890/JEAM.2018.10.002
- 66) Aronne G., Arena C., De Micco V., Giovanetti M., Buonanno M. 2018. Full light and soil drought constrain plant growth in Mediterranean cliffs: the case of *Primula palinuri* Petagna. *Plant Biosystems*, 152: 863–872. DOI: 10.1080/11263504.2017.1359211
- 67) Paradiso R., Arena C., De Micco V., Giordano M., Aronne G., De Pascale S. 2017. Changes in Leaf Anatomical Traits Enhanced Photosynthetic Activity of Soybean Grown in Hydroponics with Plant Growth-Promoting Microorganisms. *Frontiers in Plant Science*, 8:674. doi: 10.3389/fpls.2017.00674
- 68) Arena C., Turano M., Hay Mele B., Cataletto PR., Furia M., Pugliese MG., De Micco V. 2017. Anatomy, photochemical activity and DNA polymorphism in leaves of dwarf tomato irradiated with X-rays. *Biologia Plantarum*, 61: 305-314
- 69) Cirillo C., De Micco V., Roupael Y., Balzano A., Caputo R., De Pascale S. 2017 Morpho-anatomical and physiological traits of two *Bougainvillea* genotypes trained to two shapes under deficit irrigation. *Trees*, 31: 173–187
- 70) Roupael Y., De Micco V., Arena C., Raimondi G., Colla G., De Pascale S. 2017. Effect of *Ecklonia maxima* seaweed extract on yield, mineral composition, gas exchange, and leaf anatomy of zucchini squash grown under saline conditions. *Journal of Applied Phycology*, 29: 459–470
- 71) Colangelo M., Camarero JJ., Battipaglia G., Borghetti M., De Micco V., Gentilesca T., Ripullone F. 2017. A multi-proxy assessment of dieback causes in a Mediterranean oak species. *Tree Physiology*, 37:617-631

- 72) Arena C., Tsonev T., Doneva D., De Micco V., Michelozzi M., Brunetti C., Centritto M., Fineschi S., Velikova V., Loreto F. 2016 The effect of light quality on growth, photosynthesis, leaf anatomy and volatile isoprenoids of a monoterpene-emitting herbaceous species (*Solanum lycopersicum* L.) and an isoprene-emitting tree 4 (*Platanus orientalis* L.). *Environmental and Experimental Botany*, 130: 122-132
- 73) De Micco V., Balzano A., Wheeler EA., Baas P. 2016. Tyloses and gums: a review of structure, function and occurrence of vessel occlusions. *IAWA Journal*, 37: 186-205
- 74) De Micco V., Campelo F., de Luis M., Bräuning A., Grabner M., Battipaglia G., Cherubini P. 2016. Intra-annual density fluctuations in tree rings: how, when, where, and why? *IAWA Journal*, 37: 232-259
- 75) Baas P., Beeckman H., Čufar K., De Micco V. 2016. Functional Traits in Wood Anatomy. *IAWA Journal*, 37: 124-126
- 76) Zalloni E., de Luis M., Campelo F., Novak K., De Micco V., Di Filippo A., Vieira J., Nabais C., Rozas V., Battipaglia G. 2016. Climatic signals from Intra-Annual Density Fluctuation frequency in Mediterranean pines at a regional scale. *Frontiers in Plant Science*, 7:579. DOI: 10.3389/fpls.2016.00579
- 77) Battipaglia G., Campelo F., Vieira J., Grabner M., De Micco V., Nabais C., Cherubini P., Carrer M., Bräuning A., Čufar K., Di Filippo A., García-González I., Koprowski M., Klisz M., Kirdeyanov AV., Zafirov N., de Luis M. 2016. Structure and function of Intra-Annual Density Fluctuations: Mind the Gaps. *Frontiers in Plant Science*, 7:595. DOI: 10.3389/fpls.2016.00595
- 78) De Micco V., Balzano A., Čufar K., Aronne G., Gricar J., Merela M., Battipaglia G. 2016. Timing of false ring formation in *Pinus halepensis* and *Arbutus unedo* in southern Italy: outlook from an analysis of xylogenesis and tree-ring chronologies. *Frontiers in Plant Science*, 7:705. doi: 10.3389/fpls.2016.00705
- 79) De Micco V., Battipaglia G., Balzano A., Cherubini P., Aronne G. 2016. Are wood fibres as sensitive to environmental conditions as vessels in tree rings with intra-annual density fluctuations (IADFs) in Mediterranean species? *Trees-Structure and Function*, 30:971–983
- 80) Aronne G., Buonanno M., De Micco V. 2015. Reproducing under a warming climate: long winter flowering and extended flower longevity in the only Mediterranean and maritime *Primula*. *Plant Biology*, 17: 535-544
- 81) Aversano R., Scarano MT., Aronne G., Caruso I., D'Amelia V., De Micco V., Fasano C., Termolino P., Carputo D. 2015. Genotype-specific changes associated to early synthesis of autotetraploids in wild potato species. *Euphytica*, 202: 307-316
- 82) De Micco V., Arena C., Aronne G. 2014. Anatomical alterations of *Phaseolus vulgaris* L. mature leaves irradiated with X-rays. *Plant Biology*, 16: 187-193
- 83) Battipaglia G., De Micco V., Brand WA, Saurer M., Aronne G., Linke P., Cherubini P. 2014. Drought impact on water use efficiency and intra-annual density fluctuations in *Erica arborea* on Elba (Italy). *Plant Cell and Environment*, 37: 382-391
- 84) De Micco V., Battipaglia G., Cherubini P., Aronne G. 2014. Comparing methods to analyse anatomical features of tree rings with and without Intra-Annual-Density-Fluctuations (IADFs). *Dendrochronologia*, 32: 1-6
- 85) De Micco V., De Pascale S., Paradiso R., Aronne G. 2014. Microgravity effects on different stages of higher plant life cycle and completion of the *seed-to-seed* cycle. *Plant Biology*, 16: 31-38
- 86) De Micco V., Paradiso R., Aronne G., De Pascale S., Quarto M., Arena C. 2014. Leaf Anatomy and Photochemical Behaviour of *Solanum lycopersicum* L. Plants from Seeds Irradiated with

- Low-LET Ionising Radiation. *The Scientific World Journal*, Volume 2014, Article ID 428141, 13 pages; <http://dx.doi.org/10.1155/2014/428141>
- 87) Arena C., De Micco V., De Maio A. 2014. Growth alteration and leaf biochemical responses in *P. vulgaris* plants exposed to different doses of ionizing radiation. *Plant Biology*, 16: 194-202
 - 88) Arena C., De Micco V., Macaeva E., Quintens R. 2014. Space radiation effects on plant and mammalian cells. *Acta Astronautica*, 104: 419-431
 - 89) Aronne G., Buonanno M., De Micco V. 2014. Assessment of distyly syndrome in *Primula palinuri* Petagn. a rare species living on maritime vertical cliffs. *Plant Systematics and Evolution*, 300: 917–924
 - 90) Aronne G. Giovanetti M., Sacchi R., De Micco V. 2014. From flower to honey bouquet: possible markers for the botanical origin of *Robinia* honey. *The Scientific World Journal*, Volume 2014, Article ID 547275, 7 pages, DOI:10.1155/2014/547275
 - 91) Battipaglia G., De Micco V., Sass-Klaassen U., Tognetti R., Mäkelä A. 2014. Special issue: WSE symposium: Wood growth under environmental changes: the need for a multidisciplinary approach. *Tree Physiology* 34: 787–791
 - 92) Battipaglia G., De Micco V., Sass-Klaassen U., Cherubini P. 2014. Wood Structure in Plant Biology and Ecology. *Dendrochronologia* 32: 282-283
 - 93) Battipaglia G., De Micco V., Fournier T., Aronne G., Carcaillet C. 2014. Isotopic and anatomical signals for interpreting fire-related responses in *Pinus halepensis*. *Trees - Structure and Function*, 28(4): 1095-1104
 - 94) Paradiso R., De Micco V., Buonomo R., Aronne G., Barbieri G., De Pascale S. 2014. Soilless cultivation of soybean for Bioregenerative Life Support Systems (BLSSs): a literature review and the experience of the MELiSSA Project - Food characterization Phase I. *Plant Biology*, 16: 69-78
 - 95) Arena C., De Micco V., Aronne G., Pugliese MG., Virzo A., De Maio A. 2013. Response of *Phaseolus vulgaris* L. plants to low-LET ionizing radiation: growth and oxidative stress. *Acta Astronautica*, 91: 107-114
 - 96) Arena C., De Micco V., De Maio A., Mistretta C., Aronne G., Vitale L. 2013. Winter and summer leaves of *Cistus incanus*: differences in leaf morpho-functional traits, photosynthetic energy partitioning and poly-ADP-ribose polymerase (PARP) activity. *Botany*, 91: 805-813
 - 97) Aversano R., Caruso I., Aronne G., De Micco V., Scognamiglio N., Carputo D. 2013. Stochastic changes affect *Solanum* wild species following autopolyploidization. *Journal of Experimental Botany*, 64: 625-635
 - 98) Baas P., Battipaglia G., De Micco V., Lens F., Wheeler E. 2013. Wood Structure in Plant Biology and Ecology. *IAWA Journal*, 34: 331-332
 - 99) De Micco V., Zalloni E., Balzano A., Battipaglia G. 2013. Fire influence on *Pinus halepensis*: wood responses close and far from the scars. *IAWA Journal*, 34: 446-458
 - 100) De Micco V., Aronne G. 2012. Anatomy and lignin characterization of twigs in the chaparral shrub *Rhamnus californica*. *IAWA Journal* 33(2): 151-162
 - 101) De Micco V., Battipaglia G., Brand WA., Linke P., Saurer M., Aronne G., Cherubini P. 2012. Discrete versus continuous analysis of anatomical and $\delta^{13}\text{C}$ variability in tree rings with intra-annual density fluctuations. *Trees - Structure and Function* 26: 513–524.
 - 102) Aronne G., Giovanetti M., Guarracino MR., De Micco V. 2012. Foraging rules of flower selection applied by colonies of *Apis mellifera*: ranking and associations of floral sources. *Functional Ecology* 26: 1186-1196
 - 103) De Micco V., Aronne G. 2012. Occurrence of morpho-anatomical adaptive traits in young and adult plants of the rare mediterranean cliff species *Primula palinuri* Petagna. *The Scientific World Journal*, pp. 1-10. DOI 10.1100/2012/471814

- 104) Aronne G., Giovanetti M., De Micco V. 2012. Morpho-functional traits and pollination mechanisms of *Coronilla emerus* L. flowers (fabaceae). *The Scientific World Journal*, pp. 1-8. DOI 10.1100/2012/381575
- 105) De Micco V., Buonomo R., Paradiso R., De Pascale S., Aronne G. 2012. Soybean cultivar selection for Bioregenerative Life Support Systems (BLSSs) - Theoretical selection. *Advances in Space Research* 49: 1415-1421
- 106) De Micco V., Ruel K., Joseleau J-P., Grima-Pettenati J., Aronne G. 2012. Xylem anatomy and cell wall ultrastructure of *Nicotiana tabacum* L. after lignin genetic modification through transcriptional activator EGM2. *IAWA Journal* 33(3): 269-286
- 107) Paradiso R., Buonomo R., De Micco V., Aronne G., Palermo M., Barbieri G., De Pascale S. 2012. Soybean cultivar selection for Bioregenerative Life Support Systems (BLSS) - Hydroponic Cultivation. *Advances in Space Research* 50: 1501-1511
- 108) De Micco V., Arena C., Pignalosa D., Durante M. 2011. Effects of sparsely and densely ionizing radiation on plants. *Radiation and Environmental Biophysics* 50: 1-19
- 109) De Micco V., Arena C., Vitale L., Aronne G., Virzo De Santo A. 2011. Anatomy and photochemical behaviour of Mediterranean *Cistus incanus* winter leaves under natural outdoor and warmer indoor conditions. *Botany* 89:677-688
- 110) De Micco V., Ruel K., Joseleau J-P., Aronne G. 2010. Building and degradation of secondary cell walls: are there common patterns of lamellar assembly of cellulose microfibrils and cell wall delamination? *Planta* 232(3): 621-627
- 111) Battipaglia G., De Micco V., Brand WA., Linke P., Aronne G., Saurer M., Cherubini P. 2010. Variations of vessel diameter and $\delta^{13}\text{C}$ in false rings of *Arbutus unedo* L. reflect different environmental conditions. *New Phytologist* 188(4): 1099-1112
- 112) De Micco V., Aronne G. 2010. Root structure of *Rumex scutatus* L. growing on slopes. *IAWA Journal* 31(1): 13-28
- 113) Aronne G., De Micco V. 2010. Traditional melissopalynology integrated by multivariate analysis and sampling methods to improve botanical and geographical characterization of honeys. *Plant Biosystems* 144: 833-840
- 114) De Micco V., Aronne G. 2009. Seasonal dimorphism in wood anatomy of the Mediterranean *Cistus incanus* L. subsp. *incanus*. *Trees - Structure and Function* 23(5): 981-989
- 115) De Micco V., Aronne G., Colla G., Fortezza R., De Pascale S. 2009. Agro-biology for Bioregenerative Life Support Systems in Long-Term Space Missions: general constraints and the Italian efforts. *Journal of Plant Interactions* 4(4): 241-252
- 116) De Micco V., Aronne G. 2008. Biometric anatomy of seedlings developed onboard of Foton-M2 in an automatic system supporting growth. *Acta Astronautica* 62: 505-513
- 117) De Micco V., Aronne G. 2008. Twig morphology and anatomy of Mediterranean trees and shrubs related to water availability. *Botanica Helvetica* 118: 139-148
- 118) De Micco V., Aronne G., Joseleau J-P., Ruel K. 2008. Xylem development and cell wall changes in soy seedlings grown in a microgravity environment. *Annals of Botany* 101: 661-669
- 119) De Micco V., Aronne G., Baas P. 2008. Wood anatomy and hydraulic architecture of stems and twigs of some Mediterranean trees and shrubs along a mesic-xeric gradient. *Trees - Structure and Function* 22: 643-655
- 120) De Micco V. & Aronne G. 2007. Anatomical features, monomer lignin composition and accumulation of phenolics in one-year-old branches of the Mediterranean *Cistus ladanifer* L. *Botanical Journal of the Linnean Society* 155: 361-371

- 121) De Micco V. & Aronne G. 2007. Combination of histochemistry and auto-fluorescence for the identification of lignin distribution in cell walls. *Biotechnic & Histochemistry* 82(4-5): 209-216
- 122) De Micco V., Saurer M., Aronne G., Tognetti R., Cherubini P. 2007. Variations of wood anatomy and $\delta^{13}C$ within tree rings of coastal *Pinus pinaster* Ait. showing intra-annual density fluctuations. *IAWA Journal* 28(1): 61-74
- 123) Chiatante D., Scippa G.S., Di Iorio A., De Micco V., Sarnataro M. 2007. Lateral root emission in woody taproots of *Fraxinus ornus* L. *Plant Biosystems* 141 (2): 204-213
- 124) De Micco V., Toraldo G., Aronne G. 2006. Method to classify xylem elements using cross sections of one-year-old branches in Mediterranean woody species. *Trees – Structure and Function* 20: 474-482
- 125) De Micco V., Scala M., Aronne G. 2006. Evaluation of the effect of clinostat rotation on pollen germination and tube development as a tool for selection of plants in space. *Acta Astronautica* 58: 464-470
- 126) De Micco V., Aronne G., De Pascale S. 2006. Effect of simulated microgravity on seedling development and vascular differentiation of soy. *Acta Astronautica* 58: 139-148
- 127) De Micco V., Scala M., Aronne G. 2006. Effects of simulated microgravity on male gametophyte of *Prunus*, *Pyrus* and *Brassica* species. *Protoplasma* 228: 121-126
- 128) Aronne G., De Micco V., Scala M. 2006. Effects of relative humidity and temperature conditions on pollen fluorochromatic reaction (FCR) of *Rosmarinus officinalis* L. (Lamiaceae) *Protoplasma* 228: 121-126
- 129) Aronne G., De Micco V. 2004. Hypocotyl features of *Myrtus communis* L. (Myrtaceae): a manysided strategy for possible enhancement of seedling establishment in the Mediterranean environment, *Botanical Journal of the Linnean Society* 145: 195-202
- 130) Aronne G., De Micco V., Ariardo P., De Pascale S. 2003. The effect of uni-axial clinostat rotation on germination and root anatomy of *Phaseolus vulgaris* L. *Plant Biosystems* 137 (2): 155-162
- 131) Aronne G., De Micco V. 2001. Seasonal dimorphism in the Mediterranean *Cistus incanus* L. subsp. *incanus*. *Annals of Botany* 87 (6): 789-794

Articles in International Journals with peer-review

- 132) De Micco V., Battipaglia G. 2013. Editorial. Wood Structure in Plant Biology and Ecology. *The Open Forest Science Journal*, 6: 36-37
- 133) De Micco V., Arena C., De Pascale S., Aronne G. 2012. Plant growth in microgravity for BLSS: general issues and the Italian contribution. *Annales Kinesiologiae*, 3: 75-86
- 134) Arena C., De Micco V., Virzo De Santo A. 2012. Bioregenerative Life Support Systems in the space (BLSS): effects of radiation on plants. *Annales Kinesiologiae*, 3: 87-98
- 135) Aronne G., De Micco V., Guarracino M. 2010. Application of Support Vector Machines to Melissopalynological Data for Honey Classification. *International Journal of Agricultural and Environmental Information Systems (IJAEIS)* 1(2): 85-94
- 136) De Micco V., Aronne G., Scala M., Castagnolo D., Fortezza R. 2006. Growth-support system for seedling development onboard of unmanned spacecrafts. *Space Technology (ST)* 25(3-4): 1-8
- 137) De Micco V., Aronne G., Scala M., Eduardo P., Haladich M., Castagnolo D., Fortezza. R. 2005. SAYSOY – Space Apparatus to Yield SOYsprouts: Growing Sprouts in a Growth Support System for Experiments on Unmanned Platforms in Space. *Journal of Gravitational Physiology* 12(1): P217-P218

- 138) Aronne G., De Micco V., Scala M. 2004. Plant reproductive ecology for conservation of mediterranean species. *The Botanica* 54: 23-29
- 139) Aronne G., De Micco V., De Pascale S. 2002. The effect of simulated microgravity on seed germination and seedling anatomy of *Phaseolus vulgaris* L. *Journal of Gravitational Physiology* 9 (1): P233-P234
- 140) Aronne G., De Micco V., De Pascale S., Ariaudo P. 2001. The effect of simulated microgravity on seed germination and seedling anatomy. *Microgravity and Space Station Utilization* 2 (2-3-4): 207-209

Articles in National Journals

- 141) Cirillo C., De Micco V., Caputo R., De Pascale S. 2018. Adaptive mechanisms to saline stress in ornamental shrubs - Meccanismi di adattamento a stress salino in arbusti ornamentali. *Italus Hortus* 25 (2): 37-49. doi: 10.26353/j.itahort/2018.1.3749
- 142) Amitrano C., De Micco V., Vitale E., Pugliese M., Arena C. 2017. Combined effect of different X-ray doses and light quality on soybean seedlings. *Radiazioni - Ricerca e Applicazioni*. Vol. XX n. 1-2, April-August pp. 16-18. ISSN: 2281-0781
- 143) Vitale E., De Micco V., Hay Mele B., Amitrano C., De Maio A., Carfagna S., Arena C. 2017. Radioresistance of dwarf bean plants irradiated with C and Ti heavy ions. *Radiazioni - Ricerca e Applicazioni*. Vol. XX n. 1-2, April-August, pp. 31-34. ISSN: 2281-0781
- 144) Aronne G., De Micco V., Giovanetti M. 2011. L'approccio interdisciplinare nello studio dell'impollinazione delle Angiosperme. *Informatore Botanico Italiano* 43: 97-111
- 145) Colla G., Cardarelli M., De Micco V., Aronne G., Fortezza R., De Pascale S. 2011. Agrobiologia e nuove tecnologie per i Sistemi Biorigenerativi nell'esplorazione spaziale: problematiche, prospettive e contributo della ricerca italiana. *Italus Hortus* 18: 13-24
- 146) Battipaglia G., Linke P., De Micco V., Brand W.A., Aronne G., Cherubini P. 2009. Assessing climate sensitivity of Mediterranean plants by combining dendro-ecology, isotope composition and QWA. *Terra Nostra (Schriften der GeoUnion Alfred-Wegener-Stiftung)* 3:25-27
- 147) De Micco V. 2008. Il progetto "SAYSOY": produzione di insalate per astronauti nello Spazio. *Rassegna Economica* LXXI N. 2: 141-162. ISSN 0390-010X
- 148) De Micco V., Aronne G., Scala M. 2005. Metodi tradizionali di anatomia e citologia rivisitati attraverso i moderni sistemi di analisi d'immagine digitale: applicazioni in campo ecologico, agronomico e spaziale. *Informatore Botanico Italiano*. 37(1, part B): 774-775
- 149) De Micco V., Scala M., Aronne G. 2005. L'esperimento SAYSOY – Space Apparatus to Yield SOYsprouts: dall'ideazione dell'hardware all'analisi al microscopio dei germinelli cresciuti a bordo del satellite Foton – M2. *Annali della Facoltà di Agraria della Università degli Studi di Napoli Federico II Portici*. Serie V (Vol 2): 225-249
- 150) Aronne G., De Micco V., Scala M. 2005. Studi di biologia riproduttiva delle piante finalizzati alla tutela ambientale, al miglioramento delle produzioni agro-alimentari ed alla vita nello Spazio. *Informatore Botanico Italiano*. 37(1, parte A): 178-179
- 151) Scala M., Aronne G., De Micco V. 2005. Studi morfologici e funzionali del polline presso il Centro di Analisi Palinologiche (CeAP) a Napoli. *Informatore Botanico Italiano*. 37(1, parte B): 938-939
- 152) Aronne G., De Micco V., Adamo R., Romano A., Paduano A., Sacchi R. 2004. Caratteristiche anatomiche e chimiche di olive da mensa subito dopo la raccolta e a seguito di trattamenti di deamarizzazione - Anatomy and chemistry of olives after harvesting and debittering. *Italus Hortus*. 11(1): 59-64
- 153) Romano R., De Micco V., Aronne G. 2004. Caratteristiche istologiche e citologiche dei frutti

di alcune cultivar di olivo - Fruit anatomy and cytology of olive cultivars, *La Rivista Italiana delle Sostanze Grasse*. 81(3): 73-79

- 154) De Micco V., Aronne G., Lewis N.G. 2004. Fluorescence microscopy and laser-capture microdissection as tool for the analysis of gene expression in differentiating xylem elements. *Annali della Facoltà di Agraria della Università degli Studi di Napoli Federico II Portici*. Serie V (Vol 1): 167-178

Books

- 155) Balbi A., Billi D., Rizzo A., Narici L., Arena C., Aronne G., De Micco V., De Pascale S., Paradiso R., Lobascio C., Cristoforetti S., Parmitano L., Vittori R., Zinzi A., Ferranti F., Piccirillo S., Cotronei V., Galoforo G., Samuilovich BM., Lee G. (Testi a cura di). 2018. *Explora*. Agenzia Spaziale Italiana, Roma.
- 156) Arena C., Aronne G., Billi D., Cheli M., Cristoforetti S., De Micco V., De Pascale S., Ferranti F., Guidoni U., Malerba F., Nespoli P., Paradiso R., Parmitano L., Pippia P., Piccirillo S., Rizzo AM., Vittori R. (Testi a cura di). 2015. *A Lezione sulla Stazione Spaziale Internazionale*. Agenzia Spaziale Italiana, Roma.
http://www.asi.it/it/educational/liss_a_lezione_sulla_stazione_spaziale_internazionale
- 157) De Micco V., Aronne G. 2008. *Biological Experiments in Space. The experience of SAYSOY - Space Apparatus to Yield SOYsprouts*. Aracne editrice. ISBN 978-88-548-2150-7

Special Issues in International Journals (Eds) or Books

- 158) De Micco V., Battipaglia G., Camarero JJ., Cirillo C., Baas P. (Eds.) 2019. *From Wood Formation to Tree Rings in Biology, Ecology and Forestry*. Koninklijke Brill, Leiden, The Netherlands, pp. 230. ISSN: 0928-1541
- 159) Baas P., Beeckman H., Čufar K., De Micco V. (Eds.) 2016. *Functional Traits in Wood Anatomy*. Koninklijke Brill, Leiden, The Netherlands, pp. 182. ISBN: 978-90-04-26559-2
- 160) Battipaglia G., De Micco V. 2014 (Eds.). *Special Section - Papers Presented at the Wood Structure in Plant Biology and Ecology (WSE) Symposium, Naples, 17-20 April 2013*. *Dendrochronologia*, vol 32, issue 3.
- 161) De Micco V., Battipaglia G. (Eds.) 2013. *Wood Structure in Plant Biology and Ecology*. The Open Forest Science Journal, Special Issue, #001, vol. 6., pp. 23. ISSN: 1874-3986
- 162) Baas P., Battipaglia G., De Micco V., Lens F., Wheeler E. (Eds.) 2013. *Wood Structure in Plant Biology and Ecology*. Koninklijke Brill, Leiden, The Netherlands, pp. 182. ISBN: 978-90-04-26559-2
- 163) Aronne G., Buonanno M., De Micco V. 2008 (a cura di). *Miglioramento e valorizzazione della produzione di miele: nuove metodologie per la caratterizzazione botanica e geografica / Improving honey production and marketing: new approaches to botanical and geographical characterization*. SBR. ISBN 88-901941-3-8.

Chapters in International Books with peer-review

- 164) Lourenço J, Mothersill C, Arena C, Oughton D, Vanheukelom M, Pereira R, Mendo S, De Micco V. (2023). Environmental Radiobiology. In: Baatout, S. (ed) *Radiobiology Textbook*. Springer, Cham. pp. 469-501. https://doi.org/10.1007/978-3-031-18810-7_9
- 165) Hellweg CE, Arena C, Baatout S, Baselet B, Beblo-Vranesevic K, Caplin N, Coos R, Da Pieve F, De Micco V, Foray N, Hespeels B, Heuskin A-C, Kronenberg J, Milojevic T, Miranda S, Moris V,

Penninckx S, Radstake WE, Rehnberg E, Rettberg P, Tabury K, Van Doninck K, Van Hoey O, Vogin G, Socol Y. Space Radiobiology. In: Baatout, S. (ed) Radiobiology Textbook. Springer, Cham. pp. 503-569. https://doi.org/10.1007/978-3-031-18810-7_10

- 166) Medina FJ., Arena C., Aronne G., Herranz R., De Micco V. 2015. Growing Plants under Generated Extra-Terrestrial Environments: Effects of Altered Gravity and of Radiation. In: Beysens D. and van Loon JJWA. (Eds.) Generation and Applications of Extra-Terrestrial Environments on Earth. River Publishers, Aalborg, Denmark. ISBN: 978-87-93237-53-7, pp. 239-254.
- 167) De Micco V., Aronne G. 2012. Morpho-Anatomical Traits for Plant Adaptation to Drought. In: Aroca R. (Ed.) Plant Responses to Drought Stress: From Morphological to Molecular Features. Springer-Verlag Berlin Heidelberg, Germany. ISBN 9783642326523. pp. 37-62.

Articles in International Proceedings with *peer-review*

- 168) Cirillo C., Pannico A., Balzano A., Zalloni E., Caputo R., De Pascale S., De Micco V. 2022. Effects of a simulated heat wave on growth and photosynthesis of *Quercus ilex* L. and *Arbutus unedo* L. Seedlings. *Acta Horticulturae* 1335, pp. 725–731.
- 169) Aronne G., Izzo LG., Romano LE., De Francesco S., De Micco V., De Pascale S., Carrubba E., Neri G., Galoforo G., Piccirillo S., Valentini G. 2019. Multitrop: The challenge of using refurbished hardware for an educational and scientific experiment on the ISS. Proceedings of the 69th International Astronautical Congress, Bremen, Germany 1-5 Oct., ISSN: 00741795
- 170) Aronne G., De Micco V., Stantangelo A., Santangelo N., Santo A., Buonanno M. 2014. Coastal vertical cliffs of the National Park of Cilento: reservoirs of endemic species. Latest trends in engineering mechanics, structures, engineering geology. Proceedings of the 7th International Conference on Engineering Mechanics, Structures, Engineering Geology (EMESSEG '14). Salerno, Italy, 3-5 June. ISBN: 978-960-474-376-6. pp. 77-85.
- 171) De Micco V., Paradiso R., Aronne G., Fogliano V., De Pascale S. 2012. Agronomical and nutritional characterization of soybean for BLSSs: lessons learned from the MELiSSA Project – Food characterization Phase I. Proceedings of the 63rd *International Astronautical Congress*, Naples, Italy, 1-5 Oct., CD-Rom, pp.1-7. ISSN 1995-6258
- 172) Arena C., De Micco V., Aronne G., Pugliese MG., Virzo De Santo A., De Maio A., 2012. Response of *Phaseolus vulgaris* L. plants to low-let ionizing radiation: growth and oxidative stress. Proceedings of the 63rd International Astronautical Congress, Naples, Italy, 1-5 Oct., CD-Rom, pp. 1-10. ISSN 1995-6258
- 173) d’Andria R., Lavini A., Morelli G., Tognetti R., Aronne G. De Micco V., Ambrosino ML, Paduano A., Conte F., Sacchi R. Sebastiani L. 2008. The effect of irrigation management on plant performance and oil quality of two olive cvs. grown in a typical environment of southern Italy. *Acta Horticulturae* 791: 297-305
- 174) Chevalier-Billosta V., De Micco V., Cochaux A., Joseleau J-P, Katia Ruel K. 2006. Influence of ultrastructure on pulp fibres mechanical properties. *Proceedings of the 5th Plant Biomechanics Conference*, Stockholm, Sweden, Aug. – Sept. pp. 1-6

Chapters in National Books

- 175) De Pascale S., De Micco V., Ferrante A., Maggio A., Paradiso R., Vernieri P. 2018. Fisiologia della produzione delle colture ortive. In: Pardossi A., Prosdocimi Gianquinto G., Santamaria P., Incrocci L. (Eds.) *Orticultura. Principi e pratica*. Edagricole – Edizioni Agricole di New Business Media srl, Milano, ISBN: 978-88-506-5514-4. pp. 21-45

- 176) Aronne G., De Micco V., Buonanno M. 2010. Studi finalizzati alla caratterizzazione botanica dei mieli in Penisola Sorrentina. In: Caprio E., Maiolino P., Carbone S., Aronne G., Di Prisco G., Mazzone P., Cringoli G. (Eds.) *SOS Api. Ricerca e monitoraggio in Campania. Mappe parassitologiche 12*. Rolando Editore. ISBN 978-88-89132-35-7. pp. 97-103
- 177) Aronne G., Buonanno M., De Micco V. 2010. Studio delle caratteristiche botaniche del territorio finalizzato alla produzione di miele. In: Caprio E., Maiolino P., Carbone S., Aronne G., Di Prisco G., Mazzone P., Cringoli G. (Eds.) *SOS Api. Ricerca e monitoraggio in Campania. Mappe parassitologiche 12*. Rolando Editore. ISBN 978-88-89132-35-7. pp. 85-96
- 178) Aronne G., De Micco V. 2008. Le analisi per la caratterizzazione dei mieli. / An overview of the methodologies for honey characterisation. In: Aronne G., Buonanno M., De Micco V. (Eds.) *Miglioramento e valorizzazione della produzione di miele: nuove metodologie per la caratterizzazione botanica e geografica / Improving honey production and marketing: new approaches to botanical and geographical characterization*. SBR. ISBN 88-901941-3-8. pp. 14-23
- 179) Aronne G., De Micco V. 2008. Uso dell'analisi statistica multivariata per la caratterizzazione del miele. / The use of multivariate analysis for honey characterisation. In: Aronne G., Buonanno M., De Micco V. (Eds.) *Miglioramento e valorizzazione della produzione di miele: nuove metodologie per la caratterizzazione botanica e geografica / Improving honey production and marketing: new approaches to botanical and geographical characterization*. SBR. ISBN 88-901941-3-8. pp. 24-31
- 180) Aronne G., Buonanno M., De Micco V. 2008. Identificazione e caratterizzazione dei mieli producibili in un'area geografica. / Identification and characterisation of produceable honeys in a geographical area. In: Aronne G., Buonanno M., De Micco V. (Eds.) *Miglioramento e valorizzazione della produzione di miele: nuove metodologie per la caratterizzazione botanica e geografica / Improving honey production and marketing: new approaches to botanical and geographical characterization*. SBR. ISBN 88-901941-3-8. pp. 32-46
- 181) Aronne G., De Micco V., Buonanno M. 2008. Analisi della variabilità dei mieli in annate diverse. / Analysis of honey variability in different years. In: Aronne G., Buonanno M., De Micco V. (Eds.) *Miglioramento e valorizzazione della produzione di miele: nuove metodologie per la caratterizzazione botanica e geografica / Improving honey production and marketing: new approaches to botanical and geographical characterization*. SBR. ISBN 88-901941-3-8. pp. 47-52
- 182) Aronne G., De Micco V., Guarracino M. 2008. Determinazione dell'origine geografica dei mieli e selezione di specie markers. / Determination of the geographical origin and selection of marker species. In: Aronne G., Buonanno M., De Micco V. (Eds.) *Miglioramento e valorizzazione della produzione di miele: nuove metodologie per la caratterizzazione botanica e geografica / Improving honey production and marketing: new approaches to botanical and geographical characterization*. SBR. ISBN 88-901941-3-8. pp. 53-60
- 183) Aronne G., Scala M., De Micco V. 2005. L'evoluzione del fiore e l'adattamento all'impollinazione entomofila. In Aronne G. (Ed.) *L'ape, il territorio e la biologia fiorale: Studi finalizzati alla produzione del miele in Cilento* SBR. ISBN 88-901941-0-3. pp.13-18

Articles in National Proceedings

- 184) De Micco V., Battipaglia G., Cherubini P., Aronne G. 2012. Intra-annual variability of tree-rings in Mediterranean species in response to environmental changes. In: Cannone N., Barni E., Marignani M. (Eds.) *Cambiamento climatico: analisi ed impatti sugli ecosistemi vegetali*. Atti del Convegno *Cambiamento climatico: Analisi ed impatti su specie ed ecosistemi vegetali*. Varese, 18 apr 2012. Grafica Marelli, Como. ISBN 9788890470820. pp. 62-66.

- 185) Aronne G., Buonanno M., Arena C., Giovanetti M., De Micco V. 2012. Climate changes and plant conservation: the study case of *Primula palinuri* Petagna. In: Cannone N., Barni E., Marignani M. (Eds.) *Cambiamento climatico: analisi ed impatti sugli ecosistemi vegetali*. Atti del Convegno *Cambiamento climatico: Analisi ed impatti su specie ed ecosistemi vegetali*. Varese, 18 apr 2012. Grafica Marelli, Como. ISBN 9788890470820. pp. 50-53.
- 186) Arena C., De Micco V., De Maio A., Aronne G., Vitale L. 2012. Multidisciplinary approach in the study of the Mediterranean maquis species *Cistus incanus* L. in the sight of global climatic change. In: Cannone N., Barni E., Marignani M. (Eds.) *Cambiamento climatico: analisi ed impatti sugli ecosistemi vegetali*. Atti del Convegno *Cambiamento climatico: Analisi ed impatti su specie ed ecosistemi vegetali*. Varese, 18 apr 2012. Grafica Marelli, Como. ISBN 9788890470820. pp. 46-49.
- 187) De Micco V., Aronne G. 2010. Effect of different watering regimes on anatomical features of fine roots in the Mediterranean *Phillyrea latifolia* L. (Oleaceae). In: Giordani G, Rossi V, Viaroli P. (Eds.) *Ecologia Emergenza Pianificazione, XVIII Congresso Nazionale della Società Italiana di Ecologia*. SitE. ISSN 1127-5006. pp. 120-126.
- 188) Arena C., De Micco V., Vitale L., Aronne G., Virzo De Santo A. 2010. Photochemical activity and anatomical modifications in plants of *Cistus incanus* L. subsp. *incanus* subjected to cold. In: Giordani G, Rossi V, Viaroli P. (Eds.) *Ecologia Emergenza Pianificazione, XVIII Congresso Nazionale della Società Italiana di Ecologia*. SitE. ISSN 1127-5006. pp. 105-112.
- 189) Aronne G., De Micco V., Barbi S. 2010. Hypocotyl features of *Primula palinuri* Petagna (Primulaceae) an endemic and rare species of the Southern Tyrrhenian Coast. In: Giordani G, Rossi V, Viaroli P. (Eds.) *Ecologia Emergenza Pianificazione, XVIII Congresso Nazionale della Società Italiana di Ecologia*. SitE. ISSN 1127-5006. pp. 113-119.
- 190) Aronne G., Mazzone P., De Micco V., Scala M., Rago A. 2005. L'impollinazione in agricoltura biologica: un necessario processo naturale da promuovere ad operazione colturale. In: Cicia G. & Del Giudice T. (Eds.) *L'Agricoltura biologica fuori dalla nicchia: Le nuove Sfide*. – Collana Manlio-Rossi Doria, Edizioni Scientifiche Italiane, pp. 1-11
- 191) De Micco V., Scala M., Aronne G. 2004. Metodologia per analizzare l'accumulo dell'olio nelle drupe di olivo durante la maturazione. In: Inglese P. et al (Eds.) *VII Giornate Scientifiche SOI – Frutticoltura*, su CD-Rom.
- 192) Scala M. De Micco V. Aronne G. 2004. Effetto di temperatura e umidità sulla vitalità del polline di specie ortive sotto serra. In: Miccolis V. et al (Eds.) *VII Giornate Scientifiche SOI – Orticoltura*, su CD-Rom.
- 193) Scala M., De Micco V., Aronne G. 2003. Impollinazione obbligata in coltura biologica: effetto integrato di umidità e temperatura sulla vitalità del polline di fragola. In. Mori M. & Fagnano M. (Eds.) *Obiettivo qualità integrale: il ruolo della ricerca agronomica*, Società Editrice Imago Media, CE, pp. 73-74.
- 194) Chiaffitelli V., Amato M., De Micco V., Aronne G. 2003. Caratteristiche meccaniche ed anatomiche di radici di *Lygeum* spp. sottoposte a diverse situazioni di stress. In. Mori M. & Fagnano M. (Eds.) *Obiettivo qualità integrale: il ruolo della ricerca agronomica*, Società Editrice Imago Media, CE, pp. 5-6.
- 195) Aronne G. & De Micco V. 2002. Mediterranean Maquis Shrubs: Adaptive Strategies to Climate Changes, In: Miglietta F. & Valentini R. (Eds.) *Mediterraneo e Italia nel Cambiamento Globale: un ponte fra scienza e società*, IGBP & CNR, pp. 59-62.

Abstract in International Journals

- 196) Brook A., De Micco V., Battipaglia G., Erbaggio A., Ludeno G., Catapano I., Bonfante A.

2019. A Smart Multi-scale and Multi-temporal System to Support Precision and Sustainable Agriculture from Satellite Images. *Proceedings* 30: 17
- 197) De Micco V., Arena C., Aronne G., Virzo De Santo A. 2008. Anatomy and eco-physiology of leaves and twigs of *Cistus incanus* L.: adaptive strategies to the environmental constraints of the Mediterranean ecosystems. *Abstracts / Comparative Biochemistry and Physiology, Part A* 150 (2008) S172
- 198) De Micco V., Scala M., Aronne G. 2004. Gametophytic selection in space: effect of simulated microgravity on pollen tube development. *Polen* 14: 316-317
- 199) Aronne G., De Micco V., Scala M. 2004. Is pollen behaviour of *Rosmarinus officinalis* L. (Lamiaceae) adapted to environmental conditions of the flowering period? *Polen* 14: 315-316
- 200) Scala M., Aronne G., De Micco V. 2004. Variability in pollen spectra of chestnut honeys from different sited and years. *Polen* 14: 403
- 201) Scala M., De Micco V., Aronne G. 2004. Multivariate analysis of the accompanying pollen for the determination of the geographical origin of honey. *Polen* 14: 109

Abstract for Oral Communications (C) and Posters (P) at National and International Congresses

- 202) Veronica De Micco, Sara De Francesco, Chiara Amitrano, Ermenegilda Vitale, Giulia Costanzo, Walter Tinganelli, Marco Durante, and Carmen Arena. Morpho-physiological and nutritional responses of Brassica microgreens to heavy ions: an outlook on ionizing radiation from the REBUS project. 2022 MELiSSA Conference "Current and future ways to closed life support systems". Toulouse (France), 8-10 Nov. 2022. Oral
- 203) Sara De Francesco, Chiara Amitrano, Walter Tinganelli, Marco Durante, Stefania De Pascale, Carmen Arena, Veronica De Micco. *Lactuca sativa* L. plants showed different capacities to cope with ionizing radiation when exposed to increasing doses of heavy ions. 2022 MELiSSA Conference "Current and future ways to closed life support systems". Toulouse (France), 8-10 Nov. 2022. Oral
- 204) Chiara Amitrano, Yousef Rouphael, Rosanna Caputo, Stefania De Pascale, Veronica De Micco. How abiotic factors change the requirements for plants cultivation in Space systems. 2022 MELiSSA Conference "Current and future ways to closed life support systems". Toulouse (France), 8-10 Nov. 2022. Oral
- 205) Veronica De Micco, Alessia D'Auria, Francesca Petracca, Sara De Francesco, Francesco Niccoli, Simona Altieri, Arturo Pacheco, Antonello Bonfante, Chiara Cirillo, Arturo Erbaggio, Pierpaolo Sirch, Giovanna Battipaglia. Quantitative anatomical traits and stable isotopes in wood rings of Greco grapevine reveal acclimation to environmental variability and cultivation factors: the GREASE Project. 117 Congresso della Società Botanica Italiana, VIII International Plant Science Conference, Bologna, 7-10 Sept. 2022. Poster
- 206) Veronica De Micco, Francesca Petracca, Alessia D'Auria, Chiara Amitrano, Francesco Niccoli, Simona Altieri, Arturo Pacheco-Solana, Arturo Erbaggio, Chiara Cirillo, Pierpaolo Sirch, and Giovanna Battipaglia. The GREASE project: application of dendrosciences to analyse the mechanisms for Greco grapevine acclimation to environmental variability and cultivation factors EGU General Assembly 2022, Vienna, Austria, 23–27 May 2022, EGU22-3058. Oral
- 207) Chiara Cirillo, Antonello Bonfante, Carmen Arena, Maurizio Buonanno, Francesca Petracca, Chiara Amitrano, Nicola Damiano, Arturo Erbaggio, Luigi Pagano, Rosanna Caputo, and Veronica De Micco. The GREASE project to unravel how soil and canopy management can mitigate climate change effects on Greco grapevine. EGU General Assembly 2022, Vienna, Austria, 23–27 May 2022, EGU22-4145. Oral

- 208) Nicola Damiano, Chiara Cirillo, Antonello Bonfante, Giovanna Battipaglia, Carmen Arena, Arturo Erbaggio⁵, Francesca Petracca¹, Paolo Cherubini⁶, Marco Giulioli⁷, and Veronica De Micco. Monitoring Falanghina grapevine acclimation to pedo-climatic spatial variability through a multidisciplinary approach tracing functional traits in the continuum soil-plant-atmosphere EGU General Assembly 2022, Vienna, Austria, 23–27 May 2022, EGU22-4955. Oral
- 209) Francesca Petracca, Chiara Cirillo, Antonello Bonfante, Carmen Arena, Marco Giulioli, Arturo Erbaggio, Nicola Damiano, Rosanna Caputo, and Veronica De Micco. Can the use of basalt dust mitigate the drought stress effects in grapevine? Setup of monitoring approach and protocols in a case study on Falanghina in Southern Italy EGU General Assembly 2022, Vienna, Austria, 23–27 May 2022, EGU22-5604. Oral
- 210) De Francesco, S., Amitrano, C., Costanzo, G., Vitale, E., Tinganelli, W., Durante, M., Pugliese, M., Arrichiello, C., Ametrano, G., Muto, P., De Micco, V., and Arena, C.: Different types of ionizing radiation induce morpho-anatomical and antioxidant responses in Brassica rapa L. microgreens, EGU General Assembly 2022, Vienna, Austria, 23–27 May 2022, EGU22-5623. Oral
- 211) Arena, C., Vitale, E., Costanzo, G., De Francesco, S., Amitrano, C., Pugliese, M., Arrichiello, C., Ametrano, G., Muto, P., and De Micco, V.: A coin with two faces: understanding effects of ionizing radiation in space farming - the case of Solanum lycopersicum L. 'Microtom', EGU General Assembly 2022, Vienna, Austria, 23–27 May 2022, EGU22-3097. Oral
- 212) De Francesco S., Costanzo G., C. Amitrano, Vitale E., Pugliese M., Arrichiello C., Ametrano G., Muto P., Arena C., De Micco V. "Radiation-induced morpho-anatomical and nutritional responses of Brassica rapa L. microgreens: is there a dependence on the target of irradiation?" SBI 2021, 8-10 September 2021. Video-Online.
- 213) De Francesco S., Costanzo G., Vitale E., Amitrano C., Arena C. & De Micco V. "Effect of ionizing radiation on growth and nutritional value of Brassica rapa L. microgreens" PBE Plant Biology Europe 2021, Turin (Italy) 28th June – 01st July 2021. Poster
- 214) De Micco V., D'Auria A., Niccoli F., Petracca F., De Francesco S., Altieri S., Pacheco A., Erbaggio A., Sirch P., Cirillo C., Battipaglia G. 2021. The GREASE project: Sustainable cultivation of Greco grapevine - Reconstruction of the vines ecophysiological behaviour. EGU21-10106, EGU General Assembly 2021, Vienna, 19–30 April 2021. Online
- 215) C. Amitrano, V. De Micco, G.B. Chirico, Y. Roupheal, S. De Pascale, K.C. Shasteen, M. Kacira. 2020. Application of the energy cascade model (MEC) on lettuce crop grown in controlled environment agriculture at two different scales: a small growth chamber and a vertical farm. Melissa conference 2020. 3-5 Nov (O)
- 216) C. Amitrano, C. Arena, P. Vitaglione, M. Pugliese, V. De Micco. 2020. Light quality and X-ray treatments improve the nutraceutical properties of mung bean (*Vigna radiata* L.) sprouts. Società Italiana per la Ricerche sulle Radiazioni. 10-12 Nov (O)
- 217) Amitrano C., Roupheal Y., De Pascale S., Pannico A., De Micco V. 2020. Plant acclimation to relative humidity modifies the relationship between leaf structure and function in lettuce crop. 115 Congresso della Società Botanica Italiana, VII International Plant Science Conference (IPSC). Online 9-11 Sept (O)
- 218) Damiano N., Cirillo C., Battipaglia G., Amitrano C., Pannico A., Caputo R., Arena C., Erbaggio A., Cherubini P., Saurer M., Bonfante A., De Micco V. 2020. Morpho-functional and isotopic traceability in vine, to understand the relationships between vine hydraulics and wine production in Falanghina. 115 Congresso della Società Botanica Italiana, VII International Plant Science Conference (IPSC). Online 9-11 Sept (O)

- 219) De Micco V., Cufar K., Balzano A. 2020. Cambium production pattern in *Q. ilex* growing at a dry site in Southern Italy. EGU General Assembly 2020, EGU2020-6169, <https://doi.org/10.5194/egusphere-egu2020-6169>, Vienna (Austria), 4-8 May, online (P)
- 220) Damiano N., Cirillo C., Battipaglia G., Amitrano C., Pannico A., Caputo R., Arena C., Erbaggio A., Cherubini P., Saurer M., Bonfante A., De Micco V. 2020. Relationships between vine hydraulics and wine production in Falanghina: morpho-functional and isotopic traceability to evaluate sustainability in a climate change context. EGU General Assembly 2020, EGU2020-9928, <https://doi.org/10.5194/egusphere-egu2020-9928>, Vienna (Austria), 4-8 May, online (P)
- 221) Brook A., Bonfante A., Damiano N., Cirillo C., Battipaglia G., Erbaggio A., Buonanno M., De Micco V. 2020. Assessment of Falanghina vine status at different spatial and temporal scales by means of a smart multiple spatial and temporal resolution system. EGU General Assembly 2020, EGU2020-11481, <https://doi.org/10.5194/egusphere-egu2020-11481>, Vienna (Austria), 4-8 May, online (P)
- 222) Amitrano C., Chirico G. B., Rouphael Y., De Pascale S., De Micco V. 2020. Using explanatory crop models to help decision support system in controlled environment agriculture (CEA). EGU General Assembly 2020, EGU2020-9672, <https://doi.org/10.5194/egusphere-egu2020-9672>, Vienna (Austria), 4-8 May, online (O)
- 223) Niccoli F., De Micco V., Castaldi S., Valentini R., Battipaglia G. 2020. An integrated approach for monitoring the post-fire responses of *Pinus pinaster* Aiton. EGU General Assembly 2020, EGU2020-7395, <https://doi.org/10.5194/egusphere-egu2020-7395>, Vienna (Austria), 4-8 May, online (O)
- 224) Monaco E., De Mascellis R., Barbato G., Mercogliano P., Buonanno M., Brook A., De Micco V., Bonfante A. 2020. Pedoclimatic comparison of three viticultural areas of Italy devoted to high-quality Aglianico and Cabernet Sauvignon production. EGU General Assembly 2020, EGU2020-7384, <https://doi.org/10.5194/egusphere-egu2020-7384>, Vienna (Austria), 4-8 May, online (P)
- 225) Amitrano C., Chirico GB., De Pascale S., Rouphael Y., De Micco V. 2019. Application of a MEC model for the irrigation control in green and red-leaf lettuce in precision indoor cultivation. 2019 IEEE International Workshop Metrology for Agriculture and Forestry, Portici, Naples, Italy, 24-26 October (P)
- 226) Damiano N., Bonfante A., Cirillo C., Amitrano C., Erbaggio A., Brook A., De Micco V. 2019. Retrospective reconstruction of the eco-physiological grapevine behaviour through the analysis of tree-ring series to validate an approach to extract data from space-born and UAV techniques. 2019 IEEE International Workshop Metrology for Agriculture and Forestry, Portici, Naples, Italy, 24-26 October (P)
- 227) Niccoli F., Castaldi S., De Micco V., Valentini R., Battipaglia G. 2019. Tree dieback in the Mediterranean region: a new monitoring system. 4th Xylem International Meeting, Padova (Italy), 25-27 Sept (P)
- 228) Aronne G., Izzo LG., Romano LE., De Francesco S., De Micco V., De Pascale S., Carrubba E., Neri G., Galoforo G., Piccirillo S., Valentini G. 2019. Solutions to overcome technical constraints and achieve scientific goals of the multitrop experiment. XXV International Congress of the Italian Association of Aeronautics and Astronautics, 9-12 Sept, Rome (Italy) (O)
- 229) De Pascale S., Arena C., Aronne G., De Micco V., Pannico A., Paradiso R., Rouphael Y. 2019. Plant biology and crop production in extra-terrestrial environments: challenges and opportunities. XXV International Congress of the Italian Association of Aeronautics and Astronautics, 9-12 Sept, Rome (Italy) (O)
- 230) Amitrano C., Pannico A., Rouphael Y., De Pascale S., Arena C., De Micco V. 2019. Anatomical and eco-physiological responses of salanova green and red lettuce (*Lactuca sativa*

- L.) plants under different VPD conditions. 114° Congresso della Società Botanica Italiana, VI International Plant Science Conference (IPSC). Padova (Italy), 4-7 Sept (P)
- 231) Balzano A., Cufar K., Gricar J., de Luis M., De Micco V. 2019. Intra-seasonal variations in the genesis of phloem in Mediterranean pines. 114° Congresso della Società Botanica Italiana, VI International Plant Science Conference (IPSC). Padova (Italy), 4-7 Sept (P)
- 232) Amitrano C., Niccoli F., Battipaglia G., Cirillo C., Bonfante A. Erbaggio A., Roupael Y., De Micco V. 2019. Functional grapevine anatomy: linking traits of tree rings and leaves to eco-physiological behaviour in response to pedo-climatic and cultivation factors. Tree Rings in Archaeology, Climatology And Ecology (Trace 2019). San Leucio (Italy), 6-11 May (P)
- 233) Balzano A., Battipaglia G., Cherubini P., De Micco V. 2019. Drought-triggered plasticity in xylem traits of tree rings in *Pinus pinaster* and *Quercus ilex* growing on the Elba island. Tree Rings in Archaeology, Climatology And Ecology (Trace 2019). San Leucio (Italy), 6-11 May (P)
- 234) Balzano A., Cufar K., Gricar J., de Luis M., De Micco V. 2019. Seasonal variations in phloem traits in *Pinus* spp. from Mediterranean sites: do they follow xylem trends? Tree Rings in Archaeology, Climatology And Ecology (Trace 2019). San Leucio (Italy), 6-11 May (P)
- 235) Niccoli F., Castaldi S., De Micco V., Battipaglia G. 2019. Post Fire responses of *Pinus pinaster* Ait.: Tree talker application. Tree Rings in Archaeology, Climatology And Ecology (Trace 2019). San Leucio (Italy), 6-11 May (P)
- 236) De Micco V., Battipaglia G., Erbaggio A., De Mascellis R., Bonfante A. 2019. Understanding the influence of slope preparation on soil profile and grapevine responses for vine implantation: a case study on Aglianico. Geophysical Research Abstracts, Vol. 21, EGU2019-3437, 2019, EGU General Assembly 2019, Vienna (Austria), 7-12 April (PICO PRESENTATION)
- 237) De Micco V., Cirillo C., Arena C., Battipaglia G., Erbaggio A., Caputo R., Roupael Y., Amitrano C., Vitale E., Niccoli F., Brook A., Bonfante A. 2019. Evaluating the effect of a biostimulant on growth performance and productivity of *Vitis vinifera* 'Aglianico' through a multidisciplinary approach tracing functional traits in the continuum soil-plant-atmosphere. Geophysical Research Abstracts, Vol. 21, EGU2019-6086, 2019, EGU General Assembly 2019, Vienna (Austria), 7-12 April (PICO PRESENTATION)
- 238) Balzano A., Cufar K., Gricar J., de Luis M., De Micco V. 2019. Seasonal trends in phloem traits in *Pinus* spp. from drought-prone environments. Geophysical Research Abstracts, Vol. 21, EGU2019-5995, 2019, EGU General Assembly 2019, Vienna (Austria), 7-12 April (P)
- 239) Battipaglia G., Zalloni E., Cherubini P., Saurer M., De Micco V. 2019. Pure vs mixed stand of *Quercus ilex* L: how much local site conditions influence drought responses? Geophysical Research Abstracts, Vol. 21, EGU2019-5995, 2019, EGU General Assembly 2019, Vienna (Austria), 7-12 April (P)
- 240) Cirillo C., Pannico A., Balzano A., Zalloni E., Caputo R., Arena C., De Pascale S., De Micco V. 2019. Effects of a simulated heat wave on growth and photosynthesis of seedlings in *Quercus ilex* L. and *Arbutus unedo* L. International Symposium on Irrigation of Horticultural Crops, June 17-20, 2019, Matera (Italy) (P)
- 241) Brook A., De Micco V., Battipaglia G., Erbaggio A., Ludeno G., Catapano I., Bonfante A. 2019. A Smart Multi-scale and Multi-temporal System to Support Precision and Sustainable Agriculture from Satellite Images. TERRAenVISION 2019, Barcelona (Spain), Sept 2-7 (O)
- 242) Aronne G., De Micco V., De Pascale S., Izzo LG., Romano LE., De Francesco S., Carrubba E., Valentini G. 2018. MULTITROP: the challenge of using a refurbished hardware for an educational and scientific experiment on the ISS. 69th International Astronautical Congress, Bremen (Germany), 1-5 Oct (O)

- 243) Amitrano C., Arena C., Izzo LG., Stinca A., Barile R., Conti P., De Micco V. 2018. Morpho-anatomical and physiological responses of *Robinia pseudoacacia* L. plants to anthropogenic dust deposition in the Vesuvius National Park. 113° Congresso della Società Botanica Italiana, V International Plant Science Conference (IPSC). Fisciano (Italy), 12-15 Sept (O)
- 244) Aronne G., Izzo LG., De Micco V. 2018. Plant growth in space: struggling with environmental factors and physical constraints. 113° Congresso della Società Botanica Italiana, V International Plant Science Conference (IPSC). Fisciano (Italy), 12-15 Sept (O)
- 245) Balzano A., Čufar K., Battipaglia G., De Micco V. 2018. Coupling xylogenesis and dendroecology to understand the relations between environmental factors and tree-ring formation in Mediterranean hardwood and softwood species. 113° Congresso della Società Botanica Italiana, V International Plant Science Conference (IPSC). Fisciano (Italy), 12-15 Sept (P)
- 246) De Micco V., Amitrano C., Vitale E., Aronne G., Arena C. Morpho-functional plant traits conferring radioresistance: living in extreme conditions by transforming constraints in opportunities. 113° Congresso della Società Botanica Italiana, V International Plant Science Conference (IPSC). Fisciano (Italy), 12-15 Sept (O)
- 247) Amitrano C., De Micco V., Vitale E., Arena C. 2018. Low doses of ionising radiation and the modulation of light quality improve nutritional traits in soybean seedlings. Plant Biology Europe 2018, Copenhagen (Denmark), 18-21 June (P)
- 248) Amitrano C., De Micco V., Arena C. 2018. Plants for Space Life: Testing the capacity of two edible species to cope with ionising radiation. SEB (Society of Experimental Biology) Annual Meeting, Florence (Italy), 3-6 Jun (P)
- 249) Arena C., Vitale E., Hay Mele B., Cataletto PR., Turano M., Simoniello P., De Micco V. 2018. Effect of heavy ions on development, photosynthesis and fruit antioxidant production in Microtom plants: a Space perspective. Joint Agrospace-MELiSSA Workshop. Current and future ways to Closed Life Support Systems, Rome (Italy), 16-18 May (P)
- 250) De Micco V., Vitaglione P., Aronne G., Pugliese MG., Arena C. 2018. Light quality alters the response to ionizing radiation in seedlings of legume species in terms of development and nutritional traits. Joint Agrospace-MELiSSA Workshop. Current and future ways to Closed Life Support Systems, Rome (Italy), 16-18 May (O)
- 251) Izzo LG., Arena C., De Micco V., Aronne G. 2018. Light quality influences differently green- and red-leaf plant growth. Joint Agrospace-MELiSSA Workshop. Current and future ways to Closed Life Support Systems, Rome (Italy), 16-18 May (O)
- 252) Balzano A., Čufar K., Battipaglia G., Merela M., De Micco V. 2018. Xylogenesis investigations and dendrochronology reveal the functions of IADFs in Mediterranean woods. TRACE 2018 – Tree Rings in Archaeology, Climatology and Ecology, Greifswald (Germany), 24-27 Apr (O)
- 253) Battipaglia G., Zalloni E., Balzano A., Cherubini P., De Micco V. 2018. Multidisciplinary tree ring approach to evaluate water use efficiency and growth of Mediterranean species in response to drought. Geophysical Research Abstracts, Vol. 20, EGU2018-10037. European Geosciences Union General Assembly, Vienna (Austria), 8-13 April (P)
- 254) De Micco V., Balzano A., Čufar K., Zalloni E., Battipaglia G. 2018. Plastic responses in xylogenesis affect tree-ring growth and forest productivity under Mediterranean climate fluctuations. Geophysical Research Abstracts, Vol. 20, EGU2018-9543. European Geosciences Union General Assembly, Vienna (Austria), 8-13 April (P)
- 255) Cirillo C., Pannico A., Balzano A., Zalloni E., Caputo R., Battipaglia G., Arena C., De Micco V. 2018. Growth and physiological response of young plants of Mediterranean species under a

- simulated heat wave. Geophysical Research Abstracts, Vol. 20, EGU2018-14063. European Geosciences Union General Assembly, Vienna (Austria), 8-13 April (P)
- 256) De Micco V. 2017. Chronic Radiation on Plants (CROP). Workshop Deep Space Gateway, Noordwijk (The Netherlands), 5-6 December (O)
- 257) De Micco V., Izzo L.G., Amitrano C., Stinca A., Aronne G., Barile R., Conti P., Arena C. 2017. Anthropogenic impact in the Vesuvius National Park: effect of dust accumulation on leaves of *Centranthus ruber* (L.) DC. subsp. *ruber*. IV International Plant Science Conference (IPSC), 112 Congresso della Società Botanica Italiana, Parma (Italy), 20 - 23 September, (P)
- 258) Vitale E., Cirillo C., Arena C., Basile B., Scognamiglio P., Zalloni E., Caputo R., Erbaggio A., De Micco V. 2017. Effect of grafting on xylem efficiency/safety modulation and photosynthetic performance in *Vitis vinifera* 'Piedirosso': concerns in a climate change scenario. IV International Plant Science Conference (IPSC), 112 Congresso della Società Botanica Italiana, Parma (Italy), 20 - 23 September, (P)
- 259) Amitrano C., Arena C., Vitaglione P., Aronne G., Pugliese M.G., De Micco V. 2017. Combined effect of ionizing radiation and light on morpho-anatomical and nutritional traits of soybean seedlings intended as integrators for astronauts' diet. IV International Plant Science Conference (IPSC), 112 Congresso della Società Botanica Italiana, Parma (Italy), 20 - 23 September, (P)
- 260) Zalloni E., Battipaglia G., Cherubini P., Saurer M., De Micco V. 2017. Tree-ring Intra-Annual-Density-Fluctuations as functional indicators of responses to different environmental conditions in *Q. ilex* L. (Vesuvius, Southern Italy). IV International Plant Science Conference (IPSC), 112 Congresso della Società Botanica Italiana, Parma (Italy), 20 - 23 September, (O)
- 261) Izzo L.G., Arena C., De Micco V., Aronne G. 2017. Light quality enhances anthocyanin modulation in red and green cvs of *Atriplex hortensis* L. IV International Plant Science Conference (IPSC), 112 Congresso della Società Botanica Italiana, Parma (Italy), 20 - 23 September, (P)
- 262) Vitale E., De Micco V., Amitrano C., Turano M., Hay Mele B., Manti L., Arena C. 2017. Can *Solanum lycopersicum* L. cv 'Micro-Tom' a good candidate for growth in Space? Testing the effects of High-LET ionizing radiation on plant growth, photosynthesis and antioxidants. ERRS 2017 - 43rd Annual Meeting of the European Radiation Research Society, Essen (Germany), 17-21 September (O)
- 263) Cirillo C., Roupheal Y., De Micco V., Arena C., Pannico A., De Pascale S. 2017. Salinity source differentially affects salt tolerance strategies in ornamental shrubs. Book of Abstracts International Symposium on Greener Cities for more efficient ecosystem services in a climate changing world, 12-15 September 2017, Bologna (Italy), p. 59, (O)
- 264) Roupheal Y., Cirillo C., De Micco V., Arena C., Pannico A., Cirillo V., De Pascale S. 2017. Effect of Sodium Chloride Levels on Morphological and Physiological Traits of Potted *Bougainvillea* Trained to two Shapes. Book of Abstracts International Symposium on Greener Cities for more efficient ecosystem services in a climate changing world, 12-15 September 2017, Bologna (Italy), p. 85, (P)
- 265) Zalloni E., Battipaglia G., Aronne G., Barile R., Conti P., De Micco V. 2017. Tree-ring analysis helps evaluating the effect of dust-cloud deposition on *Pinus pinea* L. trees after severe anthropogenic impact in the Vesuvius National Park. XXVII Congresso della Società Italiana di Ecologia, Napoli (Italy) 12-15 September (P)
- 266) Vitale E., De Micco V., Amitrano C., Cataletto P.R., De Maio A., Arena C. 2017. Dwarf bean as eligible candidate for cultivation in artificial ecosystems in Space: heavy ions-induced changes in higher plants. XXVII Congresso della Società Italiana di Ecologia, Napoli (Italy) 12-15 September (P)

- 267) Amitrano C., De Micco V., Vitale E., Pugliese M., Arena C. 2017. Combined effect of ionizing radiation and light quality on mung bean seedlings: implications for growth in Space ecosystems. XXVII Congresso della Società Italiana di Ecologia, Napoli (Italy) 12-15 September (P)
- 268) Hay Mele B., De Micco V., Cartenì F., Mazzoleni S., Giannino F. 2017. The physiological mechanisms behind the earlywood-to-latewood transition: a process-based modelling approach. XXVII Congresso della Società Italiana di Ecologia, Napoli (Italy) 12-15 September (P)
- 269) De Micco V., Narici L., Cotronei V., Gemignani A. 2017. Scientific and technological issues enabling the mission to Mars & ISS4Mars. First Italian Workshop "ISS4Mars: Vision and limitations", Roma (Italy), 26 June (O)
- 270) Amitrano C., De Micco V., Vitale E., Pugliese M., Arena C. 2017. Combined effect of different X-ray doses and light quality on soybean seedlings. I giornata S.I.R.R. 2017, Naples (Italy) 31 May (O)
- 271) Vitale E., De Micco V., Hay Mele B., Amitrano C., De Maio A., Carfagna S., Arena C. 2017. Radioresistance of dwarf bean plants irradiated with C and Ti heavy ions. I giornata S.I.R.R. 2017, Naples (Italy) 31 May (O)
- 272) De Micco V., Balzano A., Zalloni E., Aronne G., Čufar K., Cherubini P., Battipaglia G. 2017. Wood responses to drought in Mediterranean forests: evidences from xylogenesis and functional wood traits in tree-ring series. Sustainable Restoration of Mediterranean Forests, International Congress, Palermo (Italy), 19-21 April (O)
- 273) Battipaglia G., Cherubini P., De Micco V. 2017. Responses of water use efficiency to drought in Mediterranean forests: evidences from stable isotopes. Sustainable Restoration of Mediterranean Forests, International Congress, Palermo (Italy), 19-21 April (O)
- 274) Colangelo M., Ripullone F., Camarero JJ., De Micco V., Gazol G., Gentilesca T., Borghetti M. 2017. Searching for early-warning signals of impending dieback and death in Mediterranean oaks. Geophysical Research Abstracts, Vol. 19, EGU<2017-9196, European Geosciences Union General Assembly, Vienna (Austria), 8-13 April (O)
- 275) Colangelo M., Ripullone F., Camarero JJ., De Micco V., Gazol G., Gentilesca T., Borghetti M. 2017. Searching for early-warning signals of impending dieback and death in Mediterranean oaks. Geophysical Research Abstracts, Vol. 19, EGU<2017-9196, European Geosciences Union General Assembly, Vienna (Austria), 8-13 April (O)
- 276) Colangelo M., Camarero JJ., De Micco V., Borghetti M., Gentilesca T., Sanchez-Salguero R., Ripullone F. 2017. Can forest dieback and tree death be predicted by prior changes in wood anatomy? Geophysical Research Abstracts, Vol. 19, EGU<2017-18389-1, European Geosciences Union General Assembly, Vienna (Austria), 8-13 April (P)
- 277) Cartenì F., De Micco V., Deslauriers A., Giannino F., Mazzoleni S., Morin H., Rossi S. 2017. The physiological mechanisms behind the earlywood-to-latewood transition: a process-based modelling approach. 11 Colloque du CEF (Centre d'Etude de la Forêt), Université du Québec à Chicoutimi (Canada), April, (O)
- 278) De Micco V., Balzano A., Zalloni E., Aronne G., Čufar K., Cherubini P., Battipaglia G. 2017. Xylogenesis and functional wood traits in tree rings: past reconstruction, present assessment and future perspective. Plant Traits 2.0, Società Botanica Italiana, Bologna (Italy), 9-10 February (O)
- 279) De Micco V., Aronne G., Arena C., De Pascale S. 2016. Plant growth in Space: constraints and challenges. European Mars Society Conference. Bergamo (Italy), 14-16 October, (O)
- 280) Cirillo C., Rouphael Y., De Micco V., Pannico A., Caputo R., De Pascale S. 2016. Morpho-anatomical adaptations of *Callistemon citrinus* to CaCl₂ and NaCl solutions. Acta Italus Hortus,

Proceedings of the XI giornate Scientifiche SOI, Florence (Italy), 14-16 September, p. 74, vol. 20, (O)

- 281) Balzano A., Battipaglia G., Čufar K., Gričar J., Aronne G., Merela M. De Micco V. 2016. The analysis of xylogenesis helps understanding formation of intra-annual density fluctuations in tree rings of *Pinus halepensis* and *Arbutus unedo*. *111° Congresso della Società Botanica Italiana, III International Plant Science Conference (IPSC)*, Rome (Italy), 21 - 23 September, p. 69 (P)
- 282) Izzo L.G., Arena C., De Pascale S., De Micco V., Aronne G. 2016. Red vs. Green Leaf: Effects of Light Quality on Morpho-Functional Traits. *111° Congresso della Società Botanica Italiana, III International Plant Science Conference (IPSC)*, Rome (Italy), 21 - 23 September, p. 135 (P)
- 283) Zalloni E., Battipaglia G., Aronne G., De Micco V. 2016. Variability of functional traits in tree rings of *Quercus ilex* L. and *Pinus pinea* L. coping with intra-annual climate fluctuations in a mixed forest stand. *111° Congresso della Società Botanica Italiana, III International Plant Science Conference (IPSC)*, Rome (Italy), 21 - 23 September, p. 80 (P)
- 284) Izzo L.G., Arena C., De Pascale S., De Micco V., Aronne G. 2016. Effects of Light Quality on Two Different Cultivars of *Atriplex hortensis* with Red or Green Leaves. *17th International Congress on Photosynthesis Research - Photosynthesis in a Changing World, MECC Congress Centre*, Maastricht (The Netherlands), 7 - 12 August, p. (P)
- 285) Scognamiglio P., Giaccone M., De Micco V., Dente A., Forlani M., Basile B. 2016. Influence of pre-anthesis defoliation on yield components and berry composition of Greco grapevine. *X International symposium on grapevine physiology and biotechnology*, Verona (Italy), 13-18 June, p. (P)
- 286) Paradiso R., De Pascale S., De Micco V., Aronne G. 2016. Food Production and Preparation The state of the art. *MELISSA Workshop 2016*, Losanna (Switzerland), 8-9 June, (O).
- 287) Aronne G., Wolff SA., Dussap CG., De Pascale S., Paradiso R., Arena C., De Micco V. 2016. Water pathway through a plant to be grown in a biorigenerative system for orbital stations: the need for experiments in microgravity. *7th International AgroSpace Workshop Mars – A Long Way to Go*, Sperlonga (Italy), 26-27 May, (O)
- 288) De Pascale S., Paradiso R., De Micco V., Arena C., Aronne G. 2016. Plant growth-promoting organisms to improve plant performance of hydroponic grown soybean in BLSSs. *7th International AgroSpace Workshop Mars – A Long Way to Go*, Sperlonga (Italy), 26-27 May, (O)
- 289) De Micco V., Mastroleo F. 2016. Supporting Life in Extreme Environments. Research community consultation workshop life and physical sciences in space, Noordwijk (The Netherlands), 18-20 January, (O)
- 290) Arena C., Turano M., Paradiso R., Cataletto P., Hay Mele B., Aronne G., De Pascale S., De Micco V. 2015. Can dwarf tomato be a candidate for cultivation in Space? Testing photosynthetic performance and leaf plasticity under high levels of ionizing radiation. *ISLSWG - Workshop on Bioregenerative Life Support*, Turin (Italy), 18-19 May, p. 22 (O)
- 291) Paradiso R., De Micco V., Arena C., Aronne G., De Pascale S. 2015. Ground-based research for soybean cultivation in regenerative life support systems: harmonization of plant structure and physiology in hydroponics. *ISLSWG - Workshop on Bioregenerative Life Support*, Turin (Italy), 18-19 May, p. 21 (O)
- 292) De Micco V., Aronne G., De Pascale S., Paradiso R., Vitaglione P., Arena C. 2015. Does ionizing radiation influence nutritional value of fruits in dwarf tomato? How Space constraints can trigger positive outcomes. *ISLSWG - Workshop on Bioregenerative Life Support*, Turin (Italy), 18-19 May, p. 24 (O)

- 293) Balzano A., Battipaglia G., Cherubini P., Aronne G., De Micco V. 2015. Intra-annual sensitivity of vessels and fibres to environmental variations in tree rings of *Arbutus unedo* L. and *Erica arborea* L. TRACE 2015 - Tree Rings in Archaeology, Climatology and Ecology, Sevilla, Spain, 20-23 May, p. 8 (P)
- 294) Zalloni E., de Luis M., Campelo F., Novak K., De Micco V., Di Filippo A., Vieira J., Nabais C., Battipaglia G. 2015. IADFs in mediterranean pines: cambial age, ring width and climate relations in *Pinus halepensis*, *Pinus pinaster* and *Pinus pinea* across their distribution range. TRACE 2015 - Tree Rings in Archaeology, Climatology and Ecology, Sevilla, Spain, 20-23 May, p. 118 (P)
- 295) Colangelo M., Gentilesca T., Battipaglia G., Borghetti M., De Micco V., Lapolla A., Ripullone F. 2015. Impiego dell'anatomia del legno per lo studio del deperimento di *Quercus frainetto* nel Parco del Pollino". 10° Congresso Nazionale SISEF. Firenze, Italy, 15-18 Sept (P)
- 296) De Micco V., Balzano A., Arena C., Aronne G., Cherubini P., Battipaglia G. 2014. Effect of environmental factors on tree-ring growth in Mediterranean ecosystems: past reconstructions, present assessment and future perspectives. First Workshop MEDSTRESS – COST Action FP1106 STReESS, MEDiterranean STRESS: The impact of environmental stress on Mediterranean trees WSL, Birmensdorf, Switzerland, 19-21 May (C)
- 297) Arena C., De Micco V., Cataletto P., Hay Mele B., Vitale E., Morra V., Esposito S., Turano M. 2014. Role of different doses of X-rays on *Solanum lycopersicum* 'Microtom' (tomato) plants: effects on growth, photochemical activity and DNA. Plant Biology Europe FESPB/EPSO Congress, Dublin, Ireland, 22-26 June (P)
- 298) Arena C., Romeo di Tuosto C., Hay Mele B., Cataletto P., De Micco V. 2014. Effects of heavy ions on dwarf bean plants: an overview. Plant Biology Europe FESPB/EPSO Congress, Dublin, Ireland, 22-26 June (P)
- 299) Paradiso R., Aronne G., De Micco V., Fortezza R., De Pascale S. 2014. Hydroponically Grown Soybean for Life Support in Space. Proceedings of the 65th International Astronautical Congress, Toronto, Canada, 29 Sept-3 Oct., CD-Rom (P)
- 300) De Micco V., Aronne G., Paradiso R., De Pascale S., Vitaglione P., Turano M., Arena C. 2014. Multidisciplinary approach to assess the sensitivity of dwarf tomato plants to low-LET ionising radiation. The 40th COSPAR Scientific Assembly, Moscow, Russia, 2-10 Aug. (P)
- 301) Ripullone F., Colangelo M., Battipaglia G., De Micco V., Gentilesca T., Borghetti M. 2014. Oak forest decline in Mediterranean environment: understanding the linkage of climatic drivers to physiological and dendroanatomical variations. IUFRO International World Congress "Sustaining Forests, Sustaining People, The role of research", Salt Lake City, USA, 5-11 Oct. (O)
- 302) De Micco V., Battipaglia G., Cherubini P., Aronne G. 2014. Which information can be inferred by applying quantitative wood anatomy to tree-rings to interpret IADF? Workshop "IADF network and climate changes: ecological and functional interpretation", Topic Group 5, COST Action FP1106 "STReESS", Estoril, Portugal, 24-25 Oct (C)
- 303) Battipaglia G., De Micco V., Aronne G., Cherubini P. 2014. Stable isotopes: a powerful tool to analyze IADFs. Workshop "IADF network and climate changes: ecological and functional interpretation", Topic Group 5, COST Action FP1106 "STReESS", Estoril, Portugal, 24-25 Oct (C)
- 304) Gentilesca T., Borghetti M., Colangelo M., Lapolla A., Battipaglia G., De Micco V., Ripullone F. 2014. Vulnerability assessment of Mediterranean forests to climate changes: the study case of oak forest decline in southern Italy. Designing the future of the forestry sector, II International Congress of Silviculture, Firenze, Italy, 26-29 Nov (O)
- 305) De Micco V., Aronne G. 2013. Studying various materials with different approaches to add insights on the development of secondary cell wall. In: Arena C., Battipaglia G., Cherubini P., De

- Micco V., Sass-Klaassen U. (Eds.) Proceedings of the *International Symposium on Wood Structure in Plant Biology and Ecology*, Naples, Italy, 17-20 April., p. 124 (P)
- 306) De Micco V., Battipaglia G., Aronne G., Saurer M., Cherubini P. 2013. Climate-driven Intra-Annual-Density-Fluctuations in tree-rings of Mediterranean shrubs: relations between environmental, anatomical and isotopic information. In: Arena C., Battipaglia G., Cherubini P., De Micco V., Sass-Klaassen U. (Eds.) Proceedings of the *International Symposium on Wood Structure in Plant Biology and Ecology*, Naples, Italy, 17-20 April, p. 58 (C)
- 307) Zalloni E., Balzano A., Battipaglia G., De Micco V. 2013. Fire influence on wood anatomy of *Pinus halepensis* Mill.: is there any differential response along trunk circumference? In: Arena C., Battipaglia G., Cherubini P., De Micco V., Sass-Klaassen U. (Eds.) Proceedings of the *International Symposium on Wood Structure in Plant Biology and Ecology*, Naples, Italy, 17-20 April, p. 155 (P)
- 308) Battipaglia G., De Micco V., Saurer M., Aronne G., Carcaillet C., Cherubini P. 2013. Effects of wildfires on *Pinus halepensis* Mill inferred from tree ring isotopic and anatomical analysis. In: Arena C., Battipaglia G., Cherubini P., De Micco V., Sass-Klaassen U. (Eds.) Proceedings of the *International Symposium on Wood Structure in Plant Biology and Ecology*, Naples, Italy, 17-20 April., p-69 (C)
- 309) Paradiso R., Arena C., De Pascale S., Aronne G., De Micco V. 2013. Effects of low-LET ionizing radiation on growth and development of higher plants: the case of tomato. *19th IAA Humans in Space Symposium, Cologne, Germany, 7-12 July* (P)
- 310) Arena C., Paradiso R., Aronne G., De Pascale S., De Micco V. 2013. Effects of high- and low-LET ionising radiation on plants: are plants ready for spaceflight? *19th IAA Humans in Space Symposium, Cologne, Germany, 7-12 July* (C)
- 311) Arena C., Paradiso R., Giordano M., Scognamiglio P., Aronne G., De Pascale S., De Micco V. 2013. Effect of X-rays on morphological and physiological traits in *Lycopersicon esculentum* L. *23° Congresso della Società Italiana di Ecologia, Alessandria, 10-13 sept.* p. 131 (P)
- 312) De Micco V., De Pascale S., Paradiso R., Aronne G. 2012. Effect of microgravity on different stages of higher plant life cycle. Plant Biology Congress, ISLSWG Satellite Workshop, Freiburg, 29 lugl – 3 ago. Abstracts, p. 217. (C)
- 313) De Micco V., Arena C., Aronne G. 2012. Effect of ionizing radiation on higher plants: morphogenesis and structure. Plant Biology Congress, ISLSWG Satellite Workshop, Freiburg, 29 lugl – 3 ago. Abstracts, p. 239. (C)
- 314) Arena C., De Micco V., De Maio A. 2012. Growth alteration and leaf biochemical responses in *P.vulgaris* plants exposed to different doses of ionizing radiation Plant Biology Congress, ISLSWG Satellite Workshop, Freiburg, 29 lugl – 3 ago. Abstracts, p. 240. (C)
- 315) Paradiso R., De Micco V., Aronne G., Barbieri G., De Pascale S. 2012. Soilless cultivation of soybean for Bioregenerative Life Support Systems (BLSS). Plant Biology Congress, ISLSWG Satellite Workshop, Freiburg, 29 lugl – 3 ago. Abstracts, p. 234. (C)
- 316) Vitale L., De Micco V., De Maio A., Aronne G., Arena C. 2012. Morpho-anatomical, physiological and biochemical changes in young and old leaves of *Portulacaria afra* Jacq. (L.) exposed to water stress and re-watering. Plant Biology Congress, ISLSWG Satellite Workshop, Freiburg, 29 lugl – 3 ago. Abstracts, p. 441. (P)
- 317) Battipaglia G., De Micco V., Fournier T., Aronne G., Carcaillet C. 2012. Effects of wildfires on *Pinus halepensis* Mill physiological processes inferred from tree-rings isotopic and anatomical analysis. JESIUM 2012, Leipzig, 2-7 sept. p. 49. (C)
- 318) Arena C., De Micco V., De Maio A., Aronne G., Vitale L. 2012. A multidisciplinary approach in the study of CAM metabolism in *Portulacaria afra* Jacq (L.). *22° Congresso della Società Italiana di Ecologia, Alessandria, 10-13 sept.* p. 102 (P)

- 319) De Micco V., Arena C., Vitale L., Aronne G. 2012. Effect of water stress on anatomical and cytological traits in leaves of different ages of *Portulacaria afra* (L.) Jacq. *Riassunti del 107° Congresso della Società Botanica Italiana*. Benevento, 18-22 sept. p. 126 (P)
- 320) De Micco V., Arena C., De Maio A., Pugliese MG., Aronne G. 2012. Response of *Phaseolus vulgaris* L. plants to low-LET ionizing radiation: leaf anatomy and cytology. Proceedings of the 63rd *International Astronautical Congress*, Naples, Italy, 1-5 Oct., CD-Rom. ISSN 1995-6258 (P)
- 321) De Micco V., Paradiso R., Aronne G., Fogliano V., De Pascale S. 2012. Agronomical and nutritional characterization of soybean for BLSSs: lessons learned from the MELISSA Project – Food characterization Phase I. Proceedings of the 63rd *International Astronautical Congress*, Naples, Italy, 1-5 Oct., CD-Rom. ISSN 1995-6258 (P)
- 322) Arena C., De Micco V., Aronne G., Pugliese MG., Virzo De Santo A., De Maio A. 2012. Response of *Phaseolus vulgaris* L. plants to low-let ionizing radiation: growth and oxidative stress. Proceedings of the 63rd *International Astronautical Congress*, Naples, Italy, 1-5 Oct., CD-Rom. ISSN 1995-6258 (C)
- 323) Battipaglia G., De Micco V., Aronne G., Cherubini P. 2011. Hidden phenology in wood: growth dynamics in Mediterranean trees and shrubs in response to climate. *EGU General Assembly*, Vienna, 3-8 April, Geophysical Research Abstracts, Vol. 13, EGU2011-6972. (P)
- 324) Aversano R., Caruso I., Fasano C., De Micco V., Aronne G., Frusciante L., Carputo D. 2011. Consequences of autopolyploidization in potato: putting -omics tools to work. The 18th Triennial Conference of the European Association for Potato Research. Oulu, Finland, 24-29 Jul. (P)
- 325) Battipaglia G., De Micco V., Aronne G., Cherubini P. 2011. Ecological and Climatological information inferred from intra annual features of tree rings in two Mediterranean species. In: Cherubini P. (Ed.) Eurodendro Conference, Sep 19- Sep 23 2011, Hengelberg, Swiss Federal Institute for Forest, Snow and Landscape Research, p 63 (P)
- 326) De Micco V., Battipaglia G., Aronne G., Cherubini P. 2011. IADFs in tree-rings of *Erica arborea* L. (Ericaceae): tools for the interpretation of wood growth dynamics. *Atti del 106° Congresso della Società Botanica Italiana*. Genova, 21-23 sept., Bollettino dei Musei e degli Istituti Biologici dell'Università di Genova, p. 87. ISSN 0373-4110 (P)
- 327) Aronne G., Buonanno M., De Micco V., Giovanetti M., Arena C. 2011. Effect of environmental factors on morpho-functional traits of *Primula palinuri* Petagna (Primulaceae). *Atti del 106° Congresso della Società Botanica Italiana*. Genova, 21-23 sept., Bollettino dei Musei e degli Istituti Biologici dell'Università di Genova, p. 174. ISSN 0373-4110 (P)
- 328) Aronne G., Giovanetti M., De Micco V., Paduano A., Sacchi R. 2011. Volatile compounds as botanical markers of honey. *Atti del 106° Congresso della Società Botanica Italiana*. Genova, 21-23 sept., Bollettino dei Musei e degli Istituti Biologici dell'Università di Genova, p. 110. ISSN 0373-4110 (P)
- 329) Battipaglia G., De Micco V., Fournier T., Saurer M., Aronne G., Carcaillet C. 2011. Post-fire ecophysiology and anatomical processes: *P. halepensis* strategies inferred from $\delta^{13}C$ and QWA. 12th European Ecological Federation Congress, Avila (Spain), 25-29 sept. (P)
- 330) De Micco V., Battipaglia G., Aronne G., Cherubini P. 2011. IADFs in Mediterranean species: a new interpretative model to gain ecological and climatological information. 12th European Ecological Federation Congress, Avila (Spain), 25-29 sept. (C)
- 331) De Micco V., Battipaglia G., Aronne G., Cherubini P. 2011. Dendrochronological and anatomical indicators of the effect of environmental factors on wood growth in *Erica arborea* L. In: Gianguzza P., Chemello R. I limiti dello sviluppo: beni e servizi eco sistemici, impatti e sviluppo. Società Italiana di Ecologia, Parma, Italy. 21° *Congresso della Società Italiana di*

Ecologia, Palermo, 3-6 oct. pp. 157-158 (P)

- 332) Battipaglia G., De Micco V., Fournier T., Saurer M., Aronne G., Carcaillet C. 2011. Effects of wildfires on *Pinus halepensis* Mill ecophysiology inferred from tree-rings, isotopic and anatomical analyses. In: Gianguzza P., Chemello R. I limiti dello sviluppo: beni e servizi eco sistemici, impatti e sviluppo. Società Italiana di Ecologia, Parma, Italy. 21° Congresso della Società Italiana di Ecologia, Palermo, 3-6 oct. p. 19 (C)
- 333) Vitale L., De Micco V., Aronne G., Virzo De Santo A., Arena C. 2011. Induction of CAM metabolism in young and mature leaves of *Portulacaria afra* (L.) Jacq. under water stress and recovery. In: Gianguzza P., Chemello R. I limiti dello sviluppo: beni e servizi eco sistemici, impatti e sviluppo. Società Italiana di Ecologia, Parma, Italy. 21° Congresso della Società Italiana di Ecologia, Palermo, 3-6 oct. p. 268 (P)
- 334) Arena C., De Micco V., Mistretta C., Aronne G., Pugliese M., Virzo A., De Maio A. 2011. Effects of X-rays on *Phaseolus vulgaris*. II. Developmental changes and biochemical responses. In: Gianguzza P., Chemello R. I limiti dello sviluppo: beni e servizi eco sistemici, impatti e sviluppo. Società Italiana di Ecologia, Parma, Italy. 21° Congresso della Società Italiana di Ecologia, Palermo, 3-6 oct. p. 129 (P)
- 335) Fasano C., Caruso I., Aronne G., Aversano R., Dal Piaz F., De Micco V., Garramone R., Lepore L., Scognamiglio N., Carputo D. 2010. Polyploiditation effects on transcriptomic, metabolic and traits in synthetic tetraploids of two wild Solanums. 18th Triennial Conference of the E.A.P.R. Wageningen (The Netherlands), 27-30 Jun. (P)
- 336) De Micco V., Battipaglia G., Aronne G., Cherubini P. 2010. Phenology in Mediterranean wood unravelled by the analysis of Intra-Annual-Density-Fluctuations. *Atti del 105° Congresso della Società Botanica Italiana*. Milano, 25-28 aug., p. 67 (P)
- 337) De Micco V., Arena C., Vitale L., Aronne G. 2010. Leaf anatomy and leaf functional traits in *Portulacaria afra* (L.) Jacq. subjected to water stress inducing CAM metabolism. *Atti del 105° Congresso della Società Botanica Italiana*. Milano, 25-28 aug., p. 54 (P)
- 338) Aronne G., Buonanno M., De Micco V. 2010. Studi di autoecologia per la conservazione di *Primula palinuri* Petagna (Primulaceae). *Atti del 105° Congresso della Società Botanica Italiana*. Milano, 25-28 aug., p. 124 (P)
- 339) Bertoli A., Leonardi M., Doveri S., Pistelli L., Fambrini M., Salvini M., Pugliesi C., Aronne G., De Micco V. 2010. Polline di girasole (*Helianthus annuus* L.) selezionato per il diverso colore: controllo genetico del fenotipo, analisi morfo-funzionali e caratterizzazione delle sostanze volatili. *Atti del 105° Congresso della Società Botanica Italiana*. Milano, 25-28 aug., p. 57 (P)
- 340) Caruso I., Scognamiglio N., Aronne G., De Micco V., Carputo D. 2010. Comparative anatomy studies in leaves of diploid and induced autotetraploids of potato species. *Proceedings of the 54th Italian Society of Agricultural Genetics Annual Congress*. Matera, 27/30 sept. ISBN 978-88-900622-9-2 (P)
- 341) Vitale L., Arena C., De Micco V., Aronne G., Virzo De Santo A. 2010. CAM metabolism and morpho-cytological changes in *Portulacaria afra* (L.) Jacq. leaves under water stress. 20° Congresso della Società Italiana di Ecologia, Roma, 27-30 sept. SI-E atti 34, Vol. 2; p. 62. ISSN: 1127-5006. (P)
- 342) Battipaglia G., De Micco V., Aronne G., Cherubini P. 2010. Which environmental information can be inferred from a multidisciplinary analysis of density fluctuations in Mediterranean woods? 20° Congresso della Società Italiana di Ecologia, Roma, 27-30 sept. SI-E atti 34, Vol. 1; p. 84. ISSN: 1127-5006. (C)
- 343) De Micco V., Arena C., Vitale L., Aronne G., Virzo De Santo A. 2009. Photosynthetic regulation and morphological adaptation in *C. incanus* plants under summer drought. 19° Congresso della Società Italiana di Ecologia, Bolzano, 15-18 sept. "Dalle vette alpine alle

- profondità del mare". Programma e Riassunti a cura di Roberta Bottarin, Uta Schirpke, Ulrike Tappeiner; p. 111. ISBN 9788888906577 (P)
- 344) De Micco V., Aronne G. 2009. Reconstruction of cambial phenology of *Cistus incanus* L. from the analysis of seasonal dimorphism in branch morphology and wood anatomy. *Atti del 104° Congresso della Società Botanica Italiana*. Campobasso, 16-19 sept., p. 73 (P)
- 345) De Micco V., Saurer M., Tognetti R., Cherubini P., Aronne G. 2009. Anatomical and isotopic characterisation of Intra-Annual-Density-Fluctuations (IADFs) in tree-rings of *Pinus pinaster* Ait as a key to interpret plant phenology. *Atti del 104° Congresso della Società Botanica Italiana*. Campobasso, 16-19 sept., p. 74 (P)
- 346) De Micco V., Arena C., Vitale L., Aronne G., Virzo De Santo A. 2009. Anatomical and eco-physiological changes in *Cistus incanus* L. plants in response to summer drought. *Atti del 104° Congresso della Società Botanica Italiana*. Campobasso, 16-19 sept., p. 199 (P)
- 347) Caruso I., Aronne G., Dal Piaz F., De Micco V., Fasano C., Garramone R., Lepore L., Scognamiglio N., Aversano R. 2009. Metabolite profiles and morpho-anatomical traits in leaves of potato oryzalin induced polyploids. *Proceedings of the 53rd Italian Society of Agricultural Genetics Annual Congress*. Torino, 16/19 sept. ISBN 978-88-900622-9-2 (P)
- 348) Battipaglia G., Linke P., De Micco V., Brand W.A., Aronne G., Cherubini P. 2009. Assessing climate sensitivity of Mediterranean plants by combining dendro-ecology, isotope composition and QWA". Annual Meeting of the German Association of the Stable Isotope Research (GASIR), Postdam, Germany, 5-7 October (P)
- 349) Caruso I., Aronne G., Aversano R., Dal Piaz F., De Micco V., Fasano C., Garramone R., Lepore L., Scognamiglio N., Carputo D. 2009. Metabolic and morpho-anatomical analysis in synthetic autotetraploids of wild potato species. 1° Workshop e 4° Corso Internazionale "Avances en Ciencia y Tecnologia de Recursos Naturales. Temuco, Chile, 23-25 nov, p. 115 (P)
- 350) De Pascale S., Maggio A., Aronne G., De Micco V., Colla G., Battistelli A. 2008. Agrobiology for Long-Term Space Missions, from SGH to the Future. *III Conferenza Internazionale Agrospazio Tecnologie Dual-Use*. Sperlonga, Italy, 22-23 May (C)
- 351) De Micco V. 2008. Quantitative wood anatomy in seedlings and tree rings. *Wood Matters – A celebration of the work of John Barnett*. The Linnean Society of London, Burlington House, London, UK, 29-30 May (C)
- 352) De Micco V., Arena C., Aronne G., Virzo De Santo A. 2008. Anatomy and eco-physiology of leaves and twigs of *Cistus incanus* L.: adaptive strategies to the environmental constraints of the Mediterranean ecosystems. *SEB (Society for Experimental Biology) Annual Meeting*, Marseille, France, 6-10 July (P)
- 353) Aronne G., De Micco V., Barbi S. 2008. Hypocotyl features of *Primula palinuri* Petagna (Primulaceae) an endemic and rare species of the Southern Tyrrhenian Coast. *18° Congresso della Società Italiana di Ecologia*, Parma, 1-3 Sept., p. 61 (P)
- 354) Aronne G., De Micco V. 2008. Effect of different watering regimes on anatomical features of fine roots in the Mediterranean *Phillyrea latifolia* L. (Oleaceae). *18° Congresso della Società Italiana di Ecologia*, Parma, 1-3 Sept., p. 124 (P)
- 355) Arena C., De Micco V., Vitale L., Aronne G., Virzo De Santo A. 2008. Photochemical activity and anatomical modifications in plant of *Cistus salvifolius* L. Subjected to cold. *18° Congresso della Società Italiana di Ecologia*, Parma, 1-3 Sept., p. 123 (P)
- 356) Aronne G., Giovanetti M., Guarracino M., De Micco V. 2008. Are wind pollinated species an essential source of pollen for honeybee? EurBee3, *3rd European Conference of Apidology*, Belfast (UK), 8-11 Sept. (P)
- 357) De Micco V., Arena C., Aronne G., Virzo De Santo A. 2008. Modificazioni strutturali delle

- foglie ed eco-fisiologia di *Cistus incanus* L. subsp. *incanus* in risposta a variazioni di temperatura. In: Spampinato G., Signorino G. (Eds.) 103° Congresso della Società Botanica Italiana, Reggio Calabria, 17-19 sept., Kalit Editrice, Reggio Calabria, Italy, ISBN 9788890348327. p. 221 (P)
- 358) De Micco V., Aronne G. 2008. Architettura e anatomia delle radici di piante di *Rumex scutatus* L. cresciute in piano e in pendio. In: Spampinato G., Signorino G. (Eds.) 103° Congresso della Società Botanica Italiana, Reggio Calabria, 17-19 sept., Kalit Editrice, Reggio Calabria, Italy, ISBN 9788890348327. p. 142 (P)
- 359) De Micco V., Aronne G. 2007. Digital Image Analysis of xylem cross sections for anatomical parametrization and functional interpretations. *2nd Workshop on Quantitative Wood Anatomy*, Birmensdorf, Switzerland, 29-31 May (C)
- 360) De Micco V., Aronne G., Baas P. 2007. Adattamenti all'aridità del legno giovanile e maturo di specie mediterranee rivelati con l'analisi anatomica quantitativa. *Atti del 102° Congresso della Società Botanica Italiana*. Palermo, 26-29 sept., p. 260 (P)
- 361) Barbi S., Aronne G., De Micco V. 2007. Successo riproduttivo, germinazione dei semi e strategie di attecchimento delle plantule di *Primula palinuri* Petagna (*Primulaceae*). *Atti del 102° Congresso della Società Botanica Italiana*. Palermo, 26-29 sept., p. 255 (C)
- 362) De Micco V., Ruel K., Joseleau J-P, Aronne G., 2006. Identificazione e localizzazione dei diversi costituenti molecolari nella parete cellulare degli elementi xilematici delle piante superiori. *Atti del 101° Congresso della Società Botanica Italiana*. Caserta, 27-29 sept., p. 73 (P)
- 363) De Micco V., Aronne G., Scala M., Joseleau J-P, Ruel K. 2006. Anatomia e citologia dello xilema di germinelli di soia cresciuti nello Spazio. *Atti del 101° Congresso della Società Botanica Italiana*. Caserta, 27-29 sept., p. 74 (P)
- 364) Chevalier-Billosta V., De Micco V., Cochaux A., Joseleau J-P, Katia Ruel K. 2006. Influence of ultrastructure on pulp fibres mechanical properties. *5th Plant Biomechanics Conference*, Stockholm, Sweden, 28 Aug. – 1 Sept. (C)
- 365) De Micco V., Aronne G., Scala M. 2006. Biometric anatomy of seedlings developed onboard of Foton M2 in an automatic system supporting growth. *Proceedings of the 57th International Astronautical Congress*, Valencia, Spain, 2 -6 Ottobre, CD-Rom (C)
- 366) De Micco V., Aronne G., Scala M., Eduardo P., Haladich M., Castagnolo D., Fortezza. R. 2005. SAYSOY – Space Apparatus to Yield SOYsprouts: Growing Sprouts in a Growth Support System for Experiments on Unmanned Platforms in Space. *26th Annual International Gravitational Physiology Meeting*, Cologne, 26 June – 1 July, pp. 294-295 (C)
- 367) De Micco V., Castagnolo D., Fortezza R., Eduardo P., Scala M., Haladich M., Aronne G. 2005. Automatic system for seedling growth onboard of unmanned spacecrafts. *Proceedings of the 56th International Astronautical Congress*, Fukuoka, Japan, 17 – 21 Oct., CD-Rom (C)
- 368) De Micco V., Scala M., Aronne G. 2004. Metodologia per analizzare l'accumulo dell'olio nelle drupe di olivo durante la maturazione. *Atti delle VII Giornate Scientifiche SOI*. Napoli, 4 – 6 Maggio, p. 319. (C)
- 369) Scala M. De Micco V. Aronne G. 2004. Effetto di temperatura e umidità sulla vitalità del polline di specie ortive sotto serra. *Atti delle VII Giornate Scientifiche SOI*. Napoli, , 4 – 6 Maggio, p. 163. (P)
- 370) De Micco V. & Aronne G. 2004. Xylem anatomy and chemical composition of cell wall in *Pistacia chinensis* L.: data combination for functional interpretation. *Proceedings of the X Cell Wall meeting*, Sorrento (Italy) Aug. 29 – Sept. 3 p. 108 (P)
- 371) De Micco V. & Aronne G. 2004. Shoot biometry, tissues and allometric relations in shrubs and trees of a Mediterranean ecosystem in Southern Italy. *Proceedings of the XI OPTIMA*

Meeting, Belgrade Sept 5-11. p. 127 (P)

- 372) Aronne G., De Micco V., Scala M. 2004. Multivariate analysis of pollen spectra to identify geographical origin of honey. *Proceedings of the European Conference on Apidology*, Udine Sept. 20-24, p. 133 (P)
- 373) De Micco V., Scala M., Aronne G. 2004. Analisi d'immagine digitale e biometria istologica per valutare l'effetto della microgravità simulata sui germinelli di soia. *Atti del 99° Congresso della Società Botanica Italiana*, Torino, 22-24 settembre (P)
- 374) De Micco V., Scala M., Aronne G. 2004. Evaluation of the effect of clinostat rotation on pollen germination and tube development as a tool for selection of plants in Space. *Proceedings of the 55th International Astronautical Congress*, Vancouver, Oct. 4 – 8 (C)
- 375) De Micco V. & Aronne G. 2004. Xylem anatomy and lignin composition of cell walls in shoots of *Rhamnus californica* L. *Proceedings of the International Symposium on Wood Sciences*, Montpellier, 24 – 29 Oct. pp. 15 – 16 (P)
- 376) De Micco V., Toraldo G., Aronne G. 2004. A new method to classify and measure different types of xylem elements on cross sections. *Proceedings of the International Symposium on Wood Sciences*, Montpellier, Oct. 24 – 29, p. 15 (P)
- 377) Aronne G. & De Micco V. 2004. Morphological and anatomical features of the root system of *Rumex scutatus* L. (Polygonaceae): adaptive strategies to grow on uneven substrates of the Vesuvius volcano. *Proceedings of the Workshop on Woody root processes under a changing environment*, UE – COST E38, Thessaloniki, 27 – 30 Oct. p. 53 (P)
- 378) Aronne G., De Micco V., Adamo R., Romano A., Paduano A., Sacchi R. 2003. Caratteristiche anatomiche e chimiche di olive da mensa subito dopo la raccolta e a seguito di trattamenti di deamarizzazione. *Convegno Post-raccolta: innovazione, qualità e controllo*, Fisciano (Salerno), 25-26 Febbraio, CD-Rom (C)
- 379) Aronne G., Mazzone P., De Micco V., Scala M., Rago A. 2003. L'impollinazione in agricoltura biologica: un necessario processo naturale da promuovere ad operazione culturale. *2° Workshop sull'Agricoltura Biologica*, Portici (Napoli), 9-10 Maggio (C)
- 380) De Micco V., Anterola AM., Lewis NG., Aronne G. 2003. Microdissezione laser di cellule xilematiche per l'analisi dell'espressione genica. *Giornate Scientifiche del Polo delle Scienze e delle Tecnologie per la Vita*, Napoli, 5-6 Giugno, p. 158 (P)
- 381) Scala M., De Micco V., Aronne G. 2003. Impollinazione obbligata in coltura biologica: effetto integrato di umidità e temperatura sulla vitalità del polline di fragola. *Atti del XXXV Convegno della Società Italiana di Agronomia*. Portici (Napoli), 16-18 settembre (C)
- 382) Chiaffitelli V., Amato M., De Micco V., Aronne G. 2003. Caratteristiche meccaniche ed anatomiche di radici di *Lygeum* spp. sottoposte a diverse situazioni di stress. *Atti del XXXV Convegno della Società Italiana di Agronomia*. Portici (Napoli), 16-18 settembre (C)
- 383) Aronne G., De Micco V., Romano R., Scala, M. 2003. Effetto della temperatura e dell'umidità relativa sulla germinazione del polline di noce (*Juglans regia* L.). *Atti del 98° Congresso della Società Botanica Italiana*. Catania, 24-26 settembre, p. 123 (P)
- 384) Aronne G. & De Micco V. 2003. Fasi di sviluppo dell'ipocotile in *Myrtus communis* L.: osservazioni morfo-anatomiche e funzionali. *Atti del 98° Congresso della Società Botanica Italiana*. Catania, 24-26 settembre, p. 195 (P)
- 385) De Micco V., Aronne G., Lewis NG. 2003. Differenziamento dello xilema e deposizione della lignina nei rami di *Cistus ladanifer* L. *Atti del 98° Congresso della Società Botanica Italiana* Catania, 24-26 settembre, p. 114 (P)

- 386) De Micco V., Rocco L., De Pascale S., Aronne G. 2003. Effect of simulated microgravity on seedling development and vascular differentiation of soy. *Proceedings of the 54th International Astronautical Congress*, Bremen, 28 Sept – 3 Oct, CD-Rom (C)
- 387) Aronne G. & De Micco V. 2002. Habitus e strategie riproduttive delle specie della macchia mediterranea: sopravvivenza o adattamento ai cambiamenti ambientali? *Meeting del Gruppo di Ecologia della Società Botanica Italiana*, Bologna, 25 Gennaio (C)
- 388) Aronne G., De Micco V., De Pascale S. 2002. The effect of simulated microgravity on seed germination and seedling anatomy of *Phaseolus vulgaris* L. *Proceedings of the 8th European Symposium on Life Sciences Research in Space, 23rd Annual International Gravitational Physiology Meeting*, Karolinska Institutet, Stockholm, Sweden, 2-7 June (ESA SP-501) (P)
- 389) De Micco V. & Aronne G. 2002. Anatomia radicale di quattro specie arbustive della macchia mediterranea: un approccio quantitativo. *Giornate Scientifiche del Polo delle Scienze e delle Tecnologie per la Vita*, Naples, 6-7 Giugno, p. 487 (P)
- 390) Aronne G. & De Micco V. 2002. - Strategie di adattamento ai cambiamenti climatici delle specie arbustive della macchia Mediterranea. Prima conferenza Nazionale *International Geosphere-Biosphere Programme (IGBP)*, p. 82-83 (P)
- 391) Aronne G., De Micco V., Ariaudo P., De Pascale S. 2001. Effetto del clinostato uni-assiale sulla germinazione e sull'anatomia radicale di *Phaseolus vulgaris* L. *Workshop nazionale "La scienza e la tecnologica a bordo della Stazione Spaziale Internazionale"*. Torino, 16-18 Maggio (P)
- 392) Aronne G., De Micco V., Tattini M. 2000. Gli effetti dello stress da carenza idrica sull'anatomia radicale di *Phillyrea latifolia* L.: una nuova metodologia di indagine. *Atti del 95° Congresso della Società Botanica Italiana*. Messina, 28-30 settembre, p. 118 (P)
- 393) Aronne G., De Micco V., Martínez-Pallé, E. 2000. Strategie di adattamento del ciclo vitale di *Cistus incanus* L. all'ambiente mediterraneo. *Atti del 95° Congresso della Società Botanica Italiana*, Messina, 28-30 Settembre, p. 33 (C)

Oral Communications as Invited Speaker in National and International Congresses

- 394) De Micco V., 2023. Functional anatomical traits to assess the impact of environmental changes on species vulnerability and wood properties. 2023 World Wood Day Online Symposium & The Fifth IUFRO Forest Products Culture Colloquium. 21-22 March
- 395) De Micco V., 2019. Wood formation and functional anatomical traits in tree rings of Mediterranean species. Birmendofer Tree Ring Lectures: Tree-Ring Summer Meeting "Wood anatomy in tree rings. Recent advances and new perspectives", WSL, Birmendorf (Switzerland), 18 September
- 396) De Micco V., Aronne G., Arena C., De Pascale S. 2016. Plant growth in Space: constraints and challenges. *European Mars Society Conference*. Bergamo (Italy), 14-16 October
- 397) De Pascale S., Paradiso R., Aronne G., De Micco V. 2015. Plant cultivation systems for Bioregenerative Life Support Systems (BLSSs) in Space. *European Space Expo*. Milano, Italy, 18 September - 4 October.
- 398) Micco V., Aronne G., Balzano A., Zalloni E., Cherubini P., Cufar C., Battipaglia G. 2015. Climate-driven Intra-annual Density Fluctuations in mediterranean tree rings: sign of stress and adaptation to environmental changes. *110° Congresso della Società Botanica Italiana – II International Plant Science Conference*, Pavia, Italy, 14-18 September
- 399) Cherubini P., Battipaglia G., De Micco V., Aronne G., Balzano A., Campelo F., Copenheaver C., De Luis M., Gärtner H., Gea-Izquierdo G., Nabais C., Saurer M., Schoch W., Zalloni E. 2015.

- From false rings to intra-annual density fluctuations in mediterranean trees and shrubs: beyond the annual resolution of physiological, ecological and climatic signals. *TRACE 2015 - Tree Rings in Archaeology, Climatology and Ecology*, Sevilla, Spain, 20-23 May, p.
- 400) Aronne G., Buonanno M., De Micco V. 2014. From cold mountains to warm coastal cliffs: insights for the future of a *Primula* species. *109° Congresso della Società Botanica Italiana – International Plant Science Conference*, Florence, Italy, 2 - 5 September
- 401) De Pascale S., Paradiso R., De Micco V., Aronne G. 2014. The growth of higher plants in space greenhouses: cultivation strategies to minimise plant sensitivity to space stressors and maximise resource use efficiency. *6th International Workshop Agrospace 2014*. Analogue testing. The first step towards Space. Sperlonga, Italy, 22-23 May. PMI Live – Le imprese al centro dell'economia, pp. 13-14
- 402) Paradiso R., Aronne G., De Micco V., De Pascale S. 2014. Hydroponic cultivation of soybean for Bioregenerative Life Support Systems (BLSSs). *The 40th COSPAR Scientific Assembly*, Moscow, Russia, 2-10 Aug.
- 403) Cherubini P., Battipaglia G., BrandWA., De Micco V., Gea-Izquierdo G., Saurer M, Tognetti R. 2013. Mediterranean tree rings: the power, state of the art, and recent advances. In: Arena C., Battipaglia G., Cherubini P., De Micco V., Sass-Klaassen U. (Eds.) *Proceedings of the International Symposium on Wood Structure in Plant Biology and Ecology*, Naples, Italy, 17-20 April, p. 23.
- 404) De Micco V. 2011. Plant growth and reproduction in altered gravity. *International conference Living the Space – The Space a human habitat*. Naples, 1-2 dec.
- 405) Aronne G., De Micco V. 2010. Research in Plant Biology: bringing results from Earth to Space and back. *4th International Workshop Agrospace 2010*. Controlled Environment Agriculture from Earth to Space and back. Sperlonga, Italy, 20-21 May PMI Live – Le imprese al centro dell'economia, pp. 24
- 406) Giovanetti M., De Micco V., Aronne G. 2010. Diving as a bee: flower morphology and function in the perspective of insects. *Atti del 105° Congresso della Società Botanica Italiana*. Milano, 25-28 aug., p. 25.
- 407) De Micco V., Battipaglia G. 2009. Multidisciplinary approach to interpret plant phenology: analysis of intra-annual variability of tree-rings. *Workshop on Phenology and Climate Change*. Rieti, Italy, 9 July.
- 408) Aronne G., De Micco V. 2009. La conservazione delle specie vegetali attraverso lo studio della loro biologia. *Atti del 104° Congresso della Società Botanica Italiana*. Campobasso, Italy, 16-19 sept., p. 22.

Naples, October 2023

VERONICA DE MICCO

I authorize the use of my personal data in accordance with the current Italian laws.