

**PUBBLICAZIONI DOTTORANDI XXXIV CICLO (2018-2021)**  
**“BIODIVERSITÀ, AGRICOLTURA E AMBIENTE”**

**Alberti Marcio Alexandre**

1. **Alberti, M.A.**, Blanco, I., Vox, G., Da Silva, L.P., Schettini, E. (2020) Proposal of a set of indicators for sustainability evaluation of food production in an urban context. *WIT Transactions on Ecology and the Environment*, 243, pp. 97-108. DOI: 10.1007/978-3-030-39299-4\_40
2. Liano, E., Fuina, S., **Alberti, M.A.**, Scarascia-Mugnozza, G. (2020) Enhancement of the Roman Bridge of Canosa in the Ofanto Valley Rural Landscape. *Lecture Notes in Civil Engineering*, 67, pp. 351-359. DOI: 10.2495/UA200091

**Ben Slimen Amani**

1. Elbeaino, T., Chammem, H., Alsaheili, Z., **Ben Slimen, A.**, Digiario, M. (2019). Development of RT-PCR assays for the detection and the resultant phylogenetic analysis of four grapevine vitiviruses based on the coat protein sequences. *Journal of Virological Methods*, 273, November 2019, art. n. 113712. DOI: 10.1016/j.jviromet.2019.113712

**D'Este Marina**

1. **D'Este, M.**, Giannico, V., Laforteza, R., Sanesi, G., Elia, M. (2021). The wildland-urban interface map of Italy: A nationwide dataset for wildfire risk management. *Data in Brief*. Volume 38. DOI: 10.1016/j.dib.2021.107427.
2. Spano, G., Elia, M., Cappelluti, O., (...), **D'Este, M.**, Laforteza, R., Sanesi, G. (2021). Is experience the best teacher? Knowledge, perceptions, and awareness of wildfire risk. *International Journal of Environmental Research and Public Health*. Volume 18, Issue 16. DOI: 10.3390/ijerph1816838.
3. Argentiero, I., Ricci, G.F., Elia, M., **D'Este M.**, (...), Gentile, F., Sanesi, G. (2021). Combining methods to estimate post-fire soil erosion using remote sensing data. *Forests*. Volume 12, Issue 8. DOI: 10.3390/f12081105.
4. Spano, G., **D'Este, M.**, Giannico, V., (...), Laforteza, R., Sanesi, G. (2021). Association between indoor-outdoor green features and psychological health during the COVID-19 lockdown in Italy: A cross-sectional nationwide study. *Urban Forestry and Urban Greening*. Volume 6. DOI: 10.1016/j.ufug.2021.127156.
5. **D'este, M.**, Elia, M., Giannico, V., (...), Laforteza, R., Sanesi, G. (2021). Machine learning techniques for fine dead fuel load estimation using multi-source remote sensing data. *Remote Sensing*. Volume 13, Issue 9. DOI: 10.3390/rs13091658.
6. Giannico, V., Spano, G., Elia, M., **D'Este, M.**, Sanesi, G., Laforteza, R. (2021) Green spaces, quality of life, and citizen perception in European cities. *Environmental Research*, 196, art. n. 110922. DOI: 10.1016/j.envres.2021.110922

7. **D'Este, M.**, Ganga, A., Elia, M., Lovreglio, R., Giannico, V., Spano, G., (...), Sanesi, G. (2020). Modeling fire ignition probability and frequency using Hurdle models: a cross-regional study in Southern Europe. *Ecological Processes*, 9(1), 1-14. DOI: 10.1186/s13717-020-00263-4
8. Elia, M., **D'Este, M.**, Ascoli, D., Giannico, V., Spano, G., Ganga, A., (...), Sanesi, G. (2020). Estimating the probability of wildfire occurrence in Mediterranean landscapes using Artificial Neural Networks. *Environmental Impact Assessment Review*, 85, 106474. DOI: 10.1016/j.eiar.2020.106474
9. Spano, G., **D'Este, M.**, Giannico, V., Carrus, G., Elia, M., Laforteza, R., (...), Sanesi, G. (2020). Are Community Gardening and Horticultural Interventions Beneficial for Psychosocial Well-Being? A Meta-Analysis. *International Journal of Environmental Research and Public Health*, 17 (10), 3584. DOI: 10.3390/ijerph17103584

### **Frem Michel**

1. El Handi, K., Hafidi, M., Sabri, M., **Frem M.**, (...), Kubaa, R.A., Achbani, E.H. (2022). Continuous Pest Surveillance and Monitoring Constitute a Tool for Sustainable Agriculture: Case of *Xylella fastidiosa* in Morocco. *Sustainability (Switzerland)*. Volume 14, Issue 3. DOI: 10.3390/su14031485.
2. **Frem, M.**, Fucilli, V., Nigro, F., (...), Bozzo, F., Choueiri, E. (2021). The potential direct economic impact and private management costs of an invasive alien species: *Xylella fastidiosa* on Lebanese wine grapes. *NeoBiota*. Volume 70, Pages 43 – 67. DOI: 10.3897/neobiota.70.72280.
3. Cardone, G., Digiaro, M., Djelouah, K., **Frem M.**, (...), Rota, C., Yaseen, T. (2021). Potential socio-economic impact of *Xylella fastidiosa* in the Near East and North Africa (NENA): risk of introduction and spread, risk perception and socio-economic effects. *New Medit, A Mediterranean Journal of Economics, Agriculture and Environment*, n. 2 DOI: 10.30682/nm2102c.
4. **Frem, M.**, Santeramo, F.G., Lamonaca, E., (...), Bozzo, F., Fucilli, V. (2021). Landscape restoration due to *Xylella fastidiosa* invasion in Italy: Assessing the hypothetical public's preferences. *Neo Biota* 66: 31-54. DOI: 10.3897/neobiota66.67648.
5. **Frem, M.**, Chapman, D., Fucilli, V., Choueiri, E., El Moujabber, M., La Notte, P., Nigro, F. (2020). *Xylella fastidiosa* invasion of new countries in Europe, the Middle East and North Africa: Ranking the potential exposure scenarios. *NeoBiota*, 59, pp. 77-97. DOI: 10.3897/NEOBIOTA.59.53208
6. **Frem, M.**, El Hachem, N., Zgheib, M., Nandwani, D. Constraints in apple chains in Lebanon. (2019). *Acta Horticulturae*, 1258, pp. 93-98. DOI: 10.17660/ActaHortic.2019.1258.13

### **Gadaleta Susanna**

1. Falek, W., Sion, S., Montemurro, C., **Gadaleta S.**, (...), Khelifi, D., Miazzi, M.M. (2022). Molecular diversity and ecogeographic distribution of algerian wild olives (*Olea europaea*

subsp. europaea var. sylvestris). *Scientia Agricola* Open Access Volume 79, Issue 3. DOI: 10.1590/1678-992X-2020-0308.

2. Sion, S., Savoia, M.A., **Gadaleta, S.**, (...), Montemurro, C., Miazzi, M.M. (2021). How to choose a good marker to analyze the olive germplasm (*Olea europaea* L.) and derived products. *Genes* Open Access Volume 12, Issue 10. DOI: 10.3390/genes12101474.
3. Sabetta, W., Mascio, I., Squeo, G., **Gadaleta S.**, (...), Caponio, F., Montemurro, C. (2021). Bioactive potential of minor Italian olive genotypes from Apulia, Sardinia and Abruzzo. *Foods* Open Access Volume 10, Issue 6. DOI: 10.3390/foods10061371.
4. Deddabi, O.S., Montemurro, C., Maachia, S.B., Amar, F.B., Fanelli, V., **Gadaleta, S.**, El Riachy, M., Chegade, A., Siblini, M., Boucheffa, S., Miazzi, M.M. (2020). A hot spot of olive biodiversity in the Tunisian oasis of Degache. *Diversity*, 12 (9), art. no. 358. DOI: 10.3390/D12090358
5. Miazzi, M.M., D'Agostino, N., **Gadaleta, S.**, Di Rienzo, V., Fanelli, V., Sabetta, W., Montemurro, C., Taranto, F. (2019). Genotyping-by-sequencing-derived single-nucleotide polymorphism catalog from a grapevine (*Vitis vinifera* L.) germplasm collection that includes the most representative Apulian autochthonous cultivars. *Acta Horticulturae*, 1248, pp. 69-75. DOI: 10.17660/ActaHortic.2019.1248.10
6. Spadoni, A., Sion, S., **Gadaleta, S.**, Savoia, M.A., Piarulli, L., Fanelli, V., Rienzo, V.D., Taranto, F., Miazzi, M.M., Montemurro, C., Sabetta, W. (2019). A simple and rapid method for genomic DNA extraction and microsatellite analysis in tree plants. *Journal of Agricultural Science and Technology*, 21 (5), pp. 1215-1226.
7. Piarulli, L., Savoia, M.A., Taranto, F., D'Agostino, N., Sardaro, R., Girone, S., **Gadaleta, S.**, Fucilli, V., De Giovanni, C., Montemurro, C., Pasqualone, A., Fanelli, V. (2019). A robust DNA isolation protocol from filtered commercial olive oil for PCR-based fingerprinting *Foods*, 8 (10), art. no. 462. DOI: 10.3390/foods8100462
8. Fanelli, V., Savoia, M.A., **Gadaleta, S.**, Piarulli, L., Montemurro, C., La Notte, P., Miazzi, M.M., Bruno, M., Falbo, M., Petrillo, F., Savino, V.N., Roseti, V. (2019). Molecular characterization of wine grape cultivars from Calabria. *Acta Horticulturae*, 1248, pp. 281-286. DOI: 10.17660/ActaHortic.2019.1248.40
9. D'Agostino, N., Taranto, F., Camposeo, S., Mangini, G., Fanelli, V., **Gadaleta, S.**, Montemurro, C. (2018). GBS-derived SNP catalogue unveiled wide genetic variability and geographical relationships of Italian olive cultivars. *Scientific reports*, 8(1), 15877. DOI: 10.1038/s41598-018-34207-y

### **Mercuri Ludovica**

1. Dell'Edera, D., Allegretti, A., Ventura, M., **Mercuri L.**, (...), Alfonsi, M., Guanciali-Franchi, P. (2021). Mayer-Rokitansky-Küster-Hauser syndrome with 22q11.21 microduplication: a case report. *Journal of Medical Case Reports Open Access* Volume 15, Issue 1 Article number 208. DOI: 10.1186/s13256-021-02716-6.
2. Mao, Y., Catachchio, C.R., Hillier, L.D.W., (...), **Mercuri L.**, Ventura, M., Eichler, E.E. (2021). A high-quality bonobo genome refines the analysis of hominid evolution.

NatureOpen AccessVolume 594, Issue 7861, Pages 77 – 8. DOI: 10.1038/s41586-021-03519-x.

3. Logsdon, G.A., Vollger, M.R., Hsieh, P.H., **Mercuri L.** (...), Phillippy, A.M., Eichler, E.E. (2021). The structure, function and evolution of a complete human chromosome 8. NatureOpen AccessVolume 593, Issue 7857, Pages 101 – 107. DOI: 10.1038/s41586-021-03420-7.
4. Dell'Edera, D., Allegretti, A., Forte, F., (...), **Mercuri L.**, Simone, F., Ventura, M. (2021). 7q35q36.3 deletion and concomitant 20q13.2q13.33 duplication in a newborn: familiar case. Eur Rev Med Pharmacol Sci 2021; 25 (7): 2949-2957. DOI: 10.26355/eurrev\_202104\_25548.
5. Warren, W.C., Harris, R.A., Haukness, M., (...), **Mercuri, L.**, (...), Rogers, J., Eichler, E.E. (2020) Sequence diversity analyses of an improved rhesus macaque genome enhance its biomedical utility. Science 370(6523), eabc6617. DOI: 10.1126/science.abc6617
6. Maggiolini, F.A.M., Sanders, A.D., Shew, (...), **Mercuri, L.**, (...), Korbelt, J.O., Antonacci, F. (2020). Single-cell strand sequencing of a macaque genome reveals multiple nested inversions and breakpoint reuse during primate evolution. Genome Research, 30 (11), pp. 1680-1693. DOI: 10.1101/gr.265322.120
7. Maggiolini, F.A.M., **Mercuri, L.**, Antonacci, F., Anaclerio, F., Calabrese, F.M., Lorusso, N., L'Abbate, A., Sorensen, M., Giannuzzi, G., Eichler, E.E., Catacchio, C.R., Ventura, M. (2020). Evolutionary dynamics of the POTE gene family in human and nonhuman primates. Genes, 11 (2), art. no. 213. DOI: 10.3390/genes11020213
8. Porubsky, D., Sanders, A.D., Höps, W., Hsieh, P.H., Sulovari, A., Li, R., **Mercuri, L.**, Sorensen, M., Murali, S.C., Gordon, D., Cantsilieris, S., Pollen, A.A., Ventura, M., Antonacci, F., Marschall, T., Korbelt, J.O., Eichler, E.E. (2020). Recurrent inversion toggling and great ape genome evolution. Nature Genetics. DOI: 10.1038/s41588-020-0646-x

### **Montesanto Federica**

1. Salonna, M., Gasparini, F., Huchon, D., **Montesanto, F.**, (...), Mastrototaro, F., Gissi, C. (2021) An elongated COI fragment to discriminate botryllid species and as an improved ascidian DNA barcode. Scientific Reports, 11(1), 4078. DOI: 10.1038/s41598-021-83127-x
2. Nousias O., **Montesanto F.**, (2021). Metagenomic profiling of host-associated bacteria from 8 datasets of the red alga *Porphyra purpurea* with MetaPhlan3. Marine GenomicsOpen AccessVolume 59. DOI: 10.1016/j.margen.2021.10086.
3. Mastrototaro, F., **Montesanto, F.**, Tursi, A., Aguilar, R., Chimienti, G. (2021). Biometry supporting species identification from underwater images in two Mediterranean Sea urchins. 2021 IEEE International Workshop on Metrology for the Sea: Learning to Measure Sea Health Parameters, MetroSea 2021 - ProceedingsPages 91 – 94. DOI: 10.1109/MetroSea52177.2021.9611547.
4. Tursi, A., Mastrototaro, F., **Montesanto, F.**, Chimienti, G. (2021). Monitoring the seagrass *Posidonia oceanica* to understand the effects of local disturbances in a marine protected area.

- 2021 IEEE International Workshop on Metrology for the Sea: Learning to Measure Sea Health Parameters, MetroSea 2021 - Proceedings Pages 86 – 90. DOI: 10.1109/MetroSea52177.2021.9611572.
5. Orfanidis, S., Alvito, A., Azzurro, E., (...), **Montesanto F.**, Zaouali, J., Zenetos, A. (2021). New Alien Mediterranean Biodiversity Records (March 2021). *Mediterranean Marine Science* Open Access Volume 22, Issue 1, Pages 180 – 198. DOI: 10.12681/mms.25294.
  6. Santín, A., Aguilar, R., Akyol, O., (...), **Montesanto F.**, Sperone, E., Tiralongo, F. (2021). New records of rare species in the Mediterranean Sea (March 2021). *Mediterranean Marine Science* Open Access Volume 22, Issue 1, Pages 199 – 217. DOI: 10.12681/mms.25295.
  7. Mastrototaro, F., **Montesanto, F.**, Salonna, M., (...), Trainito, E., Gissi, C. (2020) An integrative taxonomic framework for the study of the genus *Ciona* (Ascidiacea) and description of a new species, *Ciona intermedia*. *Zoological Journal of the Linnean Society* 190(4), pp. 1193-1216. DOI: 10.1093/zoolinnea/zlaa042
  8. Ragkousis, M., Abdelali, N., Azzurro, E., (...), **Montesanto, F.**, (...), Yapici, S., Zenetos, A. (2020) New Alien Mediterranean Biodiversity Records (October 2020). *Mediterranean Marine Science*, 21(3), pp. 631-652. DOI: 10.12681/mms.23673
  9. Mastrototaro, F., Aguilar, R., Alvarez, H., Blanco, J., García, S., **Montesanto, F.**, Perry, A.L., Chimienti, G. (2020). Mesophotic rocks dominated by *Diazona violacea*: a Mediterranean codified habitat. *European Zoological Journal*, 87 (1), pp. 688-695. DOI: 10.1080/24750263.2020.1837972
  10. Tabudravu, J.N., Pellissier, L., Smith, A.J., Subko, K., Autréau, C., Feussner, K., Hardy, D., Butler, D., Kidd, R., Milton, E.J., Deng, H., Ebel, R., Salonna, M., Gissi, C., **Montesanto, F.**, Kelly, S.M., Milne, B.F., Cimpan, G., Jaspars, M. (2019). LC-HRMS-Database screening metrics for rapid prioritization of samples to accelerate the discovery of structurally new natural products. *Journal of Natural Products*, 82 (2), pp. 211-220. DOI: 10.1021/acs.jnatprod.8b00575
  11. Mastrototaro, F., **Montesanto, F.**, Salonna, M., Grieco, F., Trainito, E., Chimienti, G., Gissi, C. (2019). Hitch-hikers of the sea: Concurrent morphological and molecular identification of *Symplegma brakenhielmi* (Tunicata: Ascidiacea) in the western Mediterranean Sea. *Mediterranean Marine Science*, 20 (1), pp. 197-207. DOI: 10.12681/mms.19390
  12. Mastrototaro, F., Chimienti, G., **Montesanto, F.**, Perry, A.L., García, S., Alvarez, H., Blanco, J., Aguilar, R. (2019). Finding of the macrophagous deep-sea ascidian *Dicopia antirrhinum* Monniot, 1972 (Chordata: Tunicata) in the Tyrrhenian sea and updating of its distribution. *European Zoological Journal*, 86 (1), pp. 181-188. DOI: 10.1080/24750263.2019.1616838
  13. Petović, S., Grieco, F., Mačić, V., **Montesanto, F.**, Mastrototaro, F. (2018). New data on *Aplidium tabarquense* (Tunicata: Ascidiacea) distribution in the Adriatic Sea. *Turkish Journal of Zoology*, 42 (1), pp. 146-151. DOI: 10.3906/zoo-1705-49

1. **Raguseo, C.**, Gerin, D., Pollastro, S., (...), Faretra, F., De Miccolis Angelini, R.M. (2021). A Duplex-Droplet Digital PCR Assay for Simultaneous Quantitative Detection of *Monilinia fructicola* and *Monilinia laxa* on Stone Fruits. *Frontiers in Microbiology* Open Access Volume 12. DOI: 10.3389/fmicb.2021.747560.
2. Leonard, M.M., Karathia, H., Pujolassos, M., (...), **Raguseo, C.L.**, (...), Vecchi, C., De Villsante, G.C. (2020) Multi-omics analysis reveals the influence of genetic and environmental risk factors on developing gut microbiota in infants at risk of celiac disease. *Microbiome*, 8 (1), art. n. 130, DOI: 10.1186/s40168-020-00906-w
3. Gerin, D., Pollastro, S., **Raguseo, C.**, Angelini, R.M.M., Faretra, F. (2018). A ready-to-use single- and Duplex-TaqMan-qPCR assay to detect and quantify the biocontrol agents *Trichoderma asperellum* and *Trichoderma gamsii*. *Frontiers in Microbiology*, 9 (AUG), art. no. 2073. DOI: 10.3389/fmicb.2018.02073

### **Roseti Vincenzo**

1. Montilon, V., Susca, L., Potere, O., **Roseti V.**, (...), Venerito, P., Bottalico, G. (2022). Embryo Culture, In Vitro Propagation, and Molecular Identification for Advanced Olive Breeding Programs. *Horticulturae* Open Access Volume 8, Issue 1 January 2022 Article number 36. DOI: 10.3390/horticulturae8010036.
2. Fanelli, V., **Roseti, V.**, Savoia, M.A., (...), Petrillo, F., Montemurro, C. (2021). New Insight into the Identity of Italian Grapevine Varieties: The Case Study of Calabrian Germplasm. *Agronomy* **2021**, *11*(8), 1538; DOI: 10.3390/agronomy11081538.
3. Miazzi, M.M., D'Agostino, N., di Rienzo, V., Venerito, P., Savino, V.N., Fucilli, V., Ruffa, P., **Roseti, V.**, Pirolo, C., Notte, P.L., Montemurro, C., Taranto, F. (2020). Marginal grapevine germplasm from Apulia (Southern Italy) represents an unexplored source of genetic diversity. *Agronomy*, 10 (4), art. no. 563. DOI: 10.3390/agronomy10040563
4. Sion, S., Taranto, F., Montemurro, C., Mangini, G., Camposeo, S., Falco, V., Gallo, A., Mita, G., Debbabi, O.S., Amar, F.B., Pavan, S., **Roseti, V.**, Miazzi, M.M. (2019). Genetic characterization of apulian olive germplasm as potential source in new breeding programs. *Plants*, 8 (8), art. no. 268. DOI: 10.3390/plants8080268
5. Fanelli, V., Savoia, M.A., Gadaleta, S., Piarulli, L., Montemurro, C., La Notte, P., Miazzi, M.M., Bruno, M., Falbo, M., Petrillo, F., Savino, V.N., **Roseti, V.** (2019). Molecular characterization of wine grape cultivars from Calabria. *Acta Horticulturae*, 1248, pp. 281-286. DOI: 10.17660/ActaHortic.2019.1248.40