

Mirko Umberto Granata was born in Pavia in 1986. He graduated in Natural Sciences in 2010 with a score of 110/110 at the University of Pavia. In 2011 he received his first research grant to study the leaf biomass of temperate hardwood forests. In the academic year 2011/2012 he won a seat within the Ph.D. in Experimental Ecology and Geobotany which ends in 2015. During these years he has visited different ecosystems (deserts, savannas, etc.) with particular attention to the forests located in various parts of the world such as: Argentina (Cloudy Forest), Chile (Valdivian Forest), New Zealand (Fiordland Forest), Peru (Amazon Rainforest).

His research activity focuses on the ecophysiological study of tree species:

- a) Leaf biomass
- b) Photosynthesis
- c) Plasticity Index
- d) Resilience to environmental changes

The research activity has led to a scientific production that continues today with several communications in national and international conferences and to the production of 6 articles in international journals in the sector and regularly performs the role of review for scientific international journals.

Scientific publications:

R. Catoni, L. Gratani, F. Bracco, M.U. Granata, “How water supply during leaf development drives water stress response in *Corylus avellana* saplings”, 2017, *Scientia Horticulturae*, vol. 214, pag. 122-132.

Simona Panelli, Enrica Capelli, Francesco Comandatore, Angela Landinez-Torres, Mirko Umberto Granata, Solveig Tosi, Anna Maria Picco, “A metagenomic-based, cross-seasonal picture of fungal consortia associated with Italian soils subjected to different agricultural managements”, 2017, *Fungal Ecology*, vol. 30, pag. 1-9.

Mirko Umberto Granata, Francesco Bracco, Loretta Gratani, Rosangela Catoni, Federica Corana, Barbara Mannucci, Francesco Sartori, “Fatty acid content profile and main constituents of *Corylus avellana* kernel in wild type and cultivars growing in Italy”, 2016, *Natural Product Research*

Mirko Umberto Granata, Loretta Gratani, Francesco Bracco, Francesco Sartori, Rosangela Catoni, “Carbon stock estimation in an unmanaged old-growth forest: a case study from a broad-leaf deciduous forest in the Northwest of Italy”, 2016, *International Forestry Review*, vol. 18.

Rosangela Catoni, Mirko Umberto Granata, Loretta Gratani, Francesco Sartori, Laura Varone, “*Corylus avellana* responsiveness to light variations: morphological, anatomical, and physiological leaf trait plasticity”, 2015, *Photosynthetica*, vol. 53.

Rosangela Catoni, Loretta Gratani, Francesco Sartori, Laura Varone, Mirko Umberto Granata “Carbon gain optimization in five broadleaf deciduous trees in response to light variations within the crown: relationships among morphological, anatomical and physiological leaf traits”, 2015, *Acta-Botanica Croatica*, vol. 74.