

# CURRICULUM VITAE

## PERSONAL INFORMATION

Name / Surname	<b>Nikolaos Monokrousos</b>
Date/place of birth	1/2/1976, Athens, Greece
Nationality	Hellenic
Present Position	Researcher
Professional Address	Hellenic Agricultural Organization-Demeter, Institute of Soil and Water Resources, Department of Soil Science of Athens, GR-14123 Lykovrisi, Greece
Prof. Telephone / e-mail	+302102832031 / nmonokro@bio.auth.gr
Languages	Greek (native), English (fluent), Spanish (fluent), Italian (fluent)

## EDUCATION

- 2007** Doctorat (Ph.D) in Soil Ecology, Aristotle University of Thessaloniki, Greece
- 2002** Master of Science (M.Sc) in Environmental Biology, Aristotle University of Thessaloniki, Greece
- 2000** Ptychion (B.Sc.) in Biology, Aristotle University of Thessaloniki, Greece

## TEACHING EXPERIENCE

- 2010-2015** **Adjunct Assistant Professor** in Department of Biological Applications and Technologies, University of Ioannina, teaching the courses ‘Applied Ecology’, ‘General Ecology’ and ‘Biostatistics’.
- 2008-2010** **Adjunct lecturer** in Department of Ecology, School of Biology, Aristotle University of Thessaloniki, teaching the courses ‘Population Dynamics’ and ‘General Ecology’
- 2008-2010** **Adjunct Assistant professor** in Department of Aquatic Environment, Technological University of Thessaloniki, teaching the course Biostatistics

**2008-2010**     **Adjunct Assistant professor** in Department of Aquatic Environment, Technological University of Thessaloniki teaching the course Biostatistics

**2001-2007**     **Collaborator teacher** in General Ecology, Population Dynamics, Applied Ecology and Biostatistics of Department of Ecology, School of Biology, Aristotle University of Thessaloniki, Greece

#### HONOUR'S DISSERTATIONS SUPERVISED

Thus far, I have supervised over 15 Honour's dissertations

#### MASTER THESES SUPERVISED

Thus far, I have co-supervised 2 Master dissertations

## **RESEARCH INTERESTS**

My research interests are focused on the study of soil microbial community structure and functionality, soil enzyme activity, and their role in soil organic matter decomposition and nutrient cycling. More specifically, my main research questions are related to the effect of organic farming on soil quality and the plant-soil microbial community interactions in the rhizosphere area. Additionally, part of my research is focused on the study of soil free-living nematode communities, aiming to study in depth the relations and interactions of organisms that belong to different levels of the soil food web.

## **GRANTS AND FELLOWSHIPS**

**2014-2016**     Nature conservation through religion - the sacred groves of Epirus. (General Secretariat for Research and Technology, THALIS)

**2012**           Irrigation and AMF mycorrhizal effect on soil quality and crop production (Aristotle University of Thessaliki Research Committee Excellence Scholarship)

**2006-2008**     'LIFE': Satellite-assisted management of air quality – Use of biosensors to provide an assessment of the transboundary and long-distance transport of heavy metal and radioactive particles affecting the

- area of interest. (Funded by European Commission-Environment Directorate General)
- 2003-2006** Development of a comprehensive system of ecological soil quality control with the use of innovative technologies and their application in organic agriculture. European Social Fund (ESF)/Ministry of National Education and Religious Affairs, PENED)
- 2002** Erasmus scholarship, Department of Ecology, Universidad de Barcelona
- 2000-2001** Estimation of soil quality based on new techniques of computing vision (General Secretariat for Research and Technology, PENED)

## REFeree in JOURNALS

I have reviewed scientific papers for the following journals: Soil Biology and Biochemistry, Environmental Monitoring and Management, Biological Agriculture and Horticulture, Plant and Soil, Pedosphere, Vadose Zone Journal, Frontiers in Environmental Science, Science of the Total Environment, Arid Land Research and Management, International Biodeterioration & Biodegradation, Journal of Biological Research-Thessaloniki, Annals of Forest Science, Symbiosis Journal, Geoderma, Chemical Engineering & Technology, Web Ecology

## LIST OF PUBLICATIONS

- Tsiafouli MA, **Monokrousos N**, Sgardelis SP (2018). Drought in spring increases microbial carbon loss through respiration in a Mediterranean pine forest. Soil Biology & Biochemistry 119, 59-62.
- Ntalli N, **Monokrousos N**, Rumbos C, Kontea D, Zioga D, Argyropoulou MD, Menkissoglu-Spiroudi U, Tsiropoulos NG (2018). Greenhouse biofumigation with *Melia azedarach* controls *Meloidogyne* sp. and enhances soil biological activity. Journal of Pest Science 91, 29-40.
- Stamou GP, Konstadinou S, **Monokrousos N**, Mastrogianni A, Orfanoudakis M, Hassiotis C, Menkissoglu-Spiroudi U, Vokou D, Papatheodorou EM (2017). The effects of arbuscular mycorrhizal fungi and essential oil on soil microbial

- community and N-related enzymes during the fungal early colonization phase. *AIMS Microbiology* 3, 938-959.
- Panayiotou E, Dimou M, **Monokrousos N** (2017). The effects of grazing intensity on soil processes in a Mediterranean protected area. *Environmental Monitoring and Assessment* 189, 441.
- Monokrousos N**, Papatheodorou EM, Stamou GP. Dimension and structural traits of soil macropores in cultivations differing in the duration of organic management. *Environmental Engineering and Management Journal* 189, (in press).
- Halley JM, **Monokrousos N**, Mazaris AD, Vokou D. (2017). Extinction debt in plant communities: where are we now? *Journal of Vegetation Science* 28, 459-461.
- Halley JM, **Monokrousos N**, Mazaris AD, Newmark WD, Vokou D (2016). Dynamics of extinction debt across five taxonomic groups. *Nature Communications* 7: 1-6.
- Monokrousos N**, Charalampidis G, Kapagianni P, Argyropoulou MD, Papatheodorou EM (2016). Spatial and temporal variations of soil function in a Mediterranean serpentine ecosystem. *Soil Research* 54: 905-913.
- Samalidou M, Bougiouklis D, Vyzantiadis T, Meletiadiis J, **Monokrousos N**, Siotou E, Sivropoulou A, Anagnostopoulos A, Sotiropoulos D (2015). In vitro and in vivo study on the effect of antifungal agents on hematopoietic cells in mice. *Experimental Biology and Medicine* 240: 1728-1734.
- Costa C, Papatheodorou EM, **Monokrousos N**, Stamou G.P. (2015). Spatial variability of soil organic C, inorganic N and extractable P in a Mediterranean grazed area. *Land Degradation and Development* 26: 103-109.
- Paraskevopoulou S, **Monokrousos N**, Kappas I, Abatzopoulos TJ (2015). Spatio-temporal variability of benthic macrofauna in a coastal lagoon assessed by ecological interaction networks. *Community Ecology*. *Community Ecology* 16: 10-22.
- Kokokiris L, Stamoulis A, **Monokrousos N**, Doulgeraki S. (2014). Oocytes development, maturity classification, maturity size and spawning season of the red mullet. *Journal of Applied Ichthyology (Mullus barbatus Linnaeus, 1758)*. *Journal of Applied Ichthyology* 30: 20-27
- Vokou D, Dimitrakopoulos PG, Jones N, Damialis A, **Monokrousos N**, Pantis JD, Mazaris AD (2014). Ten years of co-management in Greek protected areas: an evaluation. *Biodiversity and Conservation*. *Biodiversity and Conservation* 23: 2833-2855.

- Monokrousos N**, Boutsis G, Diamantopoulos J (2014). Development of soil chemical and biological properties in the initial stages of post-mining deposition sites. *Environmental Monitoring and Assessment* 186: 9065-9074.
- Mastrogianni A, Papatheodorou EM, **Monokrousos N**, Menkissoglu-Spiroudi U, Stamou GP (2014). Reclamation of lignite mine areas with *Triticum aestivum*: the dynamics of soil functions and microbial communities. *Applied Soil Ecology* 80: 51-59.
- Monokrousos N.**, Charalampidis G, Boutsis G, Sousanidou V, Papatheodorou EM, Argyropoulou MD (2014). Plant induced differentiation of soil variables and nematode community structure in a mediterranean serpentine ecosystem. *Soil Research* 52: 593-603
- Markopoulos G, Noutsopoulos D, Mantziou S, Vatholomatos G, **Monokrousos N**, Angelidis C, Tzavaras T. (2013). Arsenic induces VL30 retrotransposition: the involvement of oxidative stress and heat-shock protein 70. *Toxicological Sciences* 134: 312-322.
- Papatheodorou EM, Kapagianni P, Georgila ED, **Monokrousos N**, Stamou GP. (2013). Predictability of soil succession patterns under different agricultural land use practices: Continual conventional cultivation versus transformation to organic cultivation of fallow periods. *Pedobiologia* 56: 233-239.
- Vlachodimos K, Papatheodorou EM, Diamantopoulos J, **Monokrousos N**. (2013). Assessment of *Robinia pseudoacacia* cultivations as a restoration strategy for reclaimed mine spoil heaps. *Environmental Monitoring and Assessment* 185: 6921-6932.
- Kapagianni P, **Monokrousos N.**, Stamou G.P., Papatheodorou E.M. (2013). The response of properties of soil cropped with shell beans and treated with disinfectant and fertilizer during the plant growing season. *Biology and Fertility of Soils* 49: 225-233.
- Halley JM, Sgardeli V, **Monokrousos N**. (2013). Species-area relationships and extinction forecasts. *Annals of the New York Academy of Science* 1286: 50-61.
- Sfikas A, Batsi C, Tselikou E, **Monokrousos N**, Vartholomatos G, Christoforidis C, Tzavaras Th, Kanavaros P, Gorgoulis VG, Marcu KB, Kolettas E (2012). The canonical NF-kappaB pathway differentially protects normal and human tumor cells from ROS-induced DNA damage. *Cellular Signaling* 24: 2007-2023.

- Papatheodorou EM, Kordatos H, Kouseras T, **Monokrousos N**, Menkissoglu-Spiroudi U, Diamantopoulos J, Stamou GP, Argyropoulou MD (2012). Differential responses of structural and functional aspects of soil microbes and nematodes to biotic and abiotic stress. *Applied Soil Ecology* 61: 26-33.
- Vokou D, Vareli K., Zarali e, Karamanoli k, Constantinidou HIA, Halley JM, **Monokrousos N**, Sainis I (2012). Exploring biodiversity in the bacterial community of the Mediterranean phyllosphere and its relationship with airborne bacteria. *Microbial Ecology* 64: 714-724.
- Monokrousos N**, Papatheodorou EM, Stamou GP (2011). Under climatic change, soil microbial community and variables relating to N-cycle are modulated by changes in the upper limit temperature. *Global Nest Journal* 13: 385-394.
- Stamou GP, Argyropoulou MD, Tsiafouli MA, **Monokrousos N**, Sgardelis SP, Papatheodorou EM (2011). The study of secondary successional patterns in soil using network analysis: the case of conversion from conventional to organic farming. *Pedobiologia* 54: 253-259.
- Efthimiadou E, Papatheodorou EM, **Monokrousos N**, Stamou GP (2010). Changes of soil chemical, microbiological and enzymatic variables in relation to management regime and the duration of organic farming in *Phaseolous vulgaris*. *Journal of Biological Research-Thessaloniki* 14: 151-159.
- Monokrousos N**, Bobori D, Tsiafouli M, Boutsis G, Chalkos D, Vlachodimos K, Kladas E, Blake K, Pyrovetsi M, Papatheodorou EM, Sgardelis S, Symeonidis L, Diamantopoulos J (2009). Evaluation of biological soil properties as indicators of flying ash deposition from lignite power plants in the Florina - Kozani Basin. *Fresenius Environmental Bulletin* 18: 1289-1294.
- Monokrousos N**, Papatheodorou EM, Stamou GP (2008). The response of soil biochemical variables to organic and conventional cultivation of *Asparagus* sp. *Soil Biology & Biochemistry* 40: 198-206.
- Monokrousos N**, Papatheodorou EM, Diamantopoulos J, Stamou GP (2006). Soil quality variables in organically and conventionally cultivated field sites. *Soil Biology & Biochemistry* 38: 1282-1289.
- Monokrousos N**, Papatheodorou EM, Diamantopoulos J, Stamou GP (2004). Temporal and spatial variability of soil chemical and biological variables in a Mediterranean shrubland. *Forest Ecology & Management* 202: 83-91.