



## DIMITRIS VLASTOS

*Associate Professor in Environmental Mutagenesis*

**Section of Genetics, Cell Biology and Development  
Department of Biology  
University of Patras**

### PERSONAL DATA

Name Dimitris  
Surname Vlastos  
Father's name Emmanouil  
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### EDUCATION-PROFESSIONAL POSITIONS

1989 : BSc in Biology, Department of Biology, University of Patras  
1997 : PhD in Biology, Department of Biology, University of Patras  
1998-2004: Adjunct Professor, Department of Environmental and Natural Resources Management, University of Ioannina  
2005-2010: Lecturer in Environmental Mutagenesis, Department of Environmental and Natural Resources Management, University of Ioannina  
2010-2016: Assistant Professor, Department of Environmental and Natural Resources Management, University of Patras  
2017- 2022: Associate Professor, Department of Environmental Engineering (*former: Department of Environmental and Natural Resources Management*), University of Patras  
2022- : Associate Professor, Department of Biology, University of Patras

### TEACHING ACTIVITIES

#### Under-graduate courses / Laboratory exercises

1998-2004: Introduction in Biology-Animal Physiology (Department of Farm Organization and Management, University of Ioannina)  
1999-2001: Introduction in Genetics-Biotechnology (Department of Farm Organization and Management, University of Ioannina)  
1999-2009: Genetics (Department of Environmental and Natural Resources Management, University of Ioannina)  
2001-2004: Biochemistry-Molecular Biology (Department of Environmental and Natural Resources Management, University of Ioannina)  
2001-2005: Ecotoxicology-Environmental Mutagenesis (Department of Environmental and Natural Resources Management, University of Ioannina)  
2005-2009: Environmental Mutagenesis (Department of Environmental and Natural Resources Management, University of Ioannina)  
2009-2013: Molecular and Genetic Engineering (Department of Environmental and Natural Resources Management, University of Ioannina/University of Western Greece)  
2010-2022: Environmental Toxicology and Mutagenesis [Department of Environmental Engineering (*former: Department of Environmental and Natural Resources Management, University of Western Greece/University of Patras*)]  
2011-2013: Environmental Biochemistry (Department of Environmental and Natural Resources Management, University of Western Greece)



- 2013-2018: Genetics (Department of Environmental and Natural Resources Management, University of Patras)
- 2017-2022: General Biology [Department of Environmental Engineering (*former*: Department of Environmental and Natural Resources Management), University of Patras]
- 2022- : Fundamental Principles in Cell Biology-Teaching (Department of Biology, University of Patras)
- 2023- : Genetics (Department of Biology, University of Patras)
- Under-graduate courses / Main courses**
- 1998-2004: Introduction in Biology – Animal Physiology (Department of Farm Organization and Management, University of Ioannina)
- 1999-2001: Introduction in Genetics – Biotechnology (Department of Farm Organization and Management, University of Ioannina)
- 1999-2009: Genetics (Department of Environmental and Natural Resources Management, University of Ioannina)
- 2001-2005: Ecotoxicology-Environmental Mutagenesis (Department of Environmental and Natural Resources Management, University of Ioannina)
- 2002-2004: Applications of Biotechnology in Agriculture (Department of Farm Organization and Management, University of Ioannina)
- 2004-2009: Genetic Diversity and Evolution (Department of Environmental and Natural Resources Management, University of Ioannina)
- 2005-2009: Biotechnology (Department of Environmental and Natural Resources Management, University of Ioannina)
- 2005-2009: Environmental Microbiology (Department of Environmental and Natural Resources Management, University of Ioannina)
- 2005-2009: Environmental Mutagenesis (Department of Environmental and Natural Resources Management, University of Ioannina)
- 2007-2009: Introduction to Environmental Sciences (Department of Environmental and Natural Resources Management, University of Ioannina)
- 2011-2012: Environmental Ethics and Education (Department of Environmental and Natural Resources Management, University of Western Greece)
- 2010-2012: Introduction to Biology (Department of Environmental and Natural Resources Management, University of Western Greece)
- 2009-2013: Molecular and Genetic Engineering (Department of Environmental and Natural Resources Management, University of Ioannina/University of Western Greece)
- 2010-2021: Environmental Toxicology and Mutagenesis [Department of Environmental Engineering (*former*: Department of Environmental and Natural Resources Management), University of Patras]
- 2011-2018: Environmental Biochemistry (Department of Environmental and Natural Resources Management, University of Western Greece)
- 2017-2018: Environmental Education [Department of Environmental Engineering (*former*: Department of Environmental and Natural Resources Management), University of Patras]



- 2019-2022: Special Topics in Genetic Engineering [Department of Environmental Engineering (*former*: Department of Environmental and Natural Resources Management), University of Patras]
- 2019-2021: Environmental Education and Ethics [Department of Environmental Engineering (*former*: Department of Environmental and Natural Resources Management), University of Patras]
- 2017-2022: General Biology [Department of Environmental Engineering (*former*: Department of Environmental and Natural Resources Management), University of Patras]
- 2022- : Fundamental Principles in Cell Biology-Teaching (Department of Biology, University of Patras)
- 2023- : Genetics (Department of Biology, University of Patras)
- 2023- : General Biology (Department of Physics-Department of Education and Social Work, University of Patras)
- 2023- : Selected Topics in Cell Biology (Department of Biology, University of Patras)

#### Post-graduate courses

- 2003-2008: Quality and Environment I-Pesticides (Certification of Quality Agricultural Products, Department of Environmental and Natural Resources Management, University of Ioannina)
- 2003-2008: Health and Safety I-Experimental tools for the evaluation of the activity of the environmental factors on the genetic material (Certification of Quality Agricultural Products, Department of Environmental and Natural Resources Management, University of Ioannina)
- 2003-2013: Environmental pollution-treatment technologies-ecotoxicology-environmental restoration in protected areas (Sustainable Management of Protected Areas, Department of Environmental and Natural Resources Management, University of Ioannina/University of Western Greece )
- 2015-2018: Ecosystems and Environmental Risks (Applications of Environmental Protection and Management, University of Patras)
- 2015-2018: Environmental Laboratory Techniques (Applications of Environmental Protection and Management, University of Patras)
- 2022- : Ecological Genetics and Ecotoxicology (Environmental Sciences, Department of Geology-Department of Biology-Department of Mathematics-Department of Physics-Department of Chemistry-Department of Materials Science, University of Patras)
- 2023- : Environmental Mutagenesis (Biological Sciences: Research and Applications, Department of Biology, University of Patras)

#### Participation in funded research projects

- 1.11.1991-31.10.1993 "Assessment of environmental and occupational exposure to butadiene as a model for risk estimation of petrochemical emissions"  
Supported by CEC- Contract no. STEP – CT91 – 0152
- 1.11.1994-31.10.1995 "Multi – endpoint analysis of genetic damage induced by 1,3 – butadiene and its major metabolites in somatic and germ cells of mice, rats and man. Genetic risk estimation by the parallelogram method"  
Supported by CEC- Contract no. EV5V – CT94 – 0543
- 20.3.2001-20.7.2001 "A pilot study on the effect of non-continuous radiation on tobacco in vivo"



- 1.12.2001-31.11.2002 Supported by Reacearch Committee of National and Kapodistrian University of Athens-Contract no. 70/3/5358 "Cytogenetic monitoring of a farmer population exposed to pesticides in the Aitoloakarnania area of Western Greece"
- 1.4.2004-31.8.2007 Supported by Reacearch Committee of University of Ioannina- Contract no. 1227 "Development of a control methodology for the quantification of various organic pollutants in basic Mediterranean dietary products and its application for the assessment on their effects on humans"
- 1.8.2017-30.9.2018 Supported by Ministry of National Education and Religious Affairs-Operational programme "Pythagoras"-Contract No. 11711 Study on the toxic, cytotoxic and genotoxic effects of newly developed nanomaterials in *in vitro* conditions. Supported by General Secretariat for Research and Technology (GSRT) and the Hellenic Foundation for Research and Innovation (HFRI) in the context of the action "1st HFRI Proclamation of Scholarships from ELIDEK for PhD Candidates" Scholarship Code: 80178.
- 1.1.2018-31.12.2021 Integrated Process and Product Design for Sustainable Biorefinaries, IPropBio Supported by EU-Research and Innovation Staff Exchanges (RISE) / Call: H2020-MSCA-RISE-2017 Project Number: 778168
- 28.5.2021-28.5.2023 Pollution Control and Environmental Protection Technologies Supported by University of Patras (MEDICUS Project) MEDICUS-81654

#### **EARLY ACHIEVEMENT TRACK-RECORD / TEN YEARS TRACK-RECORD / RESEARCH INTERESTS**

In 1998, one year after receiving his PhD, D. Vlastos chose to pursue an independent academic career, being one of the first five members of a newly established Department (Department of Environmental and Natural Resources Management) belonging to the University of Ioannina, located outside the University campus in the city of Agrinio. The specific Department was affiliated to the University of Patras in 2013 and was renamed into Department of Environmental Engineering. As described above (see Teaching activities) he invested in the development and teaching of a large number of undergraduate and postgraduate lab courses within the scientific field of Biology. At the same time, he established his laboratory (Laboratory of Environmental Analysis and Mutagenesis) from scratch relying on mainly National and European resources. Recently, since February 2022, D. Vlastos moved to the Department of Biology of the University of Patras where he has already established the necessary research infrastructure in his laboratory, which is called Laboratory of Environmental Mutagenesis (EnvMUT lab). The EnvMUT group research is mostly concerned with the genotoxic effects of factors potentially harmful to life and environment. Interdisciplinary scientific research is conducted on the causes and the effects of the genetic damage resulting from environmental factors and anthropogenic activities in order to protect the ecosystem stability and human health which is of utmost importance. The research focuses on the: (a) genotoxicological effects of various factors such as radiation, pesticides, pharmaceuticals compounds, nanoparticles, newly synthesized chemicals, environmental pollutants, municipal and industrial waste (before and after treatment) on various organisms including human, (b) cytogenetic effects on human genetic material as a result of occupational exposure to various pollutants, (c) detection of xenobiotic agents in environmental samples



(rainwater, soil organic matter, surface water of lakes and rivers) and assessment of their genotoxicological effects on various organisms including human (d) analysis and assessment of the effect of various environmental factors on the expression of selected genes (e) extraction, isolation and characterization of plant extracts and (f) determination of antigenotoxic (antimutagenic) activity of plant extracts in the genetic material of various organisms including human. The total published work of D. Vlastos' research group is reflected in 61 peer-reviewed publications in international journals with IF (h-index=17/21) which have so far received 876/1187 citations (Scopus/Scholar, March 2024). In the last 10 years, D. Vlastos' research group has 42 peer-reviewed publications in international journals with an average Impact Factor (IF)=6.6. The research group of D. Vlastos has presented its research results in 95 international and Greek conferences (63 in the last decade). In the last 10 years, D. Vlastos has been invited to present his research work in 4 international conferences and has participated as a member of the scientific/organizing committees in 6 international conferences (indicatively: IWA Regional Symposium on Water, Wastewater, and Environment: Traditions and Culture / Meeting of the International Humic Substances Society / European Conference on Pesticides and Related Organic Micro pollutants in the Environment). Since 2010, when he had the right as Assistant Professor to supervise PhD theses, D. Vlastos has supervised 3 PhD students and has participated in 2 PhD theses as co-supervisor, 5 MSc theses (3 the last 10 years) and 52 Diploma theses (33 the last 10 years). By 2021, D. Vlastos' has participated in 9 National and European research projects (4 in the last decade).

#### SYNOPSIS OF DATA METRICS

Publications	61
Citations ( <i>Scopus/Scholar Google/ResearchGate</i> )	876/1187/1068
Average citations per paper	14.4/19.5/17.5
Total Impact Factor (IF)	364.43*
Average IF per paper	6.0*
<i>h</i> -index ( <i>Scopus/Scholar Google/Research Gate</i> )	17 / 21 / 19
Supervisor in MSc theses	5
Supervisor in PhD theses	3
Total Diploma theses	52
Co-Supervisor in PhD theses	2
Examiner in MSc theses	14
Examiner in PhD theses	8
Letters to the editors, reports, abstracts and publications in proceedings-books of conferences, workshops and meetings	95
Participation in funded research projects	9
Reviewer in Scientific journals	22
Chapters in books	2
Participation in Department and University Committees	>70
Member in Scientific committees of International Conferences	6
Participation in National and International conferences	29
Member of Scientific Societies	4
Participation in seminars	3

#### PUBLICATIONS (*Impact factor 2022*)

- Stephanou G.\*, **Vlastos D.**, Vlachodimitropoulos D., Demopoulos N.A. (1996). A comparative study on the effect of MNU on human lymphocyte cultures *in vitro* evaluated by O<sup>6</sup>-mdG formation, micronuclei and sister chromatid exchanges induction, *Cancer Letters*, 109 (1-2), 109-114. (**IF=9.7**)
- Stephanou G., Andrianopoulos C., **Vlastos D.**, Demopoulos N.A.\*, Russo A. (1997). Induction of micronuclei and sister chromatid exchanges in



- mouse splenocytes after exposure to the butadiene metabolite 3,4-epoxybutene, *Mutagenesis*, 12 (6), 425-429. **(IF=2.7)**
3. Stephanou G., Russo A., **Vlastos D.**, Andrianopoulos C., Demopoulos N.A.\* (1998). Micronucleus induction in somatic cells of mice as evaluated after 1,3-Butadiene inhalation, *Mutation Research-Fundamental and Molecular Mechanisms of Mutagenesis*, 397, 11-20. **(IF=2.3)**
  4. **Vlastos D.**, Stephanou G.\*, Demopoulos N.A. (1998). Effects of Cetirizine dihydrochloride on human lymphocytes *in vitro*. Evaluation of chromosome aberrations and sister chromatid exchanges, *Skin Pharmacology and Applied Skin Physiology*, 11, 104-110. **(IF=2.7)**
  5. **Vlastos D.**, Stephanou G.\* (1998). Effects of Cetirizine dihydrochloride on human lymphocytes *in vitro*: Micronucleus induction. Evaluation of clastogenic and aneugenic potential using CREST and FISH assays, *Archives of Dermatological Research*, 290 (6), 312-318. **(IF=3.0)**
  6. Papapoulou P., **Vlastos D.**, Stephanou G., Demopoulos N.A.\* (2001). Linuron cytogenetic activity on human lymphocytes treated *in vitro*. Evaluation of clastogenic and aneugenic potential using cytokinesis block micronucleus assay in combination with fluorescence *in situ* hybridization (FISH), *Fresenius Environmental Bulletin*, 10 (5), 431-437. **(IF= 0.62)**
  7. **Vlastos D.\***, Demsia G., Matthopoulos D.P. (2004). Evaluation of Genetic Damage in Tobacco Growing Farmers occupationally Exposed to a mixture of Metalaxyl and Imidacloprid, *International Journal of Environmental and Analytical Chemistry*, 84 (1-3), 183-191. **(IF=2.34)**
  8. Demsia G., **Vlastos D.**, Matthopoulos D.P.\* (2004). Effect of 910-MHz electromagnetic field on rat bone marrow, *The Scientific World Journal*, 4(S2), 48-54. **(IF= NA)**
  9. **Vlastos D.\***, Stivaktakis P., Matthopoulos D.P. (2006). Pesticide exposure and genotoxicity correlations within a Greek – farmers’ group, *International Journal of Environmental and Analytical Chemistry*, 86 (3-4), 215-223. **(IF=2.34)**
  10. Pasmatzi E.\*, **Vlastos D.**, Monastirli A., Stephanou G., Georgious S., Sakkis T., Tsambaos D. (2006). Ehlers-Danlos type IV syndrome in a patient with Down syndrome: simple co-occurrence or true association? *American Journal of the Medical Sciences*, 331 (1), 48-50. **(IF=3.1)**
  11. Demsia G., **Vlastos D.\***, Goumenou M., Matthopoulos D.P. (2007). Assessment of Imidacloprid and Metalaxyl genotoxicity on cultured human lymphocytes and rat bone marrow, *Mutation Research-Genetic Toxicology and Environmental of Mutagenesis*, 634, 32-39. **(IF=1.9)**
  12. Stapleton D.R., **Vlastos D.**, Skoutelis C.G., Papadaki M.I.\* (2008). Photolytic and photocatalytic diminution and preliminary genotoxicity studies of 2-chloropyridine, *Journal of Advanced Oxidation Technologies*, 11 (3), 486-500. **(IF= 1.230)**
  13. **Vlastos D.\***, Moshou H., Epeoglou K. (2010) Evaluation of genotoxic effects of semicarbazide on cultured human lymphocytes and rat bone marrow, *Food and Chemical Toxicology*, 48, 209-214. **(IF=4.3)**
  14. Stivaktakis P., **Vlastos D.\***, Giannakopoulos E., Matthopoulos D.P. (2010) Differential micronuclei induction in human lymphocytes cultures by imidacloprid in the presence of potassium nitrate, *TheScientificWorld Journal*, 10, 80-89. **(IF= NA)**
  15. **Vlastos D.\***, Skoutelis C.G., Theodoridis I.T., Stapleton D.R., Papadaki M.I. (2010). Genotoxicity study of photolytically treated 2-chloropyridine aqueous solutions, *Journal of Hazardous Materials*, 117, 892-898. **(IF= 13.6)**
  16. **Vlastos D.\***, Ntinopoulos A. (2011). Induction of micronuclei on Greek hairdressers occupationally exposed to chemical mixtures, *Environmental Toxicology*, 26 (5), 506-514. **(IF=4.5)**
  17. Skoutelis C.G., **Vlastos D.\***, Kortsinidou M.C., Theodoridis I.T., Papadaki M.I. (2011). Induction of micronuclei by 2-hydroxypyridine in water and elimination of solution genotoxicity by UVC (254 nm) photolysis, *Journal of Hazardous Materials*, 197, 137-143. **(IF= 13.6)**



18. Toufexi E., Tsarpali V., Efthimiou I., Vidali M-S., **Vlastos D.**, Dailianis S.\* (2013). Environmental and human risk assessment of landfill leachate: an integrated approach with the use of cytotoxic and genotoxic stress indices in mussel and human cells, *Journal of Hazardous Materials*, 260, 593-601. (IF= 13.6)
19. **Vlastos D.**, Mademtoglou D., Drosopoulou E., Efthimiou I., Chartomatsidou T., Pandelidou C., Astyrakaki M., Chalatsi E., Mavragani-Tsipidou P.\* (2013). Evaluation of the genotoxic and antigenotoxic effects of Chios mastic water by the in vitro micronucleus test on human lymphocytes and the in vivo wing somatic test on *Drosophila*, *PLoS ONE* 8(7): e69494. doi:10.1371/journal.pone.0069494 (IF=3.7)
20. Damati A., **Vlastos D.**, Philippopoulos A.I., Matthopoulos D.P.\* (2014) Inorganic tin compounds do not induce micronuclei in human lymphocytes in the absence of metabolic activation, *Drug and Chemical Toxicology*, 37 (2), 213-220. (IF=2.6)
21. Antonopoulou M., **Vlastos D.**, Konstantinou I.\* (2015) Photocatalytic degradation of pentachlorophenol by N-F-TiO<sub>2</sub>: Identification of intermediates, mechanism involved, genotoxicity and ecotoxicity evaluation, *Photochemical and Photobiological Sciences*, 14, 520-527. (IF=3.1)
22. Chowdhury A.K.M.M.B., Konstantinou F., Damati A., Akrotas C.S., **Vlastos D.**, Tekerlekopoulou A.G., Vayenas D.V.\* (2015) Is physicochemical evaluation enough to characterize olive mill waste compost as soil amendment? The case of genotoxicity and cytotoxicity evaluation, *Journal of Cleaner Production*, 93, 94-102. (IF=11.1)
23. Charalampous N., Kindou A., **Vlastos D.**, Tsarpali V., Antonopoulou M., Konstantinou I.K., Dailianis S.\* (2015) A multidisciplinary assessment of river surface water quality in areas heavily influenced by human activities, *Archives of Environmental Contamination and Toxicology*, 69(2), 208-222. (IF=4.0)
24. Siorou S., Vgenis T.T., Dareioti M.A., Vidali M-S., Efthimiou I., Kornaros M., **Vlastos D.**, Dailianis S.\* (2015) Investigation of raw and ozonated olive mill wastewater (OMW) toxicity with the use of a battery of biological assays and toxic endpoints: OMW ozonation regulates its toxicity, *Aquatic Toxicology*, 164, 135-144. (IF=4.5)
25. **Vlastos D.**, Drosopoulou E., Efthimiou I., Gavriilidis M., Panagaki D., Mpatziou K., Kalamara P., Mademtoglou D., Mavragani-Tsipidou P.\* (2015) Genotoxic and antigenotoxic assessment of Chios mastic oil by the *in vitro* micronucleus test on human lymphocytes and the *in vivo* wing somatic test on *Drosophila*, *PLoS ONE* 10(6): e0130498. doi:10.1371/journal.pone.0130498. (IF=3.7)
26. Damati A., **Vlastos D.**, Philippopoulos A.I., Matthopoulos D.P.\* (2015) Genotoxic evaluation of newly synthesized organometallic compounds of tin, *Global NEST Journal*, 17(3), 574-582. (IF=1.1)
27. Vidali M-S., Bletsas E., Kouloumpis A., Skoutelis C.G., Deligiannakis Y., Gournis D., **Vlastos D.**\* (2016) Induction of Micronuclei by Multi-Walled Carbon Nanotubes interacting with Humic Acids in cultured human lymphocytes, *Environmental Science: Nano*, 3, 74 - 84. (IF=7.3)
28. **Vlastos D.**\*, Antonopoulou M., Konstantinou I.K. (2016) Evaluation of toxicity and genotoxicity of 2-Chlorophenol on bacteria, fish and human cells, *Science of the Total Environment*, 551-552, 649-655. (IF=9.8)
29. Toufexi E., Dailianis S.\*, **Vlastos D.**, Manariotis I.D. (2016) Mediated effect of ultrasound treated Diclofenac on mussel hemocytes: First evidence for the involvement of respiratory burst enzymes in the induction of DCF-mediated non specific mode of action, *Aquatic Toxicology*, 175, 144-153. (IF=4.5)
30. Stivaktakis P.D., Giannakopoulos E.\*, **Vlastos D.**, Matthopoulos D.P. (2017) Determination of Genotoxic Effects of Methidathion Alkaline Hydrolysis in Human Lymphocytes Using the Micronucleus Assay and Square - Wave Voltammetry, *Bioelectrochemistry*, 113, 9-14. (IF=5.0)



31. **Vlastos D.\***, Dailianis S., Kindou A., Antonopoulou M., Gianni A., Zacharias I. (2017) Assessing the environmental/human risk of potential genotoxicants in water samples from lacustrine ecosystems: the case of lakes in Western Greece, *Science of the Total Environment*, 574, 246-252. **(IF=9.8)**
32. Skoutelis C., Antonopoulou M., Konstantinou I., **Vlastos D.\***, Papadaki M.\* (2017) Photodegradation of 2-chloropyridine in aqueous solutions: reaction pathways and genotoxicity of intermediate products, *Journal of Hazardous Materials*, 321, 753-763. **(IF= 13.6)**
33. Tsarpali V., Goutas A., Karyda A., Efthimiou I., Antonopoulou M., Drosopoulou E., **Vlastos D.**, Konstantinou I., Mavragani-Tsipidou P., Dailianis S.\* (2017) The role of acetone in the [omim] [BF<sub>4</sub>]-mediated adverse effects on tissues of mussels, human lymphocytes and the fruit fly *Drosophila melanogaster*, *Journal of Hazardous Materials*, 333, 339-347. **(IF= 13.6)**
34. Drosopoulou E.\* , **Vlastos D.**, Efthimiou I., Kyrizaki P., Tsamadou S., Anagnostopoulou M., Kofidou D., Gavriilidis M., Mademtzoglou D., Mavragani-Tsipidou P. (2018) *In vitro* and *in vivo* evaluation of the genotoxic and antigenotoxic potential of the major Chios mastic water constituents, *Scientific Reports*, 8(1), 12200 **(IF=4.6)**
35. **Vlastos D.**, Antonopoulou M.\* , Lavranou A., Efthimiou I., Dailianis S., Hela D., Lambropoulou D., Paschalidou A.K., Kassomenos P. (2019) Assessment of the toxic potential of rainwater precipitation: First evidence from a case study in three Greek cities, *Science of the Total Environment*, 648, 1323-1332. **(IF=9.8)**
36. Thanasias E., Koutsoumplias D., Vlastos **D.**, Halkos G., Matthopoulos D.\* , Makropoulos V. (2019) Evaluation of Genetic Damage to Workers in a Nickel Smelting Industry, *Occupational Diseases and Environmental Medicine*, 7, 21-35. **(IF=NA)**
37. Efthimiou I., Dormousoglou M., **Vlastos D.\***, Papadaki M. (2019) Towards improved valorisation of (*Betula pendula*): preliminary study of the genotoxic, antigenotoxic and cytotoxic potential of a commercial aqueous silver birch leaf extract, *Bulgarian Chemical Communications*, 51, 115-118. **(IF=0.4)**
38. Antonopoulou M.\* , Thoma A., Konstantinou F., **Vlastos D.**, Hela D. (2020) Assessing the human risk and the environmental fate of pharmaceutical Tramadol, *Science of the Total Environment*, 707, 135396. **(IF=9.8)**
39. Efthimiou I., Georgiou Y., **Vlastos D.\***, Dailianis S., Deligiannakis Y. (2020) Assessing the cyto-genotoxic potential of model zinc oxide nanoparticles in the presence of humic-acid-like-polycondensate (HALP) and the leonardite HA (LHA), *Science of the Total Environment*, 721, 137625. **(IF=9.8)**
40. Moshou H., Karakitsou A., Yfanti F., Hela D.\* , **Vlastos D.\***, Paschalidou A.K., Kassomenos P., Petrou I. (2020) Assessment of genetic effects and pesticide exposure of farmers in NW Greece, *Environmental Research*, 186, 109558. **(IF=8.3)**
41. Chatzimpaloglou A., Christophoridis C., Fountoulakis I., Antonopoulou M., **Vlastos D.**, Bais A., Fytianos K.\* (2021) Photolytic and photocatalytic degradation of antineoplastic drug irinotecan. Kinetic study, identification of transformation products and toxicity evaluation, *Chemical Engineering Journal*, 405, 126866. **(IF=15.1)**
42. Efthimiou I., Kalamaras G., Papavasileiou K., Anastasi-Papathanasi N., Georgiou Y., Dailianis S., Deligiannakis Y., **Vlastos D.\*** (2021) ZnO, Ag and ZnO-Ag nanoparticles exhibit differential modes of toxic and oxidative action in hemocytes of mussel *Mytilus galloprovincialis*, *Science of the Total Environment*, 767, 144699. **(IF=9.8)**
43. Vidali M-S., Dailianis S., **Vlastos D.**, Georgiadis P.\* (2021) PCB cause global DNA hypomethylation of human peripheral blood monocytes in vitro, *Environmental Toxicology and Pharmacology*, 87, 103696 **(IF=4.3)**





44. Kalamaras G., Kloukinioti M., Antonopoulou M., Ntaikou I., **Vlastos D.**, Eleftherianos A., Dailianis S.\* (2021) The potential risk of electronic waste disposal into aquatic media: the case of personal computer motherboards, *Toxics*, 9(7), 166 (**IF=4.6**)
45. Dailianis S.\*, Charalampous N., Giokas S., **Vlastos D.**, Efthimiou I., Dormousoglou M., Cocilovo C., Faggio C., Shehu A., Shehu J., Lyberatos G., Ntaikou I. (2021) Chemical and biological tracking in decentralized sanitation systems: the case of artificial constructed wetlands, *Journal of Environmental Management*, 300, 113799 (**IF= 8.7**)
46. Koutsoumplias D., Damati A., Thanasias E., **Vlastos D.**, Halkos G., Matthopoulos D.\*, Makropoulos V. (2022) Evaluation of the genetic damage to workers in a Greek shipyard, *Industrial Health*, 60, 47-61 (**IF=2.0**)
47. Efthimiou I., **Vlastos D.**, Ioannidou C., Tsilimigka F., Drosopoulou E., Mavragani-Tsipidou P., Potsi G., Gournis D., Antonopoulou M.\* (2022) Assessment of the genotoxic potential of three novel composite nanomaterials using human lymphocytes and the fruit fly *Drosophila melanogaster* as model systems, *Chemical Engineering Journal Advances*, 9, 100230 (**IF= NA**)
48. Spyrou A., Tzamaria A., Dormousoglou M., Skourti A., **Vlastos D.**, Papadaki M., Antonopoulou M.\* (2022) The overall assessment of simultaneous photocatalytic degradation of Cimetidine and Amisulpride by using chemical and genotoxicological approaches, *Science of the Total Environment*, 838, 156140 (**IF=9.8**)
49. Dormousoglou M., Efthimiou I., Antonopoulou M., Fetzer D.L., Hamerski F., Corazza M.L., Papadaki M., Santzouk S., Dailianis S., **Vlastos D.\*** (2022) Investigation of the Genotoxic, Antigenotoxic and Antioxidant Profile of Different Extracts from *Equisetum arvense* L. *Antioxidants*, 11, 1393 (**IF=7.0**)
50. Antonopoulou M.\*, Dormousoglou M., Spyrou A., Dimitroulia A.A., **Vlastos D.** (2022) An overall assessment of the effects of antidepressant paroxetine on aquatic organisms and human cells, *Science of The Total Environment*, 852, 158393 (**IF=9.8**)
51. Efthimiou I., **Vlastos D.**, Triantafyllidis V., Eleftherianos A., Antonopoulou M.\* (2022) Investigation of the genotoxicological profile of aqueous *Betula pendula* extracts. *Plants*, 11, 2673 (**IF=4.5**)
52. Antonopoulou M.\*, **Vlastos D.**, Dormousoglou M., Bouras S., Varela-Athanasatou M., Bekakou I-E. (2022) Genotoxic and toxic effects of the flame-retardant tris-(2-chloropropyl)-phosphate (TCPP) in human lymphocytes, microalgae and bacteria, *Toxics*, 10(12), 736 (**IF=4.6**)
53. Efthimiou I., **Vlastos D.**, Triantafyllidis V\*, Antonopoulou M.\* (2023) Kastoria and Mikri Prespa Lakes: The Impact of Anthropogenic Activities on the Differentiation in the Genotoxic and Toxic Profile of the Surface Water. *Land*. 12(1), 119 (**IF=3.9**)
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#### **LETTERS TO THE EDITORS, SCIENTIFIC REPORTS, ABSTRACTS AND PUBLICATIONS IN PROCEEDINGS-BOOKS OF INTERNATIONAL AND GREEK CONFERENCES, WORKSHOPS AND MEETINGS**

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