



## DIMITRIS VLASTOS

*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
Tel.	+30 2610 969239
E-mail	<a href="mailto:dvlastos@upatras.gr">dvlastos@upatras.gr</a>

### 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 ( <i>former: Department of Environmental and Natural Resources Management</i> ), University of Patras
2022-2024:		Associate Professor, Department of Biology, University of Patras
2024-	:	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 ( <i>former: Department of Environmental and Natural Resources Management, University of Western Greece/University of Patras</i> )]
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 ( <i>former</i> : 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)
<b>Under-graduate courses / Main courses</b>	
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 ( <i>former</i> : 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 ( <i>former</i> : Department of Environmental and Natural Resources Management), University of Patras]



2019-2022:	Special Topics in Genetic Engineering [Department of Environmental Engineering ( <i>former</i> : Department of Environmental and Natural Resources Management), University of Patras]
2019-2021:	Environmental Education and Ethics [Department of Environmental Engineering ( <i>former</i> : Department of Environmental and Natural Resources Management), University of Patras]
2017-2022:	General Biology [Department of Environmental Engineering ( <i>former</i> : 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)
2024- :	Molecular 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-	"A pilot study on the effect of non-continuous radiation on



20.7.2001	tobacco in vivo" Supported by Reacearch Committee of National and Kapodistrian University of Athens-Contract no. 70/3/5358
1.12.2001- 31.11.2002	"Cytogenetic monitoring of a farmer population exposed to pesticides in the Aitolokarnania area of Western Greece"  Supported by Reacearch Committee of University of Ioannina- Contract no. 1227
1.4.2004- 31.8.2007	"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" Supported by Ministry of National Education and Religious Affairs-Operational programme "Pythagoras"- Contract No. 11711
1.8.2017- 30.9.2018	Study on the toxic, cytotoxic and genotoxic effects of newly developed nanomaterials in <i>in vitro</i> 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 Biorefineries, 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

Dr. D. Vlastos began his independent academic career in 1998, one year after completing his PhD, as one of the founding faculty members of the Department of Environmental and Natural Resources Management at the University of Ioannina. The Department, located in the city of Agrinio, was later affiliated with the University of Patras in 2013 and renamed the Department of Environmental Engineering.

Throughout his career, Dr. Vlastos has made significant contributions to academic teaching and research. He played a central role in the development and delivery of numerous undergraduate and postgraduate laboratory courses in the field of Biology. He also established the Laboratory of Environmental Analysis and Mutagenesis, building its infrastructure from the ground up with support from National and European research funds.

Since February 2022, Dr. Vlastos has been a faculty member in the Department of Biology at the University of Patras, where he founded the Laboratory of Environmental Mutagenesis (EnvMUT Lab). The lab is dedicated to studying the genotoxic effects of environmental and anthropogenic factors that may pose risks to living organisms and ecosystems. Its interdisciplinary research aims to understand the mechanisms of genetic damage and its implications for environmental sustainability and human health.

The EnvMUT Lab focuses on:

- Genotoxicological effects of environmental agents such as radiation, pesticides, pharmaceuticals, nanoparticles, synthetic chemicals, pollutants, and treated/untreated waste on various organisms, including humans.
- Cytogenetic effects on human DNA resulting from occupational exposure to environmental pollutants.





- Detection and analysis of xenobiotic compounds in environmental samples (e.g., rainwater, soil, surface waters) and their genotoxic impact.
- Study of gene expression responses to environmental stressors.
- Extraction, isolation, and characterization of plant-derived compounds with potential biological activity.
- Evaluation of the antigenotoxic and antimutagenic effects of plant extracts on various biological systems.

Dr. Vlastos has authored 66 peer-reviewed publications in international journals (h-index: 19/22), with 1,078 citations on Scopus and 1,429 on Google Scholar (as of June 2025). Over the past 10 years, his team has produced 46 publications in journals with an average Impact Factor of 6.2.

His research group has presented its work in 105 conference contributions across 54 international and national (Greek) conferences, with 64 presentations delivered in the last decade. Dr. Vlastos has also been invited to speak at four international conferences and has served on the scientific and organizing committees of seven major international events, including:

- 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 Micropollutants in the Environment

Since 2010, when he obtained the right to supervise PhD theses as an Assistant Professor, Dr. Vlastos has supervised three PhD theses, co-supervised two additional PhDs, and guided five MSc theses (three in the last decade) and 52 undergraduate diploma theses (28 in the last 10 years). He has participated in nine National and European research projects, four of which were conducted within the past decade.

#### SYNOPSIS OF DATA METRICS

Publications	66
Citations ( <i>Scopus/Scholar Google/ResearchGate</i> )	1078/1429/1288
Average citations per paper	16.3/21.7/19.5
Total Impact Factor (IF)	364.9*
Average IF per paper	5.5*
<i>h</i> -index ( <i>Scopus/Scholar Google/Research Gate</i> )	19 / 22 / 21
Supervisor in MSc theses	5
Supervisor in PhD theses	3
Total Diploma theses	52
Co-Supervisor in PhD theses	2
Examiner in MSc theses	18
Examiner in PhD theses	8
Letters to the editors, reports, abstracts and publications in proceedings-books of conferences, workshops and meetings	105
Participation in funded research projects	10
Reviewer in Scientific journals	23
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	31
Member of Scientific Societies	4
Participation in seminars	3

#### PUBLICATIONS (*Impact factor 2023*)

1. 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)



2. Stephanou G., Andrianopoulos C., **Vlastos D.**, Demopoulos N.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. Pasmatzis 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., Akratos 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., Bletsa 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., Mademtoglou 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**)
  54. Dormousoglou M., Boti V., Hela D., **Vlastos D.**, Antonopoulou M., Chondrogiannis C., Petropoulou Y., Dailianis S.\* (2023) Beneficial properties of *Drimia numidica* leaf methanolic extract against the cytogenotoxic effects of mitomycin C on human lymphocytes, *Food and Chemical Toxicology*, 173, 113626 (**IF=4.3**)
  55. Dormousoglou M., Efthimiou I., Antonopoulou M.\*, Dailianis S., Herbst G., **Vlastos D.\*** (2023) Phytochemical analysis and genotoxicological evaluation of prickly pear peel extracts, *Plants*, 12, 1537 (**IF=4.5**)
  56. Antonopoulou M.\*, Bika P., Papailias I., Zervou S-K., Vrettou A., Efthimiou I., Mitrikas G., Ioannidis N., Trapalis C., Dallas P., **Vlastos D.**, Hiskia A. (2023) Photocatalytic degradation of organic micropollutants under UV-A and visible light irradiation by exfoliated g-C<sub>3</sub>N<sub>4</sub> catalysts, *Science of The Total Environment*, 892, 164218 (**IF=9.8**)



57. Dailianis S.\*, **Vlastos D.**, Zoppou C., Moschopoulou A., Antonopoulou M. (2023) Different isoforms of parabens into marine environment: biological effects on the bacterium *Aliivibrio fischeri* and the marine mussel *Mytilus galloprovincialis*, Science of The Total Environment, 900, 165902 (**IF=9.8**)
58. Spyrou A., **Vlastos D.**, Antonopoulou M.\* (2024) Evidence on the genotoxic and ecotoxic effects of PFOA, PFOS and their mixture on human lymphocytes and bacteria, Environmental Research, 248, 118298 (**IF=8.3**)
59. Dailianis S.\*, Rouni M., Ainali N-M., **Vlastos D.**, Kyzas G.Z., Lambropoulou D.A., Bikiaris D.N. (2024) New insights into the size-independent bioactive potential of pristine and UV-B aged polyethylene microplastics, Science of The Total Environment, 918, 170616. (**IF=9.8**)
60. Antonopoulou M.\*, Liles A., Spyrou A., **Vlastos D.**, Koronaiou L-A., Lambropoulou D. (2024) Assessment of UV-C/peroxymonosulfate process for the degradation of parabens mixture: Efficiency under different conditions, transformation pathways and ecotoxicity evolution, Journal of Environmental Chemical Engineering, 12(2), 112044 (**IF=7.7**)
61. Stavropoulou L.S., Efthimiou I., Giova L., Manoli C., Sinou P.S., Zografidis A., Lamari F.N., Vlastos D., Dailianis S., Antonopoulou M.\* (2024) Rhytochemical Profile and Evaluation of the Antioxidant Cyto-Genotoxic and Antigenotoxic Potential of *Salvia verticillata* Hydromethanolic Extract, Plants, 13, 731 (**IF=4.5**)
62. Antonopoulou M.\*, Tzamaría A., Pedrosa M.F.F., Ribeiro A.R.L., Silva A.M.T., Kaloudis T., Hiskia A., **Vlastos D.** (2024) Spirulina-based carbon materials as adsorbents for drinking water taste and odor control: Removal efficiency and assessment of cyto-genotoxic effects, Science of the Total Environment, 927, 172227. (**IF=8.2**)
63. Charalampous N., Antonopoulou M., Chasapis C.T., **Vlastos D.**, Dormousoglou M., Dailianis S. (2024) New insights into the oxidative and cytogenotoxic effects of Tetraglyme on human peripheral blood cells, Science of the Total Environment, 954, 176484. (**IF=8.2**)
64. Antonopoulou M.\*, Spyrou A., Giova L., Varela-Athanasatou M., Mouaimi M., Christodoulou N., Dailianis S., **Vlastos D.** (2025) Flame-retardant Tris(2-chloroethyl) phosphate: Assessing the effects on microalgae, mussel hemocytes and human peripheral blood cells, Environmental Research 276, 121512. (**IF=7.7**)
65. Antonopoulou M.\*, Tzamaría A., Papas S., Efthimiou I., **Vlastos D.** (2025) Assessment of Potential Toxic Effects of Fungicide Fludioxonil on Human Cells and Aquatic Microorganisms, Toxics, 13, 358 (**IF=3.9**)
66. Spyrou A., **Vlastos D.**, Ioannidi A.A, Frontistis Z., Mantzavinos D., Antonopoulou M.\* (2025) Tetrabromobisphenol A and its main degradation product 2,6-dibromophenol: Simultaneous removal by simulated solar light/chlorine advanced oxidation process and genotoxicity assessment, Chemical Engineering Journal, 515, 163145 (**IF=13.3**)

#### LETTERS TO THE EDITORS, SCIENTIFIC REPORTS, ABSTRACTS AND PUBLICATIONS IN PROCEEDINGS-BOOKS OF INTERNATIONAL AND GREEK CONFERENCES, WORKSHOPS AND MEETINGS

1. **Vlastos D.**, G. Stephanou, N.A. Demopoulos, The micronucleus induction in human lymphocytes as a experimental tool for the evaluation of the genetic damage caused by environmental factors, Symposium for the 25<sup>th</sup> anniversary of the Department of Biology of University of Patras, 1992.
2. **Vlastos D.**, N. Psaraki, G. Stephanou, N.A. Demopoulos, D. Tsampaos, Genotoxic effects of Cetirizine dihydrochloride on Human Lymphocyte *in vitro*, 22o Conference of European Environmental Mutagen Society (E.E.M.S.), 31 August-4 September, Berlin, Germany, Abstracts of 22nd annual meeting of EEMS, p.189, Berlin, Germany, 1992.



3. **Vlastos D.**, N. Psaraki, G. Stephanou, N.A. Demopoulos, D. Tsampaos. Genotoxic effects of Cetirizine dihydrochloride on Human Lymphocyte *in vitro*, Mutation Research-Fundamental and Molecular Mechanisms of Mutagenesis, Vol. 291, No. 3, p. 283, 1993. (**IF= 3.151**)
4. Stephanou G., **D. Vlastos**, D. Vlachodimitropoulos, N.A. Demopoulos. The effect of MNU on human lymphocyte cultures *in vitro* evaluated by O<sup>6</sup> - medGuO formation and micronuclei induction, 24o Conference of European Environmental Mutagen Society (E.E.M.S.), 31 Augoust-3 September, Poznan, Poland, Abstracts of 24th annual meeting of EEMS, p.66, Poznan, Poland, 1994.
5. **Vlastos D.**, G. Stephanou, N.A. Demopoulos. 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, Co-ordinator F. Pacchierotti In: A review of research in Environmental Health and Chemical Safety. Ecosystems Research Report no15, European Commission, Report Eur. 1590 EN, p.p. 133-134, 1995.
6. **Vlastos D.**, G. Stephanou. Study of the cytogenetic effects of the antiallergic medicin Ceterizine dihydrchloride using the micronucleus assay on human lymphocyte *in vitro*, 17<sup>th</sup> Conference of the Hellenic Society of Biological Sciences, 27-29 April, Patras, Proceedings of the 17<sup>th</sup> Conference of the Hellenic Society of Biological Sciences, p.400-402, Patras, Greece, 1995.
7. Stephanou G., N.A. Demopoulos, K. Andrianopoulos, **D. Vlastos**. Effects of 1,3- Butadiene and its metabolite 3,4- epoxy-1-butene on mouse splenocytes *in vivo*, EU Contact Group Meeting, Patras, Greece, 1996.
8. **Vlastos D.**, G. Stephanou, N.A. Demopoulos. Reply, Skin Pharmacology and Applied Skin Physiology, 12(6), p. 364, 1999. (**IF= 3.014**)
9. **Vlastos D.**, G. Stephanou, Reply to the letter to the editors by J.Roba, Archives of Dermatological Research, Vol. 291, No. 4, p. 245, 1999. (**IF= 3.033**)
10. Papapaulou P., **D.Vlastos**, G. Stephanou, N.A.Demopoulos. Effects of Linuron on human lymphocytes *in vitro*. Micronucleus induction and evaluation of clastogenic and aneugenic potential using fluorescence *in situ* hybridization (FISH), 1<sup>st</sup> European Conference on Pesticides and Related Organic Micro pollutants in the Environment, 5-8 October, Ioannina, Greece, Proceedings of the 1<sup>st</sup> European Conference on Pesticides and Related Organic Micro pollutants in the Environment, p.289, Ioannina, Greece, 2000.
11. **Vlastos D.**, G. Demsia, D. Matthopoulos. Pesticide effects on farmers. Evaluation of genetic damage in tobacco culture farmers, 2<sup>nd</sup> European Conference on Pesticides and Related Organic Micro pollutants in the Environment, 26-29 September, Corfu, Greece, Proceedings of the 2<sup>nd</sup> European Conference on Pesticides and Related Organic Micro pollutants in the Environment, p.391, Corfu, Greece, 2002.
12. **Vlastos D.**, G. Demsia, D. Matthopoulos. Potent genotoxic effects of Metalaxyl and Imidacloprid in human lymphocytes using the micronucleus assay *in vitro*, 3<sup>rd</sup> European Conference on Pesticides and Related Organic Micro pollutants in the Environment, 7-10 October, Halkidiki, Greece, Proceedings of the 3<sup>rd</sup> European Conference on Pesticides and Related Organic Micro pollutants in the Environment, p.417, Halkidiki, Greece, 2004.
13. **Vlastos D.**, P. Stivactakis, D. Matthopoulos. Micronuclei analysis in lymphocytes of farmers from Crete, Greece, 3<sup>rd</sup> European Conference on Pesticides and Related Organic Micro pollutants in the Environment, 7-10 October, Halkidiki, Greece, Proceedings of the 3<sup>rd</sup> European Conference on Pesticides and Related Organic Micro pollutants in the Environment, p.421, Halkidiki, Greece, 2004.
14. **Vlastos D.**, N. Ganidi. Genotoxicity of Fenthion in human lymphocytes assessed using the micronucleus assay *in vitro*, 3<sup>rd</sup> European Conference on Pesticides and Related Organic Micro pollutants in the Environment, 7-10



- October, Halkidiki, Greece, Proceedings of the 3<sup>rd</sup> European Conference on Pesticides and Related Organic Micro pollutants in the Environment, p.425, Halkidiki, Greece, 2004.
15. Stapleton D.R., C.G. Skoutelis, D. Mantzavinos, **D. Vlastos**, M. Papadaki. Photolytic destruction of halogenated pyridines in wastewaters, 1<sup>st</sup> Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE), 24-28 June, Skiathos, Greece. Proceedings of the 1<sup>st</sup> Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE), p. 1180, Skiathos, Greece, 2007.
  16. **Vlastos D.**, H. Moshou, D. Hela. Evaluation of genetic effects in farmers occupationally exposed to a mixture of pesticides, 3<sup>rd</sup> Environmental Conference of Macedonia, 14-17 March, Thessaloniki, Proceedings of the 3<sup>rd</sup> Environmental Conference of Macedonia, p. 196, Thessaloniki, Greece, 2008.
  17. Zacharaki T., M. Kostelletou, **D. Vlastos**. Pilot experiments in detecting micronuclei in the erythrocytes of fish *Carassius auratus auratus*, 30<sup>th</sup> Conference of the Hellenic Society of Biological Sciences, 22-24 May, Thessaloniki, Proceedings of the 30<sup>th</sup> Conference of the Hellenic Society of Biological Sciences, p. 130, Thessaloniki, Greece, 2008.
  18. Stapleton D.R., M. Papadaki, **D. Vlastos**, D. Mantzavinos. Photolytic destruction and genotoxicity history of 2-chloropyridine aqueous solutions, 2<sup>nd</sup> International Conference on Engineering for Waste Valorisation (WASTEENG), 3-5 June, Patras, Greece. Proceedings of the 2<sup>nd</sup> International Conference on Engineering for Waste Valorisation (WASTEENG), p. 277-278, Patras, Greece, 2008.
  19. Theodoridis I, **D. Vlastos**. Induction of micronuclei in erythrocytes of fishes treated to 2-chlorophenol, 31<sup>st</sup> Annual Conference of the Hellenic Society for Biological Sciences, 14-16 May, Patras, Proceedings of the 31<sup>st</sup> Annual Conference of the Hellenic Society for Biological Sciences, pp. 98-99, Patras, Greece, 2009.
  20. Theodorides I.T., C.G. Skoutelis, D.R. Stapleton, **D. Vlastos**, M.I. Papadaki. Genotoxicity studies of photolytically treated 2-chloropyridine aqueous solutions, 2<sup>nd</sup> International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE) & SECOTOX Conference, 21-26 June, Mykonos, Greece. Book of Abstracts of the 2<sup>nd</sup> International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE) & SECOTOX Conference, p. 38, Mykonos, Greece, 2009.
  21. Skoutelis C., M. Papadaki, **D. Vlastos**. Genotoxicity elimination of photolytically treated 2-chloropyridine and 2-hydroxypyridine in aqueous solutions, 33<sup>rd</sup> Annual Conference of the Hellenic Society for Biological Sciences, 19-21 May, Edessa, Proceedings of the 33<sup>rd</sup> Annual Conference of the Hellenic Society for Biological Sciences, pp. 292-293, Edessa, Greece, 2011.
  22. Vidali M-S., C. Skoutelis, **D. Vlastos**, Y. Deligiannakis. Genotoxic effects of carbon nanotubes and humic acid, 34<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, 17-19 May, Trikala, Proceedings of the 34<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, pp. 22-23, Trikala, Greece, 2012.
  23. Efthimiou I., M. Astyrakaki, C. Pandelidou, T. Chartomatsidou, E. Chalatsi, E. Drosopoulou, P. Mavragani-Tsipidou, **D. Vlastos**. Genotoxic and antigenotoxic effects of mastic water, 34<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, 17-19 May, Trikala, Proceedings of the 34<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, pp. 66-67, Trikala, Greece, 2012.
  24. Chalatsi E., T. Chartomatsidou, C. Pandelidou, M. Astyrakaki, Mademtzoglou D., I. Efthimiou., E. Drosopoulou, **D. Vlastos**, P. Mavragani-Tsipidou. Antimutagenic activity of mastic water, 34<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, 17-19 May, Trikala, Proceedings of the 34<sup>th</sup> Annual Conference of the Hellenic Society





- for Biological Sciences, pp. 344-345, Trikala, Greece, 2012.
25. Vidali M-S., **D. Vlastos**, E. Bletsas, Y. Deligiannakis. Genotoxicity study of Multi-Walled Carbon Nanotubes in the Presence of Humic Acids, 16<sup>th</sup> Meeting of International Humic Substances Society (IHSS), 9-16 September, Zhejiang University, Hangzhou, China, Proceedings of the 16<sup>th</sup> Meeting of International Humic Substances Society (IHSS), Zhejiang University, Hangzhou, China, 2012.
  26. Vidali, M. S., **D. Vlastos**, E. Bletsas, Y. Deligiannakis\* (2012). Genotoxicity Study of Multiwalled Carbon Nanotubes in the Presence of Humic Acids. In: J. Xu et al. (eds.), *Functions of Natural Organic Matter in Changing Environment*. DOI 10.1007/978-94-007-5634-2 135. © Zhejiang University Press and Springer Science+Business Media Dordrecht 2013, pp. 745-749.
  27. Charalampous N., V. Tsarpali, A. Kindou, **D. Vlastos**, S. Dailianis. Estimation of Asopos river water quality with the use of chemical and biological parameters, 35<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, 23-25 May, Nafplio, Proceedings of the 35<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, pp. 380-381, Nafplio, Greece, 2013.
  28. Toufexi E., V. Tsarpali, I. Efthimiou, M-S. Vidali, **D. Vlastos**, S. Dailianis. Environment risk of landfill leachate: a potent threat for aquatic organisms and human health, 35<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, 23-25 May, Nafplio, Proceedings of the 35<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, pp. 354-355, Nafplio, Greece, 2013.
  29. Panagaki D., M. Gavriilidis, K. Batziou, P. Kalamara, T. Chartomatsidou, C. Pandelidou, E. Drosopoulou, **D. Vlastos**, P. Mavragani-Tsipidou. Genotoxic and anti-genotoxic effect of chios mastic oil, 35<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, 23-25 May, Nafplio, Proceedings of the 35<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, pp. 264-265, Nafplio, Greece, 2013.
  30. Skoutelis C., M. Antonopoulou, I. Konstantinou, M. Papadaki, **D. Vlastos**. Photolytic destruction and genotoxicity reduction of 2-chloropyridine by-products in aqueous solutions, 35<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, 23-25 May, Nafplio, Proceedings of the 35<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, pp. 324-325, Nafplio, Greece, 2013.
  31. **Vlastos D.**, E. Drosopoulou, P. Mavragani-Tsipidou. The protective role of anti-mutagens in human nutrition: the example of Chios mastic water and its antimutagenic effects against the mutagenic agent mitomycin-C (MMC), II. International Food R&D Brokerage Event, 3-4 June, Izmir, Turkey, 2013 (*invited presentation after the evaluation of more than 400 proposals*).
  32. Georgopoulos S., C. G. Skoutelis, **D. Vlastos**, M. I. Papadaki. Treatment and removal of erythromycin from aqueous solutions, WIN4Life Conference, 19-21 September, Tinos, Greece, 2013.
  33. Tatoulis T.I., A.M. Damati, A.G. Tekerlekopoulou, **D. Vlastos**, D.P. Matthopoulos, D.V. Vayenas. Dairy wastewaters aerobic treatment and their genotoxic effects in cultured human lymphocytes, 5<sup>th</sup> Environmental Conference of Macedonia, 14-16 March, Thessaloniki, Proceedings of the 5<sup>th</sup> Environmental Conference of Macedonia, Thessaloniki, Greece, 2014.
  34. Kindou A., **D. Vlastos**\* (2014). Genotoxicity study of surface water samples from Mikri Prespa and Kastoria lakes, IWA Regional Symposium on Water, Wastewater and Environment: Traditions and Culture. 22-24 March, Patras, Greece, 2014. e-Proceedings, [wwetc2014.env.uwg.gr](http://wwetc2014.env.uwg.gr), Edited by: I. K. Kalavrouziotis and A. N. Angelakis, pp. 1181-1190, Hellenic Open University, Patras, Greece, 22-24 March 2014.
  35. Efthimiou I., E. Drosopoulou, P. Mavragani-Tsipidou, **D. Vlastos**. Cytotoxic, genotoxic and antigenotoxic effect of mastic oil on human lymphocyte cultures. 36<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, 8-10 May, Ioannina, Proceedings of the 36<sup>th</sup> Annual



- Conference of the Hellenic Society for Biological Sciences, pp. 88-89, Ioannina, Greece, 2014.
36. Kofidou D., S.Tsamadou, M. Anagnostopoulou, P. Kirizaki, M. Gavriilidis, E. Drosopoulou, **D. Vlastos**, P. Mavragani-Tsipidou. Evaluation of the mutagenic and antimutagenic effects of the major chios mastic water constituents, verbenone,  $\alpha$ -terpineol, linalool and trans-pinocarveol. 36<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, 8-10 May, Ioannina, Proceedings of the 36<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, pp. 178-179, Ioannina, Greece, 2014.
  37. Vidali M-S, E. Bletsas, G.C. Skoutelis, Y. Deligiannakis, **D. Vlastos**. Genotoxicity induction by Multi-Walled Carbon Nanotubes interacting with Humic acids in cultured human lymphocytes, 17<sup>th</sup> Meeting of International Humic Substances Society (IHSS), 1-5 September, Ioannina, Greece, Proceedings of the 17<sup>th</sup> Meeting of International Humic Substances Society (IHSS), pp. 289-290, Ioannina, Greece, 2014.
  38. Damati A, **D. Vlastos**, A.I. Philippopoulos, D.P. Matthopoulos. New organometallic compounds of Tin: Assessment of the in vitro genotoxicity, 8<sup>th</sup> European Conference on Pesticides and Related Organic Micro pollutants in the Environment, 18-21 September, Ioannina, Greece, Proceedings of the 8<sup>th</sup> European Conference on Pesticides and Related Organic Micro pollutants in the Environment, pp. 188-189, Ioannina, Greece, 2014.
  39. Tatoulis T.I., A.M. Damati, A.G. Tekerlekopoulou, **D. Vlastos**, C.S. Akratos, D.P. Matthopoulos, D.B. Vayenas. Study of aerobic degradation of organic matter from dairy wastewater and control of their genotoxic activity in human lymphocyte cultures. 6<sup>th</sup> Mikrobiokosmos Conference, New Horizons in the Micro World, 3-5 April, Athens, Greece, 2015.
  40. Efthimiou I., **D. Vlastos**. Study of genotoxic, antigenotoxic and cytotoxic potential of a birch product (silver birch; *Betula pendula*). 37<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, 21-23 May, Volos, Proceedings of the 37<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, pp. 110-111, Volos, Greece, 2015.
  41. Efthimiou I., M. Patila, D. Gournis, H. Stamatis, **D. Vlastos**. Genotoxic and cytotoxic activity of composite nanomaterials, montmorillonite-carbon nanotubes (CLAY-CNTS), montmorillonite-adamantylamine (CLAY-AD) and adamantylamine-graphene oxide (AD-GO). 37<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, 21-23 May, Volos, Proceedings of the 37<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, pp. 112-113, Volos, Greece, 2015.
  42. Tryfon P.K., I. Efthimiou, M. Antonopoulou, Y. Deligiannakis, I.K. Konstantinou, **D. Vlastos**. Evaluation of genotoxic effects of Ag@SiO<sub>2</sub> nanomaterials in human lymphocytes: a pilot study. 37<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, 21-23 May, Volos, Proceedings of the 37<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, pp. 392-393, Volos, Greece, 2015.
  43. Dormousoglou M., M. Antonopoulou, F. Konstantinou, I.K. Konstantinou, **D. Vlastos**. Evaluation of the acute toxicity and genotoxicity of pyrolytic tire char: a pilot study. 37<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, 21-23 May, Volos, Proceedings of the 37<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, pp. 106-107, Volos, Greece, 2015.
  44. Lavranou A., M. Antonopoulou, F. Konstantinou, I.K. Konstantinou, **D. Vlastos**. Evaluation of toxic and genotoxic potential of rainwater: a pilot study. 37<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, 21-23 May, Volos, Proceedings of the 37<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, pp. 200-201, Volos, Greece, 2015.
  45. Goutas A., A. Karyda, V. Tsarpali, E. Drosopoulou, S. Dailianis, **D. Vlastos**, P. Mavragani-Tsipidou. Evaluation of the toxic and genotoxic effects of the ionic liquids, 1-Butyl-3-methylimidazolium tetrafluoroborate



- ([BMIM]BF<sub>4</sub>) and 1-Methyl-3-octylimidazolium tetrafluoroborate ([OMIM]BF<sub>4</sub>) by the smart test. 37<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, 21-23 May, Volos, Proceedings of the 37<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, pp. 98-99, Volos, Greece, 2015.
46. Tatoulis T.I., A.M. Damati, A.G. Tekerlekopoulou, C.S. Akratos, **D. Vlastos**, D.P. Matthopoulos, D.V. Vayenas. Cheese factory wastewater: Studies of aerobic treatment and assessment of genotoxic and cytotoxic activity in vitro conditions, 10<sup>o</sup> Panhellenic Scientific Chemical Engineering Congress, 4-6 June, Patras, Greece, 2015.
  47. Antonopoulou M, A. Lavranou, I. Efthimiou, F. Konstantinou, I. Konstantinou, **D. Vlastos**. Toxic and genotoxic potency of rainwater samples from Greece on bacteria and human cells, SETAC Europe 26th Annual Meeting on Environmental contaminants from land to sea: continuities and interface in environmental toxicology and chemistry, p. 77 (MO019), 22-26 May, Nantes, France, 2016.
  48. Dormousoglou M, M. Antonopoulou, F. Konstantinou, I. Konstantinou, **D. Vlastos**. Evaluation of the acute toxicity and genotoxicity of pyrolytic tire chars, SETAC Europe 26th Annual Meeting on Environmental contaminants from land to sea: continuities and interface in environmental toxicology and chemistry, p. 77 (MO024), 22-26 May, Nantes, France, 2016.
  49. Tsarpali V, M. Antonopoulou, I. Efthimiou, **D. Vlastos**, I. Konstantinou, S. Dailianis. Human health risk assessment of imidazolium-based ionic liquids: the role of acetone to their function integrity and toxic profile, SETAC Europe 26th Annual Meeting on Environmental contaminants from land to sea: continuities and interface in environmental toxicology and chemistry, p. 79 (MO048), 22-26 May, Nantes, France, 2016.
  50. Goutas A., A. Karyda, V. Tsarpali, E. Drosopoulou, S. Dailianis, **D. Vlastos**, P. Mavragani-Tsipidou. Evaluating the effect of acetone on the toxic and genotoxic activity of the ionic liquids: 1-methyl-3-octylimidazolium tetrafluoroborate ([OMIM][BF<sub>4</sub>]) and 1-butyl-3-methylimidazolium tetrafluoroborate ([BMIM][BF<sub>4</sub>]). 38<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, 26-28 May, Kavala, Proceedings of the 38<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, pp. 46-47, Kavala, Greece, 2016.
  51. Ioannidou C, F. Tsilimigka, A. Goutas, G. Potsi, **D. Vlastos**, E. Drosopoulou, D. Gournis, P. Mavragani-Tsipidou. Evaluation of the toxic and genotoxic activity of three composite nanomaterials, (CLAY-CNTs, CLAY-AD, GO-AD) using smart assay. 38<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, 26-28 May, Kavala, Proceedings of the 38<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, pp. 68-69, Kavala, Greece, 2016.
  52. Anastasi-Papathanasi N, I. Efthimiou, E. Mouzourakis, Y. Georgiou, S. Dailianis, Y. Deligiannakis, **D. Vlastos**. Investigation of model ZnO nanoparticles mediated cytotoxic and oxidative effects on hemocytes of mussel *Mytilus galloprovincialis*. 39<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, 25-27 May, Lamia, Proceedings of the 39<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, pp. 26-27, Lamia, Greece, 2017.
  53. Efthimiou I, C. Ioannidou, F. Tsilimigka, A. Goutas, G. Potsi, A. Kouloumpis, **D. Vlastos**, E. Drosopoulou, D. Gournis, P. Mavragani-Tsipidou, H. Stamatis. Evaluation of the toxic, cytotoxic and genotoxic activity of three composite nanomaterials (CLAY/CNTs, CLAY/ADMA, GO/ADMA), 27th Annual Meeting of the Society of Environmental Toxicology and Chemistry Europe (SETAC Europe), p. 191-192 (TU075), 7-11 May, Brussels, Belgium, 2017.
  54. Dormousoglou M, S. Dailianis, A. Tsouloufa, I. Konstantinou, **D. Vlastos**, M. Antonopoulou, A. Lavranou, H.K. Karapanagioti, I. Manariotis. Physicochemical and biological characteristics of leachate from biochar



- produced from malt spent rootlets, 27th Annual Meeting of the Society of Environmental Toxicology and Chemistry Europe (SETAC Europe), p. 324 (TH181), 7–11 May, Brussels, Belgium, 2017.
55. Dormousoglou M, S. Dailianis, M. Antonopoulou, I. Konstantinou, **D. Vlastos**, A. Lavranou, H.K. Karapanagioti, I. Manariotis. Physicochemical and biological characteristics of leachate from biochar produced from malt spent rootlets. 39<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, 25-27 May, Lamia, Proceedings of the 39<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, pp. 96-97, Lamia, Greece, 2017.
  56. Drakaki E, F. Konstantinou, D. Mavrogianni, M. Antonopoulou, P. Drakakis, **D. Vlastos**. Genotoxic effects of the insect repellent N,N-DIETHYLMETA-TOLUAMIDE (DEET) and alterations in the expression of retinoblastoma gene on human lymphocytes. 39<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, 25-27 May, Lamia, Proceedings of the 39<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, pp. 98-99, Lamia, Greece, 2017.
  57. Efthimiou I, E. Mouzourakis, Y. Georgiou, **D. Vlastos**, S. Dailianis, Y. Deligiannakis. Genotoxic and cytotoxic activity of novel ZnO nanoparticles in human lymphocytes with and without humic acids. 40<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, 24-26 May, Veroia, Proceedings of the 40<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, pp. 104-105, Veroia, Greece, 2018.
  58. Vidali M-S, **D. Vlastos**, S. Dailianis, P. Georgiadis. Analysis of the biological effects of persistent organic pollutants (POPs) on human leukocyte cell lines and peripheral blood mononuclear cells. 40<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, 24-26 May, Veroia, Proceedings of the 40<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, pp. 42-43, Veroia, Greece, 2018.
  59. Dormousoglou M, Y. Petropoulou, **D. Vlastos**, S. Dailianis. Genotoxic, antigenotoxic and cytotoxic effect of *Drimia maritima* methanolic leaf extracts on human lymphocytes. 40<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, 24-26 May, Veroia, Proceedings of the 40<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, pp. 102-103, Veroia, Greece, 2018.
  60. Efthimiou I, N. Anastasi-Papathanasi, E. Mouzourakis, Y. Georgiou, S. Dailianis, Y. Deligiannakis, **D. Vlastos**. In vitro toxicity of model Zn nanoparticles on hemocytes of mussel *Mytilus galloprovincialis*, 28th Annual Meeting of the Society of Environmental Toxicology and Chemistry Europe (SETAC Europe), p. 496-497 (WE306), 13–17 May, Rome, Italy, 2018.
  61. Papadaki M, S. Georgopoulos, **D. Vlastos**, D. Mantzavinos, G. Tsiamis, Massimiliano Errico, R.P. Stateva, D. Yankov, G. Cholakov, J. Coelho, R. Felipe, P. Robalo, M. Martin, H.A. Matos, C. Pastore, L. di Bitonto, S. Santzouk, P. Angeli, D. Tsaoulidis, G.J. Lye, A. Bonilla Petriciolet, D.I. Mendoza Castillo, M.S. Mannan, M. El-Halwagi, D. Segupta, C. Mashuga, M.L. Corazza, L.P. Ramos. Valorisation of residual biomass from the cultivation of olive trees in mountainous areas. Fifth International Symposium on Green Chemistry, Sustainable Development and Circular Economy, SECOTOX Conference, 30 September-3 October, Skiathos, Greece, 2018. Book of Abstracts of the 5<sup>th</sup> International Symposium on Green Chemistry, Sustainable Development and Circular Economy, SECOTOX Conference, p. XX, Skiathos, Greece, 2018.
  62. Efthimiou I, G. Kalamaras, A-K. Koukouvini, E. Mouzourakis, Y. Georgiou, S. Dailianis, Y. Deligiannakis, **D. Vlastos**. In vitro toxicity of model ZnO-Ag nanoparticles in human lymphocytes and hemocytes of mussel *Mytilus galloprovincialis*. 55th Congress of European Societies of Toxicology (EUROTOX 2019), September 8-11, Helsinki, Finland, 2019
  63. Chatzipanagiotou S, I. Efthimiou, E. Nikolakopoulou, E. Mouzourakis, Y. Georgiou, **D. Vlastos**, S. Dailianis, Y. Deligiannakis. Genotoxic and





- cytotoxic activity of novel ZnO-Ag nanoparticles in human lymphocytes in the presence of humic acids. 41<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, 9-11 May, Katerini, Proceedings of the 41<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, pp. 297-298, Katerini, Greece, 2019.
64. Vidali M-S, S. Dailianis, **D. Vlastos**, P. Georgiadis. Analysis of the biological effects of persistent organic pollutants (POPs) on human peripheral blood mononuclear cells. 40<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, 24-26 May, Veroia, Proceedings of the 41<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, pp. 61-62, Katerini, Greece, 2019.
  65. Kalamaras G, I. Efthimiou, **D. Vlastos**, Y. Deligiannakis, S. Dailianis. Investigation of cytotoxic and oxidative effects of novel AgZnO nanoparticles on hemocytes of mussel *Mytilus galloprovincialis*. 41<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, 9-11 May, Katerini, Proceedings of the 41<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, pp. 111-112, Katerini, Greece, 2019.
  66. Koukouvini A-K, I. Efthimiou, E. Mouzourakis, Y. Georgiou, **D. Vlastos**, S. Dailianis, Y. Deligiannakis. Genotoxic and cytotoxic activity of novel ZnO-Ag nanoparticles in human lymphocytes. 41<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, 9-11 May, Katerini, Proceedings of the 41<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, pp. 141-142, Katerini, Greece, 2019.
  67. Vidali M-S, S. Dailianis, **D. Vlastos**, P. Georgiadis. Analysis of the biological effects of persistent organic pollutants (PoPs) on human leukocyte cell lines and peripheral blood mononuclear cells. 19<sup>th</sup> International Symposium on Toxicity Assessment, Pollution and Environmental Health, Book of Abstracts of the 19<sup>th</sup> International Symposium on Toxicity Assessment, Pollution and Environmental Health, p. 61, August 25-30, Thessaloniki, Greece, 2019.
  68. Dormousoglou M, **D. Vlastos**, Y. Petropoulou, S. Dailianis. Investigation of the cytoprotective and antigenotoxic potential of methanolic leaf extracts from plants of the genus *Drimys*, using the Cytokinesis-Block Micronucleus (CBMN) assay in human lymphocytes. 19<sup>th</sup> International Symposium on Toxicity Assessment, Pollution and Environmental Health, Book of Abstracts of the 19<sup>th</sup> International Symposium on Toxicity Assessment, Pollution and Environmental Health, p. 62, August 25-30, Thessaloniki, Greece, 2019.
  69. Efthimiou I, E. Mouzourakis, Y. Georgiou, **D. Vlastos**, S. Dailianis, Y. Deligiannakis. Assessment of the genotoxic and cytotoxic potential of model Ag nanoparticles in human lymphocytes with and without humic acids. 19<sup>th</sup> International Symposium on Toxicity Assessment, Pollution and Environmental Health, Book of Abstracts of the 19<sup>th</sup> International Symposium on Toxicity Assessment, Pollution and Environmental Health, p. 99, August 25-30, Thessaloniki, Greece, 2019.
  70. Vidali M-S, S. Dailianis, **D. Vlastos**, P. Georgiadis. Analysis of the biological effects of persistent organic pollutants (PoPs) on human leukocyte cell lines and peripheral blood mononuclear cells. 55<sup>th</sup> Congress of European Societies of Toxicology (EUROTOX 2019), September 8-11, Helsinki, Finland, 2019. Abstracts of the 55<sup>th</sup> Congress of the European Societies of Toxicology (EUROTOX 2019) TOXICOLOGY – SCIENCE PROVIDING SOLUTIONS, P04-023, S198 Abstracts / Toxicology Letters 314S1 (2019) S1–S309 Helsinki, Finland, 8th –11th of September, 2019.
  71. Efthimiou I, G. Kalamaras, A-K. Koukouvini, E. Mouzourakis, Y. Georgiou, S. Dailianis, Y. Deligiannakis, **D. Vlastos**. *In vitro* toxicity of model ZnO-Ag nanoparticles in human lymphocytes and hemocytes of mussel *Mytilus galloprovincialis*. 55<sup>th</sup> Congress of European Societies of Toxicology (EUROTOX 2019), September 8-11, Helsinki, Finland, 2019. Abstracts of the 55<sup>th</sup> Congress of the European Societies of Toxicology (EUROTOX 2019) TOXICOLOGY – SCIENCE PROVIDING



- SOLUTIONS, P11-P010, S199 Abstracts / Toxicology Letters 314S1 (2019) S1–S309 Helsinki, Finland, 8th –11th of September, 2019.
72. Efthimiou I., Dormousoglou M., **Vlastos D.**, Papadaki M. Towards improved valorisation of (*Betula pendula*): preliminary study of the genotoxic, antigenotoxic and cytotoxic potential of a commercial aqueous silver birch leaf extract. ProGreS first Workshop, Biomass selection, characterization and valorization, 23-24 September, Sofia, Bulgaria, 2019.
  73. Vidali M-S., S. Dailianis, **D. Vlastos**, P. Georgiadis. Epigenetic effect of Persistent Organic Pollutants (POPs) on Peripheral Blood Mononuclear Cells (PBMCs). 70th Panhellenic Congress on Biochemistry and Molecular Biology, Hellenic Society of Biochemistry and Molecular Biology, 29 November – 1 December, Athens, Greece, 2019.
  74. Efthimiou I, G. Kalamaras, A-K. Koukouvini, E. Mouzourakis, Y. Georgiou, S. Dailianis, Y. Deligiannakis, **D. Vlastos**. *In vitro* toxicity of model ZnO-Ag nanoparticles in human lymphocytes and hemocytes of mussel *Mytilus galloprovincialis*. Toxicology Letters 314S1, S1–S309, 2019. (IF= 3.569)
  75. Dormousoglou M., I. Efthimiou, D.L. Fetzer, F. Hamerski, M.L. Corazza, M. Papadaki, S. Santzouk, **D. Vlastos**. High value products from the extraction of Equisetum arvense leaves. 8th International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE) and SECOTOX Conference, 20-24 July, Thessaloniki, Greece, 2021.
  76. Dormousoglou M., Efthimiou I., Fetzer D.L., Hamerski F., Corazza M.L., **Vlastos D.**, Santzouk S., Papadaki M. Antioxidant properties of prickly pear waste, IProPBio Workshop Series, Valuable products from residual biomasses towards a greener society (ProGreS), Book of Extended Abstracts of the ProGreS 2nd Workshop: From biomass characterization to process synthesis, p. 52, 16-17 May, Lisbon, Portugal, 2022.
  77. Dormousoglou M., Efthimiou I., Fetzer D.L., Hamerski F., Corazza M.L., Santzouk S., **Vlastos D.**, Papadaki M. Valorization of *Equisetum arvense* leaves for production of high value products, IProPBio Workshop Series, Valuable products from residual biomasses towards a greener society (ProGreS), Book of Extended Abstracts of the ProGreS 2nd Workshop: From biomass characterization to process synthesis, p. 59, 16-17 May, Lisbon, Portugal, 2022.
  78. Spyrou A., A. Skourti, M. Dormousoglou, **D.Vlastos**, M. Antonopoulou. Comparative study of the cytotoxicity between two pharmaceuticals and their oxidation products on human cells. 8th International Conference “ICOEST” on Environmental Science and Technology, 18-22 May, Istanbul, Turkey, 2022. Book of Abstracts, 8th International Conference “ICOEST” on Environmental Science and Technology, p. 3, 18-22 May, Istanbul, Turkey, 2022.
  79. Dormousoglou M., Charalambous N., Dailianis S., Vlastos D., Antonopoulou M. Investigation of the genotoxic, cytotoxic and antigenotoxic potential of Prickly pear peel on human lymphocytes. 8th International Conference "ICOEST" on Environmental Science and Technology, 18-22 May, Istanbul, Turkey, 2022. Book of Abstracts, 8th International Conference “ICOEST” on Environmental Science and Technology, p. 9, 18-22 May, Istanbul, Turkey, 2022.
  80. Dormousoglou M., L-E. Giova, A. Lisgara, M. Antonopoulou, D. Vlastos, S. Dailianis. The effect of different forms of parabens on fresh- and saltwater algae: the case of methyl- (MeP) and propyl (PrP) paraben. 8th International Conference "ICOEST" on Environmental Science and Technology, 18-22 May, Istanbul, Turkey, 2022. Book of Abstracts, 8th International Conference “ICOEST” on Environmental Science and Technology, p. 10, 18-22 May, Istanbul, Turkey, 2022.
  81. Spyrou A., A. Skourti, M. Dormousoglou, **D. Vlastos**, M. Antonopoulou. Cytotoxicity assessment of pharmaceutical compound paroxetine on human cells. 9th International Conference on Environmental Management,



- Engineering, Planning and Economics (CEMEPE) and SECOTOX Conference, 5-9 June, Mykonos Island, Greece, 2022. Proceedings of the 9th International Conference on Environmental Management, Engineering, Planning and Economics, p. 423, 5-9 June, Mykonos Island, Greece, 2022.
82. Dormousoglou M., **D. Vlastos**, S. Dailianis, M. Antonopoulou. Investigation of the genotoxic, cytotoxic and antigenotoxic potential of different extracts from *Equisetum arvense*, using the Cytokinesis-Block Micronucleus (CBMN) assay in human lymphocytes. 9th International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE) and SECOTOX Conference, 5-9 June, Mykonos Island, Greece, 2022. Proceedings of the 9th International Conference on Environmental Management, Engineering, Planning and Economics, pp. 498-499, 5-9 June, Mykonos Island, Greece, 2022.
  83. Charalambous N., M. Dormousoglou, C.T. Chasapis, **D. Vlastos**, S. Dailianis. Tetraglyme-mediated cytotoxic and genotoxic effects on human lymphocytes: the role of pH-dependent derivatives. 9th International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE) and SECOTOX Conference, 5-9 June, Mykonos Island, Greece, 2022. Proceedings of the 9th International Conference on Environmental Management, Engineering, Planning and Economics, p. 422, 5-9 June, Mykonos Island, Greece, 2022.
  84. Spyrou A., **D. Vlastos**, M. Antonopoulou. Investigation of advanced oxidation processes for the removal of highly recalcitrant anthropogenic chemicals from aquatic systems. 11<sup>th</sup> European Conference on Pesticides and Related Organic Micro pollutants in the Environment, 23-26 June, Ioannina, Greece, 2022. Abstracts of the 11<sup>th</sup> European Conference on Pesticides and Related Organic Micro pollutants in the Environment, p. 57, 23-26 June, Ioannina, Greece, 2022.
  85. Manoli P., D. Hela, I. Efthimiou, **D. Vlastos**, D. Lambropoulou, E. Petrou, P. Kassomenos. Evaluation of pollution and ecotoxicity parameters of rainwater in Ioannina basin. 11<sup>th</sup> European Conference on Pesticides and Related Organic Micro pollutants in the Environment, 23-26 June, Ioannina, Greece, 2022. Abstracts of the 11<sup>th</sup> European Conference on Pesticides and Related Organic Micro pollutants in the Environment, p. 18, 23-26 June, Ioannina, Greece, 2022.
  86. Charalambous N., M. Dormousoglou, C.T. Chasapis, **D. Vlastos**, S. Dailianis. Investigation of the potential cytotoxic and genotoxic effects of Tetraglyme in human lymphocytes. Protection and Restoration of the Environment XVI Conference, 5-8 July, Kalamata, Greece, 2022.
  87. Antonopoulou, M., Dormousoglou, M., Efthimiou, I., Spyrou, A., Fetzer, D.L., Hamerski, F., Corazza, M.L., Papadaki, M., Santzouk, S., Dailianis, S., **Vlastos, D.** Applications of advanced mass spectrometry techniques for the chemical characterization of *Equisetum arvense* L. extract. 3rd workshop related to the IProPBio project: "From biomass Characterisation to Process Synthesis", 3-4 November, Salamanca, Spain, 2022.
  88. Rouni M., Bikiaris D., Kaloyianni M., **Vlastos D.**, Dailianis S. Investigation of cyto-genotoxic and oxidative effects of virgin and aged (UV-irradiated) polyethylene microplastics on human lymphocytes. 42<sup>nd</sup> Annual Conference of the Hellenic Society for Biological Sciences, 18-20 May, Thessaloniki, Proceedings of the 42<sup>nd</sup> Annual Conference of the Hellenic Society for Biological Sciences, pp. 238-239, Thessaloniki, Greece, 2023.
  89. Tzamaria A., Papas S., Giova L-E., Efthimiou I., Antonopoulou M., **Vlastos D.** Investigation of the toxic potential of the pesticide fludioxonil. 42<sup>nd</sup> Annual Conference of the Hellenic Society for Biological Sciences, 18-20 May, Thessaloniki, Proceedings of the 42<sup>nd</sup> Annual Conference of the Hellenic Society for Biological Sciences, pp. 272-273, Thessaloniki, Greece, 2023.
  90. Giova L-E., Mouaimi M., Varela-Athanasatou M., Spyrou A., Efthimiou I., Antonopoulou M., **Vlastos D.** Assessment of the toxicity of the flame-retardant tris(2-chloroethyl)phosphate (TCEP). 42<sup>nd</sup> Annual Conference of



- the Hellenic Society for Biological Sciences, 18-20 May, Thessaloniki, Proceedings of the 42<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, pp. 44-45, Thessaloniki, Greece, 2023.
91. Efthimiou I., Stayropoulou L., Manoli C., Giova L-E., Lamari F., **Vlastos D.** Phytochemical analysis and genotoxicological evaluation of *Salvia verticillata* extract. 42<sup>nd</sup> Annual Conference of the Hellenic Society for Biological Sciences, 18-20 May, Thessaloniki, Proceedings of the 42<sup>nd</sup> Annual Conference of the Hellenic Society for Biological Sciences, pp. 70-71, Thessaloniki, Greece, 2023.
  92. Palaiologou E., Arseni E-M., Ioannidou C., Dormousoglou M., **Vlastos D.**, Drosopoulou E. Genotoxic and antigenotoxic effects of Hippophae juice. 42<sup>nd</sup> Annual Conference of the Hellenic Society for Biological Sciences, 18-20 May, Thessaloniki, Proceedings of the 42<sup>nd</sup> Annual Conference of the Hellenic Society for Biological Sciences, pp. 198-199, Thessaloniki, Greece, 2023.
  93. Drosos M., Antonopoulou M., Efthimiou I., Xiong L., Li M., Sotiriou V., Giannakopoulos E., **Vlastos D.**, Scopa A., Piccolo A. Soil washing with humic substances: a toxicity constraintment technique for a successful soil remediation. 21<sup>st</sup> International Conference of the IHSS, Natural organic matter and humic substances for sustainable development, 6-11 Augoust, Santiago, Chile, 2023.
  94. Efthimiou I., **Vlastos D.** Nanoparticles in the environment: Genotoxic and toxic effects of selected manufactured nanoparticles in human cells, bacteria and aquatic organisms. 11<sup>st</sup> Conference of the Hellenic Ecological Society, 4-7 October, Patras, Proceedings of the 11<sup>st</sup> Conference of the Hellenic Ecological Society, pp. 55-56, Patras, Greece, 2023.
  95. Spyrou A., **Vlastos D.**, Antonopoulou M. Tetrabromobisphenol A and its main degradation product: genotoxicity study and efficient removal. 1<sup>st</sup> Aristotle Conference on Chemistry, Advances and Challenges in Chemistry, 12-15 November, Thessaloniki, ACC2023 Draft Book of Abstracts of the 1<sup>st</sup> Aristotle Conference on Chemistry, p. 54, Thessaloniki, Greece, 2023.
  96. Spyrou A., **Vlastos D.**, Ioannidi A.A., Frontistis Z., Mantzavinos D., Antonopoulou M. Detoxification of contaminated water from persistent organic pollutants by homogeneous advanced oxidation processes. Proceedings of the 8th International Electronic Conference on Water Sciences, 14–16 October, MDPI: Basel, Switzerland, 2024.
  97. Christodoulou N., Varela-Athanasatou M., Mouaimi M., Giova L-E., Spyrou A., Antonopoulou M., Dailianis S., **Vlastos D.** The effects of the flame retardant tris(2-chloroethyl) phosphate (TCEP) on human lymphocyte cultures, mussel hemocytes, and selected species of microalgae. 14<sup>th</sup> Conference of the Panhellenic Union of Bioscientists on Biology in the Age of New Technologies: Challenges and Opportunities, 20-22 December, Athens, Greece, 2024.
  98. Fiste A-A., Ainali N-M., Giova L-E., Lambropoulou D.A., Bikiaris D.N., Dailianis S., **Vlastos D.** Effect of aged polyethylene microplastics (PE-MPs) on the growth of the microalga *Scenedesmus rubescens*. 14<sup>th</sup> Conference of the Panhellenic Union of Bioscientists on Biology in the Age of New Technologies: Challenges and Opportunities, 20-22 December, Athens, Greece, 2024.
  99. Efthimiou I., Georgiou Y., **Vlastos D.**, Dailianis S., Deligiannakis Y. Synthesis of Ag, ZnO/Ag, TiO<sub>2</sub>, and TiO<sub>2</sub>/Ag nanoparticles and evaluation of their genotoxic and cytotoxic effects in the presence and absence of humic acids. 14<sup>th</sup> Conference of the Panhellenic Union of Bioscientists on Biology in the Age of New Technologies: Challenges and Opportunities, 20-22 December, Athens, Greece, 2024.
  100. Giova L., Lamari F.N., Antonopoulou M., Dailianis S., **Vlastos D.** Evaluating the Antioxidant Potential and Antigenotoxicity of *Citrus reticulata* (Mandarin) peel extract. 44<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, 22-24 May, Ioannina, Proceedings of the





- 44<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, pp. 89-90, Ioannina, Greece, 2025.
101. Efthimiou I., Sinou P.S., Giova L., Lamari F.N., **Vlastos D.** Phytochemical analysis and investigation of beneficial properties of a hydromethanolic *Salvia pomifera* extract. 44<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, 22-24 May, Ioannina, Proceedings of the 44<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, pp. 109-110, Ioannina, Greece, 2025.
  102. Fiste A.A., Giova L., **Vlastos D.** The impact of heated tobacco products (HTPS) on the growth of the microalgae *Scenedesmus rubescens*. 44<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, 22-24 May, Ioannina, Proceedings of the 44<sup>th</sup> Annual Conference of the Hellenic Society for Biological Sciences, pp. 327-328, Ioannina, Greece, 2025.
  103. Spyrou A., **Vlastos D.**, Antonopoulou M. Assessing the cyto-genotoxic effects of 2,4,6-Tribromophenol and its musty-smelling derivative 2,4,6-Tribromoanisole.  
2nd International Online Conference on Toxics. Pesticides, Pollutants, and Health Risk. 08-10 September, sciforum-126771, MDPI: IOCT Conference, 2025.
  104. Giova L., Trikalinou K-L., Zygouros L., Lamari F.N., Antonopoulou M., Dailianis S., **Vlastos D.** Valorization of agri-food waste and by-products: Antioxidant and antigenotoxic properties of citrus extracts. 19<sup>th</sup> Postgraduate Students' Conference of the Department of Biology, 5 June, Patras, 2025.
  105. Giova L., Birba V.S, Antonopoulou M., Lamari F.N, Dailianis S., **Vlastos D.** Valorization of Citrus Fruits Peel Waste: Antioxidant Potential and Antigenotoxicity of *Citrus limon* (Lemon) Extract. 59th Congress of European Societies of Toxicology (EUROTOX 2025), September 14-17, Athens, Greece, 2025. Abstracts of the 59th Congress of the European Societies of Toxicology (EUROTOX 2025), P12 Food Toxicology (PV01), P12-17, Athens, Greece, 14th –17th of September 2025.

