

CURRICULUM VITAE

CHATZIKONSTANTINO V. ALEXANDRA
MSc, PhD

Biologist specializing in Enzyme Biotechnology

MARCH 2026

Contents

1. PERSONAL INFORMATION	3
2. EDUCATION	3
3. SCHOLARSHIPS	3
4. FURTHER TRAINING	4
5. SPECIAL SKILLS	4
6. OTHER SCIENTIFIC ACTIVITIES	4
6.1. Reviewing for International Journals	4
6.2. Workshop Organization	4
6.3. Membership in Scientific Societies	5
7. PATENTS	5
8. MONOGRAPHS	5
.....	5
9. PUBLISHED SCIENTIFIC WORK	6
9.1. PEER-REVIEWED JOURNAL PUBLICATIONS (30)	7
9.2. CONFERENCE PROCEEDINGS (1)	10
9.3. CONFERENCE PROCEEDINGS ORAL PRESENTATIONS (10)	11
9.4. CONFERENCE PROCEEDINGS POSTERS (42)	12
10. PROFESSIONAL EXPERIENCE	17
10.1. PROFESSIONAL EXPERIENCE	17
10.2. RESEARCH PROGRAMS (5)	17
11. TEACHING EXPERIENCE	19
12. TRAINING IN TEACHING NATURAL SCIENCES AND SECONDARY EDUCATION ISSUES	20

1. PERSONAL INFORMATION

Full Name	CHATZIKONSTANTINOY ALEXANDRA
Date of Birth	01 June 1988
Place of Birth	Serres
Nationality	Greek
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Scopus ID	55654088500
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2. EDUCATION

2015-2019	PhD in Department of Biological Applications & Technology, of University of Ioannina, in "Enzymatic methods for bio-modification of natural compounds with the aim of improving their biological activity".
2012-2014	Master in Department of Chemistry, of University of Ioannina, in "Biophysical methods for the optimization of biocatalytic processes for the modification of natural products: Design, Synthesis, Biological Evaluation".
2006-2011	Degree of Biological Applications & Technology Department, University of Ioannina (Grade 7.1/10). Diploma Thesis: "Synthesis of novel hybrid bioactive molecules with enzymes, in green media"

3. SCHOLARSHIPS

08-12-2016	I.K.Y. scholarship which was funded by the Operational Program <<Human Resources Development, Education and Lifelong Learning>>, 2014-2020 with the co-financing of the European Social Fund (ESF) and the Greek National Funds.
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4.FURTHER TRAINING

- 18-22-09-2017 iNext Training and Dissemination Workshop Fellowship, "Bridging solution methods: from NMR to X-ray scattering and biophysics". The workshop was organized in the context of the iNext Horizon2020, project Department of Pharmacy University of Patras, Greece.
- 2015 Training in Enzyme Catalysis Lab, Prof. Uwe T. Bornscheuer's group, University of Greifswald, Germany, under IKYDA program: "Development of new biotechnological tools for effective management of agro-industrial lignocellulosic wastes," supervised by Prof. Haralambos Stamatidis.

5.SPECIAL SKILLS

- | | |
|-----------|-------------------------------|
| English | Proficiency of Michigan, 2012 |
| Computers | ECDL level proficiency |

6. OTHER SCIENTIFIC ACTIVITIES

6.1. Reviewing for International Journals

Reviewer for journals such as Biomolecules, Agriculture, Reactions (MDPI), Microchimica Acta (Springer), Experimental Biology and Medicine (Sage).

6.2. Workshop Organization

- 11/12/2013 – 8/1/2014 Workshop on Techniques in Biotechnology Dept. of Biological Applications and Technologies University of Ioannina
- 27/3/2014-25/4/2014 Workshop on Techniques in Enzyme Biotechnology Dept. of Biological Applications and Technologies University of Ioannina

6.3. Membership in Scientific Societies

- Member of the interdisciplinary Nanomedicine and Nanobiotechnology research group of the University of Ioannina (Nanomedicine and Nanobiotechnology Research Group, UOI - NNRgUOI, <https://nanombr.ac.uoi.gr/>). The NNRgUOI research group is dedicated to the application of nanotechnology and nanomaterials in biology/biotechnology, pharmacology and pathophysiology. The group was created in 2018 by the joint collaboration of the Laboratory of Physiology (School of Medicine), the Laboratory of Biotechnology (Department of Biological Applications and Technologies), the Laboratory of Ceramics and Composite Materials (Department of Materials Science and Engineering) and the Nephrology Clinic of the Department of Pathology of the University of Ioannina. It consists of chemists, biologists/biotechnologists, nutritionists, clinicians and materials scientists and develops collaborations with academic institutions and industries nationally and globally.
- Member of Panhellenic Union of Bioscientists (PEB) since 2020

7. PATENTS

- Greek Patent: A. Tzakos, H. Stamatis, I. Gerothanassis, A. Chatzikonstantinou et al., "System and Method for the preparation, identification and biological evaluation of natural analogs," Industrial Property Organization 2016, No. 1009100. Involves a 5 mm NMR tube bioreactor for real-time biotransformation monitoring.

8. MONOGRAPHS

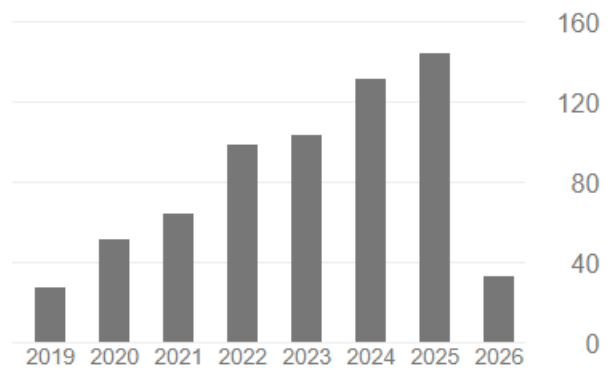
- "Enzymatic methods for bio-modification of natural compounds with the aim of improving their biological activity" PhD Thesis (257 pages), Ioannina, 2019
- "Biophysical methods for optimizing biocatalytic processes... Biophysical methods for the optimization of biocatalytic processes for the modification of natural products: Design, Synthesis, Biological Evaluation" MSc Thesis (172 pages), Ioannina, 2014
- "Preparation of new hybrid bioactive molecules..." Bachelor's Thesis (103 pages), Ioannina, 2011

9. PUBLISHED SCIENTIFIC WORK

METRICS

According to Google Scholar March 2026:

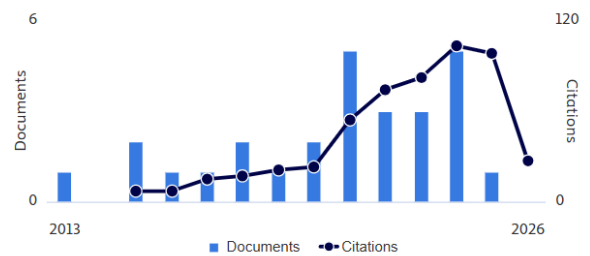
713 citations,
h-index 14
i10-index 20



According to Scopus March 2026:

528 citations (by 464 documents)
h-index 14
documents 27

Document & citation trends



[Citation overview](#) [Analyze author output](#)

9.1. PEER-REVIEWED JOURNAL PUBLICATIONS (30)

1. Myrto G. Bellou, Anastasia Skonta, Alexandra V. Chatzikonstantinou, Angeliki C. Polydera, Petros Katapodis, Epaminondas Voutsas and Haralambos Stamatis*, 4. Enzymatic Oxidation of Hydroxytyrosol in Deep Eutectic Solvents for Chitosan Functionalization and Preparation of Bioactive Nanogels, *Catalysts* 2025, 15(2), 180, <https://doi.org/10.3390/catal15020180> (Article)
2. Angelos Papanikolaou, Alexandra V. Chatzikonstantinou*, Renia Fotiadou, Aliko Tsakni, Dimitra Houhoula, Angeliki C. Polydera, Ioannis V. Pavlidis and Haralambos Stamatis*, 'A Study on the Regioselective Acetylation of Flavonoid Aglycons Catalyzed by Immobilized Lipases', *Biomolecules* 2024, 14(8), 897; <https://www.mdpi.com/2218-273X/14/8/897> (Article)
3. Stamatia Spyrou, Myrto G. Bellou, Angelos Papanikolaou, Konstantina Nakou, Vasiliki G. Kontogianni, Alexandra V. Chatzikonstantinou*, Haralambos Stamatis*, 'Evaluation of Antioxidant, Antibacterial and Enzyme-Inhibitory Properties of Dittany and Thyme Extracts and Their Application in Hydrogel Preparation', *BioChem* 2024, 4(3), 166-188; <https://doi.org/10.3390/biochem4030009> (Article)
4. Panagiotis Evangelos Athanasiou, Michaela Patila, Renia Fotiadou, Alexandra Vassileios Chatzikonstantinou, Haralambos Stamatis, 'Valorization of Wine Lees: Assessment of Antioxidant, Antimicrobial and Enzyme Inhibitory Activity of Wine Lees Extract and Incorporation in Chitosan Films', *Waste and Biomass Valorization*, <https://doi.org/10.1007/s12649-024-02524-1>, Corpus ID: 269652695, (Article)
5. Panagiotis E. Athanasiou, Christina I. Gkountela, Michaela Patila, Renia Fotiadou, Alexandra V. Chatzikonstantinou, Stamatina N. Vouyiouka, Haralambos Stamatis, 'Laccase-Mediated Oxidation of Phenolic Compounds from Wine Lees Extract towards the Synthesis of Polymers with Potential Applications in Food Packaging', *Biomolecules* 2024, 14(3), 323; <https://doi.org/10.3390/biom14030323> (Article)
6. Alexandra V. Chatzikonstantinou, Myrto G. Bellou, Stamatia Spyrou, Angelos Papanikolaou, Yannis V. Simos, Dimitrios Peschos, Haralambos Stamatis, 'Enhancement of the biological activity of hydroxytyrosol through its oxidation by laccase from *Trametes versicolor*', *Journal of Biotechnology* 2024, <https://doi.org/10.1016/j.jbiotec.2024.02.011>, (Article)
7. Georgios Bakratsas, Angeliki Polydera, Oskar Nilson, Alexandra V. Chatzikonstantinou, Charilaos Xiros, Petros Katapodis † and Haralambos Stamatis †, 'Mycoprotein Production by Submerged Fermentation of the Edible Mushroom *Pleurotus ostreatus* in a Batch Stirred Tank Bioreactor Using Agro-Industrial Hydrolysate', *Foods* 2023, 12(12), 2295; <https://doi.org/10.3390/foods12122295>, (Article)
8. Stamatia Spyrou, Alexandra V. Chatzikonstantinou, Archontoula Giannakopoulou, Renia Fotiadou, Silvia Priska, Yannis V. Simos, Aliko Tsakni, Dimitrios Peschos, Dimitra Houhoula, Epaminondas Voutsas, Haralambos Stamatis, 'Fungal Laccase-Mediated Enhancement of

- the Bioactivity of Green Algae Extracts', *Catalysis Research* 2023; 3(1): 004; doi:[10.21926/cr.2301004](https://doi.org/10.21926/cr.2301004), (Article)
9. Angelos Papanikolaou, Alexandra V. Chatzikonstantinou, Dimitra Zarafeta, Nikolaos Kourkoumelis, Georgios Skretas, Ioannis V. Pavlidis, and Haralambos Stamatis, 'Substrate Specificity of the Highly Thermostable Esterase EstDZ3', *ChemBioChem* 2023, 24, e20220064, <https://doi.org/10.1002/cbic.202200642>, (Article)
 10. Niki Karouta, Yannis V. Simos, Georgia Basina, Konstantinos Spyrou,* Mohammed Subrati, Alexandra V. Chatzikonstantinou, Mohamed Amen Hammami, Vasileios Tzitzios, Saeed M. Alhassan, Yasser Al Wahedi, Alexios P. Douvalis, George C. Hadjipanayis, Konstantinos Tsamis, Evangelia Dounousi, Georgios S. Markopoulos, Sofia Bellou, Vasilios Georgakilas, Dimitrios Peschos, Zili Sideratou, Haralambos Stamatis, Dimitrios P. Gournis,* and Emmanuel P. Giannelis*, 'Highly Hydrophilic Oleylamine-Modified Superparamagnetic Iron Oxide Nanoparticles for Biomedical Applications', *ACS Applied Nano Materials*, 2023, 6, 4, 2770–2783, <https://doi.org/10.1021/acsanm.2c04006>, (Article)
 11. Nikoleta F. Theodoroula, Christina Karavasili, Manos C. Vlasiou, Alexandra Primikyri, Christia Nicolaou, Alexandra V. Chatzikonstantinou, Aikaterini-Theodora Chatzitaki, Christos Petrou, Nikolaos Bouropoulos, Constantinos K. Zacharis, Eleftheria Galatou, Yiannis Sarigiannis, Dimitrios G. Fatouros, Ioannis S. Vizirianakis, 'NGI-WY-Amide: A Bioinspired Ultrashort Self-Assembled Peptide Gelator for Local Drug Delivery Applications', 2022, *Pharmaceutics*, 14, 133. <https://doi.org/10.3390/pharmaceutics14010133>, (Article)
 12. Giannakopoulou, A., Chatzikonstantinou, A.V., Tsakni, A., Houhoula, D., Stamatis, H. 'A Bi-enzymatic Immobilized Nanobiocatalyst for the Biotransformation of Oleuropein to Hydroxytyrosol', *Methods in Molecular Biology*, 2022, 2487, pp. 279–296, https://doi.org/10.1007/978-1-0716-2269-8_17, (Book Chapter)
 13. Vasiliki G. Kontogianni, Alexandra V. Chatzikonstantinou, Marios Mataragas, Efthymia Kondyli, Haralambos Stamatis, Loulouda Bosnea, 'Evaluation of the Antioxidant and Physicochemical Properties of Microalgae/Whey Protein-Based Edible Films', *Biology and Life Sciences Forum*, 2021, 6, 97. <https://doi.org/10.3390/Foods2021-10926> (Article)
 14. Chatzikonstantinou, A., Giannakopoulou, A., Spyrou, S. Yannis V. Simos, Vassiliki G. Kontogianni, Dimitrios Peschos, Petros Katapodis, Angeliki C. Polydera & Haralambos Stamatis. "Production of hydroxytyrosol rich extract from *Olea europaea* leaf with enhanced biological activity using immobilized enzyme reactors". *Environmental Science and Pollution Research* (2021). <https://doi.org/10.1007/s11356-021-17081-6>, (Article)
 15. Archontoula Giannakopoulou, Alexandra V. Chatzikonstantinou, Nikolaos Chalmes, Georgia Tsapara, Dimitrios Gournis, Angeliki C. Polydera, Haralambos Stamatis, 'Development of a novel bi-enzymatic nanobiocatalyst for the efficient bioconversion of oleuropein to hydroxytyrosol', 2021, *Catalysts*, 11(6), 749, <https://doi.org/10.3390/catal11060749> (Article)
 16. Elena Gkantzou, Katerina Govatsi, Alexandra V. Chatzikonstantinou, Spyros N. Yannopoulos, and Haralambos Stamatis, 'Development of a ZnO Nanowire Continuous Flow Microreactor with β -Glucosidase Activity: Characterization and Application for the Glycosylation of

- Natural Products', 2021, ACS Sustainable Chemistry & Engineering 9, 22, 7658–7667, <https://doi.org/10.1021/acssuschemeng.1c02557>, (Article)
17. Elena Gkantzou, Alexandra V Chatzikonstantinou, Renia Fotiadou, Archontoula Giannakopoulou, Michaela Patila, Haralambos Stamatis, 'Trends in the development of innovative nanobiocatalysts and their application in biocatalytic transformations', 2021, Biotechnology Advances, 51, 107738, <https://doi.org/10.1016/j.biotechadv.2021.107738>. (Review)
 18. Renia Fotiadou, Alexandra V. Chatzikonstantinou, Mohamed Amen Hammami, Nikolaos Chalmpes, Dimitrios Moschovas, Konstantinos Spyrou, Angeliki C. Polydera, Apostolos Avgeropoulos, Dimitrios Gournis and Haralambos Stamatis, 'Green Synthesized Magnetic Nanoparticles as Effective Nanosupport for the Immobilization of Lipase: Application for the Synthesis of Lipophenols', 2021, Nanomaterials, 11, 458, <https://doi.org/10.3390/nano11020458>, (Article)
 19. Antonios Kouloumpis, Alexandra V. Chatzikonstantinou, Nikolaos Chalmpes, Theodosios Giousis, Georgia Potsi, Petros Katapodis, Haralambos Stamatis, Dimitrios Gournis, Petra Rudolf, 'Germanane Monolayer Films as Antibacterial Coatings', 2021, ACS Applied Nano Materials, <https://doi.org/10.1021/acsnm.0c03149>, (Article)
 20. Chatzikonstantinou, Alexandra V, Tsailanis, Antonis D, Gerothanassis, Ioannis P., Stamatis, H., Ravera, Enrico, Fragai, Marco, Luchinat, Claudio, Parigi, Giacomo, Tzakos, Andreas G., 'The NMR tube bioreactor', 2020, Methods in Enzymology, 633, 71-101. <https://doi.org/10.1016/bs.mie.2019.10.032>, (Book Chapter)
 21. Chatzikonstantinou, Alexandra V., Polydera, Angeliki C., Thomou, Eleni, Chalmpes, Nikolaos, Baroud, Turki N., Enotiadis, Apostolos, Estevez, Luiz, Patila, Michaela, Hammami, Mohamed Amen, Spyrou, Konstantinos, Giannelis, Emmanuel P., Tzakos, Andreas G., Gournis, Dimitrios, Stamatis, Haralambos, 'Lipase immobilized on magnetic hierarchically porous carbon materials as a versatile tool for the synthesis of bioactive quercetin derivatives', 2020 Bioresource Technology Reports, 9, 1-10. <https://doi.org/10.1016/j.biteb.2019.100372> (Article)
 22. Alexandra V. Chatzikonstantinou, Elena Gkantzou, Eleni Thomou, Nikolaos Chalmpes, Kyriaki-Marina Lyra, Vasiliki G. Kontogianni, Konstantinos Spyrou, Michaela Patila, Dimitrios Gournis and Haralambos Stamatis, 'Enzymatic Conversion of Oleuropein to Hydroxytyrosol Using Immobilized β -Glucosidase on Porous Carbon Cuboids', 2019, Nanomaterials, 9, 19. <https://doi.org/10.3390/nano9081166> (Article)
 23. Alexandra V. Chatzikonstantinou, Elena Gkantzou, Dimitrios Gournis, Michaela Patila, Haralambos Stamatis, 'Stabilization of laccase through immobilization on functionalized GO-derivatives', 2018, Methods in Enzymology, 609, 47-81. <https://doi.org/10.1016/bs.mie.2018.05.014> (Book Chapter)
 24. Orfanakis, G., Patila, M., Chatzikonstantinou, A. V, Lyra, K., Kouloumpis, A., Spyrou, K., Katapodis P, Paipetis A., Rudolf P., Gournis D., Stamatis H. "Hybrid Nanomaterials of Magnetic Iron Nanoparticles and Graphene Oxide as Matrices for the Immobilization of β - Glucosidase : Synthesis , Characterization , and Biocatalytic Properties", 2018 Frontiers in Materials, 5, 1-11. <https://doi.org/10.3389/fmats.2018.00025>, (Article)

25. Chatzikonstantinou AV, Chatziathanasiadou MV, Ravera E, Fragai M, Parigi G, Gerothanassis IP, Luchinat C, Stamatis H, Tzakos AG, "Enriching the biological space of natural products and charting drug metabolites, through real time biotransformation monitoring: The NMR tube bioreactor", 2018, Biochimica Biophysica Acta, General Subjects, 1862, 1–8. <https://doi.org/10.1016/j.bbagen.2017.09.021>, (Article)
26. Alexandra V. Chatzikonstantinou, Giannis-Florjan Norra, Haralambos Stamatis, Epaminondas Voutsas, "Prediction of solvent effect on enzyme enantioselectivity", 2017, Fluid Phase Equilibria, 450, 126-132. <https://doi.org/10.1016/j.fluid.2017.07.016>, (Article)
27. Tahsin F Kellici, Maria V. Chatziathanasiadou, Dimitris Diamantis, Alexandra V. Chatzikonstantinou, Ioannis Andreadelis, Eirini Christodoulou, Georgia Valsami, Thomas Mavromoustakos, Andreas G Tzakos, "Mapping the Interactions and Bioactivity of Quercetin-(2-Hydroxypropyl)- β -Cyclodextrin Complex ", 2016, International Journal of Pharmaceutics, 511, 303-311. <https://doi.org/10.1016/j.ijpharm.2016.07.008>, (Article)
28. Tahsin F Kellici , Dimitrios Ntountaniotis, Georgios Leonis , Maria Chatziathanasiadou , Alexandra V. Chatzikonstantinou , Johanna Becker-Baldus, Clemens Glaubitz , Andreas G. Tzakos , Kyriakos Viras , Petros Chatzigeorgiou , Stavros Tzimas , Evangelia Kefala , Georgia Valsami , Helen Archontaki , Manthos G. Papadopoulos, and Thomas Mavromoustakos, "Investigation of the interactions of silibinin with 2-hydroxypropyl- β -cyclodextrin through biophysical techniques and computational methods", 2015, Molecular Pharmaceutics, 12, 954-965. <https://doi.org/10.1021/mp5008053>, (Article)
29. Elena Geromichalou, Nisar Sayyad, Eleni Kyriakou, Alexandra V. Chatzikonstantinou, Efstathia Giannopoulou, Haralabos P. Kalofonos, Haralambos Stamatis, George Geromichalos, Andreas G. Tzakos "Regioselective Chemical and Enzymatic Synthesis of a Novel Redox - Antiproliferative Molecular Hybrid", 2015, European Journal of Medicinal, 96,47-57. <https://doi.org/10.1016/j.ejmech.2015.03.064>, (Article)
30. Athena A. Papadopoulou , Maria H.Katsoura, Alexandra Chatzikonstantinou , Eleni Kyriakou, Angeliki C. Polydera , Andreas G.Tzakos , Haralambos Stamatis., Enzymatic hybridization of α -lipoic acid with bioactive compounds in ionic solvents, 2013, Bioresource Technology, 136,41-48. <https://doi.org/10.1016/j.biortech.2013.02.067>, (Article)

9.2. CONFERENCE PROCEEDINGS (1)

A Tzakos, A Chatzikonstantinou, I Gerothanassis, M Chatziathanasiadou, C Stamatis, N Sayyad, "Enriching the biologically relevant space sampled by natural products through biotransformations: speeding up the natural-product based drug discovery process", Planta Medica, 11/2015, Volume 81, Issue 16, Pages SL3B_05. [DOI: 10.1055/s-0035-1565318](https://doi.org/10.1055/s-0035-1565318)

9.3. CONFERENCE PROCEEDINGS ORAL PRESENTATIONS (10)

1. Ντόκου Αθηνά, Χατζηκωνσταντίνου Αλεξάνδρα Β., "Πώς να προωθήσετε τον αιεφόρο οινοτουρισμό: η βιοτεχνολογία στην αξιοποίηση παραπροϊόντων οινοποίησης για την παραγωγή προϊόντων υψηλής προστιθέμενης αξίας", 6^ο Συνέδριο Αθλητικού Τουρισμού, Χορού και Αναψυχής (ΑΤοΧΑ) της Σ.Ε.Φ.Α.Α.Ε. του Δ.Π.Θ., 14-15 Φεβρουαρίου 2025, Κομοτινή, Ελλάδα.
2. A.Papanikolaou, A.V. Chatzikonstantinou, A.C. Polydera, Ioannis V. Pavlidis and H. Stamatis, 'In silico and in vitro studies for the regio-selective enzymatic lipophilization of flavonoids by lipases', 9th Virtual Panhellenic Conference of the Greek Lipid Forum "Current Trends in the Field of Lipids", October 22, 2021, p. 43 of Book of Abstracts.
3. Chatzikonstantinou A.V., Spyrou S., Bakratsas G., Fotiadou R., Giannakopoulou A., Katapodis P., Polydera A., Voutsas E.V., Stamatis H. 'Enzymatic modification of extracts of green marine algae for the enrichment of their biological activity', 13th European Congress of Chemical Engineering and 6th European Congress of Applied Biotechnology, September 20-23, 2021, p.1260-1261 of Book of Abstracts.
4. E. Gkantzou, A. Chatzikonstantinou, A.Skonta, H. Stamatis, '3D printed Poly lactic acid (PLA) microfluidic channels for enzyme immobilization', Sixth International Symposium on Green Chemistry, Sustainable Development and Circular Economy, Thessaloniki, Greece, September 2-23, 2020, p. 15 of Book of Abstracts.
5. Athanasios Zachariou, Fotios Dimitriadis, Sotirios Skouros, Alexandra Chatzikonstantinou, Panagiota Tsounapi, Atsushi Takenaka, Nikolaos Sofikitis, " The impact of mirabegron on erectile function of males with overactive bladder", 19th Congress Of The European Society For Sexual Medicine, 2 – 4 February 2017, Nice, France.
6. D.P. Houhoula, S. Karavis, V. Papastathis, A. Chatzikonstantinou, V. Lougois, J. Tsaknis, E. Tsakali, A. Polydera, H. Stamatis, Antibacterial activity of phenolic compounds from olive leaves against Salmonella enteritidis, Listeria monocytogenes, Staphylococcus aureus and Escherichia Coli; 6th International Conference on Food Technology, 18-19 March 2017, Metropolitan EXPO Athens, Greece.
7. A Tzakos, A Chatzikonstantinou, I Gerathanassis, M Chatziathanasiadou, C Stamatis, N Sayyad, "Enriching the biologically relevant space sampled by natural products through biotransformations: speeding up the natural-product based drug discovery process", 63rd International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA 2015), Aug 23 - 27, 2015, Budapest, Hungary.
8. Margiolaki, M. Katsoura, A. Papadopoulou, M. Patila, A. Chatzikonstantinou, A. Polydera, P. Katapodis, H. Stamatis "Biocatalytic synthesis of hydroxytyrosol and its derivatives for the valorization of olive-mill wastewater". 8-10/5/2014 36^ο Συνέδριο της Ελληνικής Εταιρείας Βιολογικών Επιστημών, Ιωάννινα, Ελλάδα. Σελίδα 202 του βιβλίου πρακτικών.
9. Κατσικούδη Α., Χατζηκωνσταντίνου Α., Χατζηαθανασιάδου Μ., Κοντογιάννη Β., Μπέκας Ν., Μπέλλου Σ., Σταμάτης Χ., Τζάκος Α. Βιολογικά Προσανατολισμένος Εμπλουτισμός Φυτοχημικών Συστατικών Φυτικών Εκχυλισμάτων Μέσω Στοχευμένης Βιομετατροπής. 8-10/5/2014 36^ο Συνέδριο της Ελληνικής Εταιρείας Βιολογικών Επιστημών, Ιωάννινα, Ελλάδα. Σελίδα 134 του βιβλίου πρακτικών
10. Αλεξάνδρα Χατζηκωνσταντίνου, Έλενα Γερομιχαλού , Ελένη Κυριακού, Nisar Sayyad, Ευστάθιος Γιανοπούλου, Χαράλαμπος Π. Καλοφώνος, Χάρης Σταμάτης, Ανδρέας Γ. Τζάκος. Ενζυμική και χημική σύνθεση καινοτόμου αντιοξειδωτικού - αντικαρκινικού μορίου και βιολογική αποτίμηση αυτού. Συνέριο μεταπτυχιακών φοιτητών τμήματος χημείας, Πανεπιστήμιο Ιωαννίνων, Ελλάδα, 28-30.03.2013. Σελίδα 12 του βιβλίου πρακτικών.

International:

1. Panagiotis E. Athanasiou, Christina I. Gkountela, Michaela Patila, Renia Fotiadou, Alexandra V. Chatzikonstantinou, Angeliki C. Polydera, Stamatina N. Vouyiouka, Haralambos Stamatis*, 'Laccase-Catalyzed Synthesis of Antioxidant Phenolic Polymers Derived from Wine Lees', 23rd Panhellenic Chemistry Conference with International Participation, 25-28 September 2024, Athens, Greece.
2. Myrto G. Bellou, Anastasia Skonta, Marina Velogianni, Alexandra V. Chatzikonstantinou, Haralambos Stamatis*, 'Laccase Mediated Modification of Chitosan for the Preparation of Hydrogels and Nanocomposites in Deep Eutectic Solvent-Based Media', , 23rd Panhellenic Chemistry Conference with International Participation, 25-28 September 2024, Athens, Greece.
3. Maria Spilia, Yannis V. Simos, Angelos Papanikolaou, Alexandra V. Chatzikonstantinou, Athanasia Dimitrakouli, Dimitrios Peschos, Haralambos Stamatis, 'Comparison of the biological potential of luteolin before and after enzymatic modification with *Thermomyces lanuginosus* lipase', 8th International Electronic Conference on Medicinal Chemistry, 1-30 November 2022,
4. Stamatia Spyrou, Archontoula Giannakopoulou, Alexandra Chatzikonstantinou, Angeliki Polydera, Ioannis Simos, Dimitrios Peschos, Petros Katapodis and Haralambos Stamatis, 'Antioxidant and anti-aging properties of enzymatically modified extracts of *Ulva* sp.', 24th International Conference on Oxidative Stress Reduction, Redox Homeostasis and Antioxidants, Paris, France, June 22-24, 2022, p.96 of Book of Abstracts.
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10. Alexandra V. Chatzikonstantinou, Stamatia Spyrou, Georgios Bakratsas, Renia Fotiadou, Archontoula Giannakopoulou, Petros Katapodis, Angeliki Polydera, Epaminondas C. Voutsas, Haralambos Stamatis, "Enzymatic modification of extracts of green marine algae for the enrichment of their biological activity", 13th European Congress of Chemical Engineering and 6th European Congress of Applied Biotechnology, September 20-23, 2021(virtual event).
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10. PROFESSIONAL EXPERIENCE

10.1. PROFESSIONAL EXPERIENCE

- 2026-σήμερα** Assistant Professor, Department of Viticulture and Oenology, Democritus University of Thrace (Enzymatic Biotechnology)
- 2024-2025** Secondment to the Department of Viticulture and Oenology of the Democritus University of Thrace.
- 2021-2025** Permanent Secondary Education teacher (as of 2024 seconded to Democritus University of Thrace)

10.2. RESEARCH PROGRAMS (5)

- 2021-2023** Contract participation in the research program entitled "Development of new functional fish-superfoods for more efficient fish farming - MIS: 5069987", EU project code "82844" which is co-financed by the European Union (European Regional Development Fund-ERDF) and by National Resources, in the framework of the "Competitiveness, Entrepreneurship and Innovation" program (EPANEK)", NSRF 2014 - 2020, Single Action of State Aid for Research, Technological Development & Innovation "RESEARCH - CREATE - INNOVATE", with Professor Charalambos Stamatis as Scientific Manager.
- 2020-2021** Contractual participation in the research program entitled "Development of Innovative Cosmetology Products and Nutritional Supplements with Nanoencapsulation of Natural Bioactive Ingredients" of the Action "Strengthening Small and Medium Enterprises for research projects in the fields of agri-food, health and biotechnology" within the framework of the "Competitiveness, Entrepreneurship and Innovation (EPANEK)" program, NSRF 2014 – 2020, Single Action of State Grants for Research, Technological Development & Innovation "RESEARCH - CREATE - INNOVATE", with Professor Mr. Stamatis Charalambos as Scientific Project Manager.
- 2020** Participation by contract in the research program entitled "Utilization of medicinal and aromatic plants of the Epirus Region for the development of anti-aging formulations and functional dairy foods" of the Action "Strengthening of Small and Medium-sized Enterprises for research projects in the fields of agri-food, health and biotechnology" of the Operational Program 'Epirus' 2014-2020, with Scientific Project Manager Associate Professor Mr. Tzakos Andreas.
- 2015** Contract participation in the research program entitled "Platform for scanning small molecules that target proteins that display structural disorder" of the

Operational Program "EDUCATION AND LIFELONG LEARNING", ACTION "EXCELLENCE II", with the Scientific Project Manager Mr. Tzako Andreas.

2012-2014

Contractual participation in the research program entitled "Cleaning of liquid waste with microalgae systems and utilization of their biomass for the production of third generation biofuels and high value biochemical products" of the Operational Program "Thessaly Central Greece Epirus 2007-2013", with Professor Mr. Stamatis Charalambos as Scientific Project Manager.

11. TEACHING EXPERIENCE

- 2026-σήμερα** Teaching as an Assistant Professor specializing in Enzyme Biotechnology, teaching courses in Enzyme Biotechnology, Microbial Biotechnology, Waste Treatment and Utilization and Biochemistry.
- 2024-2025** Teaching Assistant at the Department of Agricultural Biotechnology and Oenology of Democritus University of Thrace (DUTH) as a seconded teacher from Secondary Education.
- Teaching Assistant in the laboratory of the course Enzymatic Biotechnology, 3rd year.
 - Teaching Assistant in the laboratory of the course Microbial Biotechnology, 3rd year.
 - Teaching Assistant in the laboratory of the course Waste Processing and Valorization, 5th year.
 - Guidance in 6 bibliographic and 4 laboratory undergraduate theses.
- 2021-2024** Permanent teacher of Secondary Education.
- Teaching in all classes of High School and General and Vocational High School (and preparation for Panhellenic exams). Courses Biology, Chemistry, Physics, Geography.
 - Grading of Written Biology National Exams (2022-2024).
- 2020-2021** 1. Teaching of the courses:
- a) 3rd year Biotechnology Lab and
- b) 4th year Enzyme Biotechnology and Nanobiotechnology Laboratory
- of the Department of Biological Applications and Technologies of the University of Ioannina in the framework of the PE: Acquiring academic experience for young scientists, in the context of the program (code 82804): Acquiring academic experience for young scientists with PhDs 2020-2021 at the University of Ioannina, E.S.P.A. 2014-2020, Sectoral OP, OP 'Human Resource Development - Education and Lifelong Learning', MIS 5063725. **2015-2020**
2. Teaching Assistant in laboratory exercises for the courses Biotechnology (3rd year) and Enzymatic Biotechnology and Nanobiotechnology (4th year) at the Department of Biological Applications and Technologies, University of Ioannina.
3. Guidance and training in laboratory techniques for PhD candidates (2), MSc students (4), and undergraduate students (10) working on theses in Enzymatic Biotechnology at the Biotechnology Laboratory, Department of Biological Applications and Technologies, University of Ioannina.

2012-2014 Guidance and training in laboratory techniques for 2 undergraduate students working on their theses at the Laboratory of Organic Chemistry and Biochemistry, Department of Chemistry, University of Ioannina..

12. TRAINING IN TEACHING NATURAL SCIENCES AND SECONDARY EDUCATION ISSUES

- 2023** Introductory Training for Secondary Education STEAM.
- 2023** Training on New Biology Curriculum for High School.
- 2023** Annual Training Seminar at the University of the Aegean titled "School Psychology".
- 2022** Annual Training Seminar at the University of the Aegean titled "Training for Sex Education in Schools".
- 2022** Training "Professional Development Actions for PE04 Teachers", 12 hours, organized by the PE04 Branch Union, 4th Regional Training Center of Central Macedonia, Serres Secondary Education Directorate, and Kilkis Secondary Education Directorate.
- 2022** Training on "Digital Tools in Service of Learning Objectives", 4.5 teaching hours, organized by the Mesolonghi Environmental Education Center in collaboration with Kalamata and Rhodes Butterfly Environmental Education Centers.
- 2022** Training Seminar for Newly Appointed Teachers (9 hours), organized by the 4th Regional Training Center of Central Macedonia and the Serres Secondary Education Directorate.
- 2022** Training for e-Twinning action, total 180 minutes, by the National e-Twinning Support Organization.
- 2022** Attendance at the conference "Biology in Education" of the 6th Panhellenic Conference on Biology in Education, January 14-15, 2022
- 2022** Participation in the local seminar titled "Cell, Cell Cycle. Factors Affecting Microorganism Growth", within the 6th Panhellenic Conference on Biology in Education, January 21, 2022.
- 2022** Training for Key Action 1 (KA1) of ERASMUS+ 2021-2027, organized by the Regional Directorate of Primary and Secondary Education of Central Macedonia.
- 2022** Training for the "Step into My Shoes" program by the Lambrakis Foundation, within School Activities Programs.