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Education:

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- 1999-2003: **Doctor of Philosophy – Molecular Biology**
Thesis: Green Routes to the Synthesis of Cephalosporins
Supervisor: Prof J.D. Sutherland; in collaboration with DSM Anti-Infectives, Netherlands.
Faculty of Science and Engineering, The University of Manchester, UK.
- 1996-1999: **BSc with Honours in Chemistry with Medicinal Chemistry**
Grade: First class, Honours
Thesis: Enol condensation mediated by Evan's chiral auxiliaries
Supervisor: Prof E. J. Thomas.
Faculty of Science and Engineering, The University of Manchester, UK.

Work Experience:

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- 2022-today: **Assistant Professor** at the Department of Science and Mathematics
Field: Chemical Biology
School of Liberal Arts and Sciences, The American College of Greece, Athens, Greece
- 2022-2023: **Principal Investigator** of EPAnEK 2014-2020 Operational Programme Competitiveness, Entrepreneurship Innovation, project "MEDNANOLEAT" grant number T6YBP-00081, at the Laboratory of Cellular Signalling and Molecular Pharmacology Laboratory.
Research Undertaken: Medical Leather Manufacturing with the use of Hybrid Nanoparticles.
Institute of Biosciences and Applications, NCSR "Demokritos", Athens, Greece.
- 2021-2022: **Part-time Faculty Member** at the Department of Science and Mathematics
Subjects: Chemistry and Organic Chemistry
School of Liberal Arts and Sciences, The American College of Greece, Athens, Greece.
- 2020-2022: **Post-Doctoral Research Associate** at the Laboratory of Structural Biology & Chemistry.
Research Undertaken: Study of the 3D structure of the common subunit of odorant receptor heteromers, ORco, of the African malaria vector *Anopheles gambiae*.
Institute of Chemical Biology, National Hellenic Research Foundation (N.H.R.F) in collaboration with the Laboratory of Insect Physiology and Ethology and Applications, Institute of Biosciences and Applications, NCSR "Demokritos", Athens, Greece.
- 2018-2020: **Research Associate**, at the Laboratory of Insect Physiology and Ethology and Applications.
Research Undertaken: Molecular and Pharmacological Characterization of, *Anopheles gambiae* mosquito, Odorant Receptors.
Institute of Biosciences and Applications, NCSR "Demokritos", Athens, Greece.
- 2012-2015: **Principal Investigator** of "Support of Postdoctoral Researchers" research grant (EU, Hellenic Ministry of Education, NSRF), at the Chemical Biology Laboratory of Natural Products and Designed Molecules.
Research Undertaken: Green Routes for the Synthesis of Small Molecules: Exploring RNA.
Physical Chemistry Sector, Institute of Nanoscience and Nanotechnology, NCSR "Demokritos", Athens, Greece.
- 2011-2012: **Post-Doctoral Research Associate** at the Molecular Genetics Laboratory of Insects and Biotechnology.
Research: Advanced Research on Olfaction, for Malaria Transmitting Insect Control.
Institute of Biosciences and Applications, NCSR "Demokritos", Athens, Greece.

- 2011: **Part-time Lecturer – Special Scientist** at the Department of Agricultural Sciences, Biotechnology and Food Science
Subject: Bioeconomy - Biosafety - Bioethics.
 Cyprus University of Technology, Limassol, Cyprus.
- 2007-2011: **Post-Doctoral Research Associate** at the Chemical Biology Laboratory of Natural Products and Designed Molecules.
Research Undertaken: Targeting RNA with small molecules.
 Physical Chemistry Sector, Institute of Nanoscience and Nanotechnology, NCSR "Demokritos", Athens, Greece.
- 2005-2007: **Lecturer** of Medicinal Chemistry at the Department of Life and Health Sciences
Research Undertaken: Isolation, determination and characterisation of biologically active natural products.
 University of Nicosia, Cyprus.
- 2004-2005: **Quality Assurance Senior Officer** at Mundipharma Pharmaceuticals Ltd.
 Nicosia, Cyprus.
- 1999-2002: **Organic Chemistry Teaching Lab Demonstrator** at the Department of Chemistry
 The University of Manchester (part time), UK.

Academic Support Experience:

- 2024-today: **Programme Coordinator** at the Department of Science and Mathematics
Programme: Biomedical Sciences
 School of Liberal Arts and Sciences, The American College of Greece, Athens, Greece
- 2024-today: **Head of the Chemical Biology Laboratory** at the Department of Science and Mathematics,
 School of Liberal Arts and Sciences, and the Research, Technology & Innovation Network
 The American College of Greece, Athens, Greece
- 2024-today: **Academic advisor** of the Biomedical Sciences Student Society at the Department of
 Science and Mathematics
 School of Liberal Arts and Sciences, The American College of Greece, Athens, Greece
- 2022-today: **Member of Research, Technology & Innovation Network** at The American College of
 Greece, Athens, Greece
Team: Biomedical Science Research
- 2022-today: **Member of the Center of Excellence in Sustainability** at The American College of Greece,
 Athens, Greece
- 2022-2024: **Member of the Institutional Review Board** at The American College of Greece, Athens,
 Greece
- 2022-2024: **Member of the Task Force for Research Development** at The American College of
 Greece, Athens, Greece
- 2022-2024: **Academic advisor** of Biomedical Sciences Students at the Department of Science and
 Mathematics
 School of Liberal Arts and Sciences, The American College of Greece, Athens, Greece

Grants / Funding:

- 2022-today: **ACG 150 funding for research/curriculum**, project "Natural Product Analogues as
 Antibacterial Agents", ACG 150 initiatives for supporting research and/or curriculum
 development.
- 2022-2023: **EPAnEK 2014-2020 Operational Programme Competitiveness, Entrepreneurship
 Innovation**, project "MEDNANOLEAT", grant number T6YBΠ-00081, GSRI Ministry of
 Development and Investments.

- 2020-2022: **Postdoctoral Research Associate, Hellenic Foundation for Research & Innovation (H.F.R.I.),** 3D-ORco research grand HFRI-FM17-637 to Dr. S. Zographos, "1st Call for H.F.R.I. Research Projects to Support Faculty Members & Researchers and Procure High-Value Research Equipment".
- 2012-2015: **"Support of Postdoctoral Researchers"** research grant LS9_1057 of the Operational Program 'Education and Lifelong Learning', NSRF 2007-2013, GSRT Hellenic Ministry of Education, and EU.
- 2011-2012: **Postdoctoral Research Associate, FP7-HEALTH - Specific Program "Cooperation": Health** to Dr K. Iatrou, "Small or Medium-scale focused research project".
- 2007-2011: **Postdoctoral Research Associate, FP6-MOBILITY - Marie Curie Excellence Grant** to Dr D. Vourloumis, "Structuring the European Research Area".
- 2005-2007: **Postdoctoral Research Associate, Research Promotion Foundation,** Cyprus to Dr T. Mavromoustakos, "Health".
- 1999-2002: **Jointed Studentship Award** by the Engineering and Physical Sciences Research Foundation and The University of Manchester, UK.

Research Interests:

Incorporating a chemical approach towards understanding biological processes and the molecular characterization of biological macromolecules.

Investigating how small molecules bind to their targets, in both prokaryotic and eukaryotic systems, in order to design novel affinity binding detection methodologies. Comprehending their mechanism of action and the conformational rearrangements occurring upon binding, is a fundamental aspect of designing new therapeutic agents. Developing new "green" pathways for the synthesis of small bioactive molecules, and their subsequent activity evaluation.

Structure and ligand-based drug design targeting selected biological processes for the formation of new therapeutic entities.

Research Collaborators:

Dr Kostas Iatrou, Emeritus Research director, Brain Exosomes and Pathology - ExoBrain.
Institute of Biosciences and Applications, NCSR "Demokritos", Athens, Greece.

Dr Spyros Zografos, Researcher A', Structural Biology & Chemistry.
Institute of Chemical Biology, National Hellenic Research Foundation.

Dr Marina Sagnou, Associate Researcher, Structural Studies of Biomolecules and Pharmaceuticals.
Institute of Biosciences and Applications, NCSR "Demokritos", Athens, Greece.

Dr Michael Arkas, Researcher, Functional Nanomaterials of Organised Structure.
Institute of Nanoscience and Nanotechnology, NCSR "Demokritos", Athens, Greece.

Dr Veroniki P. Vidali, Researcher, Laboratory of Natural Products Synthesis and Bioorganic Chemistry,
Institute of Nanoscience and Nanotechnology, NCSR "Demokritos", Athens, Greece.

Prof. Thomas Hermann, Associate Professor.
Department of Chemistry and Biochemistry, University of California, San Diego, USA.

Dr Eric Ennifar, Research Scientist, Structure and activity of RNA.
Department of Chemistry, University of Louis Pasteur, Strasbourg, France.

Dr. Athanasios Papakyriakou, Senior Researcher, Designed Biomolecules.
Institute of Biosciences and Applications, NCSR "Demokritos", Athens, Greece.

Dr Zili Sideratou, Researcher, Functional Nanomaterials of Organised Structure.
Institute of Nanoscience and Nanotechnology, NCSR "Demokritos", Athens, Greece.

Dr Efstratios Stratikos, Research Director, Protein Chemistry.

Institute of Nuclear & Radiological Sciences & Technology, Energy & Safety, NCSR "Demokritos", Athens, Greece.

Dr Vassilios Roussis, Professor, Pharmacognosy & Chemistry of Natural Products.

School of Health Sciences, Department of Pharmacy, National and Kapodistrian University of Athens, Greece.

Teaching Experience:

Organic Chemistry and Medicinal Chemistry (Level: Undergraduate, Lectures in English)
Organic Chemistry (Level: Undergraduate, Lectures in English)
General Chemistry (Level: Undergraduate, Lectures in English)
Principles of Chemistry (Level: Undergraduate, Lectures in English)
Organic Chemistry including Introduction to Pharmacology (Level: Undergraduate, Lectures in English)
Bioeconomy, Biosafety, Bioethics (Level: Postgraduate, Lectures in Greek)
Introduction to Organic and Biological Chemistry (Level: Undergraduate, Lectures in English)
Cosmetic Science (Level: Undergraduate, Lectures in English)
Workshops / Tutorials on IR and NMR data interpretation (Level: Undergraduate, Courses in English)
Laboratory of Organic and Biological Chemistry (Level: Undergraduate, Lectures in English)
Laboratory of General Chemistry (Level: Undergraduate, Lectures in English)
Laboratory of Principles of Chemistry (Level: Undergraduate, Courses in English)
Laboratory and Tutorials of Organic Chemistry I (Level: Undergraduate, Courses in English)
Laboratory of Organic Chemistry II (Level: Undergraduate, Courses in English)

Skills:

Excellent leadership and organizational skills, project and budget management.

Excellent communication and problem-solving skills.

Excellent time management, especially under the pressure of meeting deadlines.

Experience in program evaluation and curriculum development focusing on stakeholder engagement.

Structuring and managing the scientific focus of a research lab.

Design and implementation of research projects within the scientific focus of the lab.

Excellent data analysis skills.

Excellent knowledge of "Good Manufacturing and Laboratory Practice" (GMP, GLP).

Excellent practical and theoretical knowledge in Molecular Biology Techniques; RNA; Bacterial, Insect and Mammalian cell lines; Protein Expression and Purification; *In vitro* and cell based assays; Extraction and Isolation methodologies; Photodynamic Therapy principles.

Excellent handling and interpretation of Ultraviolet Spectroscopy (UV/VIS); Infrared Spectroscopy (IR); Mass Spectroscopy; Nuclear Magnetic Resonance Spectroscopy (NMR); High Pressure Liquid Chromatography (HPLC); Fluorescence; Luminescence.

Also, experience with educational technology and excellent computing literacy on windows; search engines such as Beilstein Crossfire, PubMed; programmes like Microsoft Office, ChemDraw, Vector NTI, Origin Pro, Adobe Photoshop e.t.c.

Training / Seminars:

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- 2024: **FEBS Workshop: Athens: Approaches in Transformative and Holistic Education for Novel Science**, University of Athens, Library of the Law School, 104-Solonos St., Athens, Greece. 18-19 October 2024.
- 2024: **Peer-workshop on Effective Teaching**, Department of Science and Mathematics, The American College of Greece – Deree, Athens, Greece. 27th May 2024
- 2023: **OUP Research Ethics Webinar on Research Ethics: Developing an ethical approach to your research policy**, Online Meeting. 19th October 2023
- 2021: **Seminar on Protection from Radiation: Use of Radioisotopes in Biological Research**, Greek Atomic Energy Commission, Athens, Greece.
- 2020: **Third ERNEST Conference: Signal transduction: From the genomic to the systems level (and everything in between)**, COST Action CA18133, The European Research Network on Signal Transduction, Online Meeting.
- 2018: **Microscopy Seminar**, Institute of Nanoscience and Nanotechnology, NCSR "Demokritos", Athens, Greece.
- 2018: **10th International Workshop on Molecular Biology and Genetics of the Lepidoptera – Organization Assistant and Participation**, Orthodox Academy of Crete, Kolymbari, Chania, Greece.
- 2015: **40th FEBS Congress: The Biochemical Basis of Life**, Berlin, Germany.
- 2014: **Training in Enzyme Overexpression in mammalian cell lines as Stress Inducers**, Infections & Immunity Division, Institute of Molecular Biology and Biotechnology, Foundation for Research and Technology, Heraklion, Greece.
- 2011: **Emotional Intelligence: Applied in Education**, Open Education Foundation, Athens, Greece.
- 2007: **Training in RNA crystallization and co-crystallization techniques**, Department of Chemistry and Biochemistry, University of California, San Diego, USA.
- 2005: **Interpreting your Employee Survey Results and Taking Action – Training the Managers**, Hay Group USA, Stockholm, Sweden.
- 2005: **Conducting an Employee Survey**, Hay Group USA, Dublin, Ireland.
- 2004: **Laboratory Management using European Standards – Uncertainty of Measurements and Validation of Analytical Methods**, Quintessence Enterprises Ltd, Nicosia, Cyprus.
- 2000: **Professional Research Skills**, Graduate School of Science, Engineering & Medicine, University of Manchester, UK.
- 1999: **Graduate Teaching Assistance and Students Demonstrator Training Course**, University of Manchester, UK.

Patents:

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2. Kythreoti, G.; Arkas, M.; Nikoli, E.; Arvanitopoulos, L.; Arvanitopoulos, K.; Douloudi, M., "Hydrogels and xyrogels carriers of active components from dendritic polymers and silica for use as additives in leather and fabric", *GR1010430 (B)* **2023-03-23**, Application no.: GR20210100640 27-09-2021; Priority date: **27.09.2021**; Classification: **A61L 31/12** ^(2023.01), **A61L 31/14** ^(2023.01), **A61L 31/16** ^(2023.01), **D06M 15/19** ^(2023.01), **D06M 16/00** ^(2023.01).
1. Kythreoti, G.; Arkas, M., "Biomimetic preparation of hybrid nanoparticles, composed of a non-organic substrate, metal ions absorbed in the dendritic polymers cavity – Application of the same as antibacterials and catalysts", *GR1008696 (B)* **2016-02-25**, Application no.: GR20140100648 2014-12-19; Priority date: **19.12.2014**; Classification: **C01B 33/12** ^(2015.01), **B82Y 30/00** ^(2015.01).
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Publications:

23. Bompotis, T.; Karastergiou, E.; Giannakopoulos, K.; Favvas, E.P.; Arvanitopoulou, M.; Arvanitopoulos, K.; Arvanitopoulos, L.; Kythreoti, G.; Vardavoulas, M.; Giannakoudakis, D.A.; Castellsagués, L.; Soto González, S. M.; Arkas, M., "Solvent Effect on Antimicrobial Hydrophilic Xerogel Coating of Medicinal Leathers in Simulated Industrial Finishing Process", *ChemPlusChem*, **2025**, e202400648. doi: 10.1002/cplu.202400648
22. Kythreoti, G.; Thireou, T.; Karoussiotis, C.; Georgoussi, Z.; Liggri, P.; Papachristos, D.P.; Michaelakis, A.; Karras, V.; Zografos, S.E.; Schulz, S.; Iatrou, K., "Natural volatiles preventing mosquito biting: An integrated screening platform for accelerated discovery of ORco antagonists", *J Biol Chem.*, **2024**, 300(12), 107939. doi: 10.1016/j.jbc.2024.107939
21. Papadopoulou, P.; Polissidis, A. V.; Kythreoti, G.; Sagnou, M.; Stefanatou, A.; Theoharides, T., "Anti-inflammatory and Neuroprotective Polyphenols Derived from the European olive tree, *Olea europaea* L, in Long COVID and other Conditions Involving Cognitive Impairment", *International Journal of Molecular Sciences*, **2024**, 25, 11040. doi: 10.3390/ijms252011040
20. Iatrou, K.; Thireou, T.; Kythreoti, G.; Liggri, P.; Michaelakis, A.; Papachristos, D.P.; Tsitsanou, K.; Zografos, S.E.; Schulz, S., "Abstract 1161 Natural anosmia-inducing compounds for control of mosquito biting behaviors: Machine learning-assisted determination of structural determinants for ORco ligands antagonizing odorant receptor function", *J Biol Chem.*, **2024**, 300(3), 106064. doi: 10.1016/j.jbc.2024.106064
19. Arkas, M.; Bompotis, T.; Giannakopoulos, K.; Favvas, E. P.; Arvanitopoulou, M.; Arvanitopoulos, K.; Arvanitopoulos, L.; Kythreoti, G.; Vardavoulas, M.; Giannakoudakis, D. A.; Castellsagués, L.; Soto-González, S. M., "Hybrid Silica Xerogel and Titania/Silica Xerogel Dispersions Reinforcing Hydrophilicity and Antimicrobial Resistance of Leathers", *Gels*, **2023**, 9(9), 685. doi: 10.3390/gels9090685
18. Arkas, M.; Vardavoulas, M.; Kythreoti, G.; Giannakoudakis, D. A., "Dendritic Polymers in Tissue Engineering: Contributions of PAMAM, PPI PEG and PEI to Injury Restoration and Bioactive Scaffold Evolution", *Pharmaceutics*, **2023**, 15, 524. doi: 10.3390/pharmaceutics 15020524
17. Arkas, M.; Kythreoti, G.; Favvas, E. P.; Giannakopoulos, K.; Mouti, N.; Arvanitopoulou, M.; Athanasiou, A.; Douloudi, M.; Nikoli, E.; Vardavoulas, M.; Dimitriou, M.; Karakasiliotis, I.; Ballén, V.; Soto, S.M., "Hydrophilic Antimicrobial Coatings for Medical Leathers from Silica-Dendritic Polymer-Silver Nanoparticle Composite Xerogels", *Textiles*, **2022**, 2, 464–485. doi: 10.3390/textiles2030026
16. Iatrou, K.; Kythreoti, G.; Thireou, T.; Karoussiotis, C.; Georgoussi, Z.; Zografos, S.E.; Liggri, P.; Michaelakis, A.; Schulz, S., "Novel anosmia-inducing compounds for environmentally friendly mosquito vector control: Structural determinants of ORco ligands antagonizing odorant receptor function", *The FASEB Journal*, **2022**, 36(S1), R4433. doi: 10.1096/fasebj. 2022.36.S1.R4433
15. Kythreoti, G.; Sdralia, N.; Tsitoura, P.; Papachristos, D.P.; Michaelakis, A.; Karras, V.; Ruel, D.M.; Yakir, E.; Bohbot, J.D.; Schulz, S.; Iatrou, K., "Volatile allosteric antagonists of mosquito odorant receptors inhibit human-host attraction", *J Biol Chem.*, **2021**, 296:100172. doi: 10.1074/jbc.RA120.016557.
14. Heliopoulos, N.S.; Kythreoti, G.; Lyra, K.M.; Panagiotaki, K.N.; Papavasiliou, A.; Sakellis, E.; Papageorgiou, S.; Kouloumpis, A.; Gournis, D.; Katsaros, F.K.; Stamatakis, K.; Sideratou, Z., "Cytotoxicity Effects of Water-Soluble Multi-Walled Carbon Nanotubes Decorated with Quaternized Hyperbranched Poly(ethyleneimine) Derivatives on Autotrophic and Heterotrophic Gram-Negative Bacteria", *Pharmaceutics*, **2020**, 13(10), E293. doi: 10.3390/ph13100293
13. Iatrou, K.; Kythreoti, G.; Sdralia, N.; Tsitoura, P.; Papachristos, D.P.; Michaelakis, A.; Schulz, S., "Identification of Allosteric Modifiers of Mosquito Odorant Receptor Function and Odor-

- Triggered Behaviors", *The FASEB Journal*, **2020**, 34(S1), 02296. doi: 10.1096/fasebj.2020.34.s1.02296
12. Iatrou, K.; Schulz, S.; Kythreoti, G.; Sdralia, N.; Tsitoura, P.; Michaelakis, A.; Papachristos, D.P., "Identification of modifiers of odor-triggered mosquito behaviors acting through binding to the ORco subunit of odorant receptor heteromers", *The FASEB Journal*, **2019**, 33:1_supplement, 471.8. doi: 10.1096/fasebj.2019.33.1_supplement.471.8
 11. Thireou, T.; Kythreoti, G.; Tsitsanou, K.E.; Koussis, K.; Drakou, C.E.; Kinnersley, J.; Kröber, T.; Guerin, P.M.; Zhou, J.; Iatrou, K.; Eliopoulos, E.; Zographos, S.E., "Identification of novel bioinspired synthetic mosquito repellents by combined ligand-based screening and OBP-structure-based molecular docking", *Insect Biochemistry and Molecular Biology*, **2018**, 98, 48-61. doi: 10.1016/j.ibmb.2018.05.001
 10. Arkas, M.; Kythreoti, G.; Boukos, N.; Kitsou, I.; Petrakli, F.; Panagiotaki, K., "Two completely different biomimetic reactions mediated by the same matrix producing inorganic/organic/inorganic hybrid nanoparticles", *Nano-Structures & Nano-Objects*, **2018**, 14, 138-148. doi: 10.1016/j.nanoso.2018.01.009
 9. Katsoulis, I.A.; Drossopoulou, G.I.; Kotsopoulou, E.S.; Kythreoti, G.; Lianos, E.A.; Tsilibary, E.C., "High glucose promotes apoptosis in glomerular podocytes by suppressing the insulin signaling pathway", *Nephrology Dialysis Transplantation*, **2015**, 30:supp_3, iii222-iii223. doi: 10.1093/ndt/gfv178.12
 8. Anastasopoulou, P.; Kythreoti, G.; Cosmidis, T.; Pyrkotis, C.; Nahmias, V.R.; Vourloumis, D., "Synthesis of triazole-functionalized 2-DOS analogues and their evaluation as A-site binders", *Bioorganic & Medicinal Chemistry*, **2014**, 24, 1122-1126. doi: 10.1016/j.bmcl.2013.12.125
 7. Mavridis, I.; Kythreoti, G.; Koltsida, K.; Vourloumis, D., "Rigid spiroethers targeting the decoding center of the bacterial ribosome", *Bioorganic & Medicinal Chemistry*, **2014**, 22, 1329-1341. doi: 10.1016/j.bmc.2013.12.068
 6. Tsitsanou, K.E.; Drakou, C.E.; Thireou, T.; Gruber, A.V.; Kythreoti, G.; Azem, A.; Fessas, D.; Eliopoulos, E.; Iatrou, K.; Zographos, S.E., "Crystal and solution studies of the 'Plus-C' odorant-binding-protein 48 from *Anopheles gambiae*. Control of binding specificity through three-dimensional domain swapping.", *The Journal of Biological Chemistry*, **2013**, 288, 33427-33438. doi: 10.1074/jbc.M113.505289
 5. Katsoulis, I.A.; Kythreoti, G.; Papakyriakou, A.; Koltsida, K.; Anastasopoulou, P.; Stathakis, C.I.; Mavridis, I.; Cottin, T.; Saridakis, E.; Vourloumis, D., "Synthesis of 5,6-spiroethers and evaluation of their affinity for the bacterial A-site", *ChemBioChem*, **2011**, 12, 1188-1192. doi: 10.1002/cbic.201100076
 4. Kythreoti, G.; Vourloumis, D., "A *Homo sapiens* cytoplasmic ribosomal decoding A-site affinity screen evaluating aminoglycoside- and analogues-binding", *Anal. Biochem.*, **2011**, 412, issue 1, 102-107. doi: 10.1016/j.ab.2011.01.013
 3. Cottin, T.; Pyrkotis, C.; Stathakis, C.I.; Mavridis, I.; Katsoulis, I.A.; Anastasopoulou, P.; Kythreoti, G.; Zografos, A.L.; Nahmias, V.R.; Papakyriakou, A.; Vourloumis, D., "Designed spiro-bicyclic analogues targeting the decoding center", *ChemBioChem*, **2011**, 12, 71-87. doi: 10.1002/cbic.201000591
 2. Stathakis, C.I.; Mavridis, I.; Kythreoti, G.; Papakyriakou, A.; Katsoulis, I.A.; Cottin, T.; Anastasopoulou, P.; Vourloumis, D., "Second generation analogues of rigid 6,7-spiro scaffolds targeting the bacterial ribosome", *Biorg. Med. Chem. Lett.* **2010**, 20, 7488-7492. doi: 10.1016/j.bmcl.2010.10.001
 1. Katsoulis, I.A.; Pyrkotis, C.; Papakyriakou, A.; Kythreoti, G.; Zografos, A.L.; Mavridis, I.; Nahmias, V.R.; Anastasopoulou, P.; Vourloumis, D., "Unnatural rigid scaffolds targeting the bacterial ribosome", *ChemBioChem* **2009**, 10, 1969-1972. doi: 10.1002/cbic.200900268

Public Outreach / Reprints:

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6. “Computational tool helps scientists create novel bug sprays”, *ASBMB Today*, May 20, **2025**. **Based on research** published in *J Biol Chem.*, **2024**, 300(12), 107939.
 5. Dafnomili, S.; Ziori, A.; Veisllari, M.; Kythreoti, G., “Observe our world in micro: Design Drugs”, Organization and participation in the **Deree Science Day: Discover the world of science**, The American College of Greece, Athens, Greece, March 15, **2025**.
 4. Veisllari, M.; Ziori, A.; Dafnomili, S.; Kythreoti, G., “Observe our world in micro: Uncolor your vegetables”, Organization and participation in the **Deree Science Day: Discover the world of science**, The American College of Greece, Athens, Greece, March 15, **2025**.
 3. Lego, E.; Lazaridi, A.; Katrivesi, E.; Kythreoti, G., “Observe our world in micro: Design Drugs”, participation in the “Shape Your Future through STEM education” theme of the **Athens Science Festival**, Technopolis, Athens, Greece, October 10 -12, **2023**.
 2. Katrivesi, E.; Lazaridi, A.; Lego, E.; Kythreoti, G., “Observe our world in micro: Uncolor your vegetables”, participation in the “Shape Your Future through STEM education” theme of the **Athens Science Festival**, Technopolis, Athens, Greece, October 10 -12, **2023**.
 1. Heliopoulos, N.S.; Kythreoti, G.; Lyra, K.M.; Panagiotaki, K.N.; Papavasiliou, A.; Sakellis, E.; Papageorgiou, S.; Kouloumpis, A.; Gournis, D.; Katsaros, F.K.; Stamatakis, K.; Sideratou, Z., “Cytotoxicity Effects of Water-Soluble Multi-Walled Carbon Nanotubes Decorated with Quaternized Hyperbranched Poly(ethyleneimine) Derivatives on Autotrophic and Heterotrophic Gram-Negative Bacteria”, *Pharmaceuticals*, **2020**, 13(10), E293.
Reprinted in “Novel Antibacterial Agents”, Edited by Fiorella Meneghetti and Daniela Barlocco, *Pharmaceuticals*, **2022**, 227 – 252. doi: 10.3390/ph14040382

Oral Presentations:

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7. Georgia Kythreoti, “Laboratory and Scientific Reports”, Workshop on Academic Writing, The Biomedical Sciences Program and the Environmental Studies Program, Department of Science and Mathematics, The American College of Greece, Deree, April 5th, **2023**.
 6. Georgia Kythreoti; Nadia Sdralia; Panagiota Tsitoura; Dimitrios P. Papachristos; Antonios Michaelakis; Stefan Schulz; Kostas Iatrou, “An insect cell-based screening platform for identification of modifiers of odor-triggered mosquito behaviors”, 70th Panhellenic Conference of the Hellenic Society of Biochemistry and Molecular Biology, Eugenides Foundation, Athens, Greece, November 29th - December 1st, **2019**, Chemical Biology, Oral Presentation O28.
 5. Georgia Kythreoti; Nadia Sdralia; Panagiota Tsitoura; Dimitrios P. Papachristos; Antonios Michaelakis; Stefan Schulz; Kostas Iatrou, “An insect cell-based screening platform for identification of modifiers of odor-triggered mosquito behaviors”, 18th Panhellenic Entomological Congress, Komotini, Greece, October 15th-18th, **2019**, Session 6: Biodiversity–Evolution–Systematics.
 4. Georgia Kythreoti, Dionisios Vourloumis, “Development of a *Homo sapiens* cytoplasmic ribosomal decoding site affinity screen”, 14th Hellenic Symposium on Medicinal Chemistry, Thessaloniki, Greece, April 23rd-25th, **2010**, book of abstracts, OP16.
 3. Georgia Kythreoti, “Recombinant DNA technology. An Overview”, Department of Chemical Biology of Natural Products, Institute of Physical Chemistry, NCSR Demokritos, November 26th, **2007**.
 2. Georgia Kythreoti, “Enzymatic preparation of novel cephalosporin intermediates”, Department of Life and Health Sciences, School of Sciences, University of Nicosia, September 20th, **2005**.
 1. Georgia Kythreoti, John D. Sutherland, “Green routes to the synthesis of cephalosporins”, Ultra Fine Chemicals colloquium, Department of Chemistry, The University of Manchester.
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Presentations

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35. Dafnomili, S.; Lego, E.; Sagnou, M.; Christodoulakis, I.; Kythreoti, G., "Evaluation of Curcumin and Its Derivatives as Photosensitizers for Antibacterial Photodynamic Therapy", 9th Annual Student Research and Creative Arts Symposium, The American College of Greece, Deree, Athens, Greece, May 22-23, **2025**
34. Veisllari, M.; Vidali, V. P.; Kythreoti, G., "Cinnamaldehyde Analogues as antibacterial agents: A Study of Structure-Activity Relationship", 9th Annual Student Research and Creative Arts Symposium, The American College of Greece, Deree, Athens, Greece, May 22-23, **2025**
33. Lego, E.; Dafnomili, S.; Sagnou, M.; Kythreoti, G., "Synthesis and Evaluation of Ferrocenyl-Substituted Compounds as Novel Antimicrobial Agents", 9th Annual Student Research and Creative Arts Symposium, The American College of Greece, Deree, Athens, Greece, May 22-23, **2025**
32. Drakopoulos, Z. K.; Arkas, M.; Kythreoti, G., "Hybrid Silica Xerogel Coatings Reinforcing Hydrophilicity and Antimicrobial Action of Gauzes and Medical Leathers", 8th Annual Student Research and Creative Arts Symposium, The American College of Greece, Deree, Athens, Greece, June 10-11, **2024**
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Scientific Memberships:

1. **Hellenic Society of Biochemistry & Molecular Biology:** full member since **2023**

Service to Profession:

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3. **Guest Editor:** Special Issue "Hydrogels for Therapeutic Delivery: Current Developments and Future Directions", *Gels*, **2024 – 2025**, ISSN 2310-2861
 2. **Manuscript review:** *Insects*, **2022**, An Open Access Journal from MDPI
 1. **Manuscript review:** *Star Protocols*, **2022**, An Open Access Protocol Journal from Cell Press

 Authored Course Books:

1. Georgia Kythreoti: Bioeconomy, Biosafety, Bioethics (GBT-503, Lecture Notes in Greek), Department of Agricultural Sciences, Biotechnology and Food Science, Cyprus University of Technology, **2011**.
2. Georgia Kythreoti: Introduction to Organic and Biological Chemistry (CHEM-104, Lecture Notes and Practice Exercises in English), Department of Nursing, University of Nicosia, **2005**.
3. Georgia Kythreoti: Cosmetic Science (AEST-116, Lecture Notes and Practice Exercises in English), Department of Aesthetics, University of Nicosia, **2005**.

 Authored Laboratory Manuals:

1. Georgia Kythreoti: Organic Chemistry I & II (CHEM-250/260), Department of Human Biology, University of Nicosia, **2005**.
2. Georgia Kythreoti: Introduction to Organic and Biological Chemistry (CHEM-104), Department of Nursing, University of Nicosia, **2005**.
3. Georgia Kythreoti: Cosmetic Science (AEST-116), Department of Aesthetics, University of Nicosia, **2005**.

 Languages:

Greek	Excellent command. Mother tongue.
1996:	High School Diploma , Acropolis High School, Nicosia, Cyprus. - <i>Grade</i> : Excellent.
1996:	General Certificate of Education Examination , Advanced Level (GCE 'A' level) – Modern Greek, University of London. - <i>Grade</i> : A
English	Excellent command.
2003:	Doctor of Philosophy , University of Manchester.
1999:	Bachelor of Science , University Manchester.
1993:	General Certificate of Education Examination , Ordinary Level (GCE 'O' level) – English Language, University of London. - <i>Grade</i> : C
1993:	Test of English as a Foreign Language (TOEFEL) . - <i>Score</i> : 557/700.
French	Good command.
1996:	Diplôme d'études en langue française , (DELFI 1 ^{er} degré - sections A1, A3 and A4).

 Certificates:

- 2013: **International Certificate of Open Sea Sailing Competence – Basic Skipper**, Hellenic Marine Academy, Amphythea N.C., Athens, Greece. Certificate: 422-44/13
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