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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-today: **Principal Investigator** of EPAnEK 2014-2020 Operational Programme Competitiveness, Entrepreneurship Innovation, project "MEDNANOLEAT" grant number T6YBΠ-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-today: **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-today: **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.

#### Grants / Funding:

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- 2022-today: **EPAnEK 2014-2020 Operational Programme Competitiveness, Entrepreneurship Innovation**, project "MEDNANOLEAT", grant number T6YBP-00081, GSRI Ministry of Development and Investments.
- 2020-today: **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:

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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:**

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*Dr Kostas Iatrou*, Emeritus Scientist, Insect Physiology and Ethology and Applications.  
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 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:**

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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:**

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Excellent knowledge of "*Good Manufacturing and Laboratory Practice*" (GMP, GLP).  
*Design and implementation* of a research project within the scientific scopus of the laboratory.  
Managing and structuring the scientific focus of a research lab.  
Excellent *organizational skills* and successful operation under *strict budget*.  
Excellent *time management*, especially under the pressure of meeting deadlines.  
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*.

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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, 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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- 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. Nikoli, E.; Douloudi, M.; Kythreoti, G.; Arvanitopoulos, L.; Arvanitopoulos, K.; Arkas, M., "hydrogel and xerogelative ingredient carriers made from dendritic polymers and silica for use as leather and textile additives", Application no.: GR20200100701/26.11.2020; *Submitted*
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: **14.04.2016**; Classification: **C01B 33/12** <sup>(2015.01)</sup>, **B82Y 30/00** <sup>(2015.01)</sup>.

## Publications:

18. Kythreoti, G.; Thireou, T.; Liggri, P.; Michaelakis, A.; Schulz, S.; Iatrou, K., "Novel anosmia-inducing compounds and structural determinants of ORco competitive antagonists", *in preparation*
17. Arkas, M.; Vardavoulis, M.; Kythreoti, G.; Giannakoudakis, D., "Dendritic Polymers Applications in Tissue Engineering", *Pharmaceutics*, *in print*
16. Arkas, M.; Kythreoti, G.; Favvas, E. P.; Giannakopoulos, K.; Mouti, N.; Arvanitopoulou, M.; Athanasiou, A.; Douloudi, M.; Nikoli, E.; Vardavoulis, 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.
15. 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.
14. 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.
13. 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.
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.
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.
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.
9. Katsoulieris, E.N.; 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.
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.
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.
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.

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.
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.
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.
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.
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.

#### Oral Presentations:

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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 29<sup>th</sup> - December 1<sup>st</sup>, **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 15<sup>th</sup>-18<sup>th</sup>, **2019**, Session 6: Biodiversity–Evolution–Systematics.
4. Georgia Kythreoti, Dionisios Vourloumis, "Development of a *Homo sapiens* cytoplasmic ribosomal decoding site affinity screen", 14<sup>th</sup> Hellenic Symposium on Medicinal Chemistry, Thessaloniki, Greece, April 23<sup>rd</sup>-25<sup>th</sup>, **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 26<sup>th</sup>, **2007**.
2. Georgia Kythreoti, "Enzymatic preparation of novel cephalosporin intermediates", Department of Life and Health Sciences, School of Sciences, University of Nicosia, September 20<sup>th</sup>, **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.

#### Presentations

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23. Athanasίου, A.; Giannakopoulos, K.; Mouti, N.; Arvanitopoulou, M.; Arkas, M.; Soto, S.M.; Kythreoti, G., "Ecological Treatment Processes for Leathers Intended for Medical Applications", 9<sup>th</sup> IUPAC International Conference on Green Chemistry, Athens, Greece, September 5-9, **2022**
22. Kythreoti, G.; Thireou, T.; Liggri, P.; Michaelakis, A.; Schulz, S.; Iatrou, K., "Novel anosmia-inducing compounds for environmentally friendly mosquito vector control: structural

- determinants of ORco ligands antagonizing co-receptor function", 19th Panhellenic Entomological Congress, Agrinio, Greece, May 23-27, **2022**
21. latrou, 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", Experimental Biology, Philadelphia, USA, April 2-5, **2022**
  20. latrou, 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", Experimental Biology, San Diego, California, USA, April 4-7, **2020**, D253.
  19. Kythreoti, G.; Sdralia, N.; Tsitoura, P.; Papachristos, D.P.; Michaelakis, A.; Schulz, S.; latrou, K., "Identification of Allosteric Modifiers of Mosquito Odorant Receptor Function and Odor-Triggered Behaviors", 2nd ERNEST Meeting: New Perspectives in Signal Transduction: GPCRs and Beyond (COST Action CA18133), Boğaziçi University, Istanbul, Turkey, March 28-30, **2020**.
  18. latrou, 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", Experimental Biology, Orlando, Florida, USA, April 6-9, **2019**, E214.
  17. Kythreoti, G.; Koussis, K.; Tsitoura, P.; Amaral-Psarris, A.; Tsitsanou, K. E.; Drakou, C. E.; Zografos, S. E.; Thireou, T.; Eliopoulos, E.; Kröber, T.; Guerin, P., latrou, K., "Structure-based design for novel mosquito repellents: Correlations between ligand affinities for *Anopheles gambiae* odorant binding proteins, olfactory receptor signaling and *in vivo* behavioral responses", 63<sup>rd</sup> Congress of the Hellenic Society of Biochemistry and Molecular Biology, Foundation for Research and Technology, Heraklion, Crete, Greece, November 9-11, **2012**, P131.
  16. Konstantopoulou, M.; Koussis, K.; Tsitoura, P.; Kythreoti, G.; Amaral-Psarris, A.; Swevers, L.; Lampropoulou, V.; latrou, K., "Aromatic Plants. Source of novel repellents of natural origin for the control of transmitted diseases", Researchers' night 2012, National Hellenic Research Foundation, Athens, Greece, September 28, **2012**, Poster.
  15. Anastasopoulou, P.; Cottin, T.; Katsoulis, I.A.; Koltsida, K.; Kythreoti, G.; Mavridis, I.; Nahmias, V.R.; Papakyriakou, A.; Pyrkotis, C.; Zografos, A.L.; Vourloumis, D., "Targeting RNA with small molecules", COST CM0804, "Natural Products as Drugs and Leads for Drugs", Workshop 2010, Orthodox Academy of Crete, Kolymvari, Crete, Greece, October 12-15, **2010**, book of abstracts, pages 37-38.
  14. Birtley, J.; Kythreoti, G.; Saridakis, E.; Katsoulis, I.A.; Papakyriakou, A.; Vourloumis, D.; Mavridis, I., "Complex of the A-site rRNA with small molecules of rigid bicyclic nature", 5<sup>th</sup> Conference of the Hellenic Crystallographic Association, Larissa, Greece, September 24-25, **2010**, P9.
  13. Stathakis, C.I.; Pyrkotis, C.; Katsoulis, I.A.; Cottin, T.; Papakyriakou, A.; Zografos, A.L.; Mavridis, I.; Anastasopoulou, P.; Kythreoti, G.; Vourloumis, D., "Targeting bacterial RNA: Design and synthesis of novel rigid structures with antibiotic activity", 14<sup>th</sup> Hellenic Symposium on Medicinal Chemistry, Thessaloniki, Greece, April 23-25, **2010**, book of abstracts, OP14.
  12. Katsoulis, I.A.; Vourloumis, D.; Papakyriakou, A.; Pyrkotis, C.; Cottin, T.; Stathakis, C.I.; Kythreoti, G.; Anastasopoulou, P.; Mavridis, I., "Synthesis of spiro-aminocyclitol analogs and their interaction with the ribosomal RNA", ACS National Meeting; March 21-25, **2010**, San Francisco USA, ORGN-286. Also selected and presented in the SCIFI-mix of the same conference.
  11. Anastasopoulou, P.; Efthimiadou, E.; Katsarou, M.; Katsoulis, I.A.; Kythreoti, G.; Mavridis, I.; Nahmias, V.R.; Papakyriakou, A.; Pitsinos, E.N.; Pyrkotis, C.; Zografos, A.L.; Vourloumis, D., "Antibiotics, anti-Angiogenics and Diagnostics", COST CM0804, "Chemical Biology with

- Natural Products”, Workshop **2009**, Certosa di Pontignano, Siena, Italy, December 03-06, 2009, book of abstracts, O23.
10. Anastasopoulou, P.; Nahmias, V.R.; Zografos, A.L.; Pyrkotis, C.; Katsoulis, I.A.; Papakyriakou, A.; Kythreoti, G.; Mavridis, I.; Vourloumis, D., “Novel Orthogonally Functionalized 2-DOS Analogues”, 3<sup>rd</sup> Hellenic Symposium on Organic Synthesis, “From Chemistry to Biology, Medicine and Materials Science”, Athens, Greece, October 15-17, **2009**, P03.
  9. Katsoulis, I.A.; Pyrkotis, C.; Papakyriakou, A.; Kythreoti, G.; Cottin, T.; Zografos, A.L.; Mavridis, I.; Nahmias, V.R.; Anastasopoulou, P.; Vourloumis, D., “Novel Spirocyclic Aminocyclitols: Simplified Rigid Structures with Antibiotic Activity”, 3<sup>rd</sup> Hellenic Symposium on Organic Synthesis, “From Chemistry to Biology, Medicine and Materials Science”, Athens, Greece, October 15-17, **2009** book of abstracts, L08.
  8. Mavridis, I.; Anastasopoulou, P.; Katsoulis, I.A.; Pyrkotis, C.; Papakyriakou, A.; Kythreoti, G.; Zografos, A.L.; Nahmias, V.R.; Vourloumis, D., “Chemical Biology of Novel Rigid Scaffolds with Antibiotic Potential”, International Symposium on Advances in Synthetic and Medicinal Chemistry, Kiev, Ukraine, August 23-27, **2009** book of abstracts, page 168, P040.
  7. Pyrkotis, C.; Katsoulis, I.A.; Papakyriakou, A.; Kythreoti, G.; Zografos, A.L.; Mavridis, I.; Nahmias, V.R.; Anastasopoulou, P.; Vourloumis, D., “Unnatural rigid scaffolds targeting the bacterial ribosome”, 10<sup>th</sup> Tetrahedron Symposium, “Challenges in Organic and Bioorganic Chemistry”, Paris, France, June 23-26, **2009** book of abstracts, C026.
  6. Vourloumis, D., et al., “Chemical Biology of Novel Rigid Scaffolds with Antibiotic Potential” 10<sup>th</sup> International Conference in Medicinal Chemistry: Drug discovery and design, University of Patra, Greece, March 18–20, **2009**, book of abstracts, P26.
  5. Kythreoti, G.; Zografos, A.L.; Katsoulis, I.A.; Papakyriakou, A.; Anastasopoulou, P.; Mavridis, I.; Vourloumis, D., “Chemical Biology of Small Molecules Interfering with Protein Synthesis”, XX<sup>th</sup> International Symposium Medicinal Chemistry, Vienna, Austria, August 31 - September 4, **2008**. Abstract published in *Drugs of the Future* **2008**, 33, Suppl. A, P249.
  4. Anastasopoulou, P.; Zografos, A.L.; Katsoulis, I.A.; Papakyriakou, A.; Kythreoti, G.; Mavridis, I.; Vourloumis, D., “Chemical Biology of Small Molecules Interfering with Protein Synthesis”, BOSS XI, 11<sup>th</sup> Belgian Organic Synthesis Symposium, Ghent, Belgium, July 13 - 18, **2008**. Book of Abstracts 2008, P26.
  3. Vourloumis, D., et al., “Chemical Biology of Small Molecules Interfering with Protein Synthesis”, ESF-COST High-Level Research Conference: Natural Products Chemistry, speaker and session chair, Biology and Medicine, Acquafredda di Maratea, Italy, May 18–23, **2008**. Book of Abstracts 2008, pages 60 – 61.
  2. Vourloumis, D., et al., “Chemical Biology of Small Molecules Interfering with Protein Synthesis”, 9<sup>th</sup> International Conference in Medicinal Chemistry: Drug discovery and design, University of Patras, Greece, March 26–28, **2008**.
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#### Service to Profession:

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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:**

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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:**

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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:**


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

**Certificates:**

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

References available upon request