

Christos T. Chasapis



Assistant Professor

Laboratory of Organic Chemistry, National and Kapodistrian University of Athens

Email: cchasapis@chem.uoa.gr

ORCID: <https://orcid.org/0000-0002-8728-6245>

Google scholar: <https://scholar.google.com/citations?hl=el&tzom=-180&user=YsUZTwIAAAAJ>

SCOPUS: <https://www.scopus.com/authid/detail.uri?authorId=12763792800>

Tel.: 210 727 4481

Website: https://org.chem.uoa.gr/prosopiko/syntomes_plirofories/chasapis_christos

EDUCATION

- 2000** B.Sc. in Chemistry
University of Ioannina, Department of Chemistry, Ioannina (Greece).
- 2002** M.Sc. in Bioinorganic Chemistry
University of Ioannina, Department of Chemistry, Ioannina (Greece).
- 2005** Ph.D. in Chemistry
CERM, NMR center of University of Florence, Italy and University of Ioannina, Department of Chemistry, Ioannina, Greece. Research Advisor: Prof. Ivano Bertini.

APPOINTMENTS

- 2025-today** Assistant Professor, Laboratory of Organic Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, Greece
- 2023-2025** Research Assistant Professor, Group Leader, Institute of Chemical Biology, National Hellenic Research Foundation, Athens, Greece
- 2019-2022** ➤ NMR Facility Manager, NMR Facility, Instrumental Analysis Laboratory, School of Natural Sciences, University of Patras, Greece
➤ Appointed Associate Professor @ School of Agricultural Sciences, University of Patras, Greece
- 2017-2019** Visiting Researcher @ NRM center, Department of Chemistry and Pharmacy, University of Sassari Italy
- 2015-2019** Post Doc Researcher, Foundation for Research and Technology – Hellas (FORTH), Institute of Chemical Engineering Sciences (ICEHT)
- 2008-2015** ➤ Visiting Researcher @ CRMN, Very High Field NMR Center of Lyon, Lyon, France
➤ Visiting Researcher @ NMR center of University of Freiburg, Freiburg, Germany
➤ Visiting Researcher @ Faculty of Medicine Imperial College, Hammersmith Hospital Campus, London, UK
- 2008-2015** ➤ Post Doc Researcher, Department of Pharmacy, University of Patras
➤ Appointed Assistant Professor @ Department of Pharmacy, University of Patras
- 2005-2006** Post Doc Researcher @CERM, NMR center of University of Florence, Italy
- 2002-2005** Marie Curie Fellow @CERM, NMR center of University of Florence, Italy

RESEARCH FIELDS

- NMR spectroscopy of bioactive organic compounds and drugs, with a focus on their interactions with peptides and proteins
- Computational chemistry, including molecular docking, molecular dynamics simulations, and structure-based prediction of protein–protein and protein–drug interactions
- Drug repurposing and rational design of pharmacological agents

EDUCATION EXPERIENCE

UNDERGRADUATE COURSES

- **2019-2022** Appointed Associate Professor / Organic Chemistry/ Required course /School of Agricultural Sciences, University of Patras
- **2018-2019** Appointed Assistant Professor / Instrumental Chemical Analysis/ Required course /Department of Chemistry, University of Patras
- **2011-2015** Appointed Assistant Professor / Molecular simulation/ Required course / Department of Pharmacy, University of Patras

POSTGRADUATE COURSES

- **2018** TRANSLATIONAL RESEARCH IN BIOMEDICINE / Department of Molecular Biology and Genetic, Democritus University of Thrace

AWARDS AND SCHOLARSHIPS

- **2023** Invited Editorial Board Member of the Journal: Outbreak Management and Response, by Taylor and Francis.
- **2021** Guest Editor of Special issue "Metal Intoxication: General Aspects and Chelating Agents", Molecules, MDPI, impact factor: 4.927
- **2016-2017** Post Doc fellowship, "Structural Systems Biology for Metabolic Engineering Applications" by ARCHERS project Stavros Niarchos Foundation, Foundation for Research and Technology – Hellas (FORTH), Institute of Chemical Engineering Sciences (ICEHT), Greece
- **2014** The publication: Zinc and human health: an update, Chasapis, C.T., Loutsidou, A.C., Spiliopoulou, C.A, Stefanidou ME., Arch Toxicol 86, 521–534, 2012, <https://doi.org/10.1007/s00204-011-0775-1>, was characterized as "Review on cutting- edge topics in toxicology" and most cited and downloaded in Archives of Toxicology in 2012: <https://doi.org/10.1007/s00204-014-1418-0>
- **2003-2004** Marie Curie PhD fellow funded by EU- FP6-CITIZENS project: "Improving the Human Research Potential and Socio-Economic Knowledge Base" ID: HPMT-CT-2000-00137 CERM, University of Florence, Italy
- **2000-2001** Postgraduate Scholarship (12 months) by Greek State Fellowship Foundation (IKY), Dept. of Chemistry, U. of Ioannina
- **1999-2000** Undergraduate Scholarship (12 months) by EU INTERREG II, Dept. of Chemistry, U. of Ioannina

RESEARCH GRANDS

- **2024-2025** C02BIO/16103 (ΕΛΙΔΕΚ_5): Main researcher of the WP (12 months): Structural Computational Analysis of the Proteome of Extremophilic Bacteria and Anaerobic Carbon Dioxide Assimilation
- **2023-2024** Horizon 2020, JOINTPROMISE, Grant agreement ID: 874837, "JOINTPROMISE", <https://www.jointpromise.eu> (Participation 12 months)
- **2021** T2EDK – 01332, MIS 5072532, "TOMATOMICS – Quantification of Metabolic Profiles in Tomato Tissues Using Spectroscopic Techniques and Participation in Data Analysis within the Context of Biomolecular Networks (Participation 6 months)
- **2018-2019** ELIXIR-GR: Managing and Analysing Life Sciences Data, (Participation 12 months)
- **2015-2017** FP7/2007-2013 KBBE, 2013-17, ContractN° 613877: "STREPSYNTH" <http://www.strepsynth.eu/> (Participation 24 months)
- **2012-2015** EU FP7-REGPOT Establishment of a Centre of Excellence for Structure-based drug target characterization (SEE-DRUG), (Participation 36 months)
- **2008-2012** EU FP7-HEALTH Neurotransmitter Cys-loop receptors: structure, function and disease (NEUROCYPRES), (Participation 48 months)

ADDITIONAL INFORMATION

- >85 publications in peer reviewed journals (> 3200 citations, h-index: 23; Scopus (09/25))
- >18 invited lectures in Greece and abroad
- Supervision of doctoral theses: 1
- Supervision of graduate students: 3
- Supervision of undergraduate students: >10
- 5 research monographs
- Invited Editorial Board Member of the Journal: Outbreak Management and Response, by Taylor and Francis
- >15 invited reviewer for research articles in peer reviewed journals
- Member of Hellenic Society for Computational Biology and Bioinformatics
- Member of European Peptide Society, EPS
- Member of the Union of Greek Chemists
- Member of the National Research Infrastructures ELIXIR-GR and INSTRUCT-ERIC

Selected Publications

- D.P. Kiouri, G.C. Batsis, C.T. Chasapis*, *Structure-Based Deep Learning Framework for Modeling Human–Gut Bacterial Protein Interaction*, **Proteomes**, 13, 10, **2025** <https://doi.org/10.3390/proteomes13010010>
- D.P. Kiouri, G.C. Batsis, T. Mavromoustakos, A. Giuliani, C.T. Chasapis*, *Structure-Based Modeling of the Gut Bacteria–Host Interactome Through Statistical Analysis of Domain–Domain Associations Using Machine Learning*. **BioTech**, 14, 13, **2025**. <https://doi.org/10.3390/biotech14010013>
- V. Apostolopoulos*, N. Georgiou, D. Tzeli*, T. Mavromoustakos*, G. J. Moore, K. Kelaidonis, M.-T. Matsoukas, S. Tsiodras, J. Swiderski, L. K. Gadanec, A. Zulli, C. T. Chasapis*, J. M. Matsoukas*, *Density functional theory and enzyme studies support interactions between angiotensin receptor blockers and angiotensin converting enzyme-2: Relevance to coronavirus 2019*, **Bioorganic Chemistry**, Volume 150, 107602, ISSN 0045-2068, **2024**, <https://doi.org/10.1016/j.bioorg.2024.107602> .
- K. Kelaidonis, I. Ligielli, S. Letsios, V.P. Vidali, T. Mavromoustakos, N. Vassilaki, G.J. Moore, W. Hoffmann, K. Węgrzyn, H. Ridgway, C.T. Chasapis*, J.M. Matsoukas*, *Computational and Enzymatic Studies of Sartans in SARS-CoV-2 Spike RBD-ACE2 Binding: The Role of Tetrazole and Perspectives as Antihypertensive and COVID-19 Therapeutics*, *Int J Mol Sci.* ;24(9):8454, **2023**, <https://doi.org/10.3390/ijms24098454>
- Ridgway H, Orbell JD, Matsoukas MT, Kelaidonis K, Moore GJ, Tsiodras S, Gorgoulis VG, Chasapis CT*, Apostolopoulos V, Matsoukas JM*. *W254 in furin functions as a molecular gate promoting anti-viral drug binding: Elucidation of putative drug tunneling and docking by non- equilibrium molecular dynamics*, **Comput Struct Biotechnol J**;21:4589-4612, **2023**, <https://doi.org/10.1016/j.csbj.2023.09.003>
- M. Spiliopoulou, A. Valmas, D. Triandafillidis, S. Fili, M. Christopoulou, A. J. Filopoulou, A. Piskopou, P. Papadea, A. N. Fitch, D. Beckers, T. Degen, F. Gozzo, M. Morin, M. L. Reinle-Schmitt, F. Karavassili, E. Rosmaraki, C. T. Chasapis and I. Margiolaki* *High throughput macromolecular polymorph screening via NMR and X-ray powder diffraction synergistic approach: The case of human insulin co-crystallized with resorcinol derivatives* **J. Appl. Cryst.** 54, 963-975, **2021** <https://doi.org/10.1107/S160057672100426X>
- C.T. Chasapis*, and A. Vlamis-Gardikas *Probing conformational dynamics by Protein Contact Networks: comparison with NMR relaxation studies and molecular dynamics simulations*, **Biophysica**, MDPI 1(2), 157-167, **2021**, <https://doi.org/10.3390/biophysica1020012>
- D. G. Mintis, A. Chasapi, K. Poulas, G. Lagoumintzis, C. T. Chasapis*, *Assessing the Direct Binding of Ark-Like E3 RING Ligases to Ubiquitin and Its Implication on Their Protein Interaction Network*,

Molecules, MDPI, 25(20):4787, **2022**, <https://doi.org/10.3390/molecules25204787>

- C. T. Chasapis*, *Hierarchical core decomposition of RING structures as a method to capture novel functional residues within RING-type E3 ligases: a structural systems biology approach*, **Comput Biol Med.**, Volume 100, Pages 86–91, **2018**, <https://doi.org/10.1016/j.compbiomed.2018.06.033>
- C.T. Chasapis, A.I. Argyriou, M. Apostolidi, P.Konstantinidou, C.Stathopoulos, D. Bentrop, G.A. Spyroulias*, *¹H, ¹³C and ¹⁵N Backbone and side-chain resonance assignment of the LAM-RRM1 N-terminal module of La protein from Dictyostelium discoideum*, **Biomol NMR Assign.** 9(2):303-7, **2015**, <https://doi.org/10.1007/s12104-015-9597-z>
- C.T. Chasapis, N.G. Kandias, V. Episkopou, D. Bentrop, G.A. Spyroulias*, *NMR-based insights into the Conformational & Interaction properties of Arkadia RING-H2 E3 Ub Ligase*, **PROTEINS: Structure Notes**, 80(5):1484-9, **2012** <https://doi.org/10.1002/prot.24048>
- L. Banci, I. Bertini, S.C. Bafoni, C.T. Chasapis, N.Hadjiliadis, A. Rosato, *An NMR study of the interaction between the human copper(I) chaperone and the second and fifth metal-binding domains of the Menkes protein*. **FEBS Journal** Vol 272, Issue 3, 865-871, **2005**, <https://doi.org/10.1111/j.1742-4658.2004.04526.x>
- L. Banci, I. Bertini, F. Cantini, C.T. Chasapis, N. Hadjiliadis, A. Rosato, *A NMR study of the interaction of a three-domain construct of ATP7a with copper(I) and copper(I)-HAH1: the interplay of domains*, **Journal of Biological Chemistry**. vol. 280, no.46, pp. 38259–38263, **2005**, <https://doi.org/10.1074/jbc.M506219200>