

Panagiotis Zoumpoulakis

Researcher C

Institute of Biology, Medicinal Chemistry and Biotechnology

Phone: +30 210 72 73 853 /869

Fax: +30 210 72 73 831

E-mail: pzoump@eie.gr

Website: <http://www.eie.gr/nhrf/institutes/iopc/cvs/cv-zoumpoulakis-en.html>

Education and qualifications

2004: PhD in Chemistry, Department of Chemistry – University of Patras, Greece.
Supervisors: Prof. John Matsoukas / Dr. Thomas Mavromoustakos.

2007: Masters of Business Administration (Executive MBA), Athens University of Economics and Business.

1999: Diploma in Chemistry, Department of Chemistry – University of Patras, Greece

Appointments

1/1/2013 – present

Researcher C, Institute of Biology, Medicinal Chemistry and Biotechnology, National Hellenic Research Foundation

31/10/2006 - present

Research Associate, Department of Food Technology, Technological Educational Institution of Athens

1/1/2008 – 31/12/2012

Researcher D, Institute of Organic and Pharmaceutical Chemistry, National Hellenic Research Foundation

1/1/2007- 31/12/2007

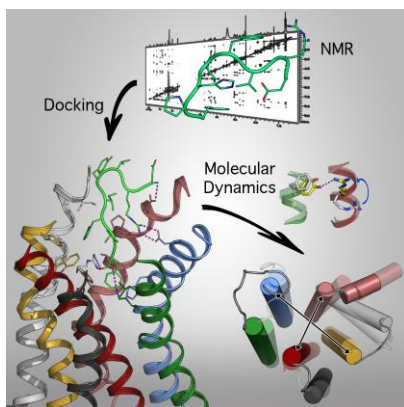
External partner of Intermas Consultants Ltd. in the administration of Research projects and Technology Transfer activities

1/12/2004-30/9/2005 & 1/12/05-30/11/06

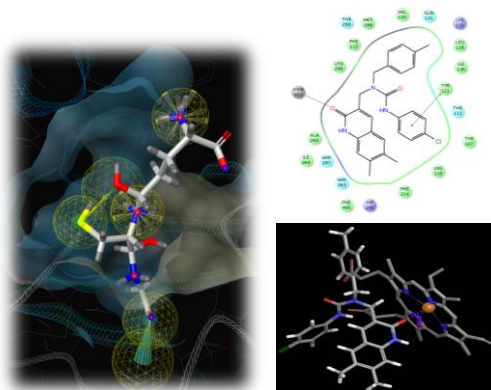
Postdoctoral researcher, Institute of Organic and Pharmaceutical Chemistry, National Hellenic Research Foundation

Current Research interests

- Design of novel bioactive compounds using Nuclear Magnetic Resonance (NMR) Spectroscopy and *in silico* applications. Proteins of interest include: (i) Lanosterol 14 alpha-demethylase for the design of novel antifungal agents; (ii) AT₁ receptor towards the design of novel Angiotensin II antagonists for the regulation of blood pressure; (iii) tyrosinase enzyme towards novel inhibitors with applications in cosmetics.

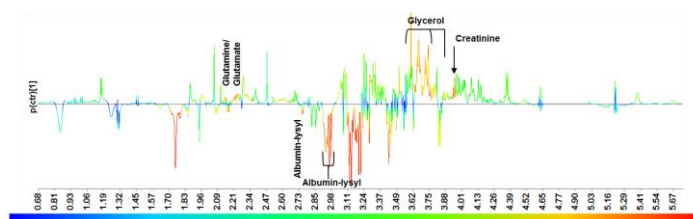
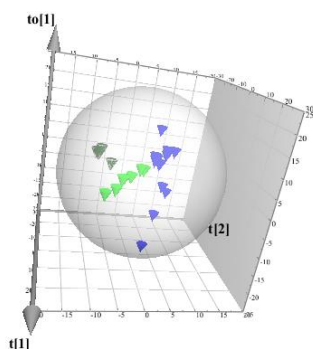


Binding of Angiotensin II provides insights into AT₁ receptor activation.



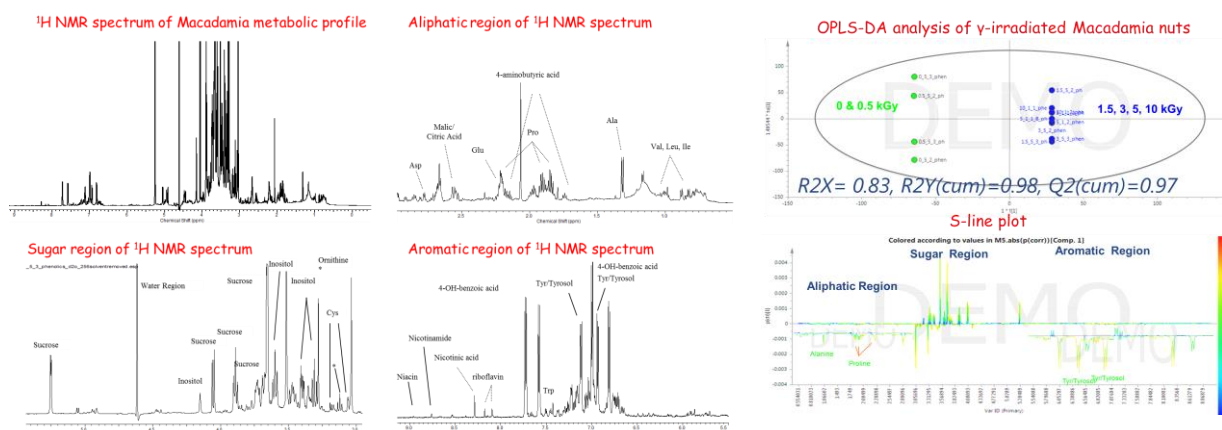
Virtual screening of compound libraries for CYP51. Proposed hits bind close to heme ring chelating the metal cation.

- NMR based metabolomics towards novel biomarkers for early diagnosis. This is a recent field of interest currently targeting the embryometabolomics area correlating between biomarkers found in blood and human amniotic fluid with fetal malformations, preterm delivery as well as embryo growth and viability in *in-vitro* fertilization.



O2PLS-DA model of maternal blood serum samples classify the large for gestational age (LGA) (green), the LGA from diabetic mothers (grey) and the appropriate for gestational age (AGA) (blue) samples according to their metabolic fingerprint.

3. Identification of bioactive compounds in food products using high energy (ultrasound and microwave assisted extraction), NMR and HR LC-MS techniques. One of the main objectives is the development of a detection methodology for gamma irradiated food, based on NMR applications.



¹H NMR spectra of lipid extract of macadamia nuts after 10kGy of ⁶⁰Co gamma irradiation.

Untargeted analysis of lipid profile data can be used to discriminate irradiated samples at certain doses.

Organizing Committee membership

- SCINTE 2015, International Conference "Science in Technology" 2015, 5-7 November, Athens, Greece.
- CMTPI-2015, 8th International Symposium on Computational Methods in Toxicology and Pharmacology Integrating Internet Resources, Chios Island, June 21-25, 2015.
- "2nd Workshop on Drug Design" Training of graduate and undergraduate students on rational drug design through Molecular Modeling, NMR and X-ray techniques. National Hellenic Research Foundation. Athens 2008.
- "1st Hellenic Workshop on Molecular Modeling and *in silico* Docking applications in Drug Design" under the 14th Hellenic Symposium of Medicinal Chemistry, Thessaloniki, Greece, April 2010
- 3rd ARCADE Workshop "Advanced Mass Spectrometric and NMR Methods", Athens 28-30 May, 2012.
- 4th Annual Meeting of Action CM0801 "New Drugs for Neglected Diseases", 19-21 September, 2012, Kolimvari, Creta.

- 3rd Workshop on Drug Design. Training of undergraduate and graduate students on Molecular Dynamics Simulations and Virtual Screening techniques. National Hellenic Research Foundation, Athens, 7-8 & 21-22 October 2013.

Honours, awards, distinctions

- COST STSM grant «*In silico* approaches for the design of novel TryS inhibitors with potential antileishmanial activity, Siena, Italy, May 2009
- Scholarship from the State Scholarships Foundation of Greece for Post Doctoral research, October 2005.
- ESF/EMBO scholarship for the attendance of the international conference «Biomolecular NMR » Sweeden, August 2005.
- Erasmus/Socrates Scholarship, University of Greenwich, London, UK, February 1998-July 1998.

Foreign Languages

- **English**, Proficient User (Understanding, Reading, Listening, Writing:C2)

- **Italian**, Independent User (Understanding, Reading, Listening, Writing:B2)

Other memberships

- Special Inter-institutional Committee of the "Bio-Entrepreneurship" M.Sc.
- Greek Chemists Association
- Association of Greek Reserve Officers
- Alumni «Executive MBA" - Athens University of Economics and Business.

Participation in national research projects

Running projects

"Targeted Therapeutic Approaches against Neurodiseases with emphasis on Cancer and Aging", Development Proposals for Research Centers- KRIPIS SECTORAL OPERATIONAL PROGRAMME, EDUCATION AND LIFELONG LEARNING –ESPA 2007-2013

«Metabolomics as a tool for the assessment of embryo growth and viability in in-vitro fertilization» Programme THALIS 2012-2015, SECTORAL OPERATIONAL PROGRAMME, EDUCATION AND LIFELONG LEARNING –ESPA 2007-2013 (Member of the main research team).

«The effects of antioxidant’s dietary supplementation on animal product quality» Programme THALIS 2012-2015, SECTORAL OPERATIONAL PROGRAMME, EDUCATION AND LIFELONG LEARNING –ESPA 2007-2013 (Member of the main research team).

«Synthesis of Hydroxytyrosol Analogues and Study of their Antioxidant Activity and Physicochemical Properties» Programme ARHIMIDES 2012-2015, SECTORAL OPERATIONAL PROGRAMME, EDUCATION AND LIFELONG LEARNING –ESPA 2007-2013 (Member of the main research team).

«Functional and Potentially Hazardous Food Constituents. Impact of Electromagnetic Treatments for Quality Products» Programme ARHIMIDES 2012-2015, SECTORAL OPERATIONAL PROGRAMME, EDUCATION AND LIFELONG LEARNING –ESPA 2007-2013 (Member of the main research team).

PREVENT: Molecular, functional and structural analysis of Mosquito OBPs for Prevention of Vector-Borne Infectious Diseases” General Secretariat for Research and Technology, Research grant ESPA R&D project of bilateral cooperation Greece-Turkey 2013-2014. (Participating Researcher)

Completed projects

“Production of Novel, Double Action (Antagonists of Angiotensin II with Adrenergic inhibitors) Antihypertensive Drugs” (Greek Competitive Funding Program from General Secretariat of Research and Technology- Action 4.5). 1.4.2005 - 30.9.2005

“Use of Biophysical Methods and Computational Chemistry Techniques for the Determination of the Structure of Bioactive Molecules and their Interaction with Membranes” (Greek Competitive Funding Program from General Secretariat of Research and Technology- Action 3.3/3.3.1). 1.7.2002 - 30.6.2003.

“Simulation of NMR spectra of anticancer agents”. (Greek Competitive Funding Program from General Secretariat of Research and Technology- EPETII, PAVE 99) 1.7.2000 - 30.6.2002

Participation in EU funded research projects

Completed projects

“Advancement of Research Capability for the Development of New Functional Compounds”, FP7 – REGPOT, 2009-2012.(Participating Researcher & Member of the Management Board).

"Metabolic, Isotopic, Antioxidant and Elemental profiling to characterize Cypriot wines of specific geographical and varietal origin" FRAMEWORK PROGRAMME FOR RESEARCH, TECHNOLOGICAL DEVELOPMENT AND INNOVATION, Research Promotion Foundation, Cyprus, 2009 – 2010.

«Multi-Actor-Cooperation training at all level for integrated sustainable development of the European viti- vini- sector from the vineyard to the glass.", Lifelong Learning Programme 2007-2013, Leonardo da Vinci, 1.10.08 έως 30.9.210 (Scientist in charge).

«Novel approach for the treatment of psoriasis», Institute for Research Promotion, Cyprus, (1.12.05 - 30.11.2006, Researcher).

"Conformational analysis of peptidomimetic drugs" Program of the Center of Excellence sponsored by European Commission, contract no: ICA1-CT-2000-70034. National Institute of Chemistry. Ljubljana-Slovenia. December 4-19, 2000, February 11-24, 2001, October 29- November 11, 2001, October 1 – October 15, 2002, May 15-May 22,2005. Researcher.

Bilateral Cooperation between Greece – Slovenia: "Conformational Analysis and Drug Membrane Interactions of Bioactive Compounds", ΕΠΑΝ-Μ.4.3 (2013555) and ΕΠΑΝ-2000ΣΕ01330005, GSRT, Greece. Researcher.

Effects of losartan on POPC and DMPC multibilayers in the Fluid Phase. SAX BEAMLIN, Synchrotron ELETTRA, (Proposals 2005028, 2005569) Trieste, Italy, August 2005, February 2006. Researcher.

The structural properties of the collageneous membranes containing the antibiotic gentamycin. SAX BEAMLIN, Synchrotron ELETTRA, (Proposal 2006216) Trieste, Italy, August 2006. Researcher.

Current collaborations (outside NHRF)

International

1. Dr. Marina Sokovic, Institute for Biological Research "Sinisa Stancovic" of the University of Belgrade, Serbia.
2. Dr. Simona Golic Grdadolnik, Chemistry Institute, Slovenia
3. Dr. Michael Rappolt, Austrian SAXS Beamline of ELETTRA, Italy
4. Dr. Jallal Gnaim, CapsuTech Ltd, Israel.
5. Dr. Rebecca Kokkinofta, State General Laboratory, Cyprus

National

6. Prof. Ariadne Malamitsi-Puchner, Neonatal Division, 2nd Department of Obstetrics and Gynecology, Athens University Medical School, Athens.
7. Prof. Constantinos Biliaderis, Department of Food Science and Technology, School of Agriculture, Aristotle University of Thessaloniki
8. Prof. John Matsoukas, Department of Chemistry, University of Patras.
9. Prof. Constantinos Sflomos, Department of Food Technology, Technological Educational Institution of Athens.
10. Ass. Prof. George Theodorides, Department of Chemistry, Aristotle University of Thessaloniki
11. Ass. Prof. Anastasia Detsi, School of Chemical Engineers, National Technical University of Athens.
12. Ass. Prof. Vasilias Sinanoglou, Department of Food Technology, Technological Educational Institution of Athens.
13. Ass. Prof. Euaggelos Gikas, Department of Pharmacy, University of Athens.
14. Ass. Prof. Theodore Tselios, Department of Chemistry, University of Athens.
15. Dr. Charalambos Proestos, Department of Chemistry, University of Athens.
16. Dr. Panos Kefalas, Mediterranean Agronomic Institute of Chania

Publications (and recent highlights 2005-2015)

Publications in Peer Reviewed Scientific Journals

1. Synthesis and Study of Cyclic Angiotensin II Antagonist Analogue reveals the role of π^* - π^* interactions in the C-Terminal Aromatic Residue for agonist activity and its structure resemblance with AT1 non-peptide antagonists. Ludmila Plevaya, Thomas Mavromoustakos, Panagiotis Zoumboulakis, Maria Zervou, Simona Golic Grdadolnik, Panagiota Roumelioti, Nektarios Giatas, Ilze Mutule, Ilga Mutule, Tatjana Keivish, Alvine Kharitonova, Gundars Maurops, Demetrios Vlahakos, Efstathios Iliodromitis, Demetrios Kremastinos, Anastasios Troganis, John Matsoukas, *Bioorg. Med. Chem.*, 9 (2001) 1639-1647.
2. Design, Synthesis and Biological Evaluation of Cyclic Angiotensin II Analogues with 3,5 Side Chain Bridges: Role of C-Terminal Aromatic Residue and Ring Cluster for Activity and Implications in the Drug Design of AT1 Non-Peptide Antagonists. Panagiota Roumelioti, Ludmila Plevaya, Panagiotis Zoumpoulakis, Nektarios Giatas, Ilze Mutule, Tatjana Keivish, Anastasia Zoga, Demetrios Vlahakos, Eustathios Iliodromitis, Demetrios Kremastinos, Simona Golic Grdadolnik, Thomas Mavromoustakos and John Matsoukas. *Bioorg. Med. Chem. Lett.*, 12, (2002) 2627.

3. Structure Elucidation and Conformational Properties of Eprosartan, a non-peptide Angiotensin II AT1 antagonist. Panagiotis Zoumpoulakis, Simona Golic Grdadolnik, John Matsoukas, Thomas Mavromoustakos., *J. Pharm. Biomed. Anal.*, 28 (2002) 125-135.
4. Conformational and biological studies for a pair of novel synthetic AT1 antagonists: stereoelectronic requirements for antihypertensive efficacy. P. Zoumpoulakis, A.Zoga, P. Roumelioti, N. Giatas, S.G. Grdadonlik, E. Iliodromitis, D. Vlahakos, D. Kremastinos, J.M. Matsoukas, T. Mavromoustakos. *J. Pharm. Biomed. Anal.*, 31, (2003) 833-844.
5. Design and Synthesis of Novel Antihypertensive Drugs. P. Moutevelis-Minakakis, M. Gianni, H. Stougiannou, P. Zoumpoulakis, A. Zoga, A.D. Vlahakos, T. Mavromoustakos. *Bioorg. Med. Chem. Lett.* 13, (2003), 1737.
6. Losartan's molecular basis of interaction with membranes and AT1 receptor. P. Zoumpoulakis, I. Daliani, M. Zervou, , I. Kyrikou, G. Lamprinidis, E. Mikros, T. Mavromoustakos. *Chemistry and Physics of Lipids.* 125, (2003), 13.
7. Efforts to Understand the Molecular Basis of Hypertension Through Drug:Membrane Interactions. T. Mavromoustakos, P. Zoumpoulakis, I. Kyrikou, A. Zoga, E. Siapi, M. Zervou, I. Daliani, D. Dimitriou, A. Pitsas, C. Kamoutsis, P. Laggner. *Curr Top Med Chem.* 4, (2004), 445.
8. Conformation and Bioactivity. Design and Discovery of Novel Antihypertensive Drugs. T. Mavromoustakos, M. Zervou, P. Zoumpoulakis, I. Kyrikou, N.P. Benetis, L. Polevaya, P. Roumelioti, N. Giatas, A. Zoga, P. Moutevelis Minakakis, A. Kolocouris, D. Vlahakos, S.G. Grdadolnik, J. Matsoukas, *Curr Top Med Chem.* 4, (2004), 385.
9. 2D NMR and conformational analysis of a prototype anti-tumor steroidal ester. Agnes Kapou, Manolis A. Fousteris, Sotiris S. Nikolaropoulos, Maria Zervou, Simona G. Grdadolnik, Panagiotis Zoumpoulakis, Ioanna Kyrkou, Thomas Mavromoustakos, *J. Pharm. Biomed. Anal.*, 38, (2005), 428.
10. Seeking the Active Site of the AT1 Receptor for Computational Docking Studies. Panagiotis Zoumpoulakis, Thomas Mavromoustakos, *DDR-O*, 2, (2005), 537-545.
11. Structure elucidation and conformational study of V8. A novel synthetic non peptide AT1 antagonist. Panagiotis Zoumpoulakis, Aggeliki Politi, Simona Golic Grdadolnik, John Matsoukas, Thomas Mavromoustakos, *J. Pharm. Biomed. Anal.*, 40, (2006), 1097-1104.
12. Synthesis, binding studies, and in vivo biological evaluation of novel non-peptide antihypertensive analogues. T. Mavromoustakos, P. Moutevelis-Minakakis, C.G. Kokotos, P. Kontogianni, A. Politi, P. Zoumpoulakis, J. Findlay, A. Cox, A. Balmforth, A. Zoga, E. Iliodromitis. *Bioorg. Med. Chem.*, 14, (2006), 4353-4360.
13. Sulfonamide-1,2,4-triazole derivatives as antifungal and antibacterial agents. Synthesis, Biological evaluation, Lipophilicity and Conformational Studies. Iraj Rahabi Ezabadi, Charalabos Camoutsis, Panagiotis Zoumpoulakis, Athina Geronikaki, Marina Socovic, Jasmina Clamocilija and Ana Ciric. *Bioorg. Med. Chem.*, 16, (2008), 1150-1161.

14. Synthetic, structural, spectroscopic and solution speciation studies of the binary Al(III)-quinic acid system. Relevance of soluble Al(III)-hydroxycarboxylate species to molecular toxicity. Catherine Gabriel, Melita Menelaou, Markos Daskalakis, Andrea Lakatos, Tamas Kiss, Constantin Mateescu, Raphael G. Raptis, Panagiotis Zoumpoulakis and Athanasios Salifoglou. *Polyhedron* 27 (13), (2008), 2911-2920.
15. Antihypertensive Drug Valsartan in solution and at the AT1 Receptor: Conformational Analysis, Dynamic NMR Spectroscopy, in silico Docking and Molecular Dynamics Simulations. Constantinos Potamitis, Maria Zervou, Vassilis Katsiaras, Panagiotis Zoumpoulakis, Serdar Durdagi, Manthos G. Papadopoulos, Joseph M. Hayes, Simona Golic Grdadolnik, Ioanna Kyrikou, Dimitris Argyropoulos, Georgia Vatougia, Thomas Mavromoustakos, *J. Chem. Inf. Model.*, 49 (3),(2009), 726-739.
16. A computational study on cannabinoid receptors and potent bioactive cannabinoid ligands: homology modeling, docking, de novo drug design and molecular dynamics analysis, Serdar Durdagi, Manthos G. Papadopoulos, Panagiotis G. Zoumpoulakis, Catherine Koukoulitsa, Thomas Mavromoustakos, *Molecular Diversity*, 14, (2010), 257-276.
17. Sulfonamide-1,2,4-thiadiazole derivatives as antifungal and antibacterial agents: Synthesis, biological evaluation, lipophilicity, and conformational studies, Charalabos Camoutsis, Athina Geronikaki, Ana Ciric, Marina Soković, Panagiotis Zoumpoulakis, Maria Zervou, *Chem. Pharm. Bull.*, 58(2), (2010), 160-7.
18. Novel 4-thiazolidinone derivatives as potential antifungal and antibacterial drugs, Kouatli Omar, Athina Geronikaki, Panagiotis Zoumpoulakis, Charalabos Camoutsis, Marina Sokovic, Ana Ciric, Jasmina Clamoclija, *Bioorg. Med. Chem.* 18, (2010), 426-432.
19. Hypertension study in anaesthetized rabbits: protocol proposal for AT1 antagonists screening, Aggeliki P Politi, Maria V Zervou, Helen Triantafyllidi, Panagiotis G Zoumpoulakis, Thomas M Mavromoustakos, Anastasia A Zoga, Panagiota Moutevelis-Minakakis, George Kokotos, Efstathios K Iliodromitis and Dimitris Th Kremastinos, *JRAAS*, 11(2), (2010), 103-10.
20. Structural variation and rheological properties of water-extractable arabinoxylans from six Greek wheat cultivars, A. Skendi, C.G. Biliaderis, M.S. Izydorczyk, M. Zervou, P. Zoumpoulakis, *Food Chemistry*, 126(2), (2011), 526.
21. Comparative Biophysical Studies of Sartan Class Drug Molecules Losartan and Candesartan (CV-11974) with Membrane Bilayers. Charalambos Fotakis, Dionyssios Christodouleas, Panagiotis Zoumpoulakis, Eftichia Kritsi, Nikolas-Ploutarch Benetis, Thomas Mavromoustakos, Heribert Reis, Argiro Gili, Manthos G. Papadopoulos, and Maria Zervou, *J. Phys. Chem.*, 115(19), (2011), 6180-92.
22. Synthesis, in silico docking experiments of new 2-pyrrolidinone derivatives and study of their anti-inflammatory activity, Panagiota Moutevelis-Minakakis, Eleni Papavassilopoulou, George Michas, Kalliopi Georgikopoulou, Maria-Eleni Ragoussi, Niki Neophytou, Panagiotis Zoumpoulakis, Thomas Mavromoustakos, Dimitra Hadjipavlou-Litina, *Bioorg. Med. Chem.* 19, (2011), 2888–2902.

23. Conformational Analysis of Aliskiren, a Potent Renin Inhibitor, Using High-Resolution Nuclear Magnetic Resonance and Molecular Dynamics Simulations, Minos-Timotheos Matsoukas, Panagiotis Zoumpoulakis, Theodore Tselios, *J. Chem. Inf. Model.*, 26 51(9), (2011), 2386-9
24. A combined methodology to detect γ -irradiated white sesame seeds and evaluate the effects on fat content, physicochemical properties and protein allergenicity, Panagiotis Zoumpoulakis, Vassilia J. Sinanoglou, Anthimia Batrinou, Irini F. Strati, Sofia Miniadis-Meimaroglou, and Konstantinos Sflomos, *Food Chemistry*, 131 (2012) 713–721
25. Synthesis of novel sulfonamide-1,2,4-triazoles, 1,3,4-thiadiazoles and 1,3,4-oxadiazoles, as potential antibacterial and antifungal agents. Biological Evaluation and Conformational Analysis Studies, P. Zoumpoulakis*, Ch. Camoutsis, G. Pairas, M. Soković, J. Glamočlija, C. Potamitis, A. Pitsas, *Bioorg. Med. Chem.* 20 (2012) 1569–1583.
26. Losartan's affinity to fluid bilayers modulates lipid-cholesterol interactions. A. Hodzic, P. Zoumpoulakis, G. Pabst, T. Mavromoustakos and M. Rappolt, *Phys. Chem. Chem. Phys.*, 14, (2012), 4780–4788.
27. The s-Hole Phenomenon of Halogen Atoms Forms the Structural Basis of the Strong Inhibitory Potency of C5 Halogen Substituted Glucopyranosyl Nucleosides towards Glycogen Phosphorylase b. Anastasia L. Kantsadi, Joseph M. Hayes, Stella Manta, Vicky T. Skamnaki, Christos Kiritsis, Anna-Maria G. Psarra, Zisis Koutsogiannis, Athina Dimopoulou, Stavroula Theofanous, Nikolaos Nikoleousakos, Panagiotis Zoumpoulakis, Maria Kontou, George Papadopoulos, Spyros E. Zographos, Dimitris Komiotis, and Demetres D. Leonidas, *Chem.Med.Chem.*, DOI: 10.1002/cmdc.201100533
28. 3'-Axial CH₂OH Substitution on Glucopyranose does not Increase Glycogen Phosphorylase Inhibitory Potency. QM/MM-PBSA Calculations Suggest Why. Stella Manta, Andromachi Xipnitou, Christos Kiritsis, Anastassia L. Kantsadi, Joseph M. Hayes, Vicky T. Skamnaki, Christos Lamprakis, Maria Kontou, Panagiotis Zoumpoulakis, Spyridon E. Zographos, Demetres D. Leonidas, Dimitri Komiotis. *Chem Biol Drug Des*, 2012, 79, 663–673.
29. C-Glucosylated malonitrile as a key intermediate towards carbohydrate-based glycogen phosphorylase inhibitors. Sophie Feuillastre, Aikaterini S. Chajistamatiou, Constantinos Potamitis, Maria Zervou, Panagiotis Zoumpoulakis, Evangelia D. Chrysina, Jean-Pierre Praly, Sebastien Vidal, *Bioorg. Med. Chem.* DOI information: 10.1016/j.bmc.2012.07.033.
30. The binding of C5-alkynyl and alkylfurano[2,3-d]pyrimidine glucopyranonucleosides to glycogen phosphorylase b: Synthesis, biochemical and biological assessment. A.L. Kantsadi, S. Manta, A.-M.G. Psarra, A. Dimopoulou, C. Kiritsis, V. Parmenopoulou, V.T. Skamnaki, P. Zoumpoulakis, S.E. Zographos, D.D. Leonidas, D. Komiotis, *EJMECH*, DOI: 10.1016/j.ejmech.2012.06.029.
31. Comparative study of the AT(1) receptor prodrug antagonist candesartan cilexetil with other sartans on the interactions with membrane bilayers. Charalambos Fotakis, Grigorios Megariotis, Dionyssios Christodouleas, Eftichia Kritsi, Panagiotis Zoumpoulakis, Dimitrios

Ntountaniotis, Maria Zervou, Constantinos Potamitis, Aden Hodzic, Georg Pabst, Michael Rappolt, Gregor Mali, Johanna Baldus, Clemens Glaubitz, Manthos Papadopoulos, Antreas Afantitis, Giorgia Melagraki, Thomas Mavromoustakos, *Biochim. Biophys. Acta*, DOI:10.1016/j.bbamem.2012.08.009

32. Triazole pyrimidine nucleosides as inhibitors of Ribonuclease A. Synthesis, biochemical, and structural evaluation. Parmenopoulou V, Chatzileontiadou DS, Manta S, Bougiatioti S, Maragozidis P, Gkaragkouni DN, Kaffesaki E, Kantsadi AL, Skamnaki VT, Zographos SE, Zounpoulakis P, Balatsos NA, Komiotis D, Leonidas DD, *Bioorg. Med. Chem.* 20, 24, (2012) 7184–7193.

33. NMR metabolite profiling of Greek grape marc spirits Food Chemistry. Charalambos Fotakis, Dionysis Christodouleas, Katerina Kokkotou, Maria Zervou, Panagiotis Zoumpoulakis, Panagiotis Moulos, Maria Liouni, Antony Calokerinos. *Food Chemistry*. (2013) 138 (2-3), 1837-1846,. (IF: 3.655, 0 times cited)

34. Antioxidant Capacity of Selected Plant Extracts and Their Essential Oils. Charalampos Proestos, Konstantina Lytoudi, Olga-Konstantina Mavromelanidou, Panagiotis Zoumpoulakis, Vassileia J. Sinanoglou, *Antioxidants*, (2013), doi:10.3390/antiox2010011.

35. On the combined application of Iatroscan-TLC-FID and GC-FID to identify total, neutral and polar lipids and their fatty acids extracted from foods Vassilia J. Sinanoglou, Irini F. Strati, Sotirios M. Bratakos, Charalampos Proestos, Panagiotis Zoumpoulakis, and Sofia Miniadis-Meimaroglou, *ISRN Chromatography*, (2013), <http://dx.doi.org/10.1155/2013/859024>.

36. Molecular insights into the AT1 antagonism based on biophysical and in silico studies of telmisartan Eftichia Kritsi, Constantinos Potamitis, Serdar Durdagi, Panagiotis Zoumpoulakis*, Simona Golic Grdadolnik, Thomas Mavromoustakos, *Med. Chem. Res.*, 22, 10, (2013), 4842-4857.

37. Determination of Plant Bioactive Compounds. Antioxidant Capacity and Antimicrobial Screening, Charalampos Proestos, Panagiotis Zoumpoulakis, Vassileia J. Sinanoglou, *FMFI*, 2013, 2, 1, 26-35.

38. An E/Z conformational behaviour study on the trypanocidal action of lipophilic spiro carbocyclic 2,6-diketopiperazine-1-acetohydroxamic acids. Alexandra Tsatsaroni, Grigoris Zoidis, Panagiotis Zoumpoulakis, Andrew Tsoinisin, Martin C. Taylor, John M. Kelly, George Fytas, *Tetrahedron Letters*, 54 (2013) 3238–3240.

39. Insights into AT1 Receptor Activation through AngII Binding Studies. Minos-Timotheos Matsoukas, Constantinos Potamitis, Panayiotis Plotas, Maria-Eleni Androutsou, George Agelis, John Matsoukas, and Panagiotis Zoumpoulakis*, *J. Chem. Inf. Model.*, (2013), DOI: 10.1021/ci4003014.

40. Lipid and fatty acid profile of the edible fungus *Laetiporus sulphureus*. Antifungal and antibacterial properties, Vassilia J. Sinanoglou, Panagiotis Zoumpoulakis, George Heropoulos,

Charalampos Proestos, Ana Ćirić, Jovana Petrovic, Jasmina Glamoclija and Marina Sokovic, *Journal of Food Science and Technology*, Accepted for publication November 2013.

41. Monitoring the Quality of γ -irradiated Macadamia Nuts Based on Lipid Profile Analysis and Chemometrics. Traceability Models of Irradiated Samples. Vassilia J. Sinanoglou, Katerina Kokkotou, Charalambos Fotakis, Irini Strati, Charalampos Proestos and Panagiotis Zoumpoulakis*, *Food Res. Int.* 60 (2014) 38–47.

42. Different extraction methodologies and their influence on the biological properties of *Laetiporus sulphureus* (Bull.) Murill extracts: an edible wild growing mushroom, Jovana Petrović, Magdalini Papandreou, Jasmina Glamoclija, Ana Ćirić, Constantinos Baskakis, Charalampos Proestos, Fotini Lamari, Panagiotis Zoumpoulakis, Marina Soković, *Food & Function*, (2014); DOI: 10.1039/C4FO00727A

43. Antiradical-antimicrobial activity and phenolic profile of pomegranate (*Punica granatum* L.) juices from different cultivars: A comparative study, Dimitra Lantzouraki, Vassilia J Sinanoglou, Panagiotis Zoumpoulakis, Jasmina Glamoclija, Ana Ćirić, Marina Sokovic, George Heropoulos and Charalampos Proestos, *RSC Advances*, (2014), DOI: 10.1039/C4RA11795F

44. Comparison of Extraction Methods for the Determination of Antioxidant Activity in Extracts of *Hippophae Rhamnoides* L. and *Lippia Citriodora*. The Effect of Seasonal Collection, Roidaki A, Zoumpoulakis PG and Proestos C, *Austin J Nutri Food Sci.* 3(1), (2015) 1057.

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