

Curriculum Vitae

1. PERSONAL DATA

NAME	Panagiotis Zoumpoulakis
DATE OF BIRTH	19/8/1974
PLACE OF BIRTH	Athens - Greece
MILITARY SERVICE	Fulfilled (Infantry reserve officer)
ADDRESS	National Hellenic Research Foundation Institute for Biology, Pharmaceutical Chemistry & Biotechnology / Department for Organic & Pharmaceutical Chemistry (IOPC) 48 Vassileos Constantinou Ave, Athens, Greece
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2. PROFESSIONAL EXPERIENCE

1/1/2008 – to date

Researcher at the Institute of Biology, Medicinal Chemistry and Biotechnology / Department for Organic & Pharmaceutical Chemistry (IOPC) (former Institute of Organic and Pharmaceutical Chemistry), *National Hellenic Research Foundation*

31/10/2006-to date

Research Associate at the Department of Food Technology, *Technological Educational Institute of Athens*

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 at the Institute of Organic and Pharmaceutical Chemistry, *National Hellenic Research Foundation*

3. EDUCATION:

- 2007** Masters of Business Administration (Executive MBA), Athens University of Economics and Business.
- 2004** PhD in Chemistry, Department of Chemistry – University of Patras, Greece
- 1999** Diploma in Chemistry, Department of Chemistry – University of Patras, Greece

4. TEACHING EXPERIENCE

1. Academic years 2006-2012.
Lecturer Associate at the Laboratory of Analytical Chemistry, Department of Food Technology, Technological Educational Institute of Athens.
2. “2^o Workshop on Drug Design” (2008), National Hellenic Research Foundation. Training of graduate and undergraduate students on rational drug design through Molecular Modeling, NMR and X-ray techniques.
3. Academic years 2005-2006 and 2006-2007:
Graduate students training on «Molecular Design», for the MSc “Medicinal Chemistry: Design and synthesis of novel drugs” Departments of Chemistry and Pharmacy, University of Patras.
4. “Workshop in Drug Design” (2007), National Hellenic Research Foundation. Training of graduate and undergraduate students on rational drug design through Molecular Modeling, NMR and X-ray techniques.
5. 1.9.2003 – 31.8.2004 Training of graduate students on “Spectroscopic and Physicochemical Techniques”, Department of Chemistry, University of Ioannina, Greece.

5. SCHOLARSHIPS :

- May 2009* *COST STSM grant «In silico approaches for the design of novel TryS inhibitors with potential antileishmanial activity, Siena, Italy.*
- October 05* *Scholarship from the State Scholarships Foundation of Greece for Post Doctoral research.*

August 05

ESF/EMBO scholarship for the attendance of the international conference «Biomolecular NMR » in Sweden.

02/98-07/98

Erasmus/Socrates Scholarship, University of Greenwich, London, UK.

6. FOREIGN LANGUAGES:

- **English**, Proficient User (Understanding, Reading, Listening, Writing:C2)
- **Italian**, Independent User (Understanding, Reading, Listening, Writing:B2)

7. MEMBERSHIPS

- Greek Chemists Association
- Association of Greek Reserve Officers
- Alumni «Executive MBA” - Athens University of Economics and Business.

8. EVALUATOR OF COMPETITIVE PROPOSALS FOR

1. The Research Promotion Foundation (RPF) of Cyprus
2. The French Research Agency (ANR, the major Grant agency for French research)

9. REVIEWER FOR

1. European Journal of Medicinal Chemistry (EJMECH)
2. African Journal of Agricultural Research (AJAR)
3. Journal of Food Science and Engineering (JFSE)

10. PARTICIPATION IN NATIONAL RESEARCH PROJECTS

Running projects

1. «*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).
2. «*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).
3. «*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).
4. «*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).

Completed projects

5. **“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
6. **‘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.
7. **“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**

11. PARTICIPATION IN EU FUNDED RESEARCH PROJECTS

Running projects

1. *«Advancement of Research Capability for the Development of New Functional Compounds», FP7 – REGPOT, 2009-2012.(Participating Researcher & Member of the Management Board).*
2. *“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.

Completed projects

3. *«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).
4. *«Novel approach for the treatment of psoriasis»*, Institute for Research Promotion, Cyprus, (1.12.05 - 30.11.2006, Researcher).
5. **“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.

6. Bilateral Cooperation between Greece – Slovenia: “**Conformational Analysis and Drug Membrane Interactions of Bioactive Compounds**”, [EIIAN-M.4.3](#) (2013555) and [EIIAN-2000ΣE01330005](#), GSRT, Greece. Researcher.
7. **Effects of losartan on POPC and DMPC multibilayers in the Fluid Phase**. SAX BEAMLINe, Synchrotron ELETTRA, ([Proposals 2005028, 2005569](#)) Trieste, Italy, August 2005, February 2006. Researcher.
8. **The structural properties of the collageneous membranes containing the antibiotic gentamycin**. SAX BEAMLINe, Synchrotron ELETTRA, ([Proposal 2006216](#)) Trieste, Italy, August 2006. Researcher.

12. PUBLICATIONS

12.1 Publications in Peer Reviewed Scientific Journals

1. **Synthesis and Study of Cyclic Angiotensin II Antagonist Analogue reveals the role of $\pi^*-\pi^*$ interactions in the C-Terminal Aromatic Residue for agonist activity and its structure resemblance with AT₁ non-peptide antagonists**. Ludmila Plevaya, Thomas Mavromoustakos, **Panagiotis Zoumpoulakis**, 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. **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, Zissis 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

12.2. Book Chapters – Review Articles

1. **Design, Synthesis and Biological Evaluation of Cyclic Angiotensin II Analogues with 3,5 Side-Chain Bridges: Role of C-Terminal Aromatic Residue and Positions 3,5 for Activity**. L. Polevaya, P. Roumelioti,

- T. Mavromoustakos, **P. Zoumpoulakis**, N. Giatas, I. Mutule, T. Keivish, A. Zoga, D. Vlahakos, E. Iliodromitis, D. Kremastinos, J. Matsoukas. *Drug Discovery and Design: Medical Aspects, IOS Press 2002 pp. 3-12.*
2. **Design, Synthesis and Conformational Properties of Linear Analogues of Human Myelin Basic Protein Epitope MBP₁₋₁₁.** S. Deraos, T. Tselios, I. Daliani, **P. Zoumpoulakis**, L. Probert, A. Troganis, P. Papathanassopoulos, T. Mavromoustakos and J. Matsoukas. *Drug Discovery and Design: Medical Aspects, IOS Press 2002 pp. 116-121.*
 3. **Structure Elucidation and Conformational Properties of Irbesartan.** **Panagiotis Zoumpoulakis**, Maria Zervou, Simona Golic Grdadolnik, Thomas Mavromoustakos. *Drug Discovery and Design: Medical Aspects, IOS Press 2002 pp. 174-179.*
 4. **Design and Discovery of Novel Antihypertensive Drugs through Conformation and Bioactivity Studies.** Thomas M. Mavromoustakos, Maria V. Zervou and **Panagiotis G. Zoumpoulakis**. *Frontiers in Medicinal Chemistry*, 3, (2006), 87-111.
 5. **Putative Bioactive Conformers of Small Molecules: A Concerted Approach Using NMR Spectroscopy and Computational Chemistry.** T. Mavromoustakos, S. Golic Grdadolnik, M. Zervou, **P. Zoumpoulakis**, C. Potamitis, A. Politi, E. Mantzourani, J. A. Platts, C. Koukoulitsa, P. Minakakis, G. Kokotos, T. Tselios, J. Matsoukas, S. Durdagi, M. G. Papadopoulos, D. P. Papahatjis, Z. S. Spyrinti, G. A. Dalkas and G. A. Spyroulias. *In: Medicinal Chemistry Research Progress, Ed. Giulia P. Colombo and Sofia Ricci, 2008 Nova Science Publishers, Inc., ISBN 978-1-60456-580-5*
 6. **Screening for Bioactive Compounds of Plant Origin using NMR-based and *in silico* approaches,** M. Zervou, C. Koukoulitsa, **P. Zoumpoulakis**, In *Plants in Traditional and Modern Medicine: Chemistry and activity*, Kokalou E. (Ed.), 2010: 235-266, Research Signpost; Keral, India, ISBN: 978-81-7895-432-5

12.3 Proceedings (Peer Reviewed Articles)

1. **Design and Synthesis of an Amide-Linked Angiotensin II Analogues with 3.5 Side Chain Bridges: Structural Resemblance of Ring Cluster Conformation with AT1 Non-Peptide Antagonists.** Panagiota Roumelioti, Nektarios Giatas, Anastasia Zoga, Ludmila Plevaya, Thomas Mavromoustakos, **Panagiotis Zoumpoulakis**, Demetrios Vlahakos, Efstathios Iliodromitis and John Matsoukas. *Peptides: The Wave of the Future. Michal Lebl and Richard A. Houghten (Editors), American Peptide Society, 656-657, 2001.*
2. **Conformation and Bioactivity. Design and Discovery of Novel Antihypertensive Drugs.** T. Mavromoustakos, M. Zervou, **P. Zoumpoulakis**, I. Kyrikou, P. Roumelioti, N. Giatas, A. Zoga, P.M. Minakakis, C. Kamoutsis, D. Dimitriou, A. Pitsas, J. Matsoukas, *Review of Clinical Pharmacology and Pharmacokinetics*, 17(2) 82 2003.
3. **The Use of NMR and Molecular Modeling to study the Molecular Basis of Hypertension.** T. Mavromoustakos, P. Minakakis, G. Kokotos, M. Zervou, I. Kyrikou, A. Kapu, A. Zoga, **P. Zoumpoulakis**, S. Gega, I. Chailkefs, C. Potamitis, E. Siapi, A. Pitsas, D. Demetriou, E. Iliodromitis. *Progrese in stiinta compusilor or organici si macromoleculari*, 25-27 September, 2003, Iasi, Romania.
4. **The Use of Computational Analysis to Design Novel Drugs.** T. Mavromoustakos, **P. Zoumpoulakis**, M. Zervou, I. Kyrikou, A. Kapou, N. Benetis. *Proceedings of the ICCMSE 2003 by World Scientific, editor: T.E. Simos.*

5. **Design, conformation and bioactivity of novel angiotensin II receptor antagonists.** Mavromoustakos, T., **P. Zoumpoulakis**, Roumelioti, P., Giatas, N., Vlahakos, D., Iliodromytis, E., Matsoukas, *J. Biopolymers* 71(3), 266 (2003).
6. **Biological Essays of non-Peptide Angiotensin II AT1-Receptor Antagonists** A Zoga, N. Giatas, P. Roumelioti, M-E. Androutsou, **P. Zoumpoulakis**, T. Mavromoustakos, D. Vlahakos, E. Iliodromitis, J. Matsoukas. *Review of Clinical Pharmacology and Pharmacokinetics*. 17(2) 110 2003
7. **Design, Synthesis and Conformational Properties of Linear Analogues of Human Myelin Basic Protein Epitope MBP1-11.**, S. Deraos, T. Tselios, I. Daliani, **P. Zoumpoulakis**, L. Probert, A. Troganis, T. Mavromoustakos, J. Matsoukas. *Review of Clinical Pharmacology and Pharmacokinetics*, 17(2), 2003, p.98.
8. **Synthesis of Imidazole-based Non-peptide Angiotensin II Receptor Antagonists As Potent Antihypertensives** N. Giatas, M-E. Androutsou, A. Zoga, P. Roumelioti, **P. Zoumpoulakis**, T. Mavromoustakos, D. Vlahakos, E. Iliodromitis, J. Matsoukas. *Review of Clinical Pharmacology and Pharmacokinetics*, 17(2), 2003, p.98.
9. **Conformational and Biophysical Studies of AT1 Non-Peptide Antagonists.** **P. Zoumpoulakis**, A. Zoga, E. Zervou, N. Giatas, P. Roumelioti, J. Matsoukas, T. Mavromoustakos. *Review of Clinical Pharmacology and Pharmacokinetics*. 17(2), 2003, p.103.
10. **AT₁ Antagonists: Diffusion in the Membrane Bilayers and Docking on the AT₁ Receptor.** **P. Zoumpoulakis**, *Review of Clinical Pharmacology and Pharmacokinetics*. 17(2), 2003, p.118-119.
11. **Conformation and Bioactivity.** T. Mavromoustakos, **P. Zoumpoulakis**, M. Zervou, N. Zoga, N. Giatas, P. Roumelioti and J. Matsoukas, *Review of Clinical Pharmacology and Pharmacokinetics*, 17 (2), 2003,2, p.70. (3^ο βραβείο αναρτημένης ανακοίνωσης)
12. **Conformational Analysis Using 2D NMR Spectroscopy Coupled with Computational Analysis of Valsartan and its Drug:Membrane Interactions.**K. Potamitis, M. Zervou, I. Kyriku, E. Siapi, **P. Zoumpoulakis**, C. Fotakis, D. Christodouleas, K. Viras, A. Kolocouris, S.G. Grdadolnik, T. Mavromoustakos. *J. Peptide Sci.* 2004 (10 Sup)H55.
13. **The Contribution of Docking in the Rational Drug-Design.** T. Mavromoustakos, **P. Zoumpoulakis**, A. Politi, P. Minakakis, and G. Kokotos, *Review of Clinical Pharmacology and Pharmacokinetics*. 20, 2006, p.391-392.
14. **NMR Spectroscopy: A Valuable Tool in the Weaponry of Medicinal Chemistry.** T. Mavromoustakos, M. Zervou, **P. Zoumpoulakis**, *Review of Clinical Pharmacology and Pharmacokinetics*. 17(2), 2007, p.114-115.
15. **Synthesis of Sulfonamide-1,2,4-Triazole-[3,4,b] [1,3,4]-Thiadiazoles and Sulfonamide-1,2,4-Triazole-[3,4,b] [1,3,4]-Thiadiazines as Possible Antibacterial and Antifungal Agents,** Ch. Camoutsis, V. Tsinias, D. Natsiou, A. Stroumpi, E. Topouzidou and **P. Zoumpoulakis**, *Review of Clinical Pharmacology and Pharmacokinetics*, 23 (1), 2009,2, p.32.
16. **Hypertension Study in Anaesthetized Rabbits: A New Protocol for AT1 Antagonists Screening,** A. Politi, M. Zervou, P. Zoumpoulakis, A. Zoga, P. Moutevelis-Minakakis, G. Kokotos, T. Mavromoustakos, E.K. Iliodromitis, D. Th. Kremastinos, *Review of Clinical Pharmacology and Pharmacokinetics*, 23 (1), 2009,2, p.40.
17. **Synthesis, Evaluation and Conformational Solution Studies of Cysteine-based $\alpha_1\beta_1$ Integrin Ligands,** G.K. Daletos, M. Lamprou, P. Zoumpoulakis, M. Zervou, N.L. Assimomytis, A. Geronikaki, E. Papadimitriou, V. Magafa, P. Cordopatis, Proceedings of the 31st European Peptide Symposium, Michal Lebl, Morten Meidal, Knud. J. Jensen, Thomas Hoeg-Jensen (Editors), European Peptide Society, (2010), pp.444-445.

12.4 Books, Contribution in book chapters, Other educational material:

1. «**Molecular Modeling and Prediction of Molecular Properties**», T. Mavromoustakos, P. Zoumpoulakis, Parisianos Publishing Group, Athens 2007.
2. **Molecular Design**, T. Tselios, P. Zoumpoulakis, Notes for the corresponding course of the MSc program “Medicinal Chemistry: Design and Discovery of Novel Drugs”, University of Patras, 2006
3. **Use of NMR spectroscopy, X-ray diffraction and Molecular Modeling for the conformational study of Angiotensin II antagonists and their interaction with biological membranes and AT1 receptor**. PhD thesis, University of Patras, Patras 2004
4. **NMR Use of Nuclear Magnetic Resonance for the Study of Pharmaceutical Compounds, Zeolites, Polymers, Archeological findings**. T. Mavromoustakos. National Hellenic Research Foundation. Athens 2000 –only in Greek- *Contribution in the chapters: 2nd* : Nuclear Magnetic Resonance, A valuable Tool in Pharmaceutical Chemistry. Pages. 37-77, *3rd* : Use of Nuclear Magnetic Resonance for the study of Zeolites. Pages. 78-106
5. **Angiotensin II antagonists – Synthesis of biphenyl derivatives-**. University of Patras, Patras 1999.

13. ABSTRACTS IN CONFERENCES

1. **Interactions of AT1 Antagonist Losartan with phospholipid bilayers using MAS 13C /NMR**. I. Daliani, M. Zervou, P. Zoumpoulakis, A. Kolocouris, S. Golic Grdadolnik, T. Mavromoustakos. 2nd Hellenic forum on Bioactive Peptides 2nd Hellenic Forum on Bioactive Peptides, Patras Greece. 14 – 15, 2000 pp. 455-460.
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