

ZERVOU Maria, Ph.D, M.Sc

Researcher B'

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<http://www.eie.gr/nhrf/institutes/iopc/researchgroups/lma-group/lma-group-gr.html>

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h-index: 21, **Total citations:** Scopus: 1100, WOS: 1038 (969 w/o self)

Education

2002: Ph.D. Chemistry, University of Patras

1992: M.Sc. Electronics and Radioelectronics, Physics Department, University of Athens

1989: B.Sc. Physics, University of Athens

Appointments

2013-present: Senior Researcher, Molecular Analysis research group, IBMCB, NHRF

2006-2013: Researcher C', Division of Organic & Pharmaceutical Chemistry, IBMCB, NHRF

2003-2006: Special Functional Scientist C', Institute of Organic & Pharmaceutical Chemistry, NHRF

1992-2003: Special Technical Scientist at the IOPC/NHRF

Current Research Interests

My research activities span the fields of Chemical Biology and drug discovery and of metabolic profiling in natural products (NPs).

Within the research area of Chemical Biology current activities involve *in silico* approaches (virtual screening, molecular docking, molecular dynamics) and bio-NMR (as a screening assay i.e. STD-NMR/15N HSQC and 3D experiments for structure analysis of large biomolecules) towards hit identification and optimization. Major topics I have been involved include:

- innovative neuroprotective and neurogenerative synthetic micro-neurotrophins modulators of TrkA and p75^{NTR} activity targeting AD
- novel, selective inhibitors of the mutated BRAF^{V600E} protein implicated in cancer
- novel nonsteroidal selective glucocorticoid receptor agonists as anti-inflammatory agents
- new inhibitors of the aspartic proteases involved in diseases such as hypertension and AIDS
- new eco-friendly repellents from natural sources against *Anopheles gambiae* mosquito odorant binding proteins targeting malaria transmission

Within the research area of NPs my expertise refers to NMR- and LC-MS based metabolomics combined with multivariate statistics towards:

- authenticity markers of high added value natural products (i.e. grape derived products)
- development of an integrated platform for the high throughput fingerprinting of red *Laurencia* algal extracts for the detection of new natural products and as a screening assay for the identification of extracts containing specific bioactive metabolites

- metabolomics studies applied to intracellular matrices upon treatment with natural or synthetic antioxidants as an assay to monitor cell defense responses.

Moreover, I have been involved in a number of studies towards structure elucidation of novel bioactive metabolites isolated from terrestrial or marine sources

Foreign languages. Fluent in English and French. Limited knowledge of Italian

Currently funded programs

H2020-MSCA-ITN-2017- EuroNeurotrophin: A European training network for the discovery of neurotrophins small molecule mimetics as potential therapeutic agents for neurodegeneration and neuroinflammation (2018-2021).

Coordinator(NHRF) , *Role:* Member of the Research team

H2020-INFRADEV-2016-1. "INSTRUCT-Ultra: Releasing the full potential of Instruct to expand and consolidate infrastructure services for integrated structural life science research". (2017-2020)

Role: Participant/Principal Investigator

DINNESMIN- RESEARCH-CREATE-INNOVATE, EPAnEK-NSRF 2014-2020. "Pre-clinical development of innovative Neuroprotective & Neuroregenerative synthetic micro-neurotrophins for the treatment of Alzheimer disease". (2018-2021)

Role: Participant/Principal Investigator

KPIPIS II– Sthenos-β. Institutional Program. NSRF 2014-2020. "Targeted therapeutic approaches against degenerative diseases-conditions with emphasis in cancer and aging. Hit-to-lead optimization ". (2017-2019)

Role: Participant/Principal Investigator

INSPIRED: A National Research Infrastructure on Integrated Structural Biology, Drug Screening efforts and Drug-target functional characterization. (2018-2020).

Coordinator(NHRF). *Role:* Responsible for the NMR infrastructure of NHRF as accessible hub for research. NMR expert, co-leader of the WP: "Structural characterization of pharmaceutically relevant targets through biomolecular NMR spectroscopy".

Completed research programs

National research programs

- **KRIPIS- Sthenos** Institutional Program. (2013-2016) "Targeted therapeutic approaches against degenerative diseases-conditions with emphasis in cancer and aging ".
Role: Participant/Principal Investigator
- OPERATIONAL PROGRAMME COMPETITIVENESS."Design and Synthesis of bioactive compounds" (2006-2009)
- 02 PRAXE 173 (2003-2005). Production of novel antihypertensive Molecules.
- 2 Bilateral Scientific and Technological Collaboration between Greece-Slovenia EPAN M.4.3.6.1 "Conformations of pharmaceutical molecules and study of their interactions with membranes". (2003-2005), (1999-2001)

Research programs funded from the Cypriot Research Promotion Foundation

- **WINEOMICS**, "Metabolic, isotopic, Antioxidant and elemental profiling to characterize Cypriot wines of

specific geographical and varietal origin". Framework Programme for Research, Technological Development and Innovation of the Cypriot Research Promotion Foundation. (2011-2013)

Role: Scientific responsible NHRF

- Scientific and technological Collaboration with University of Cyprus for the standardization protocol of traditional Cypriot beverage Zivania. (2003-2005).

EU Programs

- **EU-FP7-REGPOT-2009-1.** "Advancement of Research Capability for the Development of New Functional Compounds". (2010-2013)
Role: Participant/Principal Investigator
- **EU-FP5 GROWTH.** "Development and Assessment of Methods for the Detection of Adulteration of Olive Oil with Hazelnut oil". (2001-2004)
Role: Member of the Research team
- **EU SMT** – Standards, Measurement and Testing Programme. "Development of new software for Certified Reference Materials through the wine and ethanols CRMs" (1999-2001).
Role: Member of the Research team
- **EU-FP5 AIR2** - Agro-Industrial Research. "A new integrated approach to the authentication of olive oil to improve its competitiveness on the world market". (1995-1998).

EU Joint Research Centre

- **EU JRC / IRMM** (Institute for Reference Materials and Measurements. "Upgrade and improvement of *SoftCRM*, the s/w for the Certification of Reference Materials" (2004-2005)
Role: Scientific responsible NHRF

EU Networks

- **EU network VIRM** (G7RT-CT-2002-05104). The European Virtual Institute for Reference Materials. (2002-2006). NHRF: NCP
- **EU network FIT** -Food analyses using Isotopic Techniques- Standards, Measurements and Testing Programme (1996-1999).

Invited speaker

1. **Workshop "Dilemmas in structural biology: selection & integration of methods", February 14-17 2016, NHRF, Athens, Greece.** Novel synthetic neurosteroidal agonists of Nerve Growth Factor (NGF) receptors: biomolecular NMR studies and *in silico* considerations
2. **Pharmacology 2015, 15-17 December Queen Elizabeth II Conference Centre, London** Biophysical methods to study drug membrane interactions - Insights into the molecular basis of action of the AT1 antagonist losartan.
3. **SEE-DRUG Conference, NMR applications in Life Sciences. Exploring peptides & proteins Conference & Cultural Center, University of Patras, 18–20 June, 2015.** Novel Synthetic Neurosteroidal Agonists of Nerve Growth Factor (NGF) receptors: Biomolecular NMR studies and *in silico* considerations.
4. **The 32nd Cyprus - Noordwijkerhout - Camerino Symposium in Drug Research, Limassol, Cyprus May 18-22, 2014.** Insights into the molecular basis of action of the AT1 antagonist losartan using a combined NMR spectroscopy and computational approach.
5. **2nd SEE-DRUG Workshop: NMR basics & applications in Life Sciences, FP7-REGPOT-2011-1, Conference & Cultural Center, University of Patras 13–15 May, 2013.** NMR approaches probing molecular

interactions of ligands at the Odorant Binding Protein 1 of malaria-transmitting mosquito *Anopheles gambiae*.

6. **BuTrAFoS (Building Trust through Authentic Food and safety), Limassol Cyprus, 28-31 Oct, 2012.** NMR-omics towards the authenticity of grape derived products.
7. **EastNMR Satellite meeting, 18th EuroQSAR, Rhodes Greece, September 19-24, 2010.** Metabolic monitoring of Greek white wines using HR NMR spectroscopy and multivariate statistical analysis.

Workshops / meetings / summerschools organization

- *Computer-Assisted Drug Design, Synthesis and Isolation from Natural Sources of Small Molecule Neurotrophin Mimetics.* Summer School : main training event for the 14 ESRs within H2020-MSCA-ITN-2017- EuroNeurotrophin, 5-6/12/2018, NHRF
- *Targeted drug discovery* Workshop, IBMCB/NHRF, 10-14 October 2016
- Drug Discovery Symposium on *Targeted therapeutic approaches against cancer and ageing*, IBMCB/ NHRF, 7 December 2015
- 8th International Symposium on *Computational Methods in Toxicology and Pharmacology Integrating Internet Resources*, Chios, Greece, 21-25/6/2015.
- *Instruct-EL Strategic pipeline planning: from sample preparation to 3D structure determination with bio SAXS & other biophysical techniques*", NHRF, Athens, 5–10/4 /2014
- 3rd REGPOT-ARCADE Workshop *Advanced Mass Spectrometric and NMR Methods*, NHRF, 28-30 May 2012
- 2nd REGPOT-ARCADE Workshop *Structure – & Computer – Aided Design Workshop: Bioactive Molecules & Materials*, NHRF, 7-11 November 2011
- Workshop on *Structure Based Drug Discovery*. IOPC / NHRF (June 2008)
- 2nd working meeting of the EU GROWTH FP5 project *Development and Assessment of Methods for the Detection of Adulteration of Olive Oil with Hazelnut oil*. (October, 2001)
- "Food analyses using Isotopic Techniques". Workshop within the frame of EU Network -FIT (Food Isotopic Techniques), NHRF (November 1996).

Teaching and Training experience

- **2015 to date:** Lecturer in the Inter-institutional M.Sc. BIOENTREPRENEURSHIP Programme co-organized by the University of Thessaly and NHRF. Responsible for the Syllabus in the course "Health and Pharmaceuticals"
- **2016 to date:** Lecturer in the BIOINFORMATICS M.Sc. Programme organized by the Faculty of Biology, National and Kapodistrian University of Athens.
- Lecturer and Member of the Coordination committee of the Inter-institutional M.Sc. program "Oncology: from oncogenesis to therapy" co-organized by the University of Crete, Medical School, and NHRF. The Post-graduate Program is starting in the first quarter of 2019.
- **2010-to date:** Supervisor of the 2 Postdoctoral Researchers, 2 PhD theses, 10 M.Sc theses

Postdoctoral fellows:

2010-2013: Dr C. Potamitis, FP7 REGPOT ARCADE

2013-2016: Dr C. Potamitis, KPIPIS – Sthenos

2018-2019: Dr E. Kritsi, KPIPIS II– Sthenos β

2019-to date: Dr E. Kritsi, DINNESMIN

PhD theses:

1. A. Kokkotou, "Metabolomics Study of Rhodophytes of Laurencia species with the use of high-throughput holistic techniques such as HR-NMR and HR-LC-MS". Dept. of Pharmacy, University of Athens. Co-supervised with Prof. V. Roussis. (in progress)
2. Ch. Fotakis, "Application of physicochemical and analytical methodologies to study the metabolic profiling of traditional alcoholic beverages". Dept. of Chemistry, University of Athens (awarded 2013).

M.Sc. theses:

1. M. Georgoulaki, "Novel food bioactive ingredients, applications in food technology and commercialization analysis". BIOENTREPRENEURSHIP Post-graduate Programme, Univ. of Thessaly / NHRF (in progress)
2. V. Papanikolaou, "Digital Marketing in clinical trials (reducing the time and cost for a pharmaceutical company)". BIOENTREPRENEURSHIP Post-graduate Programme, Univ. of Thessaly / NHRF (in progress)
3. S. Dounia, "Selective inhibitors of the BRAFV600E oncoprotein through similarity search, *in silico* docking and *in vitro* assays". Faculty of Biology, University of Athens (in progress)
4. N. Papadopoulos, "Virgin olive oil for margarine production: Feasibility study for the olive oil production and marketing company El Renieris & Co S.A." BIOENTREPRENEURSHIP Post-graduate Programme, Univ. of Thessaly / NHRF (awarded 2018)
5. K. Xanthopoulos, "Molecular modelling approaches towards the optimization of novel synthetic neurosteroids with agonistic activity at neurotrophin receptors". Faculty of Biology, University of Athens. (awarded 2018)
6. N. Travlos, "Virtual screening for the identification of novel nonsteroidal selective glucocorticoid receptor agonists". Faculty of Biology, University of Athens (awarded 2018)
7. M. Evgeniou, "In silico studies towards new selective inhibitors of the oncoprotein BRAFV600E". Faculty of Biology, University of Athens (awarded 2018)
8. F. Lafazanidi, "Virtual screening for the identification of new selective inhibitors of the oncoprotein BRAFV600E". Faculty of Biology, University of Athens (awarded 2018)
9. P. Christodoulou, "Antioxidant effects of novel synthetic compounds and wine extracts treated in a cell culture as probed by comet assay and NMR-based metabolomics" Co-supervised with Dr. P. Georgiadis, NHRF. Dept. of Chemistry, University of Athens (awarded 2016).
- 10. A. Kokkotou, "Metabolic profile monitoring of Greek wines using HR NMR spectroscopy and multivariate statistical analysis". Dept. of Chemistry, University of Athens (awarded 2010).

Diploma thesis:

1. E. Routsis. "Sequence specific assignment of alpha and beta protons of Anopheles Gambiae mosquito odorant binding protein OBP1 by applying 3D NMR spectroscopy. NMR metabolomic fingerprinting of CaCO₂ cell extracts". Dept. of Chemistry, University of Athens (2016)
- Participation in the 3-member supervisory committee and the 7-member evaluation committees of 5 PhD candidates

Reviewer to

1. *Scientific journals* as Scientific Reports, Phytochemical Analysis, Phytochemistry Letters, Food Research International, Marine Drugs, The Open Natural Products Journal, Food Chemistry, Journal of Molecular Liquids, Analytical Methods, Journal of Chemical Information and Modeling.

2. *EU Research proposals*: ERC Starting Grant

3. *Research proposals* submitted to calls for funding from the Greek General Secretariat of Research and Technology and from the Cypriot Research promotion Foundation.

Committee membership

- Member of the Hellenic Crystallographic Association
- Member of the Instruct –EL community

Literature contribution

PhD thesis (2002) "Conformational studies of bioactive peptidomimetic compounds by NMR spectroscopy". University of Patras, Department of Chemistry, Division of Organic Chemistry, Biochemistry and Natural Products.

National Patent "New analytical methodology for the detection of Virgin olive Oil adulteration using ¹³C NMR spectroscopy". (OBI, Num 1002879). T. Mavromoustakos, G. Bonas, M. Zervou, E. Theodoropoulou.

S/w development: Development of new software for Certified Reference Materials through the wine and ethanols CRMs". <http://www.eie.gr/iopc/softcrm/index.html>

Synopsis: **62** publications in peer review journals, **6** book chapters in international editions, **52** Participations in International Conferences and **33** participations in National Conferences.

Publications in peer-review journals

1. C. Potamitis, D. Siakouli, K. D. Papavasileiou, A. Boulaka, V. Ganou, M. Roussaki, T. Calogeropoulou, P. Zoumpoulakis, M. N. Alexis, **M. Zervou***, D. J. Mitsiou. Discovery of New Non-steroidal Selective Glucocorticoid Receptor Agonists. *J Steroid Biochem Mol Biol*. 2018 Oct 12. pii: S0960-0760(18)30097-9. doi: 10.1016/j.jsbmb.2018.10.007
2. R. Kokkinofta, Ch. Fotakis, **M. Zervou**, P. Zoumpoulakis, C. Savvidou, K. Poulli, C. Louka, N. Economidou, E. Tzioni, K. Damianou, S. Loupasaki, P. Kefalas. Isotopic and Elemental Authenticity Markers: a Case Study on Cypriot Wines. *Food Anal. Methods* 2017, DOI 10.1007/s12161-017-0959-2
3. C. E. Drakou, K. E. Tsitsanou, C. Potamitis, D. Fessas, **M. Zervou**, S. E. Zographos. The crystal structure of the AgamOBP1•Icaridin complex reveals alternative binding modes and stereo-selective repellent recognition. *Cell. Mol. Life Sci*. 2017 74(2):319-338
4. I. Pediaditakis, A. Kourgiantaki, K. C. Prousis, C. Potamitis, K.P. Xanthopoulos, **M. Zervou**, T. Calogeropoulou, I. Charalampopoulos, A. Gravanis. BNN27, a 17-Spiroepoxy Steroid Derivative, Interacts With and Activates p75 Neurotrophin Receptor, Rescuing Cerebellar Granule Neurons from Apoptosis. *Frontiers in Pharmacology* 2016, <https://doi.org/10.3389/fphar.2016.00512>
5. I. Pediaditakis, P. Efstathopoulos, K. C. Prousis, **M. Zervou**, J. C. Arévalo, V. I. Alexaki, V. Nikolettou, E. Karagianni, C. Potamitis, N. Tavernarakis, T. Chavakis, A. N. Margioris, M. Venihaki, T. Calogeropoulou, I. Charalampopoulos, A. Gravanis. Selective and differential interactions of BNN27, a novel C17-spiroepoxy steroid derivative, with TrkA receptors, regulating neuronal survival and differentiation. *Neuropharmacology* 2016, 111, 266-282

6. D. Tzeli, P. Kozielowicz, **M. Zervou**, C. Potamitis, K. Kokkotou, B. Rak, A. Petrou, E. Tsolaki, A. Gavalas, A. Geronikaki, I. D. Petsalakis, P. G. Tsoungas. 2, 2'-Dihydroxybenzophenones and Derivatives. Efficient Synthesis and Structure Endoscopy by DFT and NMR. Credentials as Potent Antiinflammatory Agents. [ChemistrySelect 2016, 1, 2426 – 2438](#)
7. C. Fotakis, **M. Zervou***. NMR metabolic fingerprinting and chemometrics driven authentication of Greek grape marc spirits. [Food Chemistry 196 \(2016\) 760–768](#)
8. T. F. Kellici, D. Ntountaniotis, E. Kritsi, **M. Zervou**, P. Zoumpoulakis, C. Potamitis, S. Durdagi, R. Ekhteiri Salmas, G. Ergun, E. Gokdemir, M. Halabalaki, I. P. Gerathanassis, G. Liapakis, A. Tzakos¹, T. Mavromoustakos. Leveraging NMR and X-ray Data of the Free Ligands to Build Better Drugs Targeting GPCRs: The Case of AT1R. [Curr. Med. Chem., 2016, 23, 1, 36-59](#)
9. C. Gabriel, A. A. Vangelis, C. P. Raptopoulou, A. Terzis, V. Psycharis, **M. Zervou**, M. Bertmer, A. Salifoglou. Structural-spectrochemical correlations of variable dimensionality crystalline metal organic framework materials in hydrothermal reactivity patterns of binary-ternary systems of Pb(II) with (a)cyclic (poly)carboxylate and aromatic chelator ligands. [Cryst. Growth Des., 2015, 15 \(11\), 5310–5326](#)
10. M. Mondal, N. Radeva, H. Köster, A. Park, C. Potamitis, **M. Zervou**, G. Klebe, A. K. H. Hirsch Structure-Based Design of Inhibitors of the Aspartic Protease Endothiapepsin by Exploiting Dynamic Combinatorial Chemistry. [Angew. Chem. Int. Ed. 2014, 53, 3259–3263](#)
11. K. Kokkotou, E. Ioannou, M. Nomikou, F. Pitterl, A. Vonaparti, E. Siapi, **M. Zervou***, V. Roussis. An integrated approach using UHPLC–PDA–HRMS and 2D HSQC NMR for the metabolic profiling of the red alga *Laurencia*: Dereplication and tracing of natural products. [Phytochemistry 108 \(2014\) 208–219](#)
12. M. Kladi, D. Ntountaniotis, **M. Zervou**, C. Vagias, E. Ioannou, V. Roussis. Glandulaurencianols A–C, brominated diterpenes from the red alga, *Laurencia glandulifera* and the sea hare, *Aplysia punctate*. [Tetrahedron Letters 55 \(2014\), 2835-2837](#)
13. **M. Zervou***, Z. Cournia, C. Potamitis, G. Patargias, S. Durdagi, S. Golic Grdadolnik, T. Mavromoustakos. Insights into the Molecular Basis of Action of the AT1 Antagonist Losartan Using a Combined NMR Spectroscopy and Computational Approach. [BBA Biomembranes 1838 \(2014\) 1031-1046. doi: 10.1016/j.bbamem.2013.12.012](#)
14. C. Fotakis, D. Christodouleas, K. Kokkotou, **M. Zervou***, P. Zoumpoulakis, P. Moulos, M. Liouni, A. Calokerinos. NMR metabolite profiling of Greek grape marc spirits. [Food Chemistry 2013 138 1837–1846](#)
15. K.A. Vallianatou, D.J. Frank, G. Antonopoulou, S. Georgakopoulos, E. Siapi, M. Zervou, I.D. Kostas. Rhodium-catalyzed asymmetric olefin hydrogenation by easily accessible aniline- and pyridine-derived chiral phosphites. [Tetrahedron Letters 2013, 54 \(5\) 397-401](#)
16. C. Fotakis, K. Kokkotou, **M. Zervou***, P. Zoumpoulakis. NMR metabolite fingerprinting in grape derived products: An overview. [Food Research International 2013; 54, 1184-1194](#)
17. D. Athanasiadou, A. Godelitsas, D. Sokaras, AG Karydas, E. Dotsika, C. Potamitis, **M. Zervou**, S. Xanthos, E. Chatzitheodoridis, H.C. Gooi, U. Becker. New insights into the chemical and isotopic composition of human-body biominerals. I: Cholesterol gallstones from England and Greece. [J. Trace Elem Med Biol 2013 27\(2\), 7](#)
18. C. Fotakis, G. Megariotis, D. Christodouleas, E. Kritsi, P. Zoumpoulakis, D. Ntountaniotis, **M. Zervou**, C. Potamitis, A. Hodzic, G. Pabst, M. Rappolt, G. Mali, J. Baldus, C. Glaubitz, M. G. Papadopoulos, A. Afantitis, G. Melagraki, T. Mavromoustakos. Comparative study of the AT1 receptor prodrug antagonist candesartan cilexetil with other sartans on the interactions with membrane bilayers. [Biochim. Biophys. Acta- Biomembranes 2012, 1818, 3107–3120](#)

19. S. Feuillastre, A. S. Chajistamatiou, C. Potamitis, **M. Zervou**, P. Zoumpoulakis, E. D. Chrysinia, JP Praly, S. Vidal. C-Glucosylated malonitrile as a key intermediate towards carbohydrate-based glycogen phosphorylase inhibitors. *Biorg. Med. Chem* **2012**, *20(18)*, 5592-9
20. C. Fotakis, D. Christodouleas, **M. Zervou**, K. Papadopoulos, A.C. Calokerinos. Classification of Wines based on different Antioxidant Responses to Spectrophotometric Analytical methods. *Anal.Lett.* **2012**, *45 (5-6)*, 581-591.
21. C. Fotakis, D. Christodouleas, P. Zoumpoulakis, E. Kritsi, N. P. Benetis, T. Mavromoustakos, H. Reis, A. Gili, M. G. Papadopoulos, **M. Zervou***. Comparative Biophysical Studies of Sartan Class Drug Molecules Losartan and Candesartan (CV-11974) with Membrane Bilayers. *J. Phys. Chem. B* **2011**, *115 (19)*, 6180-6192
22. E. D. Tzika, M. Christoforou, S. Pispas, **M. Zervou**, V. Papadimitriou, T.G. Sotiroudis, E. Leontidis and A. Xenakis. Influence of Nanoreactor Environment and Substrate Location on the Activity of Horseradish Peroxidase in Olive Oil Based Water-in-Oil Microemulsions. *Langmuir* **2011**, *27(6)*, 2692-2700
23. Skendi, C.G. Biliaderis, M.S. Izydorczyk, **M. Zervou**, P. Zoumpoulakis. Structural variation and rheological properties of water-extractable arabinoxylans from six Greek wheat cultivars. *Food Chem.* **2011**, *126(2)*, 526-536
24. Gabriel, C.P. Raptopoulou, V. Psycharis, A. Terzis, **M. Zervou**, C. Mateescu, A. Salifoglou. 1D-3D Metal-Organic Lattice Assemblies through Chemical Reactivity and Metal-Assisted Ligand Transformations in Ternary Pb(II)-Phenanthroline-(Hydroxy)dicarboxylic Acid Systems. *Crystal Growth & Design* **2011**, *11*, 382-395.
25. M. Kaliva, C. Gabriel, C. P. Raptopoulou, A. Terzis, G. Voyiatzis, **M. Zervou**, C. Mateescu, A. Salifoglou. A Unique Dinuclear Mixed V(V) Oxo-peroxo Complex in the Structural Speciation of the Ternary V(V)-Peroxo-citrate System. Potential Mechanistic and Structural Insight into the Aqueous Synthetic Chemistry of Dinuclear V(V)-Citrate Species with H₂O₂. *Inorg.Chem.*, **2011**, *50 (22)*, 11423-11436.
26. Y. Gardikis, P. G. Tsoungas, C.Potamitis, G. Pairas, **M. Zervou**, P. Cordopatis. Xanthenes in Heterocyclic Synthesis. An Efficient and General Route for the Synthesis of Regioselectively Substituted Phthalazines. *Heterocycles* **2011**, *83 (6)*, p. 1291-1302.
27. Y. Gardikis, P. G. Tsoungas, C. Potamitis, **M. Zervou**, P. Cordopatis. Xanthenes in Heterocyclic Synthesis. An Efficient Route for the Synthesis of C-3 o-Hydroxyaryl Substituted 1,2-Benzisoxazoles and Their N-Oxides, Potential Scaffolds for Angiotensin(II) Antagonist Hybrid Peptides. *Heterocycles* **2011**, *83 (5)*, 1077-1091.
28. Gardikis K., Hatziantoniou S., Bucos M., **Zervou M.**, Screttas C.G., Steele B.R., Ionov M., Micha-Screttas M., Fessas, Demetzos C. Development and characterization of a new drug delivery nanosystem combining liposomal and dendrimeric technology (liposomal locked-in dendrimers) for cancer therapy. *J Pharm Sci* **2010** *99(8)*, 3561-3571
29. Politi A., **Zervou M.**, Triantafyllidi H., Zoumpoulakis P., Zoga A., Moutevelis-Minakakis P., Kokotos G., Mavromoustakos T., Iliodromitis E.K., Kremastinos D.Th. Hypertension study in anesthetized rabbits: Protocol proposal for AT1 antagonists screening. *JRAAS* **2010**, *11 (2)*, 103 - 110
30. Camoutsis C., Geronikaki A., Ciric A., Soković M. Zoumpoulakis P., **Zervou M.** Sulfonamide-1,2,4-thiadiazole derivatives as antifungal and antibacterial agents: Synthesis, biological evaluation, lipophilicity, and conformational studies, *Chem. Pharm. Bull.* **2010**, *58(2)*, 160-167
31. V. Saroglou, A. Karioti, A. Rancic, K. Dimas, C. Koukoulitsa, **M. Zervou**, H. Skaltsa. Sesquiterpene Lactones from *Anthemis melanolepis* and Their Antibacterial and Cytotoxic Activities. Prediction of Their Pharmacokinetic Profile. *J. Nat. Prod.* **2010**, *73*, 242-246

32. M. Plioukas, A. Termentzi, C. Gabrieli, **M. Zervou**, P. Kefalas, E. Kokkalou. Novel acylflavones from *Sideritis syriaca* ssp. *Syriaca*. *Food Chemistry* **2010**, *123*, 1136-1141
33. J. Wiecek, D. Kovala-Demertzi, Z. Ciunik, **M. Zervou**, M.A. Demertzis. Diorganotin Complexes of a Thiosemicarbazone. Synthesis, Properties, X-Ray Crystal Structure and Antiproliferative Activity of Diorganotin Complexes," *Bioinorganic Chemistry and Applications*, **2010**, Article ID 867195,
34. J. Wiecek, D. Kovala-Demertzi, Z. Ciunik, J. Wietrzyk, **M. Zervou**, M. Demertzis. Organotin compound derived from 3-hydroxy-2-formylpyridine- semicarbazone. Synthesis, crystal structure and anti-proliferative activity. *Bioinorganic Chemistry and Applications*, **2010**, Article ID 718606
35. Ioannou E., **Zervou M.**, Ismail A., Ktari L., Vagias C., Roussis V. 2,6-Cyclo-xenicanes from the brown algae *Dilophus fasciola* and *Dilophus spiralis*. *Tetrahedron* **2009**, *65* 10565-10572
36. C. Potamitis, **M. Zervou**, V. Katsiaras, P. Zoumpoulakis, S. Durdagi, M.G.Papadopoulos, J. M. Hayes, S.Golic Grdadolnik, I. Kyrikou, D. Argyropoulos, G. Vatougia, T. Mavromoustakos. Antihypertensive Drug Valsartan in solution and at the AT1 Receptor: Conformational Analysis, Dynamic NMR Spectroscopy, in silico Docking and Molecular Dynamics Simulations. *J. Chem. Inf. Model.* **2009**; *49*, 726-739
37. Calogeropoulou T., Avlonitis N., Minas V., Alexi X., Pantzou A., Charalampopoulos I., **Zervou M.**, Vergou V., Katsanou E. S., Lazaridis I., Alexis M., Gravanis A. Novel DHEA Derivatives with Anti-Apoptotic Neuroprotective activity. *J. Med. Chem.* **2009**, *52* (21), 6569-6587
38. Ch. Fotakis, D. Christodouleas, P. Chatzigeorgiou, **M. Zervou**, N. P. Benetis, K. Viras, T. Mavromoustakos. Development of a CP-31P NMR broadband simulation methodology for studying the interactions of antihypertensive AT1 antagonist losartan with phospholipids bilayers. *Biophysical J.* **2009**; *96*, 2227-2236
39. Termentzi A., **Zervou M.**, Kokkalou E. Isolation and structure elucidation of novel phenolic constituents from *Sorbus domestica* fruits. *Food Chemistry*, **2009**, *116*(1), 371-381
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Book chapters

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International conferences participation

1. **Gordon Research Conference "Neurotrophic Mechanisms in Health and Disease", June 2-7, 2019 Salve Regina University, Newport RI, USA.** Gravanis A., Padiaditakis I, Efstathopoulos P, Kourgiantaki A, **Zervou M**, Calogeropoulou T, Charalampopoulos I. Microneurotrophins: synthetic micromolecular agonists of neurotrophin receptors with neuroprotective properties in animal models of neurodegenerative diseases.

2. **COST Action CA15135. "Multi-target paradigm for innovative ligand identification in the drug discovery process (MuTaLig)" 2nd Meeting Porto, Portugal, 22-24 September 2017.** M. Evgeniou, C. Potamitis, **M. Zervou**. *In silico* screening for the discovery of new inhibitors for the mutated protein BRAF-V600E

3. **COST Action CM1407. "Challenging organic syntheses inspired by nature - from natural products chemistry to drug discovery" 3rd Meeting Krakov, Poland, 2-3 March 2017.** E. Ioannou, M. Harizani, K. Kokkotou, **M. Zervou**, V. Roussis. The *Laurencia* paradox: an endless source of chemodiversity.
4. **EFMC-ISMIC 2016, XXIV EFMC International Symposium on Medicinal Chemistry, Manchester, UK, 2016.** K.C. Prousis, M. Grozi, **M. Zervou**, C. Potamitis, I. Pediaditakis, I. Charalampopoulos, A. Gravanis, T. Calogeropoulou. 17-Spiro-Dehydroepiandrosterone Derivatives as Small Molecule Mimetics of Neurotrophins.
5. **8th International Symposium on Computational Methods in Toxicology and Pharmacology Integrating Internet Resources. CMTPI -2015. Chios island, Greece June 21-25, 2015.** C. Potamitis, M. Goulielmaki, A. Pintzas, P. Zoumpoulakis, **M. Zervou**. Virtual screening approaches targeting BRAFV600E oncoprotein Inhibitors.
6. **Anatolian Conference on Synthetic Organic Chemistry ACSOC, Antalya TURKEY March 16-19, 2015.** B.R. Steele, C. Arbez-Gindre, M. Konstantinidou, C. Potamitis, S. Georgakopoulos, G. Antonopoulou, G.A. Heropoulos, P. Zoumpoulakis, **M. Zervou**, M. Micha-Screttas. Synthesis of new polyhydroxydendrimers for drug encapsulation and delivery.
7. **15th Annual European Schrodinger User Meeting, The Westin Paris – Vendôme, Paris, France. September 23rd - 25th, 2015,** C. Potamitis, K. Papavasileiou, D. Siakouli, A. Boulaka, M. Papadopoulos, D.J.Mitsiou, M.N. Alexis, P. Zoumpoulakis, **M. Zervou**. Virtual screening approaches targeting glucocorticoid receptor.
8. **SEE-DRUG Conference, NMR applications in Life Sciences. Exploring peptides & proteins Conference & Cultural Center, University of Patras, 18–20 June, 2015.** P. Christodoulou, K. Kokkotou, M. Liouni, P. Georgiadis, **M. Zervou**. Antioxidant effects of wine extracts in a cell culture as probed by comet assay and NMR based metabolomics
9. **SEE-DRUG Conference, NMR applications in Life Sciences. Exploring peptides & proteins Conference & Cultural Center, University of Patras, 18–20 June, 2015.** D.Tzeli, P. Kozielowicz, C. Potamitis, K. Kokotou, **M. Zervou**, B. Rak, A. Gavalas, E.Tsolaki, A. Geronikaki, I. D. Petsalakis, P. G.Tsoungas. 2,2'-Dihydroxybenzophenones and their Oxime and N-acylhydrazone Deivatives. Synthesis, Structure Profile and Evaluation as Model Antiinflammatory Drug Leads.
10. **247th National Spring Meeting of the American-Chemical-Society (ACS) Dallas, TX. 16-20 March 2014.** **Zervou, M**; Cournia, Z; Potamitis, C; Patargias, G; Durdagi, S; Grdadolnik, S; Mavromoustakos, T. Molecular basis of action of the AT1 antagonist losartan.
11. **1st International Congress: From Drug Discovery to Drug Delivery, Athens, Greece November 13-15, 2014.** C. Potamitis, M. Goulielmaki, A. Pintzas, P. Zoumpoulakis, **M. Zervou**. Structure-based virtual screening towards the discovery of potential BRAF^{V600E} inhibitors.
12. **Current Trends in Structural Biology & 7th International Conference of the Hellenic Crystallographic Association, FORTH Crete Greece 19-21 September, 2014.** C. Potamitis, K.E. Tsitsanou, C. Drakou, E. Dimou, U. Zelenko, E. Ioannou, V. Roussis, S. Golic Grdadolnik, S.E. Zographos, **M. Zervou**. NMR mapping of ligands' molecular interactions at the Odorant Binding Protein 1 of malaria-transmitting mosquito *Anopheles gambiae*.
13. **FEBS-EMBO Palais des Congrès, Paris, France 30/8- 4/9 2014.** I. Charalampopoulos, I. Pediaditakis, P. Efstathopoulos, **M. Zervou**, J.C. Arevalo, V. Nikoletopoulou, A. Kourgiantaki, T. Calogeropoulou, A. Gravanis. Molecular pharmacology of synthetic neurosteroidal agonists of Nerve Growth Factor (NGF) receptors: differential neurotrophin receptors signaling.
14. **The 32nd Cyprus - Noordwijkerhout - Camerino Symposium in Drug Research, Limassol, Cyprus, May 18-22, 2014.** M. Mondal, N. Radeva, H. Köster, A. Park, C. Potamitis, **M. Zervou**, G. Klebe, and A. K. H.

Hirsch. Novel Inhibitors for the Aspartic Protease Endothiapepsin by Combining Structure-Based Design, Dynamic Combinatorial Chemistry and STD-NMR Spectroscopy.

15. **CECAM-HQ-EPFL, Workshop: Coupling between protein, water, and lipid dynamics in complex biological systems: Theory and Experiments. Lausanne, Switzerland, September 24-27, 2013.** G. Patargias, **M. Zervou**, Z. Cournia, C. Potamitis, S. Durdagi, S. Golic Grdadolnik, T. Mavromoustakos. The Molecular Basis of Action of the AT1 Antagonist Losartan.

16. **COST Action CM0804 "Chemical Biology with Natural Products" Izmir, TURKEY Final Meeting, 6 - 8 May, 2013.** K. Kokkotou, E. Ioannou, E. Siapi, **M. Zervou**, V. Roussis. Studies towards the Metabolomic Profiling of Red Algae of the Genus *Laurencia*.

17. **EU-FP7-REGPOT-ARCADE, Final Meeting Athens May, 2013** C. Potamitis, P. Zoumpoulakis, **M. Zervou** (ORAL PRESENTATION). Applications of Biomolecular NMR in Chemical Biology.

18. **International Conference on Chemistry for Health, NHRF, Athens 9-14 Sept, 2012.** Potamitis, C.; **Zervou, M.**; Zoumpoulakis, P.; Zographos, S.E.; Tsitsanou, K.E.; Drakou, C.; Iatrou, K.; Zelenko, U.; Golic Grdadolnik, S. NMR screening for putative repellents targeting Odorant Binding Protein (OBP1) of the primary vector for malaria, mosquito *Anopheles gambiae*.

19. **BuTrAFoS (Building Trust through Authentic Food and safety), Limassol Cyprus, 28-31 Oct, 2012.** C. Fotakis, **M. Zervou**, P. Zoumpoulakis. Biomarkers of indigenous Cypriot Wines.

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24. **32nd European Peptide Society Symposium, Megaron, Athens, Greece, 2-7 Sept. 2012.** **Zervou, M.**; Potamitis, C.; Zoumpoulakis, P; Fotakis, C; Papadimitriou, E; Cordopatis, P; Magafa, V. Pharmacophore model of Cysteine-based alpha 4 beta 1 Integrin Ligands based on Conformational Solution Studies.

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25. **32nd European Peptide Society Symposium, Megaron, Athens, Greece, 2-7 Sept. 2012.** **Zervou, M.**; Paschalidou, K.; Fotaras, S; Constantinou-Kokotou, V; Kokotos, G. Studies on a Reverse-Turn Scaffold Containing a Thiourea Functionality.

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26. **32nd European Peptide Society Symposium, Megaron, Athens, Greece, 2-7 Sept. 2012.** Potamitis, C.; Resvani, A.; Androutsou, M-E; **Zervou, M.**; Plotas, P; Aggelis, G; Zoumpoulakis, P; Matsoukas, J. Conformational Similarities and Differences of Angiotensin II (All): All Acetate vs All TFA Salt in Solution.

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27. **7th International Conference on Instrumental Methods of Analysis, Chania, Crete, Greece 18-22/09/2011.** Ch. Fotakis, D. Christodouleas, M. Liouni, A. Calokerinos, T. Masouras, P. Zoumpoulakis and **M. Zervou**. Metabolic and antioxidant signature of aged Greek grape marc distillates.

28. **7th International Conference on Instrumental Methods of Analysis, Chania, Crete, Greece 18-22/09/2011.** K. Kokkotou, F. Pitterl, E. Ioannou, E. Siapi, **M. Zervou**, V. Roussis. Metabolic profiling of *Laurencia* crude extracts by UHPLC-Orbitrap-MS and HR NMR.
29. **7th symposium In Vino Analytica, Graz, Austria, 21-23/07/2011** C. Fotakis, D. Christodouleas, K. Kokkotou, M. Zervou, P. Zoumpoulakis, M. Liouni, A. Calokerinos. NMR based metabolic profiling of Greek grape marc distillates. K. Kokkotou, **M. Zervou**, P. Zoumpoulakis, C. Fotakis, P. Moulos, A. Tsantili-Kakoulidou, M. Liouni. NMR based metabolic monitoring of Greek white wines.
30. **WAC Beaune, France 24-26/3/2011.** K. Kokkotou, **M. Zervou**, P. Zoumpoulakis, C. Fotakis, P. Moulos, A. Tsantili-Kakoulidou, M. Liouni. NMR based metabolic monitoring of Greek white wines.
31. **18th European Symposium on Quantitative Structure–Activity Relationships, Rhodes Greece, September 19-24, 2010.** **Zervou M.**, Zoumpoulakis P., Potamitis C., Prousis K.C., Detsi A. In silico binding studies of novel quinolinone 3-carboxamides: an effort to elucidate their anti-inflammatory profile.
32. **EMU-School 2010, Oviedo, Spain, 27-30 June 2010.** Athanasiadou D., Godelitsas A., Sokaras D., Karydas A., Dotsika E., Potamitis K., **Zervou M.**, Xanthos S., Chatzitheodoridis E., Gamaletsou M., Gooi H.C., and Becker U. New insights into the chemical and isotopic composition of cholesterol gallstones from the human body. Ion-partitioning in ambient temperature aqueous systems. From fundamentals to applications in climate proxies and environmental geochemistry.
33. **31st European Peptide Society Symposium, Copenhagen, Denmark, 5-9 Sept. 2010.** Daletos G. K., Lamprou M., Zoumpoulakis P., **Zervou M.**, Assimomytis N. L., Geronikaki A., Papadimitriou E., Magafa V., Cordopatis P. Synthesis, evaluation and conformational solution studies of Cysteine-based $\alpha_1\beta_1$ Integrin ligands. *J. Peptide Sci*, **2010**, *16*, Issue S1, pageS159
34. **6th International Conference Instrumental Methods of Analysis, Athens, Greece, 4th - 8th October 2009.** C. Fotakis, K. Kokkotou, D. Christodouleas, A. Calokerinos, M. Liouni, P. Zoumpoulakis, **M. Zervou**. Metabolic Monitoring of Greek Beverages Using HR NMR Spectroscopy
35. **19th Annual V.M. Goldschmidt Conference Davos, Switzerland, June 21 – 26, 2009.** Kollias K., Godelitsas A., Astilleros J.M., Ladas S., Kennou S., Potamitis C., **Zervou M.**, Lagoyiannis A., Harissopulos S. Mavromoustakos T. Nanoscale processes during the interaction of aluminosilicate and carbonate mineral surfaces with acid mine drainage (AMD). *GEOCHIMICA ET COSMOCHIMICA ACTA (Suppl. S)*, **2009**, *73*, *13* p A677-A677
36. **4th International Conference on Oxidative Stress in Skin Medicine and Biology, Andros, Greece 11-14 Sept. 2008.** A. Detsi, C. A. Kontogiorgis, E. A. Pontiki, D. Hadjipavlou-Litina, **M. Zervou**, P. Zoumpoulakis. Design, Synthesis and Evaluation of the Antioxidant, Antiinflammatory and Lipoxygenase Inhibitory Activity of novel Nsubstituted-4-Hydroxy-2-Quinolinone Carboxamides.
37. **1st Euro-Mediterranean Conference on Marine Natural Products. Sharm El-Sheikh, Egypt 31/10-4/11 2008** E. Ioannou, A. F. Abdel-Razika, X. Alexi, **M. Zervou**, C. Vagias, M. N. Alexis, V. Roussis. New steroids with anticancer activity from the gorgonian Eunicella Cavolini.
38. **PSE Young Scientists' Meeting, Future Trends in Phytochemistry: Compounds - Enzymes - Genes", Bad Herrenalb, Germany, 26 - 29 March 2008.** E. Ioannou, A. Ismail, M. Zervou, C. Vagias, L. Ktari, V. Roussis. New Diterpenes from the Brown Alga *dilophus Fasciola*.
39. **7th Joint meeting. Natural Products with pharmaceutical, nutraceutical, cosmetic and agrochemical interest. Athens 3-8/ 08 / 2008.** Termentzi A, **Zervou M**, Kokkalou E. A novel complex phenolic constituent from medium matured *Sorbus domestica* (Rosaceae) fruits. *Planta Med* **2008**; *74*; PB79
40. **7th Joint meeting. Natural Products with pharmaceutical, nutraceutical, cosmetic and agrochemical interest. Athens 3-8/ 08 / 2008.** Plioukas M, Gabrieli C, **Zervou M**, Kokkalou E. Antioxidant properties and five new phenylpropanoid esters of apigenin from *Sideritis syriaca* L.

Planta Med **2008**; *74*; PB15, DOI: 10.1055/s-0028-1084361

41. **Phytochemical Society of Europe, 50th Anniversary Conference Cambridge, UK, April 11-14, 2007.** A Termentzi, **M. Zervou**, P. Kefalas, E. Kokkalou. Phytochemical Analysis and Structure Elucidation of the Phenolic Constituents of Various Extracts and Fractions of *Sorbus domestica* Fruits.

42. **6th AFMC International Medicinal Chemistry Symposium, Istanbul, Turkey, July 8-11, 2007.** T. Mavromoustakos, **M. Zervou**, P. Zoumpoulakis, K. Potamitis, V. Katsiaras, A. Politi, E. Mantzourani, S. Durdagi, C. Koukoulitsa. Putative Bioactive Conformers of Small Molecules. A Concreted Approach Using NMR Spectroscopy and Computational Chemistry.

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43. **5th Hellenic Forum on Bioactive Peptides. Patras, Greece 2007.** C. Potamitis, H. Reis, **M. Zervou**, M. Papadopoulou, T. Mavromoustakos. Conformational Analysis of AT1 Antagonist Valsartan using 2D NMR Spectroscopy and Computational Analysis. Determination of Thermodynamic Parameters through Dynamic NMR Spectroscopy and Semi-Empirical Calculations.

Paper: *Proceedings of the 5th Hellenic Forum on Bioactive Peptides, p267-272*

44. **4th Hellenic Forum on Bioactive Peptides. Patras, Greece. April 22-24, 2004.** A. Kapou, **M. Zervou**, S.G. Grdadolnik, T. Mavromoustakos. 3D-QSAR Antihypertensive Models Based on 2D-NMR and Computational Analysis Driven Low Energy Conformers of Losartan.

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45. **4th Hellenic Forum on Bioactive Peptides. Patras, Greece April 22-24, 2004** C. Potamitis, **M. Zervou**, I. Kyrikou, E. Siapi, P. Zoumpoulakis, C. Fotakis, D. Christodouleas, K. Viras, A. Kolocouris, S.G. Grdadolnik, T. Mavromoustakos. Conformational Analysis Using 2D NMR Spectroscopy Coupled with Computational Analysis of Valsartan and its Drug:Membrane Interactions.

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46. **Peptide Revolution: Genomics, Proteomics & Therapeutics. 18th American Peptide Symposium, Boston 19-23 July 2003.** Mavromoustakos, T.; Roumelioti, P.; **Zervou, M.**; Zoumpoulakis, P.; Kyrikou, I.; Giatas, N.; Gatos, D.; Androutsou, M. Papanastasiou, I.; Zoga, A.; Minakakis, P. M.; Kokotos, G.; Vlahakos, D.; Iliodromitis, E.; Matsoukas, J. Design and synthesis of novel antihypertensive drugs.

47. **Progress in stiinta compusilor or organici si macromoleculari, 25-27 September, 2003, Iasi, Romania.** T. Mavromoustakos, P. Minakakis, G. Kokotos, **M. Zervou**, I. Kyrikou, A. Kapou, A. Zoga, P. Zoumpoulakis, S. Gega, I. Chailkefs, C. Potamitis, E. Siapi, A. Pitsas, D. Demetriou, E. Iliodromitis. The Use of NMR and Molecular Modeling to study the molecular basis of hypertension.

48. **International Conference of Computational Methods in Sciences and Engineering ICCMSE 2003. Kastoria, Greece, September 2003** T. Mavromoustakos, P. Zoumpoulakis, **M. Zervou**, I. Kyrikou, A. Kapou, N. Benetis. The Use of Computational Analysis to Design Novel Drugs.

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49. **3rd Central European conference on Reference Materials and Measurements, Rogaska Slatina, Slovenia, 2002.** G. Bonas, **M. Zervou**, A. Papaeoannou. "SoftCRM. A new software for the Certification on Reference Materials".

50. **The VIIth Symposium of Colloid and Surface Chemistry, Bucurest, Romania, 2002.** E. Siapi, I. Kyrikou, P. Zoumpoulakis, **M. Zervou**, D. Demetriou, A. Pitsas, Ch. Camoutsis, Eng. V. Trandafir, A. Buzor, G. Popescu, T. Mavromoustakos. The Use of Differential Scanning Calorimetry to study the thermal effects of gentamycin on Synthetic Polymeric Collageneous Membranes.

51. **EENC 98, 14th European Experimental Conference. Bled, Slovenia, 1998.** T. Mavromoustakos, A.Kolokouris, **M.Zervou**, I.Matsoukas. The molecular basis of hypertension.
52. **The Third International Conference on Applications of Magnetic Resonance in Food Science, Nantes, 1996.** T. Mavromoustakos, G. Bonas, M.P. Day, **M. Zervou**, E. Theodoropoulou, M. Bensaia: A ¹³C NMR Spectroscopy approach to the Adulteration of Olive Oil.

National conferences participation

1. **66th Panhellenic Conference of the Hellenic Society of Biochemistry and Molecular Biology. Eugenides Foundation, Athens 11-13 December 2015.** D. Siakouli, A. Boulaka, C. Potamitis, K. Papavasileiou, M. Roussaki, T. Calogeropoulou, M. G. Papadopoulos, P. Zoumpoulakis, **M. Zervou**, M. N. Alexis, D. J. Mitsiou. Dissociated Glucocorticoids: Development of novel compounds and evaluation of their activity.
2. **66th Panhellenic Conference of the Hellenic Society of Biochemistry and Molecular Biology. Eugenides Foundation, Athens 11-13 December 2015.** C. Potamitis, M. Goulielmaki, A. Pintzas, P. Zoumpoulakis, **M. Zervou**. Virtual screening towards the selective inhibition of BRAFV600E oncoprotein.
3. **66th Panhellenic Conference of the Hellenic Society of Biochemistry and Molecular Biology. Eugenides Foundation, Athens 11-13 December 2015.** P. Christodoulou, K. Kokkotou, M. Liouni, P. Georgiadis, **M. Zervou**. Enhancement of cell defence upon treatment with natural antioxidant matrices probed by comet assay and NMR-based metabolomics
4. **Symposium on Mass Spectrometry and Health, 18-19 November 2014, National and capodistrian University of Athens, Athens Greece** K. Kokkotou, E. Ioannou , E. Siapi , **M. Zervou** , V. Roussis. LC/MS-based metabolomic analysis of red algae of the genus *Laurencia*: screening for bioactive compounds and new natural products.
5. **2nd SEE-DRUG WORKSHOP: NMR BASICS & APPLICATIONS IN LIFESCIENCES, FP7-REGPOT-2011-1, SEE-DRUG Project & 14th Conference of Medicinal Chemistry, Conference & Cultural Center, University of Patras, 13th–15th May, 2013** V. Mertziani, D. Tsigirmani, C. Potamitis, P. Cordopatis, **M. Zervou**, V. Magafa. Design, synthesis and solution conformational studies of new analogues of χ -Conopeptide MrlA.
6. **15th Hellenic Symposium on Medicinal Chemistry, Athens 25-27 May 2012.** **M. Zervou**, P. Zoumpoulakis, C. Potamitis, Ch. Fotakis, E. Papadimitriou, P. Cordopatis, V. Magafa. Novel Cysteine α 4 β 1 Integrin Ligands: Correlation of in silico Pharmaceutically relevant properties with their in vivo profile.
7. **3rd Hellenic Conference of I.S.F.H.A -The Interdisciplinary Society of Food Hygiene Assurance, Thessaloniki 4-6 June 2010.** K. Kokkotou, C. Fotakis, **M. Zervou** (ORAL), P. Zoumpoulakis, A. Tsantili-Kakoulidou, M. Liouni. Metabolic profile monitoring of Greek wines using HR NMR spectroscopy and multivariate statistical analysis.
8. **14th Hellenic Symposium on Medicinal Chemistry, Thessaloniki 23-25 April 2010.** A. Detsi, K. C. Prousis , C. A. Kontogiorgis , E. A. Pontiki , **M. Zervou** , P. Zoumpoulakis , C. Potamitis, D. Hadjipavlou-Litina. Privileged Heterocyclic Scaffolds with Antioxidant and Lipoxigenase Inhibitory Activity. The Case of 4-Hydroxy-2-quinolinone-3-carboxamides Synthesis, in vitro evaluation and *in silico* docking studies.
9. **14th Hellenic Symposium on Medicinal Chemistry, Thessaloniki 23-25 April 2010.** A. Panztou, N. Avlonitis, I. Charalambopoulos, **M. Zervou**, X. Alexi, I. Lazaridis, M.N.Alexis, A. Gravanis, T. Calogeropoulou. Design and Synthesis of 17-Spiro Neurosteroids.
10. **14th Hellenic Symposium on Medicinal Chemistry, Thessaloniki 23-25 April 2010.** P. Tsatalas, A. Termentzi, **M. Zervou**, E. Kokkalou. Phytochemical Analysis of *Cornus Mas* fruits in correlation to their antioxidant capacity.
11. **10th conference "Medicinal Chemistry: Drug discovery and Design", Patras, Greece, 18-20 March 2009.** C. Potamitis, T. Tselios, J. Matsoukas, **M. Zervou**, K. Viras, T. Mavromoustakos. Study of Myelin Basic

Protein peptide analogues interactions with lipid bilayers using DSC, Raman and solid state ¹³C and ³¹P NMR spectroscopy.

12. **10th conference "Medicinal Chemistry: Drug discovery and Design", Patras, Greece, 18-20 March 2009.** C. Fotakis, D. Christodouleas, **M. Zervou**, N.P. Benetis, K. Viras, T. Mavromoustakos. Development of a CP-³¹P NMR broadband simulation methodology for studying the interactions of antihypertensive AT1 antagonist losartan with phospholipid bilayers.

13. **9th conference "Medicinal Chemistry: Drug discovery and Design", Patras, Greece, 26-28 March 2008.** C. Potamitis, T. Tselios, J. Matsoukas, **M. Zervou**, N. Benetis, K. Viras, T. Mavromoustakos. Interactions of a pair of synthetic peptide analogues of Myelin Basic Protein with lipid bilayers using DSC and high resolution solid state ¹³C NMR.

14. **9th conference "Medicinal Chemistry: Drug discovery and Design", Patras, Greece, 26-28 March 2008.** A. Politi, **M. Zervou**, P. Zoumpoulakis, A. Zoga, P. Moutevelis-Minakakis, G. Kokotos, T. Mavromoustakos, E. K. Iliodromitis, D.Th. Kremastinos. Hypertension study in anaesthetized rabbits : A new protocol for AT1 antagonists screening.

15. **13th Hellenic Symposium on Medicinal Chemistry (HSMC-13), 14-15 March 2008** C. Potamitis, **M. Zervou**, J. M. Hayes, P. Zoumpoulakis, D. Argyropoulos, S. Golic Grdadolnik, T. Mavromoustakos. Antihypertensive Drug Valsartan: conformational analysis, thermodynamic properties and docking studies using NMR spectroscopy and in silico methods.

16. **13th Hellenic Symposium on Medicinal Chemistry (HSMC-13), 14-15 March 2008** A. Detsi, C. A. Kontogiorgis, D. Hadjipavlou-Litina, , E.A. Pontiki, **M. Zervou**, P. Zoumpoulakis. Novel analogs of N-substituted-4-Hydroxy-2-Quinolinone as Lipoxygenase Inhibitors.

17. **8th Conference, Medicinal Chemistry: Drug Discovery and Design, Patras, Greece March 15-17, 2007.** C. Potamitis, **M. Zervou (Oral)**, S. Golic Grdadolnik, I. Kyrikou, D. Argyropoulos D., G. Vatougia, V. Katsiaras, S. Nikolaropoulos, P. Zoumpoulakis, T. Mavromoustakos. Conformational Analysis of the Antihypertensive Drug Valsartan using Dynamic NMR Spectroscopy. Comparative superimposition and docking studies with the prototype AT1 antagonsit Losartan.

18. **5th Hellenic Forum on Bioactive Peptides. Patras, Greece, May 14-16, 2006.** **M. Zervou**, S.G. Grdadolnik, A. Politi, P. Zoumpoulakis, T. Mavromoustakos. Comparison of x-ray crystallographic conformers with those obtained using NMR spectroscopy in different environments. *5th Hellenic Forum on Bioactive Peptides. May 14-16, 2006 Patras, Greece.*

19. **5th Hellenic Forum on Bioactive Peptides. Patras, Greece, May 14-16, 2006.** C. Potamitis, H. Reis, **M. Zervou**, M. Papadopoulos and T. Mavromoustakos. Conformational Analysis of AT1 antagonist Valsartan using 2D NMR Spectroscopy and Computational Analysis. Determination of Thermodynamic parameters through Dynamic NMR spectroscopy and semi-empirical calculations.

Paper: *5th Hellenic Forum on Bioactive Peptides.* P.A. Cordopatis, E. Manessi-Zoupa, G. Pairas (eds) pp. 267-272.

20. **5th Hellenic Forum on Bioactive Peptides. Patras, Greece, May 14-16, 2006.** A. Politi, P. Zoumpoulakis, **M. Zervou**, K. Georgikopoulou, G. Kokotos, P. Moutevelis Minakakis, T. Mavromoustakos. Rational Design of the potential molecule (5S)-1-(3-Hydroxybenzyl)-5-(1H-imidazol-1-ylmethyl)-2-pyrrolidinone (MMK8) for the treatment of Hypertension.

21. **Greece-Cyprus Chemistry Conference, Thessaloniki, Greece 2004.** G. Bonas, **M. Zervou**. The European Virtual Institute for Reference Materials (VIRM).

22. **3rd Hellenic Forum on Bioactive Peptide, Patras, Greece 2003.** P. Zoumpoulakis, **M. Zervou**, I. Kyrikou, S.G. Grdadolnik, P. Roumelioti, A. Zoga, N. Giatas, J. Matsoukas, T. Mavromoustakos. Comparative Conformational Analysis between Losartan Derivatives.

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23. **3rd Hellenic Forum on Bioactive Peptide, Patras, Greece 2003**. P. Zoumpoulakis, **M. Zervou**, I. Kyrikou, E. Siapi, S.G. Grdadolnik, P. Laggner, A. Hickel, T. Mavromoustakos. Relationship Between Conformation and Bioactivity in the Hypertension Disease. **Paper:** *3rd Hellenic Forum on Bioactive Peptides*. P.A. Cordopatis, E. Manessi-Zoupa, G. Pairas (eds) p. 355-360

24. **3rd Conference of Medicinal Chemistry: Conformation and Bioactivity. Drug Design and Development. Patras, Greece, March 7-9 2002**. P. Zoumpoulakis, A. Zoga, **M. Zervou**, N. Giatas, P. Roumelioti, J. Matsoukas, T. Mavromoustakos. Conformational and Biophysical Studies of AT1 Non-Peptide Antagonists. Drug Design and Development.

25. **19th Hellenic Chemistry Conference 2002**. Kyrikou I., **Zervou M.**, Petrakis P., Mavromoustakos T. Study of the adulteration of virgin olive oil with hazelnut oil by applying ¹³C NMR spectroscopy.

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26. **19th Hellenic Chemistry Conference, Crete-Greece 2002**. P. Zoumpoulakis, A. Zoga, I. Kyrikou, **M. Zervou**, E. Siapi, T. Mavromoustakos. Study of AT1 antagonists interactions with lipid bilayers. Diffusion process and docking to the AT1 receptor.

27. **19th Hellenic Chemistry Conference, Crete-Greece 2002**. I. Kyrikou, **M. Zervou**, P. Petrakis, T. Mavromoustakos. Study of the Adulteration of Virgin Olive Oil with hazelnut oil using ¹³C NMR spectroscopy.

28. **2nd Hellenic Forum on Bioactive Peptides, Patras, Greece 2001**. Mavromoustakos, **M. Zervou**, A. Kolocouris, P. Zoumboulakis, S.G. Grdadolnik, P. Roumelioti, J. Matsoukas. Can Nuclear Magnetic Resonance Be of Aid to Treat Hypertension? pp. 461-466 (2001).

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29. **2nd Hellenic Forum on Bioactive Peptides, Patras, Greece 2001**. I. Daliani, **M. Zervou**, P. Zoumboulakis, A. Kolocouris, S.G. Grdadolnik, T. Mavromoustakos. Interactions of AT1 Antagonist Losartan with Phospholipid Bilayers Using MAS ¹³C NMR Spectroscopy. **Paper:** *2nd Hellenic Forum on Bioactive Peptides*. P.A. Cordopatis(Ed) pp. 455-460

30. **18th Hellenic Chemistry Conference, Pireas-Greece 2001**. G. Bonas, **M. Zervou**. Design and implementation of "SoftCRM", s/w for the certification of Reference Materials.

31. **9th Hellenic Symposium on Medicinal Chemistry (HSMC-9) Athens, 2000**. **M. Zervou (ORAL)**, A. Kolocouris, T. Mavromoustakos, I. Matsoukas. Conformational properties of Ang II antagonists. Design of antihypertensive agents.

32. **The 6th Cyprus-Greece Chemistry on Chemistry, Rhodos-Greece 1999**. T. Mavromoustakos, A. Kolocouris, J. Matsoukas, **M. Zervou**. Study of the Molecular Basis of Hypertension Using NMR spectroscopy and Computational Analysis Studies.

33. **8th Hellenic Symposium on Medicinal Chemistry, Athens 1997**. M. Zervou, A. Kolocouris, T. Mavromoustakos, C. Skrettas, I. Matsoukas. Conformational analysis of EXP-3174, the active metabolite of the antihypertensive drug Losartan