

# CURRICULUM VITAE

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**Family status:** Married with four children

## EDUCATION

**B.Sc.** 1985 Chemistry, University of Athens, Greece.

**M.Sc.** 1988 Medicinal Chemistry, University of Connecticut, USA

**Ph.D.** 1990, Medicinal Chemistry, University of Connecticut, USA

**B.Sc.** 2007 Theology School, University of Athens, Greece.

**M.Sc.** 2012 Social Theology School, University of Athens, Greece

**Ph.D.** 2014- Social Theology School, University of Athens, Greece

**Doctoral Dissertation:** Study of the cannabinoid and anesthetic steroids with artificial and biological membranes. The dissertation can be found in the web site:  
<http://phdtheses.ekt.gr/eadd/handle/10442/12696>

## EMPLOYMENT

**1985-1987.** Teaching Assistant in School of Pharmacy for introductory and advanced level courses.

**1988-October 1990.** Research Assistant in School of Pharmacy.

**October 1990-June 1991.** Postdoctoral Fellow in School of Pharmacy.

**June 1991-September 2004.** Researcher director at Laboratory of Molecular Analysis (LMA) at the Institute of Organic and Pharmaceutical Chemistry (IOPC) of National Hellenic Research Foundation (NHRF). Use Molecular Modeling to study the conformational analysis of antihypertensive drugs, cannabinoids, steroids and

other bioactive molecules. Perform NMR experiments both in solution and in solid state to study the conformational analysis of biologically active molecules and drug:membranes interactions. Use DSC as a complementary tool to study the thermal changes in membrane bilayers after the incorporation of drugs. Use the modern high technology infrastructure of the institute to collaborate and solve some of the research problems facing professors at Greek Universities. Such problems include structure determination of zeolithes, inorganic complexes and soil materials.

**September 2004-beginning of January 2005.** Visiting associate professor at the University of Cyprus (Chemistry Department). Teaching of Organic Chemistry laboratory and Medicinal Chemistry.

**January 2005-2007** Director of Laboratory of Molecular Analysis (LMA) at IOPC.

**2007-** Elected since 2007 a President of the new established Center of Applied Research and Technology of Nicosia, Cyprus.

**January of 2007-May of 2007.** Visiting associate professor at the University of Cyprus (Chemistry Department). Teaching of Organic Chemistry laboratory and Medicinal Chemistry.

**September 2007-2012.** Associate Professor at the Chemistry Department of Athens

**June 2012-** Full Professor at the Chemistry Department of Athens

**September 2016-June 2017** Sabbatical to work on teaching and doing research in New York College

## **PUBLICATIONS 2020**

1. S. Kiriakidi, C. Chatzigiannis, C. Papaemmanouil, A.G. Tzakos, **T. Mavromoustakos**. Exploring the role of the membrane bilayer in the recognition of candesartan by its GPCR AT1 receptor. **Biochimica et Biophysica Acta** 1862, 183142 (2020).
2. A. Konstantinidi, M. Chountoulesi, N. Naziris, B. Sartori, Heinz Amenitsch, G. Mali, T. Čendak, M. Plakantonaki, I. Triantafyllakou, Theodore Tselios, C. Demetzos, D. D. Busath, **T. Mavromoustakos**, A. Kolocouris. The boundary lipid around DMPC-spanning influenza A M2 transmembrane domain channels: Its structure and potential for drug accommodation **Biochimica et Biophysica Acta** 183156 (2020).
3. A.K. Rossos, C.N. Bantia, A. Kalampounias, C. Papachristodoulou, K. Kordatos, P. Zoumpoulakis, **T. Mavromoustakos**, N. Kourkoumelis, S.K. Hadjidakou. pHEMA@AGMNA-1: A novel material for the development of antibacterial contact lens Materials Science & Engineering C 111, 110770(2020).
4. G. Leonis, E. Christodoulou, D. Ntountaniotis<sup>1</sup>, M. V. Chatziathanasiadou, **T. Mavromoustakos**, N. Naziris, M. Chountoulesi, C. Demetzos, G. Valsami, D. E. Damalas, A. G. Tzakos, N. S. Thomaidis, V. Karageorgos, G. Liapakis.

Antihypertensive Activity and Molecular Interactions of Irbesartan in Complex with 2-Hydroxypropyl- $\beta$ -Cyclodextrin. **Chemical Biology & Drug Design** 96,668–683 (2020).

5. C. Papaemmanouil, M. V. Chatziathanasiadou, C. Chatziyiannis, E. Chontzopoulou, **T. Mavromoustakos**, Simona Golic Grdadolnik & Andreas G. Tzakos Unveiling the interaction profile of rosmarinic acid and its bioactive substructures with serum albumin **Journal of Enzyme Inhibition and Medicinal Chemistry** 35(1),786–804 (2020).

6. C. Koukoulitsa, E. Chontzopoulou, S. Kiriakidi, A.G. Tzakos and **T. Mavromoustakos** A Journey to the Conformational Analysis of T-Cell Epitope Peptides Involved in Multiple Sclerosis **Brain** 2020, 10, 356; 10(6), 356, 1-16.

7. K. Moschovou, G. Melagraki, **T. Mavromoustakos**, L.C. Zacharia, .A. Afantitis, A. Cheminformatics and virtual screening studies of COMT inhibitors as potential Parkinson's disease therapeutics. **Expert Opinion on Drug Discovery** 15(1), pp. 63-62.

8. C. Gkolfinopoulou, F. Soukou, I. Dafnis, T.F. Kellici, D. Sanoudou, **T. Mavromoustakos**, E. Stratikos, A. Chroni. Structure–function analysis of naturally occurring apolipoprotein A-I L144R, A164S and L178P mutants provides insight on their role on HDL levels and cardiovascular risk. Cellular and Molecular Life Sciences. Article in Press.

9. I. Andreadelis, M.V. Chatziathanasiadou, D. Ntountaniotis, G. Valsami, C. Papaemmanouil, E. Christodoulou, G. Mitropoulou, Y. Kourkouta, A.G. Tzakos, **T. Mavromoustakos**. Charting the structural and thermodynamic determinants in phenolic acid natural product–cyclodextrin encapsulations. **Journal of Biomolecular Structure and Dynamics**. Article in Press.

10. D. Pavlos, **T. Mavromoustakos**. Quercetin and Wine. **Chimica Chronica** 82(5), 8-14 (2020).

11. **T. Mavromoustakos**. The kingdom of God and Heavens. The Voice of **Morphou**, 84, 52-54 (2020).

12. **T. Mavromoustakos**. Forshadowing of God's kingdom. **The Voice of Morphou**, 85, 42-45 (2020).