



# Panagiota Moutevelis-Minakakis

## Associate Professor of Organic Chemistry



### Education

B.Sc. in Chemistry, University of Athens (1976)  
Ph.D. in Chemistry (Organic Chemistry), University of Athens (1983)  
Post Doctoral studies at the Technical University of Zurich (ETH), Department of Biochemistry and Biophysics, Switzerland (1982-83)



### Research Field of Interest

1. Synthesis of compounds with potential pharmacological activity
2. Organic Synthetic Chemistry (Synthetic Methodology)



### Teaching

#### Undergraduate:

Organic Chemistry II (Laboratory training for Chemists)  
Organic Chemistry I (Lecture courses for Chemists)  
Organic Chemistry (Lecture courses for Physicists)

#### Graduate:

Advanced Organic Chemistry  
Special Topics in Organic Chemistry



### Book Authorship

1. Special topics in Advanced Organic Chemistry (in greek, 2006, notes for the students of the General graduate program)
2. Special topics in Advanced Organic Chemistry (in greek, 2003, notes for the students of the Graduate program "Organic Synthesis and Application to the Chemical Industry")
3. Special topics in Heterocyclic Chemistry (in greek, 2007, notes)



### Selected Papers

- 1) "Synthesis of non-natural amino acids based on the ruthenium-catalysed oxidation of a phenyl group to carboxylic acid", **P. Moutevelis-Minakakis**, C. Sinanoglou, V. Loukas, G. Kokotos, *Synthesis*, **6**, 933, 2005.
- 2) "Synthesis of tetrazole analogs of  $\gamma$ - and  $\delta$ -amino acids", **P. Moutevelis-Minakakis**, M. Filippakou, Ch. Sinanoglou and G. Kokotos, *J. Pept. Sci.*, **12**, 377-382, 2006.
- 3) "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 and E. Iliodromitis, *Bioorg. Med. Chem.*, **14**, 4353-4360, 2006.
- 4) "Structure-Activity Relationship of 2-Oxoamide Inhibition of Group IVA Cytosolic Phospholipase A<sub>2</sub> and Group V Secreted Phospholipase A<sub>2</sub>." D. A. Six, E. Barbayianni, V. Loukas, V. Constantinou-Kokotou, D. Hatzipavlou-Littina, D. Stephens, A. C. Wong, V. Magrioti, **P. Moutevelis-Minakakis**, S. F. Baker, E. A. Dennis and G. Kokotos, *J. Med. Chem.*, **50**, 4222-4235, 2007
- 5) "Synthesis of lipophilic 2-oxoamides based on  $\gamma$ -aminobutyric and  $\delta$ -aminovaleric analogues and their activity against phospholipase A<sub>2</sub>." **P. Moutevelis-Minakakis**, A. Neokosmidi, M. Filippakou, D. Stephens, E. A. Dennis and G. Kokotos, *J. Pept. Sci.* **13**, 634-641, 2007.
- 6) "Reduction of pentafluorophenyl esters to the corresponding primary alcohols using sodium borohydride". E Papavassilopoulou, P. Christofis, D. Terzoglou, and **P. Moutevelis-Minakakis**, *Tetrahedron Letters*, **48**, 8323-8325, 2007.
- 7) "Study of the removal of allyl esters by *Candida antarctica* lipase B (CAL-B) and pig liver esterase (PLE)" K. Thodi, E. Barbayianni, I. Fotakopoulou, U. T. Bornscheuer, V. Constantinou-Kokotou, **P. Moutevelis-Minakakis**, G. Kokotos, *Journal of Molecular Catalysis B: Enzymatic*, **61**, 241-246, 2009.
- 8) "Development of accurate binding affinity predictions of novel rennin inhibitors through molecular docking studies" A. Politi, S. Durdagi, **P. Moutevelis-Minakakis**, G. Kokotos, T. Mavromoustakos, *Journal of Molecular Graphics and Modelling*, **29**(3), 425-435, 2010.
- 9) "Synthesis, in silico docking experiments of new 2-pyrrolidinone derivatives and study of their anti-inflammatory activity" **P. Moutevelis-Minakakis**, E. Papavassilopoulou, G. Michas, K. Georgikopoulou, M.E. Ragoussi, N. Neophytou, P. Zoumpoulakis, T. Mavromoustakos, D. Hadjipavlou-Litina, *Bioorg. Med. Chem.* **19**, 2888-2902, 2011



### Contact

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