



Panagiota Moutevelis-Minakakis

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 Fields 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 Biologists)

Graduate:

Advanced Organic Chemistry

Special Topics in Organic Chemistry



Book Authorship

Special topics in Advanced Organic Chemistry (in Greek, 2010, notes for the students of the General graduate program and for the students of the Graduate program "Organic Synthesis and Application to the Chemical Industry").

Special topics in Heterocyclic Chemistry (in Greek, 2007, notes).

Member of the scientific team for translating (Greek) the books "Organic Chemistry" of David Klein (1st edition, Utopia Publishing, Athens, 2015) and "Organic Chemistry" of J. Clayden, N. Greeves and S. Warren (1st edition, Utopia Publishing, Athens, 2017).



Selected Papers

1) "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.

2) "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.
- 3) "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.
- 4) "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.
- 5) "Novel prolinamide-ureas as organocatalysts for the asymmetric aldol reaction" P. Revelou, C. G. Kokotos and **P. Moutevelis-Minakakis**, *Tetrahedron*, **68**, 8732-8738, 2012.
- 6) "Synthesis of new optically active 2-pyrrolidinones" **P. Moutevelis-Minakakis**, E. Papavassilopoulou and T. Mavromoustakos, *Molecules*, **18**, 50-73, 2013.
- 7) "Autotaxin inhibitors: a patent review" E. Barbayianni, V. Magrioti, **P. Moutevelis-Minakakis**, G. Kokotos, *Expert Opin. Ther. Patents*, **23**, 1123-1132, 2013.
- 8) "tert-Butyl esters of tripeptides based on Pro-Phe as organocatalysts for the asymmetric aldol reaction in aqueous or organic medium" A. Psarra, C. G. Kokotos*, **P. Moutevelis-Minakakis***, *Tetrahedron*, **70**, 608-615, 2014.
- 9) "The use of J-coupling as a sole criterion to assign the total absolute stereochemistry of new pyrrolidinone class synthetic analogs, derived from S-pyroglyutamic acid" T. F. Kellici, D. Ntountaniotis, M. Vanioti, S. G. Grdadolnik, M. Simcic, G. Michas, **P. Moutevelis-Minakakis**, T. Mavromoustakos, *Journal of Molecular Structure*, **1129**, 195-199, 2017.
- 10) "Combining prolinamides with 2-pyrrolidinone: Novel organocatalysts for the asymmetric aldol reaction" I. Vlasserou, M. Sfetsa, D.T. Gerokonstantis, C. G. Kokotos*, **P. Moutevelis-Minakakis***, *Tetrahedron*, **74**, 2338-2349, 2018.
- 11) "Proline dipeptides containing fluorine moieties as organocatalysts for the asymmetric aldol reaction" A. Ahmetli, N. Spiliopoulou, A. Magi-Oikonomopoulou, D.T. Gerokonstantis, **P. Moutevelis-Minakakis***, Christoforos G. Kokotos*, *Tetrahedron*, **74**, 5987-5995, 2018.



Contact

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