

Curriculum Vitae

Christos A. Mitsos

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Personal Information

Name: Christos
Surname: Mitsos
Father's name: Aristofanis
Mother's name: Athanasia
Date of birth: November 20, 1973
Place of birth: Athens, Greece
Marital status: Married with one child

Employment history

October 2017 - present **Special Teaching Staff**
University of Thessaly, Department of Biochemistry & Biotechnology

September 2007 - October 2017 **Secondary School Teacher**
Lyceum of Skiathos

March 2004 - April 2006 **Postdoctoral Research Associate**
The Scripps Research Institute, La Jolla, California, USA

March 2003 - February 2004 **Postdoctoral research associate**
Welsh School of Pharmacy, Cardiff University, Cardiff, Wales, UK

Education

March 2004 - April 2006 **The Scripps Research Institute, La Jolla, California, USA**
Postdoctoral Research
Subject: Total synthesis of natural products.
Supervisor: Dr Philippe S. Baran.

March 2003 - February 2004 **Welsh School of Pharmacy, Cardiff University, Cardiff, Wales, UK**
Postdoctoral Research
Subject: Design and synthesis of compound for the treatment of human African trypanosomiasis (sleeping sickness).
Supervisor: Dr Ian H. Gilbert.

1997-2000 National Technical University of Athens, School of Chemical Engineering

PhD in Organic Chemistry

Thesis title: 'Synthetic studies of β -dicarbonyl and β,β' -tricarbonyl heterocyclic derivatives possessing biological activity'.

Supervisor: Dr Olga Igglessi-Markopoulou.

1991-1996 National and Kapodistrian University of Athens, Department of Chemistry

BSc in Chemistry

Diploma thesis title: 'Synthesis and spectroscopic studies of 3-acetyl-4-hydroxyquinolin-2-one and its reactions with acetate salts of transition metals'.

Supervisor: Dr John Markopoulos.

Languages

Greek: Mother tongue.

English: B2 Level (Cambridge First Certificate).

Spanish: B2 Level (DELE Intermedio).

Presentations in international conferences

1. C. Mitsos, A. Zografos, O. Igglessi-Markopoulou, "A new methodology for the synthesis of tetronic acids utilizing novel N-hydroxysuccinimide esters of α -acetoxyacids" (poster presentation). 2nd International Conference of the Chemical Societies of the Southeastern European Countries, June 6-9, 2000, Halkidiki, Greece.
2. C. Mitsos, A. Zografos, O. Igglessi-Markopoulou, "A new simple route to naturally occurring 3-acyl-5-carboxymethyltetronic acids" (poster presentation). 7th Ibn Sina International Conference on Pure and Applied Heterocyclic Chemistry, March 25-28, 2000, Alexandria, Egypt.
3. A. Zografos, C. Mitsos, O. Igglessi-Markopoulou, "One-step synthesis for the preparation of quinoline alkaloid analogues" (poster presentation). 7th Ibn Sina International Conference on Pure and Applied Heterocyclic Chemistry, March 25-28, 2000, Alexandria, Egypt.
4. C. Mitsos, O. Igglessi-Markopoulou, "Synthesis and NMR study of di- and tricarbonyl derivatives of 2-amino-benzoic acids. An efficient route to 3-substituted 4-hydroxyquinolin-2(1H)-ones" (poster presentation). 1st International Conference of the Chemical Societies of the Southeastern European Countries May 30 - June 2, 1998, Halkidiki, Greece.

Publications in peer-reviewed journals

1. Synthesis of 3-substituted 4-hydroxyquinolin-2-ones *via* C-acylation reactions of active methylene compounds with functionalized 3,1-benzoxazin-4-ones.
C. Mitsos, A. Zografos, O. Igglessi-Markopoulou, *Heterocycles* **1999**, 51(7), 1543-1561.
2. A tandem C-acylation-cyclization reaction sequence for the synthesis of new N-acyl-3-substituted 1,8-naphthyridine-2,4-diones.

- A. Zografos, **C. Mitsos**, O. Igglessi-Markopoulou, *Heterocycles* **1999**, *51*(7), 1609-1623.
3. Synthesis, crystal structure and spectroscopic studies of 3-hydrazono- and 3-hydroxyiminoquinolin-2-ones.
C. Mitsos, J. Petrou, O. Igglessi-Markopoulou, J. Markopoulos, *J. Heterocyclic Chem.* **1999**, *36*, 881-887.
 4. One-step synthesis for the preparation of quinoline alkaloid analogues.
A. L. Zografos, **C. A. Mitsos**, O. Igglessi-Markopoulou, *Org. Lett.* **1999**, *1*(12), 1953-1955.
 5. Reactions of N-hydroxysuccinimide esters of anthranilic acids with anions of β -keto esters. A new route to 4-oxo-3-quinolinecarboxylic acid derivatives.
C. Mitsos, A. Zografos, O. Igglessi-Markopoulou, *Chem. Pharm. Bull.* **2000**, *48*(2), 211-214.
 6. Synthesis and NMR spectroscopic studies of novel N-acetyl-3-hydrazonoalkyl tetramic acids.
E. Gavrielatos, **C. Mitsos**, M. Petroligi, J. Markopoulos, O. Igglessi-Markopoulou, *Heterocyclic Commun.* **2000**, *6*(3), 225-230.
 7. Regioselective ring opening of malic acid anhydrides by carbon nucleophiles. Application in the synthesis of chiral tetronic acids.
C. A. Mitsos, A. L. Zografos, O. Igglessi-Markopoulou, *J. Org. Chem.* **2000**, *65*(18), 5852-5853.
 8. Copper(II), cobalt(II), nickel(II) and zinc(II) complexes containing the enolate of N-acetyl-3-butanoyltetramic acid (Habta) and its phenylhydrazone derivative analogues. Crystal structure of $[\text{Cu}(\text{abta})_2(\text{py})_2] \cdot 2\text{H}_2\text{O}$.
E. Gavrielatos, **C. Mitsos**, G. Athanasellis, B. T. Heaton, A. Steiner, J. F. Bickley, O. Igglessi-Markopoulou, J. Markopoulos, *J. Chem. Soc., Dalton Trans.* **2001**, (5), 639-644.
 9. Chemoselective cyclization of amino-nicotinic acid derivatives to 1,8-naphthyridin-2-ones via a potential intramolecular azadiene-ketene electrocyclization reaction.
A. L. Zografos, **C. A. Mitsos**, O. Igglessi-Markopoulou, *J. Org. Chem.* **2001**, *66*(12), 4413-4415.
 10. Synthesis of tetronic acid derivatives from novel active esters of α -hydroxyacids.
C. A. Mitsos, A. L. Zografos, O. Igglessi-Markopoulou, *J. Heterocyclic Chem.* **2002**, *39*, 1201-1205.
 11. An efficient route to 3-aryl substituted quinolin-2-one and 1,8-naphthyridin-2-one derivatives of pharmaceutical interest.
C. A. Mitsos, A. L. Zografos, O. Igglessi-Markopoulou, *J. Org. Chem.* **2003**, *68*(11), 4567-4569.
 12. A novel short-step synthesis of functionalized 4-hydroxy-2-quinolones using a 1-hydroxybenzotriazole methodology.
L. Zikou, G. Athanasellis, A. Detsi, A. Zografos, **C. Mitsos**, O. Igglessi-Markopoulou, *Bull. Chem. Soc. Jpn.* **2004**, *77*, 1505-1508.
 13. A remarkable ring contraction en route to the chartelline alkaloids.
P. S. Baran, R. A. Shenvi, **C. A. Mitsos**, *Angew. Chem., Int. Ed. Eng.* **2005**, *44*, 3714-3717.
 14. Short, enantioselective total synthesis of scep trin and ageliferin by programmed oxaquadracyclane fragmentation.

P. S. Baran, K. Li, D. P. O'Malley, **C. Mitsos**, *Angew. Chem., Int. Ed. Engl.* **2006**, *45*, 249-252.

15. Synthesis and biological evaluation of phosphate prodrugs of 4-phospho-d-erythronohydroxamic acid, an inhibitor of 6-phosphogluconate dehydrogenase.

G. F. Ruda, V. P. Alibu, **C. Mitsos**, O. Bidet, M. Kaiser, R. Brun, M. P. Barrett, I. H. Gilbert, *ChemMedChem* **2007**, *2*, 1169-1180.