

## ***Curriculum Vitae***

**Christos A. Mitsos**

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**Home address:** Mpoumpoulinas 14,  
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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:* Divorced - 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  $\beta$ -dicarbonyl and  $\beta,\beta'$ -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:* Native language.

*English:* B2 Level (Cambridge First Certificate).

*Spanish:* B2 Level (DELE Intermedio).

**Presentations in international conferences**

1. A new methodology for the synthesis of tetronic acids utilizing novel N-hydroxysuccinimide esters of  $\alpha$ -acetoxyacids (poster presentation). C. Mitsos, A. Zografos, O. Igglessi-Markopoulou, 2<sup>nd</sup> International Conference of the Chemical Societies of the Southeastern European Countries, June 6-9, 2000, Halkidiki, Greece.
2. A new simple route to naturally occurring 3-acyl-5-carboxymethyltetronic acids (poster presentation). C. Mitsos, A. Zografos, O. Igglessi-Markopoulou, 7<sup>th</sup> Ibn Sina International Conference on Pure and Applied Heterocyclic Chemistry, March 25-28, 2000, Alexandria, Egypt.
3. One-step synthesis for the preparation of quinoline alkaloid analogues (poster presentation). A. Zografos, C. Mitsos, O. Igglessi-Markopoulou, 7<sup>th</sup> Ibn Sina International Conference on Pure and Applied Heterocyclic Chemistry, March 25-28, 2000, Alexandria, Egypt.
4. Synthesis and NMR study of di- and tricarbonyl derivatives of 2-amino-benzoic acids. An efficient route to 3-substituted 4-hydroxy-quinolin-2(1H)-ones (poster presentation). C. Mitsos, O. Igglessi-Markopoulou, 1<sup>st</sup> 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  $\beta$ -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 [Cu(abta)<sub>2</sub>(py)<sub>2</sub>]-2H<sub>2</sub>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  $\alpha$ -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 sceptrin and ageliferin by programmed oxaquadracyclane fragmentation. P. S. Baran, K. Li, D. P. O'Malley, C. Mitsos, *Angew. Chem., Int. Ed. Eng.* **2006**, *45*, 249-252.
15. Synthesis and biological evaluation of phosphate prodrugs of 4-phospho-d-erythronhydroxamic 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.
16. Polyfunctionalized Pyrrole Derivatives: Easy Three-component Microwave-assisted Synthesis, Cytostatic and Antiviral Evaluation. S. Manta, N. Tzioumaki, N. Kollatos, P. Andrea, M. Margaritouli, A. Panagiotopoulou, I. Papanastasiou, C. Mitsos, A. Tsotinis, D. Schols, D. Komiotis. *Curr. Microw. Chem.* **2018**, *5(1)*, 23-31.
17. Design, Synthesis, and Biological Evaluation of Novel C5-Modified Pyrimidine Ribofuranonucleosides as Potential Antitumor or/and Antiviral Agents. N. Kollatos, C.

Mitsos, S. Manta, N. Tzioumaki, C. Giannakas, T. Alexouli, A. Panagiotopoulou, D. Schols, G. Andrei, D. Komiotis. *Med. Chem.* DOI: 10.2174/1573406415666190225112950.