

CURRICULUM VITAE

Petros L. Gkizis

Birth Date: 19/2/1978

Vikopoulou 3 str.

Thessaloniki, P.C. 54645, Greece

Phone number: 0030-2310-828685

Cell phone: 0030-6944-366279

email: pgkizis@chem.auth.gr , pgkizis@yahoo.gr

WORKING EXPERIENCE

- 9/2017- Present** *Adjunct Lecturer*, Department of Chemistry, Aristotle University of Thessaloniki.
- 4/2015- Present** *Principal Research Scientist & Technology Transfer Research Scientist* at Pharmathen Pharmaceutical S.A.
- 3/2014-4/2015** *Intellectual Property Officer* at Pharmathen Pharmaceutical S.A.

EDUCATION

- 10/2012-4/2014** *Post-doctoral Fellow*, Aristotle University of Thessaloniki
ERC-Grant “MESOPOROUS – NPs” «Periodically Order Mesoporous Metal and Metal-Oxide Nanoparticle Assemblies for Catalytic and Gas Separation Applications (ERC-09)» Prof. G. Armatas, Dr. I. Lykakis.
- 10/2006-3/2012***: *PhD*, Aristotle University of Thessaloniki
Supervisor: Associate Professor Nicolaos Argyropoulos
PhD Thesis: «*Synthesis of aza-compounds with possible biological activity*»
- (*2009-2010: Interruption for the mandatory national service in the Greek army)
- 2003-2006:** *MSc*, Aristotle University of Thessaloniki
Supervisor: Associate Professor Nicolaos Argyropoulos
MSc Thesis: «*Synthesis of pyrrolizidines and aza-C-disaccharides via 1,3-dipolar cycloaddition* »
- 1997-2003:** *Degree in Chemistry*, Aristotle University of Thessaloniki

LANGUAGES

- English* Excellent
- French* Excellent
- Greek* Mother Language

SCHOLARSHIPS - FUNDING

- 2013** Excellence Scholarships – Awards of Excellence and Innovation of the Research Committee of AUTH.
- 2013** COST Funding for participation in 6th European Young Investigator Conference, Slubice 2013

2014 COST Funding for participation in International Conference on Hydrogen Atom Transfer, Rome June 2014

TEACHING EXPERIENCE

- 9/2018-Present Teaching of Organic Chemistry Class (8th semester) “*Organic structure determination*” Department of Chemistry, Aristotle University of Thessaloniki.
- 9/2018- Present Teaching of Organic Chemistry Class (8th semester) “*Chemistry of Natural Products*” Department of Chemistry, Aristotle University of Thessaloniki.
- 9/2017-Present Teaching of Organic Chemistry Class (7th semester) “*Chemistry of Heterocyclic compounds*” Department of Chemistry, Aristotle University of Thessaloniki.
- 9/2014-6/2015 Teaching assistance of “*Organic Chemistry*” Department of Biochemistry and Biotechnology, University of Thessaly.
- 3/2005-6/2008 Teaching assistance of “*General Experimental Organic Chemistry I and II*” Department of Chemistry, Aristotle University of Thessaloniki.

ORAL PRESENTATIONS

1. Aristotle University of Thessaloniki, Thessaloniki, June 28th 2006. (Master Thesis). «*Synthesis of pyrrolizidines and aza-C-disaccharides via 1.3-dipolar cycloaddition* »
2. Institut de Science et d'Ingénierie Supramoléculaires, Strasbourg, March 22nd 2011 “*Synthetic approaches towards stereocontrolled synthesis of azasugars derivatives*”
3. 21th Hellenic Conference in Chemistry, Thessaloniki 2012, December 10th 2011 “*Total synthesis of Hyacinthacine A₂, and other non-natural Hyacinthacines*”
4. Aristotle University of Thessaloniki, Thessaloniki, March 13th 2012. (Ph.D Thesis). “*Synthesis of azacompounds sugar derivatives with possible biological activity*”
5. 6th European Young Investigator Conference, Slubice 2013, June 30th 2013 “*Organic transformation catalysed by supported gold nanoparticles: Chemoselective reduction of nitro compounds to amines*”
6. Chemical Libraries as a solid ground for Economic and Research Development, Seminar, Thessaloniki 2019, October 4th 2019 “*Potential Contribution of generic API industry in chemical library*”

PUBLICATIONS

16. “(Chloromethyl)dimethylchlorosilane-KF: A Two-step solution to the selectivity problem in the methylation of a pyrimidone intermediate en route to Raltegravir”
C. I. Stathakis, P. L. Gkizis, E. S. Alexandraki, S. Trakossas, M. Terzidis, E. Neokosmidis, C. K. Zacharis, C. Vasiliadou, E. Vastardi, T. Andreou, A. Zitrou, A. A. Varvogli, T. V. Koftis, *Organic Process Research & Development*, 2017, 21 (9), 1413-1418.

15. "Metal-catalysed cycloisomerization as a powerful tool in the synthesis of complex sesquiterpenoids"
C. I. Stathakis, P. L. Gkizis, A. L. Zografos, *Natural Product Reports*, **2016**, 33, 1093-1117.
14. "In vitro study of furazano[3,4-b]quinoxaline 1-oxides as potential NO releasing agents"
K. I. Stoitsis, P. Gkizis, E. Basgiouraki, J. K. Gallos, D. Hadjipavlou-Litina, *Letters in Drug Design & Discovery*, **2016**, 13, 418-421.
13. "Titania-supported gold nanoparticles catalyze the selective oxidation of amines into nitroso compounds in the presence of hydrogen peroxide"
S. Fountoulaki, P. L. Gkizis, T. S. Symeonidis, E. Kaminioti, A. Karina, I. Tamiolakis, G. S. Armatas, I. N. Lykakis, *Adv. Synth. Catal.*, **2016**, 358, 1500-1508.
12. "N-substituted pyrrole-based scaffolds as potential anticancer and antiviral lead structures."
K. Pegklidou, N. Papastavrou, P. Gkizis, D. Komiotis, J. Balzarini and I. Nicolaou. *Medicinal Chemistry*, **2015**, 11, 602-608.
11. "Synthesis of novel thiopurine pyranonucleosides: Evaluation of their bioactivity"
A. Dimopoulou, S. Manta, V. Parmenopoulou, P. Gkizis, E. Coutouli-Argyropoulou, D. Schols, D. Komiotis, *Nucleosides, Nucleotides and Nucleic Acids.*, **2015**, 34, 289-308.
10. "Efficient and selective oxidation of aromatic amines into nitrosoarenes catalyzed by supported polyoxometalates."
P. L. Gkizis, I. Kalara-Lafkioti, D. Varelas, I. Tamiolakis, G. S. Armatas and I. N. Lykakis. *Biointerface Research in Applied Chemistry*, **2014**, 4, 857-860.
9. "Mechanistic studies in the reduction of nitro arenes by NaBH₄ or hydrosilanes catalyzed by supported gold nanoparticles."
S. Fountoulaki, V. Daikopoulou, P. L. Gkizis, I. Tamiolakis, G. S. Armatas and I. N. Lykakis. *ACS Catalysis.*, **2014**, 4, 3504-3511.
8. "A novel and easy two-step microwave-assisted method for the synthesis of halogenophenyl pyrrolo[2,3-b]quinoxalines via their pyrrolo precursors. Evaluation of their bioactivity."
S. Manta, D. Gkaragkouni, E. Kaffesaki, P. Gkizis, D. Hadjipavlou-Litina, E. Pontiki, J. Balzarini, W. Dehaen, D. Komiotis. *Tetrahedron Letters*, **2014**, 55, 1873-1876.
7. "Stereoselective facile synthesis of 2'-spiro pyrimidine pyranonucleosides via their key intermediate 2'-C-cyano analogues. Evaluation of their bioactivity."
C. Kiritsis, S. Manta, A. Dimopoulou, V. Parmenopoulou, P. Gkizis, J. Balzarini, D. Komiotis. *Carbohydr. Res.*, **2014**, 383, 50-57.
6. "A sort synthesis of polyhydroxylated pyrrolizidines via sequential 1,3-dipolar cycloaddition and reductive amination"
P. L. Gkizis, N. G. Argyropoulos, E. Coutouli-Argyropoulou, *Tetrahedron*, **2013**, 69, 8921-8928.

5. "Catalytic Activation of Hydrazine Hydrate by Gold Nanoparticles: Chemoselective Reduction of Nitro Compounds into Amines"
P. L. Gkizis, M. Stratakis, I. N. Lykakis, *Catal. Commun.*, **2013**, 36, 48-51.
4. "Aggregation of Hydrogen Bonded Dimeric Tri-Organotin Amino Substituted Pyrimidine-2-Thiolates"
A. Ioannidou, A. Czapik, P. Gkizis, M. Perviaz, D. Tzimopoulos, M. Gdaniec and P. D. Akrivos, *Aust. J. Chem.* **2013**, 66 (5), 600-606.
3. "Water as the medium of choice for the 1,3-dipolar cycloaddition reactions of hydrophobic nitrones"
E. Coutouli-Argyropoulou, P. Sarridis, P. Gkizis, *Green Chem.* **2009**, 11, 1906-1914.
2. "A convenient synthesis of new enantiomerically pure trihydroxypyrrolizidines using l-erythrose glycosylhydroxylamine as a masked acyclic chiral nitrone"
N. G. Argyropoulos, P. L. Gkizis, E. Coutouli-Argyropoulou, *Tetrahedron*, **2008**, 64, 8752-8758.
1. "Synthesis of new aza-C-disaccharides using cycloaddition reaction of five member chiral cyclic nitrones to alkenes derived from glucose and galactose"
N. G. Argyropoulos, E. Coutouli-Argyropoulou, P. Gkizis, *ARKIVOC*, **2008**, (xvi), 223-234.

PATENTS

5. WO2019242889 "A one-pot organo-pseudocatalytic C-H activation approach for the preparation of Vortioxetine and Vortioxetine intermediate" T. V. Koftis, E. Neokosmidis, T. Andreou, P. L. Gkizis, A. Lithadioti, **2019**.
4. WO2019238267 "A novel process for the preparation Tapentadol" T. V. Koftis, E. Neokosmidis, C. I. Stathakis, P. L. Gkizis, T. Panagiotidis, **2019**.
3. WO2017220208 "Process for preparing compounds useful as intermediates for the preparation of Raltegravir" T. V. Koftis, E. Neokosmidis, T. Andreou, C. I. Stathakis, P. L. Gkizis, E. S. Alexandraki, S. Trakossas, M. Terzidis, A. Lithadioti, T. Tsatsas, T. Panagiotidis, A. A. Varvogli, **2017**.
2. WO2016134854 "Novel methods for the preparation of Topiroxostat and intermediates thereof" T. V. Koftis, E. Neokosmidis, T. Andreou, C. I. Stathakis, P. L. Gkizis, **2016**.
1. GR1008653B "Novel synthesis of piperonal" A. A. Varvogli, P. L. Gkizis, **2016**.

PARTICIPATION IN CONFERENCES

1. 8th Hellenic- Cyprus Conference in Chemistry, Thessaloniki **2004**.
2. International Symposium on Chemistry Biology and Medicine, Cyprus, June **2006**.
3. 8th Conference of Medicinal Chemistry "MEDICINAL CHEMISTRY: Drug Discovery and Design Patra **2007**.
4. 2nd Greek Symposium in Green Chemistry, Patra **2007**.
5. 2nd Symposium in Organic Chemistry, Athens **2007**.
6. 10th Hellenic- Cyprus Conference in Chemistry, Crete **2009**.
7. 14th Hellenic Symposium on Medicinal Chemistry, Thessaloniki **2010**.

8. 12th Conference of Medicinal Chemistry “MEDICINAL CHEMISTRY: Drug Discovery and Design Patra **2011**.
9. 21st Hellenic Conference in Chemistry, Thessaloniki **2011**.
10. 6th European Young Investigator Conference, Slubice 2013, June 30th **2013**
11. International Conference Hydrogen Atom Transfer, Rome 2014, June 22th **2014**
12. 21st European Symposium of Organic Chemistry, Vienna 2019, July 14th **2019**
13. Chemical Libraries as a solid ground for Economic and Research Development, Seminar Thessaloniki 2019, October 4th **2019**

POSTER PRESENTATIONS

1. “Convenient synthesis of sugar mimics via 1,3-dipolar cycloaddition of chiral nitrones”
P. L. Gkizis, N. G. Argyropoulos, E. Coutouli-Argyropoulou, A. Tauchert, V. Sarli, *8th Hellenic- Cyprus Conference in Chemistry, Thessaloniki 2004*.
2. “Synthesis of azasugar and aza-C-disaccharide derivatives via 1,3-dipolar cycloadditions of chiral nitrones”
P. L. Gkizis, N. G. Argyropoulos, *International Symposium on Chemistry Biology and Medicine, Cyprus, June 2006*.
3. “1,3-Dipolar Cycloaddition of chiral nitrones with alkenes. Application to the synthesis of azasugar derivatives”
N. G. Argyropoulos, E. Coutouli-Argyropoulou, P. L. Gkizis, *4th Eurasian Meeting on Heterocyclic Chemistry, Thessaloniki 2006*.
4. “Synthetic studies towards azasugar derivatives via 1,3-dipolar cycloaddition of chiral nitrones with alkenes”
N. G. Argyropoulos, E. Coutouli-Argyropoulou, P. L. Gkizis, *5th International Conference of the Chemical Societies of the South- East European Countries, Ohrid 2006*.
5. “Water as the medium of choice for the 1,3-dipolar cycloaddition reactions of hydrophobic nitrones”
E. Coutouli-Argyropoulou, P. Sarridis, P. Gkizis, N. G. Argyropoulos, *2nd Greek Symposium in Green Chemistry, Patra 2007*.
6. “Stereoselective Synthesis of 7-epi-omocascarine azasugars via 1,3-dipolar cycloadditions of chiral nitrones”
N. G. Argyropoulos, E. Coutouli-Argyropoulou, P. L. Gkizis, *10th Hellenic- Cyprus Conference in Chemistry, Crete 2009*.
7. “Synthesis of indolizidines via 1,3-dipolar cycloadditions and RCM”
N. G. Argyropoulos, E. Coutouli-Argyropoulou, P. L. Gkizis, *10th Hellenic- Cyprus Conference in Chemistry, Crete 2009*.
8. “Synthesis of pyrrolizidines via 1,3-dipolar cycloadditions combined with reductive amination”
P. L. Gkizis, N. G. Argyropoulos, E. Coutouli-Argyropoulou, *12th Conference of Medicinal Chemistry, Patra 2011*.

9. *“Reaction of nitrones towards alkynes: Formation of double product in 1.3-dipolar cycloaddition”*

D. Koiou, P. L. Gkizis, E. Coutouli-Argyropoulou, *21th Hellenic Conference in Chemistry, Thessaloniki 2011.*