

Curriculum vitae

Name: Evangelos Gikas
Date of Birth: 18 August 1968
Contact address: National and Kapodistrian University of Athens
Panepistimiopolis, Zografou
Tel.: +30 210 7274819
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Education

1988-1993 University of Patras, School of Pharmacy, B.Sc. Pharmacy
1996 Pharmacist license
1996-2000 National and Kapodistrian University of Athens, Pharmacy Department,
Division of Pharmaceutical Chemistry, Phd Thesis : Synthesis of new
fluorescent probes and application in pharmaceutical analysis thereof

Military service as pharmacist

Languages

English (fluently – proficiency level)

Greek (native)

Research experience

1994-2000 University of Athens, Pharmacy Department, Pharmaceutical Chemistry Division
PhD thesis.

1994-1997 University of Athens, Pharmacy Department, Pharmaceutical Chemistry Division
Kinetic of the chemical stability of 1,4-benzodiazepines.

1994-1995 National Technical University of Athens, Researcher migration of Plasticizers in
Pharmaceutical Packaging

1999-2009 Goulandris Natural History Museum. GAIA Research Center, Development of
mass spectrometric techniques, Development of bioanalytical methods based on

chromatography mass spectrometry, Study of reaction mechanisms using mass spectrometry, Bioavailability Studies, Advanced chemometrics and Design of Experiments, Metabonomics
2006-2007 Lecturer 407 – University of Patras, Pharmacy Department, Instrumental Pharmaceutical Analysis

2009- Lecturer National and Kapodistrian University of Athens, Pharmacy Department, Division of Pharmaceutical Chemistry teaching Pharmaceutical in graduate and post graduate level

Research Interests

Development of bioanalytical Methods employing state of the art techniques such as hyphenated chromatography mass spectrometry (HPLC, UPLC, GC, MS and MSⁿ, using single and triple quadrupole MS, ion traps, QqTof, orbitrap)

Elucidation of mass spectrometric reaction mechanism

Molecular modeling employing ab-initio, DFT, CASSE calculations

Metabonomics

Chemometrics and multivariate analytical methods.

Research programs

Participated in more than 10 research programs.

Μέλος Επιστημονικών Εταιριών

Panhellenic Society of Pharmacists

Μέλος της Royal Society of Chemistry

Greek Mass Spectrometry Society

Referee

Talanta

Analytica Chimica Acta

Chromatographia

Chromatography Research International

Peer review articles

1. Kinetics and Mechanism of Acidic Hydrolysis of Nordazepam studied by High-Performance Liquid Chromatography and Fourth-Order Derivative Ultraviolet

Spectrophotometry. H. A. Archontaki, E. E. Gikas, I. E. Panderi and P. Ovezikoglou *Int. J. Pharmaceutics*, 167, 69-81, **1998**.

2. Kinetic Study on the Degradation of Prazepam in Acidic Aqueous Solutions by High Performance Liquid Chromatography and Fourth-Order Derivative. H. A. Archontaki, I. E. Panderi, E. E. Gikas, and M. Parissi-poulou *J. Pharm. Biomed. Anal.*, 17, 739-750, **1998**.

3. Kinetic investigation on the degradation of lorazepam in acidic aqueous solution by high-performance liquid chromatography. Panderi, H.Archontaki, E.Gikas, and M. Parissi-Poulou. *J. Liq. Chromatogr.*, 21(12), 1783-1795, **1998**.

4. Acidic Hydrolysis of Bromazepam studied by High-Performance Liquid Chromatography. Isolation and Identification of Degradation Products.Panderi, H. Archontaki, E. Gikas and M. Parissi-Poulou. *J. Pharm. and Biomed. Analysis*, 17, 327-335, **1998**.

5. Kinetic investigation on the degradation of lorazepam by a zero-crossing first-order derivative UV-spectrophotometric technique. H. A. Archontaki*, K. Atamian, I. E. Panderi and E. E. Gikas. *Talanta*, 48, 685-693, **1999**.

6. Composition and antimicrobial activity of the essential oils of five taxa of Sideritis from Greece N. Allgiannis, E. Kalpoutzakis, I. B. Chinou, S. Mitakou, E. Gikas, A. Tsarbopoulos *Journal of Food and Agricultural chemistry* 49(2), 811-815, **2001**

7. A new Fluorogenic Reagent for labeling carboxylic acids in HPLC, E. Gikas*, M. Derventi, I. Panderi, A. Vavayannis, M. Kazanis and M. Parissi-Poulou, *J. Liq. Chromatogr. & Relat. Technol.* 25(3), 381-395, **2002**.

8. Determination of Valproic Acid in Human Plasma by HPLC with Fluorescence detection. S. Rompotis, M. Parissi-Poulou, E. Gikas, M. Kazanis, A. Vavayannis and I. Panderi*. *J. Liq. Chromatogr.* 25(18), 2833-2847, **2002**.

9. A new coumarin based fluorogenic derivatization reagent for labeling free carboxyl groups (Br-MOZC) Evangelos Gikas*, Maria Parissi-Poulou, Michael Kazanis, Andreas Vavagiannis *Journal of Liquid Chromatography and Related Technologies* 26 (3), 385-400 **2003**

10. Simultaneous determination of oleuropein and its metabolites in plasma by high-performance liquid chromatography Anthony Tsarbopoulos*, Evangelos Gikas, Nicolaos Papadopoulos, Nektarios Aliagiannis, Anthony Kafatos *Journal of chromatography B*, 785, 157-164, **2003**

11. BrMOZPHC, a novel coumarin type reagent for the fluorescent derivatization of carboxylic acids Evangelos Gikas*, Maria Parissi-Poulou, Michael Kazanis, Andreas Vavagiannis *Analytica Chimica Acta* 489, 153-163 **2003**

12. Antitumor activity of imidazothioxanthenes in murine and human tumor models in vitro and in vivo Varvaresou, K. Iakovou, E. Gikas, I. Fichtner, H.H. Fiebig, L.R. Kelland, J.A. Double, M.C. Ribby, H.R. Hendricks *Anticancer Research* 24 (2), 907-920, **2004**

13. Development of a rapid and sensitive SPE-LC-ESI MS/MS method for the determination of chloramphenicol in seafood. Evangelos Gikas, Pigi Kormali, Despina Tsipi and Anthony Tsarbopoulos* *J. Agric. Food Chem.* 52, 1025-1030, **2004**.

14. **“New Facile Synthesis of 7-Hydroxy-6-amino-4-substituted Benzopyran-2-ones”** Gikas Evangelos, Parissi-Poulou Maria, Kazanis Michael and Vavagianis Andreas *Synthetic Communications* 34 (22), 4233–4242, **2004**
15. **“MOZPhCSE a new coumarin based fluorescent derivatization reagent”** E. Gikas, M. Parissi-Poulou, M. Kazanis, A. Vavagiannis, *J. Liq. Chromatogr.*, 27 (14), 2699-2713, **2005**
16. **“Properties of a new fluorescent coumarin derivatization reagent employing molecular modelling techniques”** Evangelos Gikas, Maria Parissi-Poulou, Michael Kazanis and Andreas Vavagiannis *Journal of Molecular Structure:Theochem* 724, 135–142. **2005**
17. **“Quantitation of Oleuropein and related metabolites in decoctions of Olea europaea leaves from ten Greek cultivated varieties by high performance liquid chromatography with diode array detection (HPLC-DAD)”** Agalias, E. Melliou, P. Magiatis, S. Mitaku, E. Gikas and A. Tsarbopoulos, *J. Liq. Chromatogr.*, 28, 1557-1571, **2005**
18. **“Development of a Sensitive and Specific SPE-GC-MS/MS Method for the Determination of Elenolic Acid, Hydroxytyrosol and Tyrosol in Rat Urine”** F.N. Bazoti, E. Gikas, C. Puel, V. Coxam and A. Tsarbopoulos, *J. Agr. Food Chem.*, 53, 6213-6221, **2005**.
19. **“Gas Chromatographic-Tandem Mass Spectrometric Method for the Quantitation of Carbofuran, Carbaryl and their Main Metabolites in Applicators’ Urine”** S.S. Petropoulou, E. Gikas, A. Tsarbopoulos and P. Siskos *J. Chromatogr. A*, 1108, 99-110, **2006**.
20. **“Kinetic Study of the Acidic Hydrolysis of Oleuropein the Major Bioactive Metabolite of Olive Oil”** E. Gikas, N. Papadopoulos, A. Tsarbopoulos *J. Liq. Chromatogr. Realt. Technol.*, 29(4), 497-508, **2006**
21. **“Development of a Liquid Chromatography Electrospray Tandem Mass Spectrometry (LC-ESI MS/MS) Method for the Quantification of Bioactive Substances present in Olive Oil Mill Waste Waters”** F.N. Bazoti, E. Gikas, L. Skaltsounis and A. Tsarbopoulos, *Anal. Chim. Acta*, 573-574, 258-266, **2006**
22. **“Development and validation of a reversed-phase ion-pair liquid chromatography method for the determination of magnesium ascorbyl phosphate and melatonin in cosmetic creams”** Athanasia Varvaresou, Efthimios Tsirivas, Kritonas Iakovou, Evangelos Gikas, Zaxarias Papatthomas, Ariadni Vonaparti, Irene Panderi *Anal. Chim. Acta*, 573–574, 284–290, **2006**
23. **“A New Process for the Management of Olive Oil Mill Waste Water and Recovery of Natural Antioxidants”** A. Agalias, P. Magiatis, A.L. Skaltsounis, E. Mikros, A. Tsarbopoulos, E. Gikas, I. Spanos and T. Manios, *J. Agr. Food Chem.*, 55(7), 2671-2676, **2007**.
24. **“Determination of nateglinide in human plasma by high-performance liquid chromatography with pre-column derivatization using a coumarin-type fluorescent reagent”** Danai Malli, Evangelos Gikas, Andreas Vavagiannis, Michael Kazanis, Konstantinos Daniilides, Dimitra Gennimata, Irene Panderi *Anal. Chim. Acta*, 599, 143–150, **2007**
25. **“Simultaneous Determination of Terbutylazine and its Major Hydroxy and Dealkylated Metabolites in Wetland Water Samples Using Solid Phase Extraction and High Performance Liquid Chromatography with Diode-array Detection”** N. Papadopoulos, E. Gikas, G. Zalidis and A. Tsarbopoulos *J. Agr. Food Chem.*, 55, 7270-7277, **2007**.

26. **“Conformational Analysis of Oleuropein: the Major Bioactive Compound of *Olea Europea*”** E. Gikas, F.N. Bazoti and A. Tsarbopoulos *Journal of Molecular Structure: Theochem*, 821, 125–132, **2007**.
27. **. Simultaneous quantification of daptomycin and rifampicin in plasma by ultra performance liquid chromatography: Application to a pharmacokinetic study** Gikas, E., Bazoti, F.N., Fanourgiakis, P., Perivolioti, E., Roussidis, A., Skoutelis, A., Tsarbopoulos, A. *Journal of Pharmaceutical and Biomedical Analysis* 51 (4), pp. 901-906, **2010**
28. **. Simultaneous determination of herbicide terbuthylazine and its major hydroxy and dealkylated metabolites in typha latifolia L. Wetland plant using SPE and HPLC-DAD** Papadopoulos, N., Gikas, E., Zalidis, G., Tsarbopoulos, A. *Journal of Liquid Chromatography and Related Technologies* 32 (20), pp. 2975-2992, **2009**
29. **Selective and rapid liquid chromatography/negative-ion electrospray ionization mass spectrometry method for the quantification of valacyclovir and its metabolite in human plasma** Kasiari, M., Gikas, E., Georgakakou, S., Kazanis, M., Panderi, I. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences* 864 (1-2), pp. 78-86, **2008**
30. **Determination of isoflavones in the aerial part of red clover by HPLC-diode array detection** Gikas, E., Alesta, A., Economou, G., Karamanos, A., Tsarbopoulos, A. *Journal of Liquid Chromatography and Related Technologies* 31 (8), pp. 1181-1194, **2008**
31. **Daptomycin Use in a Neonate: Serum Level Monitoring and Outcome** Sarafidis K, Iosifidis E, Gikas E, Tsivitanidou M, Drossou-Agakidou V, Roilides E. *Am. J. Perinatol* [Epub ahead of print]
32. **Identification of Throuba Thassos, a traditional Greek table olive variety, as a nutritional rich source of oleuropein.** Zoidou E, Melliou E, Gikas E, Tsarbopoulos A, Magiatis P, Skaltsounis AL. *J Agric Food Chem.* 13;58(1):46-50, **2010**
33. **Simultaneous quantification of oleuropein and its metabolites in rat plasma by liquid chromatography electrospray ionization tandem mass spectrometry.** Bazoti FN, Gikas E, Tsarbopoulos A. *Biomedical Chromatography* 24(5), 2010, 506-515
34. **Development and validation of a UPLC-UV method for the determination of daptomycin in rabbit plasma.** Gikas E, Bazoti FN, Fanourgiakis P, Perivolioti E, Roussidis A, Skoutelis A, Tsarbopoulos A. *Biomed Chromatogr.* 2009 24(5), 2010, 522-527
35. **Simultaneous quantification of daptomycin and rifampicin in plasma by ultra performance liquid chromatography: Application to a pharmacokinetic study** Gikas, E., Bazoti, F.N., Fanourgiakis, P., Perivolioti, E., Roussidis, A., Skoutelis, A., Tsarbopoulos, A. *Journal of Pharmaceutical and Biomedical Analysis* 51(4), 2010, 901-906
36. **Quantitation of the flavonols quercetin and kaempferol in the leaves of *Trigonella foenum-graecum* by high-performance liquid chromatography – diode array detection.** E.Gikas, F.N. Bazoti, N. Papadopoulos, A. Alesta, G. Economou and A. Tsarbopoulos *Analytical Letters* in press
37. **"Determination of herbicide Terbuthylazine and Its Major Hydroxy and Dealkylated Metabolites in Constructed Wetland Sediments Using Solid Phase Extraction and High Performance Liquid Chromatography-Diode Array Detection"**

Papadopoulos, N., Gikas, E., Zalidis, G., Tsarbopoulos, A. International Journal of Environmental Analytical Chemistry in press

38. “Φωτοχημεία των κουμαρινών” Ευάγγελος Γκίκας, Μαρία Παρίση-Πούλου, Ανδρέας Βαβαγιάννης, Μιχάλης Καζάνης *Φαρμακευτική*, 19 (III), 57-67, **2006**.

Participation in international conferences

1. Migration problems in pharmaceutical packaging

Giagoudakis G., Gikas E., Kartsona C., Portolos J., Tigas E., Papaspyrides C.D.

1st International meeting on scientific basis of modern pharmacy, Athens, June 8-11, 1994
(European Journal of Drug Metabolism and Pharmacokinetics 19(2) 1994)

2. Analysis of antibiotic residues in food: Determination of chloramphenicol in seafood by HPLC-tandem mass spectrometry.

Tsipi, D.; Kormali, P.; Gikas, E.; Garbis, S.; Tsarbopoulos, A.

8th FECS Conference on Chemistry and the Environment, Athens, Greece, September 2002.

3. Development of a Rapid and Sensitive SPE-LC-ESI MS/MS Method for the Determination of Chloramphenicol in Seafood

Despina Tsipi, Pigi Kormali, Evangelos Gikas, Anthony Tsarbopoulos

51st ASMS Conference on Mass Spectrometry Montreal, Canada, June 8 - 12, 2003

4. Detection and quantitation of olive oil bioactive substances in biological fluids using tandem MS-based techniques

E. Gikas, Fay Bazoti, Alexios Skaltsounis, Veronique Coxam, Anthony Tsarbopoulos

16th International Mass Spectrometry Conference IMSC, 29 August 5 September 2003

5. Analysis of phenicol antibiotic residues in food by HPLC-ESI MS/MS. Improved quantitation and accurate mass measurement using a triple quadrupole mass spectrometer

E. Gikas, Despina Tsipi, Pigi Kormali, John Hicks, Mark Churchill, Gary Woffendin, Anthony Tsarbopoulos

16th International Mass Spectrometry Conference IMSC, 29 August 5 September 2003

6. Biodiversity of the flora of Crete source of lead compounds for the development of new pharmaceuticals.

Harvala A, Skaltsounis A.L, Mitaku S, Chinou I, Magiatis P, Aligiannis N., Kalpoutzakis E., Melliou E., Paraschos S., Tsarbopoulos A., Gikas E., Papadopoulos N.

Biodiversity the effects on health and nutrition. GAIA Center, 12 December 2001, Athens.

7. Endocrine disruptors: an overview.

Tsarbopoulos A, Gikas E, Papadopoulos N.

Biodiversity the effects on health and nutrition. GAIA Center, 12 December 2001, Athens.

8. Comparative kinetic study on the degradation of prazepam by high-performance liquid chromatography and fourth-order derivative spectrophotometry

Archontaki E., Panderi I., Gikas E., Kolovos D., Parissi-Poulou M.

EuroAnalysis, Bologna, Italy, September 1-7, 1996.

- 9. Kinetics and mechanism of acidic hydrolysis of 1,4-benzodiazepines studied by high-performance liquid chromatography and derivative ultraviolet spectrophotometry.**
Archontaki H.A., Panderi I.E., Gikas E.E., and Parissi- Poulou M.
6th International Symposium on Kinetics in Analytical Chemistry, Kassandra, Chalkidiki, Greece, 16 - 18 September 1998.
- 10. Study of protein modifications and protein interaction by mass spectrometry**
Tsarbopoulos A., Gikas E., Pramanick B.N.,
3rd Hellenic Forum on Bioactive Peptides, Patras, 11-14 April 2002
- 11. Quantification of Polyphenols and Secoiridoids in Decoctions of Olea Europea leaves from Ten Greek Varieties**
E. Melliou, P. Magiatis, E. Gikas, A. Tsarbopoulos and A.L. Skaltsounis,
AFERP Meeting, Athens, Greece, September 19-20, 2002.
- 12. Composition and Antibacterial activity of the Essential oils of six taxa of sideritis from Greece**
N. Aligiannis, E. Kalpoutzakis, A.L. Skaltsounis, E. Gikas, I.B. Chinou, S. Mitakou and A. Tsarbopoulos,
48th International Meeting of the Society for Medicinal Plant Research, Zurich, Switzerland, September 3-7, 2000.
- 13. Structural Identification and Bioavailability of Natural Antioxidants from Olive Oil**
A.L. Skaltsounis, P. Magiatis, E. Gikas, and A. Tsarbopoulos,
3rd International Symposium on Chromatography of Natural Products, Lublin, Poland, June 12-15, 2002.
- 14. Quantification of Polyphenols and Secoiridoids in Decoctions of Olea Europea leaves from Ten Greek Varieties**
E. Melliou, P. Magiatis, E. Gikas, A. Tsarbopoulos and A.L. Skaltsounis,
AFERP Meeting, Athens, Greece, September 19-20, 2002.
- 15. Bioavailability Study of Olive Tree Bioactive Substances in Biological Fluids by Mass Spectrometric Techniques Aiming at the Evaluation of their Role on Human Health**
F.N. Bazoti, E. Gikas and A. Tsarbopoulos,
MedDiet 2004 International Conference, Athens, Greece, April 21-23, 2004.
- 16. Development of High Performance Liquid Chromatography Method for the Determination of Terbutylazine and its Metabolites in Aquatic Samples**
N. Papadopoulos, E. Gikas, G. Zalidis and A. Tsarbopoulos,
3rd European Conference on Pesticides and Related Organic Micropollutants in the Environment, Chalkidiki, October 7-10, 2004.
- 17. Development of High Performance Liquid Chromatography Method for the Determination of Terbutylazine and its Metabolites in Sediment Samples from Constructed Wetlands**
N. Papadopoulos, E. Gikas, G. Zalidis and A. Tsarbopoulos,
10th FECS Conference on Chemistry and the Environment. The Role of Chemistry in the Environment: our choice, our life. Research, Education and Professional. Rimini, Italy, September 4-7, 2005.

- 18. GC-IT-MS/MS Method for the Determination of Carbofuran, Carbaryl and their Metabolites in Applicators' Urine Samples**
S. Petropoulou, E. Gikas, A. Tsarbopoulos and P. Siskos,
10th FECS Conference on Chemistry and the Environment. The Role of Chemistry in the Environment: our choice, our life. Research, Education and Professional. Rimini, Italy, September 4-7, 2005.
- 19. Development and Validation of a GC-tandem MS Method for the Determination of Carbofuran, Carbaryl and their Main Metabolites in Human Plasma**
S.E. Petropoulou, E. Gikas, A. Tsarbopoulos and P.A. Siskos,
4th Instrumental Methods of Analysis (IMA) Conference, Heraklion, Crete, Greece, October 2-6, 2005.
- 20. Bioavailability Studies of Bioactive Compounds Extracted from *Olea Europea* Using Mass Spectrometry**
F.N. Bazoti, E. Gikas and A. Tsarbopoulos,
4th Instrumental Methods of Analysis (IMA) Conference, Heraklion, Crete, Greece, October 2-6, 2005
- 21. "Development and validation of a reversed-phase ion-pair liquid chromatography method for the determination of magnesium ascorbyl phosphate and melatonin in cosmetic creams"**
Athanasia Varvaresou, Efthimios Tsirivas, Kritonas Iakovou, Evangelos Gikas, Zaxarias Papathomas, Ariadni Vonaparti, Irene Panderi
4th Instrumental Methods of Analysis (IMA) Conference, Heraklion, Crete, Greece, October 2-6, 2005
- 22. Biological Monitoring of Carbofuran, Carbaryl and their Metabolites in Fluids of Applicators**
S.E. Petropoulou, E. Gikas, A. Tsarbopoulos and P.A. Siskos,
International Society of Exposure Analysis Conference, Tucson, AZ, USA, October 30-November 3, 2005.
- 23. Study of the Ground and Excited States of MALDI Matrix Molecules Using *Ab-initio* Calculations**
E. Gikas, F.N. Bazoti and A. Tsarbopoulos,
DESORPTION 2006 International Conference, Athens, Greece, September 3-7, 2006.
- 24. Development and validation of an LC-ESI MS/MS method for the quantification of bioactive compounds from *Olea europaea* in rat plasma**
F.N. Bazoti, E. Gikas and A. Tsarbopoulos,
Instrumental Methods of Analysis (IMA 2007), 30 September – 4 October 2007, Rio, Patras, Greece
- 25. An improved GC-MS method for the quantification of isosorbide-5-mononitrate in plasma**
N. Fotaki, E. Gikas, M. Halabalaki, C. Reppas
2nd Advanced School of Pharmaceutical Technology: Innovative therapeutics from molecules to drugs, 2-11 June 2002, Crotona, Italy.
- 26. Determination of Daptomycin in plasma by UPLC-ESI-QqToF MS**
F. Bazoti, E. Gikas, A. Skoutelis, A. Tsarbopoulos

ASMS Utah, USA, 2010

27. ELECTROSPRAY MASS SPECTROMETRY AS A POTENTIAL TOOL FOR DETERMINING THE LIPOPHILIC PROPERTIES OF A SERIES OF STRUCTURALLY RELATED COMPOUNDS

Gikas, F. Bazoti, V. Myriantopoulos, E. Mikros, A. Tsantili-Kakoulidou

18th EuroQSAR Rhodes, 19-24-10-2010