

# CURRICULUM VITAE

## DR. CONSTANTINOS ZACHARIS

### PERSONAL DATA

**Name:** Constantinos K. Zacharis

**Birth Date:** 09 April 1977

**Work address:** Laboratory of Pharmaceutical Analysis, Department of Pharmaceutical Technology, School of Pharmacy, Aristotle University of Thessaloniki

**Tel:** +30 2310 997663

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**E-mail:** [czacharis@pharm.auth.gr](mailto:czacharis@pharm.auth.gr)

### EDUCATION

**BSc in Chemistry**, Department of Chemistry, Aristotle University of Thessaloniki (1996-2001)

**MSc in Analytical Chemistry**, Analytical Techniques and Applications, Department of Chemistry, University of Ioannina (2012-2014)

**PhD in Analytical Chemistry** (2002-2006), Laboratory of Analytical Chemistry, Department of Chemistry, Aristotle University of Thessaloniki (2006-2006)

### PROFESSIONAL EXPERIENCE

- **Research Scientist:** Analytical Development Laboratory, Research and Development, API Operations, Pharmathen S.A (September 2013 – December 2018)
- **Lecturer under contract:** Department of Food Technology, Alexander Technological and Educational Institute of Thessaloniki (October 2008 – July 2013)
- **Lecturer under contract:** Department of Nutrition and Dietetics, Alexander Technological and Educational Institute of Thessaloniki (October 2008 – July 2012)
- **Lecturer under contract (PD 407/80):** Laboratory of Analytical Chemistry, Department of Chemistry, Aristotle University of Thessaloniki (February 2008 – August 2010)
- **Scientific and technical customer support:** Hellamco S.A Analytical method development, customer training on analytical instruments (GC, GC-MS, LC, LC-MS) (May 2007 – December 2007)

### POSTDOCTORAL RESEARCH

- **Postdoctoral researcher** under scholarship ("**Scholarship of Excellence**", Research Committee, AUTH), Laboratory of Analytical Chemistry, Department of Chemistry (2013).
- **Postdoctoral researcher** under scholarship ("**Scholarship of Excellence**", Research Committee, AUTH), Laboratory of Analytical Chemistry, Department of Chemistry (2010).

## RESEARCH INTEREST

Development of analytical methods for the quality control and safety of active pharmaceutical ingredients (APIs) according to the “**Quality by Design**” principles

Development of analytical methods for the quantitation of **genotoxic impurities** in active pharmaceutical ingredients (APIs) using separation techniques

Application of new stationary phases in pharmaceutical analysis

Modern sample preparation techniques

Method development for the analysis of pharmaceutical compounds in biological samples

## INTERNATIONAL AUCTORIAL ACTIVITIES

«**Smart materials as stationary phase in chromatography**» in «Smart materials in analytical sciences» (Eds. Francesc Esteve-Turrillas, Miguel de la Guardia) (ISBN: 978-1-119-42261-7) (Wiley & Blackwell) (**invited**)

«**Two phase aqueous liquid extraction**» in «**Encyclopedia of Analytical Sciences 3<sup>rd</sup> Edition**» (Reference Module in Chemistry, Molecular Sciences and Chemical Engineering) (Eds. P.J. Worsfold, C. Poole, A. Townshend, M. Miro) (Elsevier) (**invited**)

«**Generic Preconcentration/Dilution Sequential Injection Manifold for the Automated Amperometric Determination of Free Cyanides from Sub-ppb to High ppm Levels**» in «Portable Chemical Sensors: Weapons Against Bioterrorism, NATO Science for Peace and Security Series A: Chemistry and Biology» (Ed. D.P. Nikolelis) (Springer) (2012)

«**Preservatives**» in «**Food Analysis by HPLC**» (3<sup>rd</sup> edition) (Eds. L. Nollet & F. Toldra) (CRC Press) (Boca Raton, FL, USA) (ISBN: 9781439830840) (2012) (pp. 529-547)

«**Analysis of caffeine and related compounds by automated flow methods**» in «**Caffeine: chemistry, analysis, function and effects**» (Ed. Victor R Preedy) (Royal Society of Chemistry publishing, RSC) (UK) (ISBN: 978-1-84973-367-0) (2012) (pp. 193-212)

«**Sulfur dioxide in wines: Automated determination using flow injection analysis**» in «**Red wines and health**» (Ed. Paul O'Byrne) (Nova Science Publishers (USA) (2009)

## EDITOR AND EDITORIAL BOARD MEMBER OF SCIENTIFIC JOURNALS

- **Editor** of Analytical chemistry section of **Open Chemistry** (formerly Central European Journal of Chemistry) (De Gruyter)
- **Academic Editor** and **Editorial board** of **Analytical chemistry section of Molecules** (MDPI)
- Editorial board of **SEJ Pharmaceutical Analysis** (Scientific Exhelters)
- Editorial board of **Advances in Analytical Chemistry** (Scientific and Academic Publishing)
- Editorial board of **Instrumentation Science & Technology** (Taylor & Francis)
- Editorial board of **American Journal of Food Science and Technology** (SciEP)
- Editorial board of The **Open Access Journal of Science and Technology** (AgiAI Publishing House)

## CO-EDITOR AND GUEST EDITOR OF SCIENTIFIC PUBLICATIONS

- **Guest Editor** of the special issue entitled “**Recent Trends in Pharmaceutical Analytical Chemistry**” (Molecules, MDPI) (In Progress)
- **Guest Editor** of the special issue entitled “**Solid phase microextraction**” (Molecules, MDPI) (In Progress)
- **Guest Editor** of the special issue entitled “**Novel Instrumentation for Separations**” (Instrumentation Science & Technology, Taylor & Francis) (2015, vol. 43 pp. 139-196)
- **Guest Editor** of the special issue entitled “**Trends and Applications of Fast Liquid Chromatography in Bioanalysis**” (Journal of Chromatography B, Elsevier) (2013, vol. 927, pp. 1-226)
- **Guest Editor** of the special issue entitled “**Recent Advances in Separation Sciences**” (Central European Journal of Chemistry, Versita, Springer)(2012, vol. 10(3) pp. 415 – 843)
- **Guest Editor** of the special issue entitled “**Instrumentation and stationary phases for liquid chromatography**” (Instrumentation Science & Technology, Taylor & Francis) (2012, vol. 40 pp. 75 - 193)
- **Guest Editor** of the special issue entitled “**Analytical Aspects in Drug metabolism**” (Current Drug Metabolism, Bentham Science Publishers) (2011, Vol. 12 (4) pp. 312 – 410)
- **Co-editor** of the electronic book entitled “**Reviews in Pharmaceutical and Biomedical Analysis**” (Bentham Science Publishers, eISBN 978-1-60805-190-8)
- **Guest Editor** of the special issue entitled “**Automated sample pretreatment coupled to liquid phase separation techniques**” (Journal of Chromatographic Science, Oxford Academic) [vol. 47(8), Sept. 2009]

## SCIENTIFIC DISTINCTION

1) **Top referee/outstanding contributor** in reviewing of the following Journals:

- Analytica Chimica Acta (2015, 2017)
- Journal of Chromatography A (2013, 2015, 2017)
- Journal of Chromatography B (2016)
- Journal of Pharmaceutical Biomedical Analysis (2008, 2015, 2017)
- Talanta (2016)

2) The following article entitled

“Amperometric determination of cyanides at the low ppb level by automated preconcentration based on gas diffusion coupled to sequential injection analysis.”

C.K. Zacharis\*, P.D. Tzanavaras, A.N. Voulgaropoulos\* and B. Karlberg  
Talanta, 77 (2009) 1620

has been included in the literature data of EPA “**Measurement & Monitoring: 30th Quarterly Literature Update & Grant Survey**”

3) **Top 25 (Elsevier)**

“Determination of bisphosphonate active pharmaceutical ingredients in pharmaceuticals and biological material: A review of analytical methods”

Constantinos K. Zacharis\*, Paraskevas D. Tzanavaras  
J. Pharm. Biomed. Anal. 48 (2008) 483 – 496

2<sup>nd</sup> / 25 for Journal of Pharmaceutical and Biomedical Analysis during October-December 2008,

7<sup>th</sup> / 25 during January-March 2009 and

20<sup>th</sup> / 25 during July-September 2009

## SCHOLARSHIPS

- Scholarship for PhD candidates (**Erasmus, State scholarship foundation**) (11/2004 to 04/2005) (Department of Biomedical analysis, School of Pharmaceutical Sciences, Utrecht University)
- PhD fellowship «**Herakleitos** (EPEAEK II) (2002 – 2005)
- Scholarship for post-doctorate research (“**Scholarship of Excellence 2010**”, Research Committee, Aristotle University of Thessaloniki) (2010)
- Scholarship for post-doctorate research (“**Scholarship of Excellence 2013**”, Research Committee, Aristotle University of Thessaloniki) (2013)

## PARTICIPATION IN FUNDED RESEARCH

- Bilateral research program Greece-Slovenia 2003-2005 “**Development and Application of Novel Material for Bioseparations**” with bioanalytical separations company ((BIA Separations, Ljubljana, Slovenia)
- Bilateral research program Greece-Romania (2005-2008), “**Knowledge based multifunctional materials for biotechnological and biomedical use. Molecularly Imprinted polymers and pH/thermoreponsible micro- and nanospheres for the development of novel drug delivery systems and analytical tools for pharmaceuticals**” with “Petru Poni” Institute of Macromolecular Chemistry, Iassy, Romania
- Bilateral research program Greece-Czech Republic (2005-2008), “**Monolithic polymeric phases for capillary chromatographic and capillary electrochromatographic analysis of biomolecular enantiomers**” with the University of Pardubice, Czech Republic
- European research program (FP7) Greece-France-Serbia-Fyrom (2008-2010), “**Preclinical drug control**”
- Educational program “**Leonardo Da Vinci ChemLab II Project – European Training Program (Employees in chemical industries – Analytical Laboratories)**” (European Commission – Education, audiovisual & culture executive agency)

## REVIEWER OF INTERNATIONAL SCIENTIFIC JOURNALS

Scientific Journal: **50** (some of them are listed below)

Reviewed articles > **650**

Analytica chimica Acta/Analytical Methods/Analytical Letters/Chromatographia/Electrophoresis/Food Chemistry/Food Analytical Methods/Journal of Chromatography A/Journal of Chromatography B/Journal of Chromatographic Science/Journal of Pharmaceutical and Biomedical Analysis/Journal of Separation Science/Molecules/Talanta

## ORGANIZING / SCIENTIFIC COMMITTEE OF INTERNATIONAL CONFERENCES

«*Flow Analysis XII*», 23 – 28 Sept 2012, Thessaloniki, Greece

## PUBLICATIONS IN INTERNATIONAL PEER-REVIEWED JOURNALS

- 48) Automated post-column sample manipulation prior to detection in liquid chromatography: A review of pharmaceutical and bioanalytical applications  
Natalia Manousi, **Constantinos K. Zacharis\***  
Curr. Anal. Chem. (2019) *In Press* (invited)
- 47) Application of Analytical Quality by Design principles for the determination of alkyl p-toluenesulfonates impurities in Aprepitant by HPLC. Validation using total-error concept  
**Constantinos K. Zacharis\***, Elli Vastardi  
J. Pharm. Biomed. Anal. 150 (2018) 152-161
- 46) Fentanyl and Naloxone effects on glutamate and GABA release rates from anterior hypothalamus in freely moving rats  
Chryssa Pourzitaki\*, Georgia Tsaousi, Georgios Papazisis, Athanassios Kyrgidis, **Constantinos Zacharis**, Aristeidis Kritis, Dimitrios Kouvelas  
Eur. J. Pharmacol. 834 (2018) 169-175
- 45) A new scalable synthesis of entecavir  
Efthymia G. Gioti, Theocharis V. Koftis\*, Efstratios Neokosmidis, Elli Vastardi, Stefanos S. Kotoulas, Sakellarios Trakossas, Theodoros Tsatsas, Elizabeth E. Anagnostaki, Theodoros D. Panagiotidis, **Constantinos Zacharis**, Evanthia P. Tolika, Anastasia-Aikaterini Varvogli, Thanos Andreou, John K. Gallos\*  
Tetrahedron 74 (2018) 519-527
- 44) (Chloromethyl)dimethylchlorosilane–KF: A Two-Step Solution to the Selectivity Problem in the Methylation of a Pyrimidone Intermediate en Route to Raltegravir  
Christos I. Stathakis\*, Petros L. Gkizis, Elli S. Alexandraki, Sakellarios Trakossas, Michael Terzidis, Efstratios Neokosmidis, **Constantinos K. Zacharis**, Christina Vasiliadou, Elli Vastardi, Thanos Andreou, Asteria Zitrou, Anastasia-Aikaterini Varvogli, and Theocharis V. Koftis\*  
Org. Process Res. Dev. 21(9) (2017) 1413-1418
- 43) Assessment, modeling and optimization of parameters affecting the formation of Disinfection by-products in water  
Chrysa Gougoutsou, Christophoros Christophoridis\*, **Constantinos K. Zacharis**, Konstantinos Fytianos  
Environ. Sci. Pollut. Res. 23 (2016) 16620-16630
- 42) A validated LC method for the determination of enantiomeric purity of clopidogrel intermediate using amylose-based stationary phase  
**Constantinos K. Zacharis\***, Elli Vastardi  
Chromatographia 78 (2015) 819-824
- 41) A validated liquid chromatographic method for the determination of polycyclic aromatic hydrocarbons in honey after homogeneous liquid liquid extraction using hydrophilic acetonitrile and sodium chloride as mass separating agent  
Anastasia Koltsakidou, **Constantinos K. Zacharis\***, Konstantinos Fytianos  
J. Chromatogr. A 1377 (2015) 46-54
- 40) Automated fluorimetric assay for baclofen after on-line derivatization with o-phthalaldehyde based on the sequential injection principle  
Paraskevas D. Tzanavaras\* and **Constantinos K. Zacharis**  
Curr. Anal. Chem. 10 (2014) 298-304
- 39) Zwitterionic hydrophilic interaction chromatography coupled with post-column derivatization for the analysis of glutathione in wine samples  
**Constantinos K. Zacharis**, Paraskevas D. Tzanavaras\*, Theano D. Karakosta, Demetrius G. Themelis

Anal. Chim. Acta 795 (2013) 75-81

38) Liquid chromatography coupled to on-line post column derivatization for the analysis of organic compounds: A review on instrumentation and chemistries

**Constantinos K. Zacharis\***, Paraskevas D. Tzanavaras\*

Anal. Chim. Acta, 798 (2013) 1 – 24

(Editor's choice to be the cover of the volume) (invited)

37) Determination of glutathione in baker's yeast by capillary electrophoresis using methyl propiolate as derivatizing reagent

Irene-Chrisanthi Tsardaka, **Constantinos K. Zacharis**, Paraskevas D. Tzanavaras, Anastasia Zotou\*

J. Chromatogr. A 1300 (2013) 204-208

36) Determination of rimantadine in human urine by high performance liquid chromatography using a monolithic stationary phase and on-line post-column derivatization

**Constantinos K. Zacharis**, Paraskevas D. Tzanavaras\*, Athanasios G. Vlessidis

J. Sep. Sci. 36 (2013) 1720-1725

35) "Development and validation of a rapid ultra high pressure liquid chromatographic method for the determination of methylxanthines in herbal infusions"

**Constantinos K. Zacharis\***, Fotini S. Kika, Paraskevas D. Tzanavaras, Konstantinos Fytianos

J. Chromatogr. B 927 (2013) 218-222

34) High-throughput determination of quinine in beverages and soft drinks based on zone-fluidics coupled to monolithic liquid chromatography: on-line dilution, and addition of internal standard

Paraskevas D. Tzanavaras\*, **Constantinos K. Zacharis**, Theano D. Karakosta, Anastasia Zotou and Demetrius G. Themelis

Anal. Lett. 46 (2013) 1718-1731

33) Field bindweed (*Convolvulus arvensis* L.) and redroot pigweed (*Amaranthus retroflexus* L.) control in potato by pre- or post-emergence applied flumioxazin and sulfosulfuron

I. Vasilakoglou\*, K. Dhima, K. Paschalidis, T. Gatsis, **K. Zacharis**, M. Galanis,

Chil. J. Agr. Res. 73 (2013) 24-30

32) Chromatographic behavior of the biologically active proline derivative captopril on particulate, monolithic and core-shell narrow bore columns

**Constantinos K. Zacharis**, Theano D. Karakosta, Paraskevas D. Tzanavaras\*, Pantelis G. Rigas, Demetrius G. Themelis

Anal. Methods 4 (2012) 4373-4377

31) Vortex-assisted liquid liquid microextraction combined with gas chromatography-mass spectrometry for the determination of organophosphate pesticides in environmental water samples and wines

**Constantinos K. Zacharis\***, Christophoros Christophoridis, Konstantinos Fytianos

J. Sep. Sci. 35 (2012) 2422-2429

30) Dispersive liquid liquid microextraction for the determination of organochlorine pesticides residues in honey by gas chromatography – electron capture and ion trap mass spectrometric detection

**Constantinos K. Zacharis\***, Ilias Rotsias, Petros G. Zachariadis, Anastasios Zotos

Food Chem. 134 (2012) 1665-1672 (DOI: 10.1016/j.foodchem.2012.03.073)

29) HPLC separation of nimesulide and five impurities using a narrow-bore monolithic column: application to photo-degradation studies

**Constantinos K. Zacharis**, Paraskevas D. Tzanavaras\*

Chromatographia 73 (2011) 347-352

- 28) NBD-Cl as a post-column reagent for primary and secondary amines after separation by ion-exchange chromatography  
**Constantinos K. Zacharis**, Paraskevas D. Tzanavaras, Panagiotis N. Mouroutis, Pantelis Rigas\*  
Anal. Lett. 44 (2011) 1821-1834
- 27) Ethyl propiolate as a post-column derivatization reagent for thiols: development of a green liquid chromatographic method for the determination of glutathione in vegetables  
**Constantinos K. Zacharis**, Paraskevas D. Tzanavaras\*, Anastasia Zotou  
Anal. Chim. Acta, 690 (2011) 122-128
- 26) Development and validation of a rapid HPLC method for the determination of five banned fat-soluble colorants in spices using a narrow-bore monolithic column  
**Constantinos K. Zacharis\***, Fotini S. Kika, Paraskevas D. Tzanavaras, Pantelis G. Rigas, Efstratios R. Kyranas  
Talanta, 84 (2011) 480-486
- 25) Derivatization of thiols under flow conditions using two commercially available propiolate esters  
Paraskevas D. Tzanavaras\*, Alexandros Tsiomlektsis, **Constantinos K. Zacharis**  
J. Pharm. Biomed. Anal. 53 (2010) 790 – 794
- 24) Solvent-based de-emulsification dispersive liquid-liquid microextraction combined with gas chromatography – mass spectrometry for determination of trace organochlorine pesticides in environmental water samples  
**Constantinos K. Zacharis\***, Paraskevas D. Tzanavaras, Konstantinos Roubos, Kico Dhima  
J. Chromatogr. A 1217 (2010) 5896 – 5900
- 23) Rapid determination of methylxanthines in real samples by high performance liquid chromatography using the new FastGradient® narrow-bore monolithic column  
Paraskevas D. Tzanavaras\*, **Constantinos K. Zacharis**, Demetrius G. Themelis  
Talanta 81 (2010) 1494 – 1501
- 22) On-line derivatization of N-acetylcysteine using ethyl-propiolate as a novel advantageous reagent and sequential injection analysis  
Paraskevas D. Tzanavaras\*, **Constantinos K. Zacharis**, Demetrius G. Themelis  
Anal. Lett. 43 (2010) 1889 – 1901
- 21) High throughput automated determination of glutathione based on the formation of a UV-absorbing thioacrylate derivative  
**Constantinos K. Zacharis**, Paraskevas D. Tzanavaras\*  
Comb. Chem. & High Through. Screen. 13 (2010) 461-468 (invited)
- 20) Ethyl-propiolate as a novel and promising analytical reagent for the derivatization of thiols: study of the reaction under flow conditions  
**Constantinos K. Zacharis\***, Paraskevas D. Tzanavaras, Demetrius G. Themelis  
J. Pharm. Biomed. Anal. 50 (2009) 384-391
- 19) Amperometric determination of cyanides at the low ppb level by automated preconcentration based on gas diffusion coupled to sequential injection analysis  
**Constantinos K. Zacharis\***, Paraskevas D. Tzanavaras, Anastasios N. Voulgaropoulos\*, Bo Karlberg  
Talanta 77 (2009) 1620-1626
- 18) Accelerating the quality control of pharmaceuticals using monolithic stationary phases. A review of recent applications  
**Constantinos K. Zacharis\***  
J. Chromatogr. Sci., 47 (2009) 443-451 (invited)

- 17) Validated assay for the determination of mitoxantrone in pharmaceuticals using capillary zone electrophoresis  
Fotini S. Kika, **Constantinos K. Zacharis**, Georgios A. Theodoridis, Anastasios N. Voulgaropoulos\*  
Anal. Lett. 42 (2009) 842 – 855
- 16) Automated sample preparation coupled to sequential injection chromatography: on-line filtration and dilution protocols prior to separation  
**Constantinos K. Zacharis**, Aspasia Verdoukas, Paraskevas D. Tzanavaras\*, Demetrius G. Themelis  
J. Pharm. Biomed. Anal. 49 (2009) 726-732
- 15) Separation and determination of nimesulide related substances for quality control purposes by micellar electrokinetic chromatography  
**Constantinos K. Zacharis**, Paraskevas D. Tzanavaras\*, Maria Notou, Anastasia Zotou, Demetrius G. Themelis  
J. Pharm. Biomed. Anal., 49 (2009) 201-206
- 14) Novel automated assay for the quality control of mexiletine hydrochloride formulations using sequential injection and on-line dilution  
Paraskevas D. Tzanavaras\*, **Constantinos K. Zacharis**, Pantelis Rigas  
J. Pharm. Biomed. Anal. 48 (2008) 1254 – 1260
- 13) Determination of bisphosphonate active pharmaceutical ingredients in pharmaceuticals and biological material: A review of analytical methods  
**Constantinos K. Zacharis\***, Paraskevas D. Tzanavaras  
J. Pharm. Biomed. Anal. 48 (2008) 483 – 496
- 12) Extraction of acyclovir from pharmaceutical creams prior to HPLC assay analysis. Optimization and validation of pre-treatment protocols.  
Paraskevas D. Tzanavaras, **Constantinos K. Zacharis\***  
Central Eur. J. Chem., 6 (2008) 140 – 144 (Invited)
- 11) A new method for the HPLC determination of gamma-hydroxybutyric acid (GHB) following derivatization with a coumarin analogue and fluorescence detection. Application in the analysis of biological fluids  
**Constantinos K. Zacharis**, Nikolaos Raikos, Nikolaos Giouvalakis, Helen Tsoukali-Papadopoulou, Georgios A. Theodoridis\*  
Talanta 75 (2008) 356 – 361
- 10) Sequential injection affinity chromatography utilizing an albumin immobilized monolithic column to study drug-protein interactions  
**Constantinos K. Zacharis**, Eftichios A. Kalaitzantonakis, Ales Podgornik, Georgios A. Theodoridis\*  
J. Chromatogr. A, 1144 (2007) 126 – 134
- 9) Automated sample pre-treatment using Flow Techniques prior to Liquid-Phase Separations. A review”  
Georgios A. Theodoridis\*, **Constantinos K. Zacharis**, Anastasios N. Voulgaropoulos  
J. Biochem. Biophys. Methods 70 (2007) 243 – 252
- 8) Coupling of sequential injection analysis and capillary electrophoresis – Laser-induced fluorescence via a valve interface for on-line derivatization and analysis of amino acids and peptides”  
**Constantinos K. Zacharis**, F. W. Alexander Tempels, Georgios A. Theodoridis\*, Anastasios N. Voulgaropoulos, Willy J. M. Underberg, Govert W. Somsen, Gerhardus J. de Jong  
J. Chromatogr. A 1132 (2006) 297 – 303
- 7) Incorporation of a monolithic column into sequential injection system for drug-protein binding studies  
**Constantinos K. Zacharis**, Georgios A. Theodoridis\*, Ales Podgornik, Anastasios N. Voulgaropoulos  
J. Chromatogr. A 1121 (2006) 46 – 54



- 6) Coupling of sequential injection with liquid chromatography for the automated derivatization and on-line determination of amino acids  
**Constantinos K. Zacharis**, Georgios A. Theodoridis\*, Anastasios N. Voulgaropoulos  
 Talanta 69 (2006) 841 – 847
- 5) Normal spectrophotometric and stopped-flow spectrofluorimetric sequential injection methods for the determination of alendronic acid, an anti-osteoporosis amino-bisphosphonate drug, in pharmaceuticals”  
 Paraskevas D. Tzanavaras, **Constantinos K. Zacharis**, Georgios A. Theodoridis\*, Eftichios A. Kalaitzantonakis and Anastasios N. Voulgaropoulos  
 Anal. Chim. Acta 547 (2005) 98 – 103
- 4) On-line coupling of Sequential Injection with High Performance Liquid Chromatography for the automated derivatization and determination of  $\gamma$ -aminobutyric acid in human biological fluids”  
**Constantinos K. Zacharis**, Georgios A. Theodoridis\*, Anastasios N. Voulgaropoulos  
 J. Chromatogr. B, 808 (2004) 169 – 175
- 3) Rapid spectrofluorimetric determination of lisinopril in pharmaceutical tablets using sequential injection analysis  
**Constantinos K. Zacharis**, Paraskevas D. Tzanavaras, Demetrius G. Themelis\*, Georgios A. Theodoridis, Anastasios Economou, Pantelis G. Rigas  
 Anal. Bioanal. Chem. 379 (2004) 759 – 763
- 2) Automated sample preparation based on the sequential injection principle. Solid phase extraction on a molecularly imprinted polymer coupled on-line to HPLC  
 Georgios A. Theodoridis\*, **Constantinos K. Zacharis**, Paraskevas D. Tzanavaras, Demetrius G. Themelis, Anastasios Economou  
 J. Chromatogr. A 1030 (2004) 69 – 76
- 1) Determination of fluoride ions by single column high pressure anion chromatography in dentifrice preparations and body fluids: saliva and blood serum  
 V. F. Samanidou, **C. K. Zacharis** and I. N. Papadoyannis\*  
 J. Liq. Chrom. & Rel. Technol. 25 (2002) 803 – 818

## PRESENTATIONS IN INTERNATIONAL CONFERENCES

- 1) 3<sup>rd</sup> Aegean Analytical Chemistry Days (AACD-III, 2002), 29 September – 2 October 2002, Lesvos, Greece
- 2) 8<sup>th</sup> Conference Advanced Medical Chemistry “Pharmacochemistry in the 21<sup>th</sup> century”  
 18-19 September 2003, Thessaloniki, Greece
- 3) 27<sup>th</sup> Symposium on High Performance Liquid Phase Separations and Related Techniques (HPLC 2003)  
 15-19 June 2003, Nice, France
- 4) Instrumental Methods of Analysis Modern Trends and Applications (IMA 2003), 23-27 September 2003, Thessaloniki, Greece
- 5) International Symposium Analytical Forum 2004, 4-8 July 2004, Warsaw, Poland
- 6) 4<sup>th</sup> International Symposium on Separations in the BioSciences (SBS'05), 18-21 October 2005 Utrecht, The Netherlands
- 7) Monolithic Summer School on Biochromatography, Bioconversion and Solid Phase Synthesis, 28-31 May 2006, Portoroz, Slovenia
- 8) 5<sup>th</sup> Aegean Analytical Chemistry Days, 5-8 October 2006, Thessaloniki, Greece
- 9) 13<sup>th</sup> Hellenic Symposium on Medicinal Chemistry (HSMC-13), 14-15 March 2008, Athens

- 10) 6<sup>th</sup> International Conference on Instrumental Methods of Analysis Modern Trends and Applications (IMA 2009) 4-8 October 2009, Athens, Greece.
- 11) 7<sup>th</sup> Aegean Analytical Chemistry Days (AACD 2010) 29 Sept - 03 October 2010, Lesvos, Greece
- 12) NATO Advanced Research Workshop (NATO-ARW 2011) 1-4 July 2011, Snogeholm Castle, Lund, Sweden
- 13) 15<sup>th</sup> Hellenic symposium on Medicinal Chemistry, 25-27 May 2012, Athens, Greece
- 14) 12<sup>th</sup> International Conference on Flow Analysis, 23-28 September 2012, Thessaloniki, Greece