

PERSONAL INFORMATION:

Name: **GEORGIOS N. RALLIS**
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EDUCATION:

06/2013 – 03/2018

Doctor of Philosophy (Ph.D.) in Analytical Forensic Toxicology
 Laboratory of Forensic Medicine & Toxicology, Faculty of Medicine, School of Health Sciences, University of Ioannina, Greece
 PhD Thesis "*Development and validation of analytical methods for the determination of antipsychotic and antidepressant drugs in postmortem and clinical specimens*"
 Grade: Distinction

03/2010 – 11/2012

Master of Science (M.Sc.) in Analytical Chemistry
 Laboratory of Analytical and Environmental Chemistry, Department of Chemistry, School of Sciences, University of Ioannina, Greece
 Master thesis "*Determination of organochlorine pesticides and polychlorinated biphenyls in post-mortem human lung by matrix solid-phase dispersion with the aid of response surface methodology and desirability function*"
 Grade: Distinction

09/2004 – 01/2010

Bachelor of Science (Honours) (B.Sc. Hons) in Chemistry
 Department of Chemistry, School of Sciences, University of Ioannina, Greece
 Grade: 7.59

PROFESSIONAL EXPERIENCE:

03/2026 – Today

Assistant Professor of Pharmaceutical Analysis
 Department of Health Sciences, School of Life and Health Sciences
 Pharmacy Program, University of Nicosia, UNIC Athens, Greece
 Duties:
 Undergraduate teaching of:

- Analytical Chemistry (IMPH-108)
- Pharmaceutical Analysis and Quality Control I (IMPH-320)
- Pharmaceutical Analysis and Quality Control II (IMPH-321)

 Development of LC-HRMS (Q-TOF), LC-MS/MS and ICP-MS/MS analytical methodologies within the Evolve Research Platform

12/2023 – 02/2026

Principal Analytical Scientist - R&D Coordinator
 Analytical R&D Pharmaceutical Department
 Rontis Corporation, Athens, Greece
 Duties:

- Technical leadership of small-molecule LC-MS/MS-based determinations
- Overseeing analytical method development, validation, and transfer
- Biowaiver and essential similarity studies
- Reviewing analytical protocols, technical reports and API suppliers' DMFs
- Contribution to CTD 3.2.P.2 Pharmaceutical Development sections
- Mentoring junior analysts with sample preparation, troubleshooting and preventative maintenance on HPLC and LC-MS/MS instruments
- Leading GLPs, GMPs, HSE and SOPs regulations application

01/2020 – 11/2023

- Pharmacokinetic parameters evaluation
- Preparation of publications, presentations, and short courses

Senior Analytical Scientist

Analytical R&D Pharmaceutical Department

Rontis Corporation, Athens, Greece

Duties:

- Analytical method development and validation in pharmaceutical analysis
- Stability and stress testing
- Forced degradation studies
- Dissolution tests and release studies
- Analytical method transfer activities

08/2018 – 12/2019

Quality Control Analyst

Famar, Anthoussa BU, Greece

Duties:

- Pharmaceutical quality control using chromatographic and spectroscopic techniques
- Routine batch testing and release support

03/2016 – 03/2018

Analytical Chemist - Mass Spectrometry Specialist

Analysis SA, Ioannina, Greece

Duties:

- LC-MS/MS and GC-MS/MS analytical method development and validation
- Multi-residue pharmaceuticals, pesticides and POPs MS-based determinations in food and environmental matrices

RESEARCH EXPERIENCE:

01/2013 – 03/2018

Research Assistant

Laboratory of Forensic Medicine & Toxicology, Faculty of Medicine, School of Sciences, University of Ioannina, Greece

- Forensic and clinical analytical toxicology
- Method development and validation
- Therapeutic drug monitoring in psychopharmacology
- Principal Scientist in the research project entitled: *“Therapeutic antipsychotic and anti-depressive drug monitoring in the blood of psychiatric patients and their correlation to disease factors”* funded by the National Strategic Reference Framework 2007-2013 (NSRF 2007-2013) under the European’s Union Programme for regional development. Project supervisor: Associate Professor Vasiliki Boumba (12/2013 - 10/2015)
- Principal Scientist in the research project entitled: *“Sample preparation for toxicological analysis”* funded by the Ministry of Justice of the Hellenic Republic. Project supervisor: Professor Theodore Vougiouklakis (03/2013 - 05/2013, 07/2013 - 08/2013, 11/2013)

Laboratory of Analytical and Environmental Chemistry, Department of Chemistry, School of Sciences, University of Ioannina, Greece

- Senior scientist in research project entitled: *“Determination of suspected endocrine disruptors in food products of Epirus. Risk assessment”* funded by the National Strategic Reference Framework 2007-2013 (NSRF 2007-2013) under the European’s Union Programme for regional development. Project supervisor: Associate Professor Vasilios Sakkas (03/2013 - 12/2013)

RESEARCH INTERESTS:

- Pharmaceutical analysis of small-molecule drug products
- LC-MS/MS & GC-MS/MS method development and validation
- Stability-indicating analytical methods and impurity profiling (incl. nitrosamines and NDSRIs)
- Analytical Quality by Design (AQbD), chemometrics-assisted optimization and machine-learning approaches
- Extractables and leachables in pharmaceutical products
- Clinical and forensic bioanalysis (TDM, toxicology)
- MS-based metabolomics profiling
- Novel and miniaturized sample preparation procedures

TEACHING EXPERIENCE:

Teaching assistant

University of Ioannina, Greece

Laboratory supervision and support (teaching assistant) of undergraduate students and Master students in the subjects of:

1. Pharmaceutical Analysis
2. Instrumental Analytical Chemistry
3. Qualitative and Quantitative Analysis
4. Forensic and Clinical Analytical Toxicology
5. Environmental analytical chemistry

SKILLS:

Job-Related Skills:

- Operation of LC instruments: LC-MS/MS, HPLC-UV/DAD/RF/RID (Waters, Shimadzu, Thermo Scientific, Sciex, Agilent)
- Operation of GC instruments: GC-MS-TQ, GC-ECD/FID/FPD/RI (Shimadzu)
- Chromatography Data Systems: Empower 3, OpenLab, Chromeleon 7.2, LabSolutions, Analyst, Sciex OS
- GLP, GMP, Data Integrity, Quality Assurance
- Chemometrics, Design of Experiments, Analytical Quality by Design
- Epidemiological studies, Human biomonitoring

Software packages:

- R Programming Language
- Minitab
- ECDL Core
- STATISTICA Stat-Soft

Languages:

- English: Certificate of Proficiency, University of Michigan, C2 level
- German: Zertifikat Deutsch, Goethe-Institut, B1 level
- Greek (Native Language)

PUBLICATIONS:

1. "A comprehensive UPLC-MS/MS method for the determination of N-nitroso metamizole EP impurity C in metamizole drug products." G.N. Rallis*, V.N. Papakanaki, D.G. Gkatzidou, T.A. Papakondyli, A.G. Papathanasiou. Journal of Liquid Chromatography & Related Technologies, 2025 48(6-10): 159-167, DOI: [10.1080/10826076.2024.2447028](https://doi.org/10.1080/10826076.2024.2447028)

Topic: Pharmaceutical Analysis - Toxicology

Type of article: Original Research

Citations from Scopus: 1

Citations from Research Gate: 1

Impact factor ₂₀₂₄ : 1.120

2. *"A Pilot study of plasma antipsychotic drugs concentrations of first episode patients with psychosis from Epirus – Greece."* V.A. Boumba*, P. Petrikis, L. Patteet, M. Baou, G.N. Rallis, A. Metsios, A. Karambas, K. Maudens, V. Mavreas. *Current Psychopharmacology*, 2019 8: 123-129. DOI: [10.2174/1573412914666180611110805](https://doi.org/10.2174/1573412914666180611110805)

Topic: Clinical Toxicology

Type of article: Original Research

Citations from Scopus: -

Citations from Research Gate: 2

Impact factor ₂₀₁₉ : -

3. *"Poisoning suicide with ingestion of the pyrethroids alpha-cypermethrin and deltamethrin and the antidepressant mirtazapine: A case report."* V.A. Boumba*, G.N. Rallis, T. Vougiouklakis. *Forensic Science International*, 2017 274: 75-78. DOI: [10.1016/j.forsciint.2016.11.023](https://doi.org/10.1016/j.forsciint.2016.11.023)

Topic: Forensic Toxicology

Type of article: Original Research

Citations from Scopus: 11

Citations from Research Gate: 13

Impact factor ₂₀₁₇: 1.974

4. *"Determination of clozapine, and five antidepressants in human plasma, serum and whole blood by gas chromatography–mass spectrometry: A simple tool for clinical and postmortem toxicological analysis."* V.A. Boumba*, G.N. Rallis, P. Petrikis, T. Vougiouklakis, V. Mavreas. *Journal of Chromatography B*, 2016 1038: 43-48. DOI: [10.1016/j.jchromb.2016.10.023](https://doi.org/10.1016/j.jchromb.2016.10.023)

Topic: Toxicology

Type of article: Original Research

Citations from Scopus: 39

Citations from Research Gate: 40

Impact factor ₂₀₁₆: 2.603

5. *"Development and validation of an UHPLC-UV method for the determination of Agomelatine in human plasma and serum suitable for routine clinical analysis."* G.N. Rallis, P. Petrikis, V.A. Boumba*. *Annals of Chromatography and Separation Techniques*, 2016 2(2): 1020-1025. URL: https://www.jsmcentral.org/sm-chromatography/fulltext_acst-v2-1020.pdf

Topic: Clinical Toxicology

Type of article: Original Research

Citations from Scopus: -

Citations from Research Gate: 4

Impact factor ₂₀₁₆: -

6. *"A review of genetic alterations in the serotonin pathway and their correlation with psychotic disease and response to atypical antipsychotics."* M. Baou, V.A. Boumba*, P. Petrikis, G.N. Rallis, T. Vougiouklakis, V. Mavreas. *Schizophrenia Research*, 2016 170(1): 18-29. DOI: [10.1016/j.schres.2015.11.003](https://doi.org/10.1016/j.schres.2015.11.003)

Topic: Toxicology - Pharmacology

Type of article: Review

Citations from Scopus: 27

Citations from Research Gate: 32

Impact factor ₂₀₁₆: 3.986

7. *"Residues of selected polychlorinated biphenyls (PCBs) and organochlorine pesticides (OCPs) in postmortem lungs from Epirus, north-western Greece."* G.N. Rallis, V.A. Boumba*, V.A. Sakkas, K. Fragkouli, G. Siozios, T.A. Albanis, T. Vougiouklakis. Journal of Toxicology and Environmental Health Part A, 2014 77(13): 767-775. DOI: [10.1080/15287394.2014.892447](https://doi.org/10.1080/15287394.2014.892447)

Topic: Toxicology

Type of article: Original Research

Citations from Scopus: 8

Citations from Research Gate: 11

Impact factor₂₀₁₄: 2.351

8. *"Determination of organochlorine pesticides and polychlorinated biphenyls in post-mortem human lung by matrix solid-phase dispersion with the aid of response surface methodology and desirability function."* G.N. Rallis, V.A. Sakkas*, V.A. Boumba, T. Vougiouklakis, T.A. Albanis. Journal of Chromatography A, 2012 1227: 1-9. DOI: [10.1016/j.chroma.2011.12.083](https://doi.org/10.1016/j.chroma.2011.12.083)

Topic: Forensic Toxicology - Analytical Toxicology

Type of article: Original Research

Citations from Scopus: 53

Citations from Research Gate: 54

Impact factor₂₀₁₂: 4.612

POSTER PRESENTATIONS:

1. Georgios N. Rallis and Vassiliki A. Boumba*. *"A simple Ultra High Performance Liquid Chromatography-Diode Array Detection (UHPLC-DAD) method for the determination of agomelatine in human plasma and serum."* 54th Annual Meeting of The International Association of Forensic Toxicologists (TIAFT 2016), August 28-September 1, 2016, Brisbane, Australia.

2. Vassiliki A. Boumba*, Georgios N. Rallis, Theodore Vougiouklakis. *"Poisoning suicide with ingestion of the pyrethroids alpha-cypermethrin and deltamethrin and the antidepressant mirtazapine: a case report."* 54th Annual Meeting of The International Association of Forensic Toxicologists (TIAFT 2016), August 28-September 1, 2016, Brisbane, Australia.

3. Vassiliki A. Boumba*, Georgios Rallis, Petros Petrikis, Venetsanos Mavreas, Theodoros Vougiouklakis. *"Simultaneous determination of bupropion, citalopram, fluvoxamine and sertraline in human serum by GC/MS with solid-phase extraction."* 53rd Annual Meeting of the International Association of Forensic Toxicologists (TIAFT 2015), August 30-September 4, 2015, Firenze, Italy.

4. Vassiliki A. Boumba*, Petros Petrikis, Georgios Rallis, Maria Baou, Theodoros Vougiouklakis, Venetsanos Mavreas. *"Monitoring Antipsychotic Drugs in Psychiatric Patients from Epirus, northwestern Greece."* 12th World Congress of Biological Psychiatry, June 14-18, 2015, Athens, Greece.

5. Vassiliki A. Boumba*, Georgios Rallis, Petros Petrikis, Venetsanos Mavreas, Theodoros Vougiouklakis. *"A simple methodology for the determination of clomipramine, mirtazapine, venlafaxine, clozapine, haloperidol and olanzapine in human serum using SPE - GC/MS."* 52nd Annual Meeting of The International Association of Forensic Toxicologists (TIAFT 2014), November 9-13, 2014, Buenos Aires, Argentina.

6. Rallis Georgios, Boumba Vassiliki*, Sakkas Vassilios, Fragkouli Kleio, Siozios Georgios, Albanis Triantafyllos, Vougiouklakis Theodore. *"Residues of persistent organochlorine pollutants (POPs) in human lungs from autopsy cases in Epirus, North-Western Greece."* 51st Annual Meeting of The International Association of Forensic Toxicologists (TIAFT 2013), September 2-6, 2013, Funchal, Madeira / Portugal.

7. Georgios Rallis, Vasilios Sakkas*, Triantafyllos Albanis. *"Chemometrics-assisted matrix solid-phase dispersion (MSPD) for the determination of diuron in fish tissue by high-performance liquid chromatography (HPLC-UV/DAD)."* 7th International Conference Aegean Analytical Chemistry Days, (AACD 2010), September 29-October 03, Mytilene, Greece.

EDITORIAL & PEER-REVIEW ACTIVITIES

Guest Editor Assistant, *Separations* (MDPI), Special Issue Analytical Methods for Nitrosamines and NDSRIs in Pharmaceuticals, 2026.

PROFESSIONAL MEMBERSHIPS:

- Royal Society of Chemistry (MRSC)
- Association of Greek Chemists

PROFESSIONAL TRAININGS & CERTIFICATIONS:

- **2025** – *Method transfer LC-MS/MS Triple Quad 5500+ System SCIEX* – Sciex, Antisel
- **2025** – *Advanced training LC-MS/MS Triple Quad 5500+ System SCIEX* – Sciex, Antisel
- **2023** – *APCI source operation and practical use for ionization of small molecules using a SCIEX QTRAP® Triple Quad 5500+™ Mass Spectrometer* – Sciex, Antisel
- **2022** – *Training SCIEX QTRAP® Triple Quad 5500+™* – Sciex, Antisel
- **2022** – *Pharmaceutical stability evaluation* – BII World Ltd
- **2020** – *In vitro dissolution testing* – Agilent
- **2017** – *Basic training SHIMADZU GCMS-TQ8040 with autosampler AOC-20i* – Shimadzu, Asteriadis SA
- **2016** – *ISO/IEC 17025:2005 “General requirements for the competence of testing and calibration laboratories”* – Association of Greek Chemists
- **2015** – *ISO 22000:2005 “Basic principles of food safety management systems”* – TÜV Hellas

PUBLICATIONS ANALYSIS:

No	Peer-reviewed journal	Year	1 st author	2 nd author	Impact factor	Citations Scopus	Citations Research Gate
1	Journal of Liquid Chromatography & Related Technologies	2025	X <i>Corresponding author</i>	-	1.120	1	1
2	Current Psychopharmacology	2019	-	-	-	-	2
3	Forensic Science International	2017	-	X	1.974	11	13
4	Journal of Chromatography B	2016	-	X	2.603	39	40
5	Annals of Chromatography and Separation Techniques	2016	X	-	-	-	4
6	Schizophrenia Research	2016	-	-	3.986	27	32
7	Journal of Toxicology and Environmental Health Part A	2014	X	-	2.351	8	11
8	Journal of Chromatography A	2012	X	-	4.612	53	54
Total			4	2	16.646	139	157