

CURRICULUM VITAE

Surname: SAZAKLI
First name: ELENI
Occupational field: Chemistry
Master of Science in Environmental Analysis, Chemistry
Doctoral dissertation in Public Health, Medicine
Post-doc in Environmental Epidemiology

Current status: Post-doctoral researcher (Chemist), Laboratory of Public Health, Faculty of Medicine, University of Patras, Greece.

Education

2012-2013: Training in the field of **Environmental Epidemiology** in Centre for Research in Environmental Epidemiology (CREAL), Barcelona, Spain. (16 months).

2012: Attendance of the course “**Epidemiological methods**” in the frame of the Interuniversity Master's degree in “**Public Health**”, University of Pompeu Fabra (UPF) and Autonomous University of Barcelona (UAB), Barcelona, Spain.

2008-2011: **Masters' Degree**, “Environmental Analysis” Department of Chemistry, University of Patras, Greece. Thesis: “Determination of volatile halogenated hydrocarbons in the atmosphere”. 2011.

1997-2005: **Doctoral dissertation**, Lab of Public Health, Environmental Microbiology, Faculty of Medicine, University of Patras, Greece. Dissertation: “Identification and typing of *Pseudomonas* species isolated from the aquatic environment in Greece by biochemical, electrophoretical and molecular techniques”.

1997-2000: Enology specialty, Department of Chemistry, University of Patras.

1991 - 1996: **Bachelors' Degree**, Department of Chemistry, University of Patras, Greece.

Post-doctoral research

2012 – 2014: Funding for post-doc research project: “**Hexavalent chromium in drinking water; Effects on human health**” (code PE10_1352), implemented within the framework of the Action «Supporting Postdoctoral Researchers» of the Operational Program "Education and Lifelong Learning" (Action's Beneficiary: General Secretariat for Research and Technology), and co-financed

by the European Social Fund (ESF) and the Greek State.

Workshop attendance

2013: Attendance of 26th Residential Summer Course in the framework of **European Educational Programme in Epidemiology**: Advanced statistical topics and Environmental and Occupational Epidemiology, Florence, Italy.

2009: SETAC Short Course Program 2009: “Modelling comparative risk of toxics on humans and ecosystems”. Göteborg, 30 May 2009.

2003: 8th International Symposium of the ISSA Research Section "Tools for the application of European Directives on health at the work place. The example of chemical risk". 2003. National Center of Scientific Research "Demokritos" Athens, Greece.

Seminars – E-learning

2014: “MCB80.1x: Fundamentals of Neuroscience, Part I” by HarvardX, through edX. Grade 72%. Duration: 8 weeks.

2013: “CTB3365x Introduction to Water Treatment” by Delft University of Technology. Grade 90%. Duration: 10 weeks.

2013: “Our Energetic Earth - OEE101x” by University of TorontoX. Grade 85%. Duration: 6 weeks.

2013: “Writing in the Sciences” by Stanford University. Grade 92%. Duration: 8 weeks.

2012: “PH207x: Health in Numbers: Quantitative Methods in Clinical & Public Health Research” by HarvardX, through edX. Grade 97%. Duration: 12 weeks.

Skills and Qualifications

1. Foreign languages: Certificate of Proficiency in English, Cambridge University (grade A)
2. Extensive knowledge of SPSS and Stata statistical programs.
3. Cambridge International Diploma in IT Skills, Standard Level Module Certificate in a) Word Processing b) Spreadsheets c) Electronic Communication. 2008.
4. Accredited analyst by ESYD (Certificate No 550)

5. Consultant in Environmental and Chemico-technical studies. Certification No. 16532. Ministry of Environment, Energy & Climate Change.

Teaching experience

Lecturer at Democritus University of Thrace, Faculty of Agricultural Development during 2007-2008. Teaching courses: a) “Cereals’ processing” (5 hours weekly), b) “Vegetables’ processing” (5 hours weekly), c) “Agricultural wastewaters’ and wastes’ management” (5 hours weekly) to 8th semester students.

2011 & 2013: Teaching of the modules “Air pollutants of natural and anthropogenic origin. Environmental and Health impact” and “Chemical Risk and Epidemiological Effect. The case of Chromium” in the framework of the course: “Health promotion-Disease Prevention-Community Medicine” for under-graduated students of Medical School, University of Patras, Greece.

Supervision in training of under-graduated students of Department of Chemistry in laboratory exercises for the courses “Instrumental Chemical Analysis” and “Quantitative Analysis” and of under-graduated students of Medical School in laboratory exercises for the course “Public Health”.

Invited speaker / trainer in 4 seminars dealing with: “Water environment and public health”

Research activity

My research activity focuses on i) evaluation of the environmental compartments’ quality in both chemical and microbiological aspects and ii) risk assessment and epidemiological effect.

Since 1999 I have participated in approximately 40 research programs of the Lab of Public Health, Faculty of Medicine, University of Patras. These research programs deal with the determination of macroelements and microelements, heavy metals, toxic substances (PAHs, OCPs, PCBs, THMs, mycotoxins etc) in water, wastewater, soil, air and food samples. I have taken part as a researcher in programs concerning the assessment of the pollution status of marine ecosystems and the dredges’ toxicity, the investigation of the possible effects through the land disposal of sludge etc.

During my post-graduate education and my post-doctoral activity I have applied classical analytical chemical methods for the determination of cations and anions, atomic absorption spectrophotometry (AAS) in flame, graphite furnace and hydride generation modes as well as Gas Chromatography equipped with Mass Spectroscopy (MS), Flame Ionization Detector (FID), Electron Capture Detector (ECD), Nitrous-Phosphorus Detector (NPD) and High Performance Liquid Chromatography (HPLC).

As far as the microbiological quality is concerned, I have applied techniques for the determination of common microbiological indices as well as for specialized microbiological parameters (parasites etc.) in water, wastewater and food samples.

As accredited analyst of the Lab, I have participated in 13 international interlaboratory proficiency tests organized by: i) Marine Environmental Laboratories of the International Atomic Energy Agency (IAEA-MEL) as part of the program MED-POL, ii) the LGC group and iii) the General Chemical State Laboratory of Greece. The proficiency tests dealt with the determination of trace elements in waters, sediments and tissues, chemical parameters (anions and cations) in water samples, persistent organic pollutants (PAHs) in water samples, as well as pollution loading in wastewater samples (COD, BOD, N, P etc).

Publications

Full papers in international peer-reviewed scientific journals: 15

Proceedings papers: 9

Book chapter: 1

Presentations in international conferences: 12

Presentations in domestic conferences: 9

Citations: 200 citations (according to the Scopus and ISI databases). Total impact factor: 31.036.

Reviewer in international scientific journals: Desalination, Science of the Total Environment, Water Science and Technology, Global NEST

Indicative publications

▶ Demos K., Sazakli E., Jelastopulu E., Charokopos N., Ellul J., Leotsinidis M. 2013. Does Farming Have an Effect on Health Status? A Comparison Study in West Greece. *International Journal of Environmental Research and Public Health*.

10(3):776-792.

- ▶ Pytharopoulou S., Grintzalis K., Sazakli E., Leotsinidis M., Georgiou C.D. and Kalpaxis D.L. 2011. Translational responses and oxidative stress of mussels experimentally exposed to Hg, Cu and Cd: One pattern does not fit at all. *Aquatic Toxicology* **105** (1-2): 157-165.
- ▶ Glavas S.D., Sazakli E. 2011. Ozone long-range transport in the Balkans. *Atmospheric Environment* **45**: 1615 – 1626
- ▶ Kalavrouziotis I., Kostakioti E., Koukoulakis P.H., Papadopoulos A.H., Leotsinidis M., Sazakli E. 2011. The Impact of Cl × Cd Interrelationship on Planning Wastewater Reuse in Cabbage. *Water, Air and Soil Pollution* **214**: 565 - 573.
- ▶ Tsiboukis D., Sazakli E., Gortzi O., Hadjichristodoulou C., Matara C., Leotsinidis M. 2010. Assessing quality of raw milk in Southern Greece in the aspect of certain benzimidazole residues. *Food Additives and Contaminants: Part B Surveillance* **3** (2) 73-79.
- ▶ Leotsinidis M., Sazakli E. 2008. Evaluating contamination of dredges and disposal criteria in Greek coastal areas. *Chemosphere* **72**, 811-818.
- ▶ Sazakli E., Alexopoulos A. and Leotsinidis M. 2007. Rainwater harvesting, quality assessment and utilization in Kefalonia Island, Greece. *Water Res* **41**, 2039-2047.
- ▶ Pytharopoulou S., Kouvela E.C., Sazakli E., Leotsinidis M., Kalpaxis D.L. 2006. Evaluation of the global protein synthesis in *Mytilus galloprovincialis* in marine pollution monitoring: Seasonal variability and correlations with other biomarkers. *Aquatic Toxicology* **80**, 33-41.
- ▶ Sazakli E., Leotsinidis M., Vantarakis A. and Papapetropoulou M. 2005. Comparative typing of *Pseudomonas* species isolated from the aquatic environment in Greece by SDS-PAGE and RAPD analysis. *J Appl. Microbiol.* **99**, 1191-1203.
- ▶ Vynios D.H., Papageorgakopoulou N., Sazakli H., Tsiganos C.P. 2001. The interactions of cartilage proteoglycans with collagens are determined by their structures. *Biochimie* **83**, 899-906.