

CURRICULUM VITAE

Family name: SARU

First name: MARIA-LILIANA

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Date of birth: 30.08.1984

Nationality: ROMANIAN

Civil status: MARRIED

Education:

Institution [Date from – Date to]	Degree(s) or Diploma(s) obtained:
MAICh [2008-2009]	Master in Food Quality Management and the Chemistry of Natural Products: Evolution of the phenolic profile and antioxidant activity in vinegar during acetification: the case of raisin and wine vinegars
MAICh [2007-2008]	Post Graduate Specialization Diploma (DSPU) in Food Quality Management and the Chemistry of Natural Products
Babes Bolyai University [2003-2007]	Bachelor Degree in Chemistry
Mihai Viteazul High school [1999-2003]	Computer operating

Language skills: English (excellent), Romanian (excellent), French (good), Italian (good), Spanish (basic)

Key qualification:

ICP-MS, IC, ICP-OES, UV-Vis Spectroscopy, TC/TN analyzer, CE, TLC, HPLC, HPLC-MS, GC, Water analysis, Soil analysis, Meat products analysis: polyphenols, T BAR, Peroxide value, Yoghourt: polyphenol analysis, Olive oil analysis.

Other expertise:

Full Operation of Microsoft office programs, ChemDraw, Statistica, Hyperchem, Topocluj, Alchemy 2000.

Positions held:

December 2009 – continuing: Chemist at the Technical University of Crete – Department of Environmental Engineering – Laboratory of Hydrogeochemical Engineering and Soil Remediation. Performed chemical analyses and sampling for the following programs: SoilTrec, Mirage, EOX-DEDISA, Charm, Condense Investigation of the quality of surface and underground water in Chania Prefecture, Kill*Spill, Triton EC, RECARE, ΣΥΓΑΠΕΖ, Leaching of chemicals of environmental concern from used heated tobacco sticks to natural water and comparison with leaching from smoked conventional cigarettes & WaysTUP.

September 2008 – December 2009: Laboratory Officer in the Laboratory of Food Chemistry, Natural Products and Analytical Chemistry, Mediterranean Agronomic Institute of Chania (MAICh).

Educational seminars:

Specialized Training Program in IC by Thermo Scientific October 2013 at the Bank of Chania,

Specialized Training Program in ICP-MS and LC-MS on October 15-16, 2011 by the

Union of Greek Chemists at the Bank of Chania,

Specialized Training Program in ICP-OES PS-1000 Operation by Leeman Labs, on October 16-17, 2008 in the Mediterranean Agronomic Institute of Chania, Greece.

Conference communications:

1. E. Psillakis, N. Koutela, M.-L. Saru, and E. Fernández, “Leaching of metals from cigarettes and heated tobacco sticks in natural water”, EGU General Assembly 2019, April 7-12, 2019, Vienna, Austria.
2. Galliou, F, M. Fountoulakis, J. Sampathianakis, N. Markakis, A. Papadaki, G. Daskalakis, P. Tzaferou, T. Manios, M. Saru, N. P. Nikolaidis, P. Paraskevopoulos, A. Niarhos, E. Vlasi, M. Kalogeropoulos, P. Spyropoulou, G. Giannakis, Mikeoglou, F. Christodoulopoulos A. Papadopoulou, N. Mortimer, L. Fletcher and E. Stentiford, 2016. THE CONDENSE LIFE PROJECT, ORBIT 2016, 10th International Conference on "Circular Economy and Organic Waste", May 25-28, Herakleion, Crete, Greece.
3. Galliou F., M. Fountoulakis, J. Sampathianakis, N. Markakis, A. Maragkaki, A. Papadaki, G. Daskalakis, P. Tzaferou, M. Saru, N. Nikolaidis, T. Manios, 2016. THE CONDENSE’ S FERTILIZER AGRONOMIC EVALUATION, ORBIT 2016, 10th International Conference on "Circular Economy and Organic Waste", May 25-28, Herakleion, Crete, Greece.
4. Galliou F., M. Fountoulakis, J. Sampathianakis, N. Markakis, A. Maragkaki, A. Papadaki, G. Daskalakis, P. Tzaferou, M. Saru , N. Nikolaidis, T. Manios, 2016. THE CONDENSE’ S FERTILIZER PRODUCTION PROCESS, ORBIT 2016, 10th International Conference on "Circular Economy and Organic Waste", May 25-28, Herakleion, Crete, Greece.
5. Nikolaidis, N.P., L. Demetropoulou and M. L. Saru, 2012, Land application of biosolids: Benefits, Risks and Cost, WWRP2012, Herakleion, 28-30 March.
6. Maria Liliana Saru, Evaluation of the lipophilicity of some gold complexes. A new scale of lipophilicity. The 4th International Conference “Students for students”, Cluj –

Napoca, Cluj, Romania, 20-22 April 2007.

7. Maria Liliana Saru, Costel Sârbu, Evaluation of the lipophilicity of bile acids and their derivatives by Thin Layer Chromatography and Principal Component Regression, Instrumental Methods of Analysis. Modern Trends and Applications. Heraklion, Crete, Greece. 2-6 October 2005. Poster
8. Maria Liliana Saru, Evaluation of the lipophilicity of bile acids and their derivatives by TLC and principal component analysis, The 2nd International Conference “Students for students”, Cluj – Napoca, Cluj, Romania, 8-10 April 2005.

Publications:

1. A-M Liliou, M-L Saru, A. Veksha, G. Lisakb, A. Giannis *, “Selective leaching of scandium and yttrium from red mud induced by hydrothermal treatment”, Journal of Chemical Technology and Biotechnology, 2021, 96, 2620-2629 (<https://doi.org/10.1002/jctb.6805>)
2. N. Koutela, E. Fernández, M.-L. Saru and E. Psillakis*, “A comprehensive study on the leaching of metals from heated tobacco sticks and cigarettes in water and natural waters” Science of the Total Environment, 2020, 714, 136700 (<https://doi.org/10.1016/j.scitotenv.2020.136700>)
3. I. Petousi, M.S. Fountoulakis, M-L. Saru, N. Nikolaidis, L. Fletcher, E.I. Stentiford, T. Manios, “Effects of reclaimed wastewater irrigation on olive (*Olea europaea* L. cv. 'Koroneiki') trees”, Agricultural Water Management, 2015, 160, 33–40 (<http://dx.doi.org/10.1016/j.agwat.2015.06.003>)
4. S. Moussouni, M-L. Saru, E. Ioannou, M. Mansour, A. Detsi, V. Roussis, P. Kefalas, “Crude peroxidase from onion solid waste as a tool for organic synthesis. Part II: oxidative dimerization–cyclization of methyl p-coumarate, methyl caffeate and methyl ferulate”, Tetrahedron Letters, 2011, 52, 1165-1168 (<https://doi.org/10.1016/j.tetlet.2011.01.004>)