

Curriculum Vitae

First name, last name: Sonia A. Socaci

Date and Place of Birth: 31.05.1982, Ocna Mureș

Languages: English, French, Italian

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Domains of interest and competence:

Food Chemistry (GC-MS, HS/GC-MS, ITEX-GC-MS analyses), Bioactive compounds, Exploitation of food wastes, Biotechnology, Food additives, Food control and authentication, Functional foods, Method optimization (design of experiments), Chemometry



Education:

Institution	Period	Degrees or diplomas
University of Agricultural Sciences and Veterinary Medicine, Cluj-Napoca	2019	Habilitation in Biotechnology
University of Agricultural Sciences and Veterinary Medicine, Cluj-Napoca	2006 - 2009	PhD in Biotechnology
University of Agricultural Sciences and Veterinary Medicine, Cluj-Napoca	2004 - 2006	MSc in Food Quality Management
Faculty of Chemistry, UBB Cluj	2004 - 2005	MSc in Applied Electrochemistry
Faculty of Chemistry, UBB Cluj	2000 - 2004	BSc in Chemistry MSc

Professional experience:

Institution	Period	Position	Description
Faculty of Food Science and Technology, UASVM-CN	2016 - present	Vice-dean for Research	Management of research activities, increase the scientific visibility of faculty members, associate editor of the faculty journal (indexed in Web of Science)
UASVM-CN, Laboratory for Testing Food Quality and safety	2013 - present	Head of research laboratory	Management of research activities, development and optimization of analysis methods
Faculty of Food Science and Technology, UASVM-CN	2020 - present	Professor	Teaching and research activity in food chemistry (physico-chemical analysis, GC-MS, HS/GC-MS, ITEX/GC-MS analysis), analysis of essential oils, Food authentication, Food additives, food safety, functional foods
	2017 - 2020	Associate professor	
	2013 - 2017	Lecturer	
	2009 – 2013	Assistant professor	
University of Agricultural Sciences and Veterinary Medicine	2011 –2013	Post-doc fellowship	FSE POSDRU/89/1.5/S/60746 project, research theme: Applied chemometry for food products authentication
University of Agricultural Sciences and Veterinary Medicine	Jul – Oct 2006	Chemist	Food Chemistry (GC-MS, HS/GC-MS, ITEX-GC-MS analysis)

Training/courses:

	Period	Description / diplomas
Course "Specialists in staff training and development"	2018	certificate series L, no. 00161079 / 20.02.2018, released by MMFPS and MECTS
Course e-learning "Nutrition101x: Nutrition and Health part 1: Macronutrients and Overnutrition"	2015	Wageningen University through edX
Course e-learning „CHEM181x: Food for Thought"	2014	McGill University through edX
Course e-learning „Child Nutrition and Cooking 2.0"	2014	Stanford University through Coursera Inc
Course „Principles and Methods of Food Authenticity"	2011	MoniQA Food Scientist Training in E-Learning (eFST)
Course "Research Management"	2012	Graduation certificate (project manager skills) series G no. 00237579, released by MMFPS and MECTS, 27.06.2012
Master course „Food and Health"	2007	Socrates Intensive Program, collaboration UASVM Cluj-Napoca, University of Gent - The Graduate School of VLAG, Wageningen

Research projects:

Coordinator:

- **Project PN-III, Human Resources – TE, 2018 – 2020:** New integrated approach for food waste valorization, contract 60/02.05.2018
- **Project PN-II, Human Resources –TE, 2015 – 2017:** Natural extracts of bioactive compounds from the residue of brewer's spent grain with application in the development of new functional foods, contract 52/01.10.2015, www.bioencapbread.com
- **Project PN-II, Innovation Checks, oct. 2013-apr. 2014:** Development of a functional bread fortified with brewers' spent grain flour, contract 188CI/21.10.2013
- **Project PN II, Human Resources – TD, 2008-2009:** Optimization of GC-MS methods for the determination of essential oils from aromatic and medicinal plants fingerprint, contract 160/16.09.2008
- **2016 – 2019:** 5 contracts with SMEs for services and consultancy in food science

Member: in over 20 national/international research projects

Publications:

9 chapters in international books (5 as main author)

Editor to 1 international book: Food Preservation and Waste Exploitation, Intech, ISBN: 978-1-78985-426-8

70 ISI scientific papers;

3 university practical guides and 2 text books (food additives, food authenticity, functional compounds)

> 50 scientific papers published in International Database journals

Relevant ISI articles and scientific books/chapters

1. A. Fărcaș, **Sonia A. Socaci**, Zorița Diaconeasa, **2020**, Introductory Chapter: From Waste to New Resources în Food Preservation and Waste Exploitation, Intech, Croația, ISBN: 978-1-78985-426-8, DOI: 10.5772/intechopen.89442

2. **Socaci Sonia A.**, A. Fărcaș, M. Tofană, **2020**, Functional Ingredients derived from aromatic plants în Feed Additives – Aromatic Plants and Herbs in Animal Nutrition and Health, Academic Press, Elsevier, ISBN 9780128147009, <https://doi.org/10.1016/B978-0-12-814700-9.00008-X>
3. Călinoiu L., A. Fărcaș, **S. Socaci**, D.C. Vodnar, **2019**, Innovative Sources in Nutraceutical and Natural Products Pharmaceuticals, Academic Press, Elsevier, <https://doi.org/10.1016/B978-0-12-816450-1.00008-8>
4. Daniel Cruceriu, Zorita Diaconeasa, **Sonia Socaci**, Carmen Socaciu, Ovidiu Balacescu, Elena Rakosy-Tican, **2020**, Extracts of the Wild Potato Species *Solanum chacoense* on Breast Cancer Cells: Biochemical Characterization, In Vitro Selective Cytotoxicity and Molecular Effects, Nutrition and Cancer, <https://doi.org/10.1080/01635581.2020.1761407>
5. Alexandra D. Frond, Cristian I. Iuhas, Ioana Stirbu, Loredana Leopold, **Sonia Socaci**, Stanilă Andreea, Huseyin Ayvaz, Socaciu Andreea, Socaciu Mihai, Zorița Diaconeasa, Carmen Socaciu, **2019**, Phytochemical Characterization of Five Edible Purple-Reddish Vegetables: Anthocyanins, Flavonoids, and Phenolic Acid Derivatives, *Molecules*, 24, 1536; doi:10.3390/molecules24081536
6. Pop Oana L., **Socaci Sonia A.**, et al., **2019**, Pro and prebiotics foods that modulate human health *in* The role of alternative and innovative food ingredients and products in consumer wellness, Academic Press, Elsevier, ISBN 978-0-12-816453-2, pp 283 – 313
7. **Socaci Sonia A.**, et al., **2018**, Introduction in Functional Components for Membrane Separations, *in* Separation of Functional Molecules in Food by Membrane Technology, Academic Press, Elsevier, ISBN 978-0-12-815056-6, 31-77, <https://doi.org/10.1016/B978-0-12-815056-6.00002-4>
8. **Socaci Sonia A.**, et al., **2017**, Food Wastes as Valuable Sources of Bioactive Compounds, *in* Functional Food-Development of Superfood and its Role in Medicine, Intech, Croatia, ISBN 978-953-51-2942-4, p 75-93, DOI: <http://dx.doi.org/10.5772/66115>
9. Fogarasi Melinda, **Sonia Ancuța Socaci** (corresponding), et al., **2018**, Bioactive Compounds and Volatile Profiles of Five Transylvanian Wild Edible Mushrooms, *Molecules*, 23, 3272
10. **Socaci Sonia A.**, et al., **2018**, Influence of the extraction solvent on phenolic content, antioxidant, antimicrobial and antimutagenic activities of brewers' spent grain, *J Cereal Sci*, 80: 180-187
11. Fărcaș Anca C., **Sonia A. Socaci** (corresponding), et al., **2015**, Volatile profile, fatty acids composition and total phenolics content of brewers' spent grain by-product with potential use in the development of new functional foods, *J Cereal Sci*, 64, 34-42
12. **Socaci Sonia A.**, et al., **2014**, Chemometric discrimination of different tomatoes cultivars based on their volatile fingerprint in relation to lycopene and total phenolics content, *Phytochem Anal*, 25(2):161–9
13. **Socaci Sonia A.**, et al., **2013**, In-tube extraction and GC-MS Analysis of Volatile Components from Wild and Cultivated sea buckthorn (*Hippophae rhamnoides* L. ssp. *Carpatica*) Berry Varieties and Juice, *Phytochem Anal*, 24(4), 319-328

Scientometric indicators:

ISI publications: 70

H-index: WoS 9 (237 citations without self-citations);
 Google Scholar 13 (786 citations);
 Scopus 8 (247 citations)

Associate Editor (2016- present) – Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca – Food Science and Technology (journal indexed in WoS)

Guest Editor (2019 – present) – Sustainability journal (IF 2.576), Special Issue “High Added-Value Molecules Recovered from Agri-Food Waste and by-Products”

Professional affiliations:

2016 – present, member of Slow Food Cluj Transylvania

2016 – present, member of ISEKI-Food Association (group of Food Waste Recovery)

2015 – present, member of EPSO (European Plant Science Organization) and national representative since 2020

2011 – present, member of Romanian Society of Biochemistry