

## **Curriculum Vitae**

## Vicas Simona Ioana



## WORK EXPERIENCE From 2020 -present Professor University of Oradea, Environmental Protection Faculty, Oradea, Romania teaching the course of Biochemistry, Organic Chemistry, Additives and ingredients in the food industry, - coordination biochemistry, organic chemistry, food additives laboratory classes research activities Ph.D. Supervisor From 2016 -present I.O.S.U.D. Doctoral School of Biomedical Sciences, Biology Domain. University of Oradea From 2008 – 2020 Associate professor University of Oradea, Environmental Protection Faculty, Oradea, Romania teaching the course of Biochemistry, Organic Chemistry, Additives and ingredients in the food industry, - coordination biochemistry, organic chemistry, food additives laboratory classes research activities From 2003 to 2008 Lecturer University of Oradea, Environmental Protection Faculty, Oradea, Romania teaching the course of Biochemistry, Organic Chemistry - coordination biochemistry, organic chemistry laboratory classes research activities From 2000 to 2003 Assistant university University of Oradea, Environmental Protection Faculty, Oradea, Romania - coordination biochemistry, organic chemistry laboratory classes research activities From 1997 to 2000 Teaching assistant University of Oradea, Environmental Protection Faculty, Oradea, Romania coordination biochemistry laboratory classes research activities



EDUCATION AND TRAINING From 2011- to 2013	Postdoctoral researc	h fellowship			
	Institute of Biochemistry, Postdoctoral Program EUROPEAN SOCIAL FUND Cellular and Molecular Biotechnologies for Medical Applications, Bucharest				
From 2002-to 200	<ul> <li>Genomics, Proteomi</li> <li>OrPhD Degree in Biotect</li> <li>University of Agricultura</li> <li>The title of PhD thesi Carmen Socaciu)</li> </ul>	cs, Metabolomics si Bio chnology al Science and Veterina s: Biochemical analysi	oinformatics: Molecular ary Medicine Cluj Napo is and evaluation of sol	r markers for food auth oca, Romania <i>me flavonoids activity,</i> (	entification PhD supervisor: Prof.
From April 2006-to Octomber 200	6Postdoctoral researc Kobe University, Japar Nutritional Chemistry	h fellowship n, Faculty of Agricultur	e, Department of Biofi	unctional Chemistry, La	aboratory of Food &
From 2004-to 200	<ul> <li>Cytotoxicity assessing electrophoresis of DN</li> <li>Master Degree in <sup>-</sup></li> <li>University of Orada</li> </ul>	nent of vegetable exi IA Feacher Training	tracts on suspension	tumor cells by MIS	5 assay, Agarose gel
From 1995-to 199	96 Master Degree in Mo	a, Romania <b>lecular Biology</b>			
From 1990-to 199	<ul> <li>Faculty of Biology, Ur</li> <li>Bachelor of Science</li> </ul>	niversity of Bucharest, F	Romania		
	<ul> <li>Faculty of Biology, Ur</li> </ul>	niversity of Bucharest, F	Romania		
Mother tongue(s)	Romanian				
Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
	Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user Common European Framework of Reference for Languages				
Communication skills	Teamwork, good communication skills and organizational capacity analysis. Handling ability of some research equipments.				
Organisational / managerial skills	Project manager of some national projects (6) and members of research national and international projects (12) Member of organization committees of some national and international scientific events Member of the Senate of the University of Oradea (2012-2020); 2016-2020-Chair of the Scientific Research Commission of the UO Senate.				
Job-related skills	<ul> <li>Food Science - bioactive compounds, functional foods, food additives, chromatographic techniques</li> <li>Chemistry (physico-chemical analysis, HPLC analysis), extraction of bioactive compounds from different vegetable matrix, food additives, development of new innovative food products, functional foods</li> <li>Obtaining and characterisation of metal nanoparticles using plant extracts as reducing agents.</li> </ul>				
Digital skills	SELF-ASSESSMENT				
	Information	Communication	Content creation	Safety	Problem solving

Independent user

Independent user

Independent user

Independent user

Independent user



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Computer skills and competences	Microsoft Office (Word, Excel, Power Point, Access),					
	Origin 7, EndNote, Shimadzu LC Solution Software, Graph Prism 5					
Driving licence	B category					
ADDITIONAL INFORMATION						
Publications (10 selected publications)	<ol> <li>Memete, A.R.; Sărac, I.; Teusdea, A.C.; Budău, R.; Bei, M.; Vicas, S.I. Bioactive Compounds and Antioxidant Capacity of Several Blackberry (Rubus spp.) Fruits Cultivars Grown in Romania. Horticulturae 2023, 9, 556. https://doi.org/10.3390/horticulturae9050556</li> </ol>					
	<ol> <li>Kleszken, E.; Purcarea, C.;Pallag, A.; Ranga, F.; Memete, A.R.;Miere (Groza), F.; Vicas, S.I. Phytochemical Profile and Antioxidant Capacity of <i>Viscum album</i> L. Subsp. album and Effects on Its Host Trees. Plants 2022, 11, 30; https://doi.org/10.3390/plants11223021</li> </ol>					
	<ol> <li>Vicas SI, Laslo V, Timar AV, et al. Nano Selenium-Enriched Probiotics as Functional Food Products against Cadmium Liver Toxicity. Materials (Basel). 2021 Apr 27;14(9):2257. doi: 10.3390/ma14092257. PMID: 33925590; PMCID: PMCB123892</li> </ol>					
	<ol> <li>Vicas, S.I.; Laslo, V.; Timar, A.V.; Balta, C.; Herman, H.; Ciceu, A.; Gharbia, S.; Rosu, M.; Mladin, B.; Fritea, L.; et al. Functional Food Product Based on NanoseleniumEnriched Lactobacillus casei against Cadmium Kidney Toxicity. Appl. Ci. 2020, 14, 4200, https://doi.org/10.0200/crs.14004020.</li> </ol>					
	<ol> <li>Vicas S.I, Cavalu S., Laslo V., Tocai M., Costea T., Moldovan L. 2019. Growth, Photosynthetic Pigments, Phenolic, Glucosinolates Content and Antioxidant Capacity of Broccoli Sprouts in Response to Nanoselenium Particles Supply.</li> </ol>					
	<ol> <li>Not Bot Hort Agrobo, 47(3):821-828</li> <li>Chedea, VS, Vicaş, SI, Sticozzi, C, Pessina, F, Frosini, M, Maiolic E, Valacchi G. 2017. Resveratrol: from diet to topical usage. Food &amp;Funct., 8, 3879-92</li> </ol>					
	<ol> <li>Vicas SI, Bandici L., Teusdea A, Turcin V., Popa D., Bandici G., 2017, The bioactive compounds, antioxidant capacity, and color intensity in must and wines derived from grapes processed by pulsed electric field. CyTA - Journal of Food, 15 (4), 553-562</li> </ol>					
	<ol> <li>Vicas S.I., Teusdea A., Carbunar M., Socaci S., Socaciu C., 2013, Glucosinolates Profile and Antioxidant Capacity of Romanian Brassica Vegetables obtained by Organic and Conventional Agricultural Practices", Plant Foods for Human Nutrition, 68 (3) 313 21</li> </ol>					
	<ol> <li>Vicas S.I., Chedea V., Socaciu S., 2011 Inhibitory effects of isoflavones on soybean lipoxygenase-1 activity, Journal of Food Biochemistry. 35, 613-627</li> </ol>					
	<ol> <li>Vicas S.I., Rugină D., Leopold L., Pintea A., Socaciu C., 2011 HPLC Fingerprint of Bioactive Compounds and Antioxidant Activities of Viscum album from Different Host Trees, Notulae Botanicae, 39 (1), 48-57</li> </ol>					
Research projects	Project manager (6 projects) Research grant INO – TRANSEER – I/O no. 250/2022 Innovative technology for obtaining a functional food product based					
	on meat without synthetic additives					
	Research grant INO - TRANSFER - UO no. 309/2021 In vitro studies on the evaluation of the protective effects on dermal					
	fibroblasts and epidermal keratinocytes subjected to oxidative stress of plant extracts rich in flavonoids embedded in					
	nanocapsules. PN III-P2-2.1-PED-2016-1846/2017 Nano Selenium - Enriched Probiotics as Functional Food Products Against Heavy Metals Toxicity					
	PN-II-IN-CI-2012-1-0295 Optimisation of a food suppliment with antioxidant and antitumor proprieties					
	PN-II-IN-CI-2012-1-0327 Obtaining tea from non-conventional plant origin sources rich in bioactive compounds					
	PN – II – ID – PCE – 2008 – 2, In vitro evaluation of antioxidant and anticancer effects of some European mistletoe (Viscum album) extracts characterized through taxonomic markers					
	Member in research projects (more than 10 projects)					
	Project_FDI_2022-0058 - "Development of multidisciplinary research and innovation capacities using emerging technologies_CIMTE"					
	PN-III-P2-2.1-CI-2017-0064 – Technological transfer for obtaining innovative therapeutic products based on nanopropolis					
	PN-III-P2-2.1-CI-2017-0428 The optimization of technological process in order to obtain innovative natural suppliments with positive impact on human health					
	PN-II-PT-PCCA-2013-4-2225 Electromagnetic methods for improving processes winery.					
	PN-II-IN-CI-2013-1-0015 Development of nutritional supplements from vegetable products containing bioactive compounds with antioxidant capacity					
	<b>PN-II-IN-CI-2012-1-025</b> 5 Establishing the technology for obtaining fruit juices with high antioxidant properties					



Conferences	
	Vicas S.I., Laslo V., Klezken E., Memete A.R., Fertig T.E., Marta D.S. In vitro antioxidant and antigenotoxic potential of Viscum album L. subsp. album. The Annual International Conference of RSBMB Cluj-Napoca, 13-15 September, 2023 Cluj- Napoca, Romania
	Vicas S.I., Cavalu S., Hermenean A., Green synthesis of nanoselenium particles as a functional products against in vitro and in vivo cadmium toxicity. 15th Edition of the Conference "New Trends in Chemistry Research", 21-22 September, 2023
	Vicas SI, Teusdea AC, Dzugan M., Socaciu C., 2014, HPLC screening of sprouts glucosinolates from commercial broccoli cultivars related to the germination time, Glucosinolates & Beyond, Proceeding/ 3rd International Glucosinolates Conference, Wageningen, The Netherlands, Poster 50, p115
	<ul> <li>Vicas S.I., Carmen Socaciu, 2011, HPLC Techniques used to Identify and Quantify Glucosinolates - A Class of S-Containing Phytochemicals from Brasicacee Sp. The Annual International Conference of the RSBMB &amp; <i>The Conference on "Cellular and Molecular Biotechnologies on Medical Applications</i>", Sept 28th-30th, Craiova, Romania, (P24).</li> <li>Vicaş S., Rugina D., Prokisch J., Socaciu C., 2009, Comparative antioxidant activity of European Misteroe (Viscum album) from different host trees, The FEBS Journal –Life's molecular interaction, vol.276 (1), p. 130 – 34 th FEBS Congress, July 4-9, 2009, Prague Czech Republic (P8-2972)</li> </ul>
	Hashimoto T., Vicaş S., Suzuki T., Sambongi K., Kanazawa K., 2007, Benalu teh induces apoptosis in Jurkat T cells, <i>The</i> <i>3rd International Conference on O-CHAT (Tea) Culture and Science, Health Benefits,</i> Shizuoka, Japan, November 2-4 p.101 (HB-P-702).
	Vicaş S., Okamoto M., Hashimoto T., Suzuki T., Sambongi K., Kanazawa K., 2007, Benalu teh activates drug-metabolizing phase II enzymes, The 3rd International Conference on O-CHAT (Tea) Culture and Science, Health Benefits, Shizuoka, Japan, November 2-4, p.102 (HB-P-703).
	Vicaş S., Hashimoto T., Okamoto M., Suzuki T., Sambongi K., Nobuchi M., Kanazawa K., 2006, Coffee cherry extract increase the activity of glutathione – S-transferase and quinone reductase in mice, <i>The Kadota Fund International Forum</i> ( <i>KIF): The Scientific Substantiation of Functional Foods: Human Studies toward the Global Standard</i> , November 21-22, p.45 (P 10).
Citations	Hirsch index: 19 (Web of Science) >600 citations
International book chapters	<ul> <li>Bandici L., Teusdea A.C., Oradan A.C., Bandici G.E., Vlad A.M. Vicaş S.I., 2021, Grape Pomace Generation Using Pulsed Electric Field Technology in Grape Pomace in Health and Disease Prevention. Chedea V.S., PhD. (Editor), Nova Science Publisher, ISBN: 978-1-68507-409-8, DOI:https://doi.org/10.52305/HINI5835</li> <li>Vicas SI., Teusdea A., Popa D., Bandici G., Bandici L., (2016). Obtaining high quality white and red wines by homogenization and treating grapes in pulsed electric field. Environmental Influence on the food quality and human health.</li> <li>M. Dzugan A. pastemakiewicz, M. Wesclowska (Eds.) (ISBN 978-83-7096-400-3 pp. 73-84.</li> </ul>
	Vicas SI., Teusdea A., Laslo V. (2015) The changes of some secondary metabolites from fruits and vegetables grown under organic and conventional agricultural practices, in Green Education for a Green Economy, Ed. Universitatii din Oradea, ISBN 978-606-10-1512-2, pp.147-159.
	Vicas S. I., Rugina D., Socaciu C. (2012). Antioxidant Activity of European Mistletoe (Viscum album), Phytochemicals as Nutraceuticals - Global Approaches to Their Role in Nutrition and Health, Dr Venketeshwer Rao (Ed.), ISBN: 978-953-51-0203-8, InTech.
	Chedea Veronica Sanda, Vicaş S. I., Carmen Socaciu, Tsutomu Nagaya, Henry Joseph Oduor Ogola, Kazushige Yokota, Kohji Nishimura and Mitsuo Jisaka. (2012). Lipoxygenase-Quercetin Interaction: A Kinetic Study Through Biochemical and Spectroscopy Approaches, Biochemical Testing, Dr. Jose C. Jimenez-Lopez (Ed.), ISBN: 978-953-51-0249-6, InTech.

Prof. Dr. Habil. Simona Ioana VICAS

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