



**PERSONAL INFORMATION** **Ramona Suharoschi** (nee Laslo)



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 Skype Ramona Suharoschi

**WORK EXPERIENCE**

- 01/10/2017–Present **Professor**  
University of Agricultural Sciences and Veterinary Medicine of Cluj, Cluj-Napoca (Romania)
- 10/2015–Present **Director of Food Science Department**  
University of Agricultural Sciences and Veterinary Medicine of Cluj, Cluj-Napoca (Romania)
- 01/10/2014–01/10/2016 **Associate Professor**  
University of Agricultural Sciences and Veterinary Medicine of Cluj, Cluj-Napoca (Romania)
- 22/02/2005–01/10/2014 **Lecturer**  
University of Agricultural Sciences and Veterinary Medicine of Cluj, Cluj-Napoca (Romania)
- 11/02/2002–21/02/2005 **Assistant professor**  
University of Agricultural Sciences and Veterinary Medicine of Cluj, Cluj-Napoca (Romania)
- 15/02/1999–11/02/2002 **Teaching Professor**  
University of Agricultural Sciences and Veterinary Medicine of Cluj-Napoca, Cluj-Napoca (Romania)  
Teaching and research activities  
Education and research
- 01/09/1997–15/02/1999 **medical doctor**  
Cluj County Hospital, Gynecology Clinic I of Cluj-Napoca, Cluj-Napoca (Romania)  
- Health care - Hospital
- 2008–2011 **QA at Food Industry and Science Department**  
University of Agricultural Sciences and Veterinary Medicine of Cluj-Napoca, Romania, Cluj- Napoca (Romania)  
QAS
- 2007–2010 **Researcher – proteomics determination**  
Oncologic Institute - Prof. Dr.I. Chiricuta Cluj-Napoca, Cluj-Napoca (Romania)  
Researcher
- 2008–2010 **Researcher – proteomics determination**  
University „Iuliu Hatieganu” of Medicine and Pharmacy of Cluj-Napoca, Cluj-Napoca (Romania)  
Researcher
- 2007–2009 **Evaluation expert**  
UEFISCDI, Bucharest (Romania)  
Research grant evaluation
- 2002-2003 **Research assistant**  
University of Nevada, Reno, USA
- 2004–2006 **QA Food Quality Laboratory**  
Food Quality and Testing Laboratory, University of Agricultural Sciences and Veterinary Medicine of Cluj-Napoca, Cluj-Napoca (Romania)

**EDUCATION AND TRAINING**

- 08/2003–06/2004 **PhD fellowship - Marie Curie Fellowship** EQF level 8  
University of Ulster, Coleraine, Northern Ireland, Coleraine (United Kingdom)  
PhD research

07/2002–07/2003 8	PhD fellowship	EQF level
University of Nevada, Reno, NV, USA, Reno (United States) visiting researcher analyst		
01/10/2001–12/12/2007 8	PhD	EQF level
University of Agricultural Sciences and Veterinary Medicine of Cluj-Napoca, Cluj-Napoca (Romania) PhD in veterinary medicine: » <i>in vitro</i> and <i>in silico</i> Prostate cancer studies«		
01/10/1999–30/06/2000 7	Certificate Post-universities studies	EQF level
CIHEAM Chania, Mediterranean Agronomic Institute of Chania, Crete, Greece, Chania (Greece) constituent institute of CIHEAM, dedicated to postgraduate and specialized education, applied research and the development of Mediterranean agriculture.		
15/09/1989–30/09/1996 6	Medical Doctor, Physician	EQF level
University "Iuliu Hatieganu" of Medicine and Pharmacy, Cluj-Napoca, Cluj-Napoca (Romania) General Medicine		

PERSONAL SKILLS

Mother tongue(s) Romanian

Foreign language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
Italian	A2	A2	A1	A1	A1
French	A2	A2	A1	A1	A1
German	A1	A2	A1	A1	A1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user Common European Framework of Reference for Languages

Communication skills good communication skills gained during my experience as doctoral fellow in international research groups and as a teams' member of national and international research projects.

Organisational / managerial skills **Design and Coordinator** of post-university course (from 2013): Formation of specialists of Food Safety Management Systems (FSMS) in conformity with HACCP (Hazard Analysis Critical Control Point), GMP (Good Manufacturing Practice), GLP (Good Laboratory Practice), GHP (Good Hygiene Practice)  
Serves as the Director of Food Science Department (since 2015), head of Molecular Nutrition and Proteomics Lab (since 2013) and one of the two executive directors of Gastronomy, Nutrition and Dietetics MSc study program (2014 Romanian & 2015 English)  
Departmental Erasmus Coordinator (since 2012-2021), coordinator of non-EU Erasmus partners (US, Chile, Georgia, Bosnia-Herzegovina, Tunis, Morocco)

**Job-related skills:** Lab Technical skills in the field of immunology/biochemistry/molecular biology: *in vivo/ ex-vivo*: microarray, RT-PCR, ELISA, Western blott, protein array, antibody array; ArrayExpress; GEO; Metaproteomics; Laboratory SOP (cell culture lab), MIAME, MIAPE-DE, MIAPE, MIQE, MIAR, MIBB

**Expertise domains: Molecular Biology; Pangenomics research; Transcriptomics: Gene expression arrays; RNA interference (RNAi) arrays; MicroRNA (miRNA) arrays**

Microarray analysis (Axon, Affymetrix, Agilent platform): Data normalization & statistical analysis of microarray data (metadata analysis); Differential gene expression analysis; Datamining

**-microarray data validation (wet validation: RT-PCR; in silico validation)**

**-recombinant DNA: RT-PCR, PCR**

**Proteomics (Protein arrays; Peptide arrays; Antibody arrays; ELISA arrays); expression and characterization of recombinant proteins; proteomics profile (gel- based proteomics: 2D-GE); WB, ELISA**

**Bioinformatics**

**Gene Regulation Networks (KEGG; DDBJ; EBI; PDB, HSSP; DSSP; RCBS: SAM; UniProt Knowledge; KnowledgeNet,**

PDQuest<sup>TM</sup>, Quantity One<sup>TM</sup>, GraphPad, Ensemble, JIGSAW, KEGG, NCBI, EMBO, SAM, CARMAweb, GeneCard, SAGE, SOURCE, SMART, UniProtKB, PROSITE, HAMAP, SwissVar, ViralZone, SWISS-MODEL Repository, SWISS-2DPAGE, World-2DPAGE Repository, MIAPEGelDB, ENZYME, GlycoSuiteDB, UniPathway, CHROMA, STRING, Cn3D, Aldente, FindMod, FindPept, GlycoMod, Mascot, PepMAPPER, ProFound, ProteinProspector, Bioconductor, R, Phytom

In silico discovery and validation of biomarkers (genomics and proteomics data overalping) – open platform development (dr. IL Muntean – UTCN, dr. C Iuga – UMF Cluj) (2011-2013)

Digital skills		SELF-ASSESSMENT		
Information processing	Communication	Content creation	Safety	Problem- solving
Independent user	Proficient user	Proficient user	Independent user	Independent user

Digital skills - Self-assessment grid: PC, Office, IT ; R, Python, Galaxy

Bubble.io, mirror.io, openAI

#### ADDITIONAL INFORMATION

##### WEB OF KNOWLEDGE LIST OF PAPERS

- Dagni A, Hegheş SC, Suharoschi R, Pop OL, Fodor A, Vulturar R, Cozma A, Aniq filali O, Vodnar DC, Soukri A, El Khalfi B. Essential oils from *Dysphania* genus: Traditional uses, chemical composition, toxicology, and health benefits. *Frontiers in Pharmacology*. 2022 Dec 8;13:1024274.
- Derdak R, Sakoui S, Pop OL, Vodnar DC, Addoum B, Teleky BE, Elemer S, Elmakssoudi A, Suharoschi R, Soukri A, El Khalfi B. Optimisation and characterization of  $\alpha$ -D-glucan produced by *Bacillus velezensis* RSDM1 and evaluation of its protective effect on oxidative stress in *Tetrahymena thermophila* induced by H<sub>2</sub>O<sub>2</sub>. *International Journal of Biological Macromolecules*. 2022 Dec 1;222:3229-42.
- Mureşan CI, Dezmirean DS, Marc BD, Suharoschi R, Pop OL, Buttstedt A. Biological properties and activities of major royal jelly proteins and their derived peptides. *Journal of Functional Foods*. 2022 Nov 1;98:105286.
- Ciont C, Epuran A, Kerezsi AD, Coldea TE, Mudura E, Pasqualone A, Zhao H, Suharoschi R, Vriesekoop F, Pop OL. Beer safety: New challenges and future trends within craft and large-scale production. *Foods*. 2022 Sep 3;11(17):2693.
- Pop OL, Suharoschi R, Gabbianelli R. Biotransformation and protective properties of probiotics. *Microorganisms*. 2022 Jun 23;10(7):1278.
- Derdak R, Sakoui S, Pop OL, Vodnar DC, Addoum B, Elmakssoudi A, Errachidi F, Suharoschi R, Soukri A, El Khalfi B. Screening, optimization and characterization of exopolysaccharides produced by novel strains isolated from Moroccan raw donkey milk. *Food Chemistry: X*. 2022 Jun 30;14:100305.
- Sakoui S, Derdak R, Addoum B, Pop OL, Vodnar DC, Suharoschi R, Soukri A, El Khalfi B. The first study of probiotic properties and biological activities of lactic acid bacteria isolated from Bat guano from Er-rachidia, Morocco. *LWT*. 2022 Apr 1;159:113224.
- Sakoui S, Derdak R, Pop OL, Vodnar DC, Addoum B, Teleky BE, Elemer S, Elmakssoudi A, Suharoschi R, Soukri A, El Khalfi B. Effect of encapsulated probiotic in Inulin-Maltodextrin-Sodium alginate matrix on the viability of *Enterococcus mundtii* SRBG1 and the rheological parameters of fermented milk. *Current Research in Food Science*. 2022 Jan 1;5:1713-9.
- Mureşan CI, Dezmirean Ds, Suharoschi R, Pop Ol, Borsai O. Analysis of Major Royal Jelly Proteins Stability and Ligand Binding by Differential Scanning Fluorimetry.
- Mureşan CI, Cornea-Cipcigan M, Suharoschi R, Erler S, Mărgăoan R. Honey botanical origin and honey-specific protein pattern: Characterization of some European honeys. *LWT*. 2022 Jan 15;154:112883.
- Fodor A, Tiperciuc B, Login C, Orasan OH, Lazar AL, Buchman C, Hanghiceş P, Sitar-Taut A, Suharoschi R, Vulturar R, Cozma A. Endothelial dysfunction, inflammation, and oxidative stress in COVID-19—mechanisms and therapeutic targets. *Oxidative medicine and cellular longevity*. 2021 Aug 21;2021.
- Aka BZ, Djeni TN, Konan HK, Semeniuc CA, Rotar AM, Suharoschi R, Dje MK. Characterization of a Potential Isozyme Laccase from *Trametes polyzona* MPS1-3 and its Contribution to Palm Oil Mill Effluent Treatment. *Current Microbiology*. 2021 Aug;78:3246-57.
- Pop C, Suharoschi R, Pop OL. Dietary fiber and prebiotic compounds in fruits and vegetables food waste. *Sustainability*. 2021 Jun 28;13(13):7219.
- Mihalca V, Kerezsi AD, Weber A, Gruber-Traub C, Schmucker J, Vodnar DC, Dulf FV, Socaci SA, Fărcaş A, Mureşan CI, Suharoschi R. Protein-based films and coatings for food industry applications. *Polymers*. 2021 Mar 2;13(5):769.
- Mihalca V, Kerezsi AD, Weber A, Gruber-Traub C, Schmucker J, Vodnar DC, Dulf FV, Socaci SA, Fărcaş A, Mureşan CI, Suharoschi R. Protein-based films and coatings for food industry applications. *Polymers*. 2021 Mar 2;13(5):769.
- Moreno-Indias, Isabel, et al. "Statistical and machine learning techniques in human microbiome studies: contemporary challenges and solutions." *Frontiers in microbiology* (2021): 277.

17. Food Safety System (HACCP) as Quality Checkpoints in a Spin-Off Small-Scale Yogurt Processing Plant. Muresan, CC ; Marc, RA; Jimborean, M; Rusu, I ; Muresan, A; Nistor, A; Cozma, A; Suharoschi, R; SUSTAINABILITY, Volume 12 Issue 22 Published 2020. WOS:000594568000001 (IF = 2.576) [Q2: ENVIRONMENTAL SCIENCES; Q3: GREEN & SUSTAINABLE SCIENCE & TECHNOLOGY]
18. An Overview of Gut Microbiota and Colon Diseases with a Focus on Adenomatous Colon Polyps. Pop, OL; Vodnar, DC; Diaconeasa, Z ; Istrati, M; Bintintan, A ; Bintintan, VV; Suharoschi, R; Gabbianelli, R. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, Volume 21 Issue 19 Published 2020. WOS:000586437800001 (IF = 4.556) [Q1: BIOCHEMISTRY & MOLECULAR BIOLOGY]
19. Insights on Health and Food Applications of Equus asinus (Donkey) Milk Bioactive Proteins and Peptides-An Overview. Derdak, R; Sakoui, S ; Pop, OL; Muresan, CI; Vodnar, DC ; Addoum, B ; Vulturar, R; Chis, A; Suharoschi, R; Soukri, A; El Khalfi, B. FOODS, Volume 9 Issue 9 Published 2020. WOS:000581349500001 (IF=4.092) [Q1: FOOD SCIENCE & TECHNOLOGY]
20. Cerium Oxide Nanoparticles and Their Efficient Antibacterial Application In Vitro against Gram-Positive and Gram-Negative Pathogens. Pop, OL; Mesaros, A; Vodnar, DC; Suharoschi, R ; Tabaran, F ; Magerusan, L; Todor, IS ; Diaconeasa, Z; Balint, A ; Ciontea, L ; Socaciu, C. NANOMATERIALS, Volume 10 Issue 8 Published 2020. WOS:000564684300001 (IF=4.324) [Q2: NANOSCIENCE & NANOTECHNOLOGY]
21. Iron Supplementation Influence on the Gut Microbiota and Probiotic Intake Effect in Iron Deficiency-A Literature-Based Review. Rusu, IG; Suharoschi, R; Vodnar, DC; Pop, CR; Socaci, SA; Vulturar, R; Istrati, M; Morosan, I ; Farcas, AC; Kerezsi, AD; Muresan, CI; Pop, OL. NUTRIENTS, Volume 12 Issue 7 Published 2020. WOS:000554312400001 (IF= 4.546) [Q1: NUTRITION & DIETETICS]
22. Effects of silver and gold nanoparticles phytosynthesized with Cornus mas extract on oral dysplastic human cells. Baldea, I; Florea, A; Olteanu, D; Clichici, S; David, L; Moldovan, B; Cenariu, M; Achim, M; Suharoschi, R ; Danescu, S ; Vulcu, A; Filip, GA. NANOMEDICINE, Volume 15 Issue 1 Page 55-75 Published 2020. WOS:000504090800005 (IF=4.3)[Q1: BIOTECHNOLOGY & APPLIED MICROBIOLOGY; Q2: NANOSCIENCE & NANOTECHNOLOGY]
23. Edible Films and Coatings Functionalization by Probiotic Incorporation: A Review. Pop, OL; Pop, CR ; Dufrechou, M; Vodnar, DC ; Socaci, SA; Dulf, FV; Minervini, F ; Suharoschi, R. POLYMERS, Volume 12 Issue 1 Published 2020. WOS:000519848300012 (IF=3.426) [Q1: POLYMER SCIENCE]
24. Relationship between cachexia and perineural invasion in pancreatic adenocarcinoma. Petrusel, L ; Rusu, I; Leucuta, DC ; Seicean, R ; Suharoschi, R; Zamfir, P; Seicean, A. WORLD JOURNAL OF GASTROINTESTINAL ONCOLOGY, Volume 11 Issue 12 Page 1126-1140 Published 2019. WOS:000512758200004 (IF = 2.898) [Q3: GASTROENTEROLOGY & HEPATOLOGY; Q3: ONCOLOGY]
25. DNA Methylation and Micro-RNAs: The Most Recent and Relevant Biomarkers in the Early Diagnosis of Hepatocellular Carcinoma. Cozma, A; Fodor, A ; Vulturar, R; Sitar-Taut, AV (Sitar-Taut, Adela-Viviana)[ 1 ] ; Orasan, OH (Orasan, Olga Hilda)[ 1 ] ; Muresan, F; Login, C; Suharoschi, R . MEDICINA-LITHUANIA, Volume 55 Issue 9 Published 2019. WOS:000490752800100 (IF=1.205) [Q3: MEDICINE, GENERAL & INTERNAL]
26. Clinical and genetic predictors of diabetes drug's response. Fodor, A; Cozma, A; Suharoschi, R ; Sitar-Taut, A ; Roman, G , DRUG METABOLISM REVIEWS, Published 2019. WOS:000484080900001 (IF = 3.956) [Q1: PHARMACOLOGY & PHARMACY]
27. Pharmacogenetic Implications of eNOS Polymorphisms (Glu298Asp, T786C , 4b/4a) in Cardiovascular Drug Therapy. Cozma, A; Fodor, A; Orasan, OH; Vulturar, R; Sampelean, D; Negrean, V; Muresan, C; Suharoschi, R ; Sitar-Taut, A . IN VIVO, Volume 33 Issue 4 Page 1051-1058 Published 2019. WOS:000474906500006 (IF=1.541) [Q4: MEDICINE, RESEARCH & EXPERIMENTAL]
28. Collaborative platform development in nutrition as support for cardiovascular patients' rehabilitation. Sitar-Taut, DA ; Sitar-Taut, AV; Mican, D ; Cozma, A; Orasan, OH (Orasan, Olga Hilda)[ 2 ] ; Muresan, C; Suharoschi, R ; Negrean, V; Sampelean, D; Vulturar, R ; Zdrengea, DT ; Pop, D; Dogaru, G; Dadarlat, A ; Fodor, A. BALNEO RESEARCH JOURNAL, Volume 10 Issue 2 Page 139-144 Published 2019. WOS:000475484800012
29. UV-light mediated green synthesis of silver and gold nanoparticles using Cornelian cherry fruit extract and their comparative effects in experimental inflammation. Filip, GA; Moldovan, B ; Baldea, I; Olteanu, D; Suharoschi, R ; Decea, N ; Cismaru, CM ; Gal, E; Cenariu, M ; Clichici, S; David, L. JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY, Volume 191 Page 26-37 Published 2019. WOS:000458711800005 (IF=4.383)[Q2: BIOCHEMISTRY & MOLECULAR BIOLOGY; Q1: BIOPHYSICS]
30. A COMPARISON BETWEEN INSULIN RESISTANCE SCORES PARAMETERS IN IDENTIFYING PATIENTS WITH METABOLIC SYNDROME. Cozma, A ; Fodor, A; Orasan, OH; Suharoschi, R; Muresan, C; Vulturar, R ; Sampelean, D; Negrean, V ; Pop, D ; Sitar-Taut, A . STUDIA UNIVERSITATIS BABES-BOLYAI CHEMIA, Volume 64 Issue 1 Page 147-159 Published 2019. WOS:000462879600012 (IF=0.494) [Q4: CHEMISTRY, MULTIDISCIPLINARY]
31. Alfalfa Leaf Powder and its Potential Utilisation in Raw Vegan Chocolate. Tiplea, R; Suharoschi, R; Leopold, L; Fetea, F; Socaci, SA; Vodnar, DC ; Pop, OL. BULLETIN OF UNIVERSITY OF AGRICULTURAL SCIENCES AND VETERINARY MEDICINE CLUJ-NAPOCA-FOOD SCIENCE AND TECHNOLOGY, Volume 76 Issue 1 Page 74-78 Published 2019. WOS:000470756300010
32. Impact of protein metabolic conversion and volatile derivatives on gluten-free muffins made with quinoa sourdough. Chis, MS ; Paucean, A ; Stan, L ; Suharoschi, R; Socaci, SA; Man, SM; Pop, CR ; Muste, S. CYTA-JOURNAL OF FOOD, Volume 17 Issue 1 Page 744-753 Published 2019. WOS:000488992200001 (IF=1.653)



33. Dietary Fiber and Metabolism. Suharoschi, R; Pop, OL; Vlaic, RA; Muresan, CI ; Muresan, CC ; Cozma, A; Sitar-Taut, AV ; Vulturar, R ; Heghes, SC; Fodor, A; Iuga, CA. DIETARY FIBER: PROPERTIES, RECOVERY, AND APPLICATIONS. Page 59-77 Published 2019. WOS:000560024900004
34. Prebiotics and Dairy Applications. Pop, OL ; Salanta, LC ; Pop, CR ; Coldea, T; Socaci, SA ; Suharoschi, R ; Vodnar, DC. DIETARY FIBER: PROPERTIES, RECOVERY, AND APPLICATIONS, Page 247-277 Published 2019. WOS:000560024900009
35. Protein metabolic conversion of nutritional features during quinoa sourdough fermentation and its impact on baked goods. Chis, MS; Paucean, A ; Stan, L ; Muste, S; Suharoschi, R ; Man, SM. JOURNAL OF BIOTECHNOLOGY, Volume 280 Page S64-S64 Published 2018 . WOS:000454825900205 (IF=3.503)
36. EVALUATION OF ENERGY AND NUTRIENT INTAKE FROM FOOD OF LACTATING MOTHERS IN A ROMANIAN SAMPLE. Heghes, SC ; Gavrilas, LI ; Pralea, IE ; Filip, L ; Cozma-Petrut, A; Iuga, CA ; Suharoschi, R ; Miere, D. FARMACIA, Volume 66 Issue 2 Page 243-247 Published 2018. WOS:000431275100008 (IF=1.607)
37. Unhealthy lifestyle and the risk of metabolic syndrome- the Romanian experience. Cozma, A ; Sitar-Taut, A; Urian, L ; Fodor, A ; Suharoschi, R; Muresan, C ; Negrean, V ; Sampelean, D; Zdrenghia, D ; Pop, D ; Daniel, L; Orasan, OH. JOURNAL OF MIND AND MEDICAL SCIENCES, Volume 5 Issue 2 Page 218-229 Published 2018. WOS:000446219300011
38. Characterization of a Sea Buckthorn Extract and Its Effect on Free and Encapsulated Lactobacillus casei. Pop, OL; Dulf, FV; Cuiibus, L; Castro-Giraldez, M ; Fito, PJ ; Vodnar, DC; Coman, C ; Socaciu, C; Suharoschi, R . INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, Volume 18 Issue 12 Published 2017. WOS:000418896700017 (IF= 4.556)
39. Obtaining a Functional Product Through the Exploitation of Mushroom Flour in Pasta. Muresan, CC; Farcas, A; Man, S; Suharoschi, R; Vlaic, RA. BULLETIN OF UNIVERSITY OF AGRICULTURAL SCIENCES AND VETERINARY MEDICINE CLUJ-NAPOCA-FOOD SCIENCE AND TECHNOLOGY, Volume 74 Issue 1 Page 17-22 Published 2017. WOS:000408457100003
40. Antioxidant activity of Cornelian cherry (*Cornus mas* L.) fruits extract and the in vivo evaluation of its anti-inflammatory effects. Moldovan, B; Filip, A ; Clichici, S ; Suharoschi, R; Bolfa, P; David, L. JOURNAL OF FUNCTIONAL FOODS, Volume 26 Page 77-87 Published 2016. WOS:000386193400008 (IF=3.701) [Q1: FOOD SCIENCE & TECHNOLOGY; Q2: NUTRITION & DIETETICS]
41. L. PLANTARUM ATCC 8014 ENTRAPMENT WITH PREBIOTICS AND LUCERNE GREEN JUICE AND THEIR BEHAVIOR IN SIMULATED GASTROINTESTINAL CONDITIONS. Pop, OL ; Vodnar, DC; Suharoschi, R ; Mudura, E; Socaciu, C , JOURNAL OF FOOD PROCESS ENGINEERING, Volume 39 Issue 5 Page 433-441 Published 2016 (IF=1.703) [ Q3: ENGINEERING, CHEMICAL; Q3: FOOD SCIENCE & TECHNOLOGY]
42. Stability Comparison of Free and Encapsulated Lactobacillus casei ATCC 393 in Yoghurt for Long Time Storage. Pop, OL; Vodnar, DC; Suharoschi, R ; Socaciu, C. BULLETIN OF UNIVERSITY OF AGRICULTURAL SCIENCES AND VETERINARY MEDICINE CLUJ-NAPOCA-FOOD SCIENCE AND TECHNOLOGY, Volume 73 Issue 2 Page 99-104 Published 2016. WOS:000408454100007
43. Identification and Prevalence of Escherichia coli and Escherichia coli O157: H7 in Foods. Rotar, Ancuta M. ; Semeniuc, Cristina Anamaria ; Apostu, Sorin ; Pop, Carmen; Duma, Mihaela ; Suharoschi, Ramona ; Giura, Larisa . BULLETIN OF UNIVERSITY OF AGRICULTURAL SCIENCES AND VETERINARY MEDICINE CLUJ-NAPOCA-FOOD SCIENCE AND TECHNOLOGY, Volume 70 Issue 2 Page 139-140 Published 2013
44. The Manufacturing Process and Quality Control of a Holland Type Cheese. Semeniuc, Cristina Anamaria ; Rotar, Ancuta Mihaela ; Pop, Carmen ...More. BULLETIN OF UNIVERSITY OF AGRICULTURAL SCIENCES AND VETERINARY MEDICINE CLUJ-NAPOCA-FOOD SCIENCE AND TECHNOLOGY, Volume 70 Issue 2 Page 147-148 Published 2013
45. Experiences in Designing a Distributed Service-Oriented Platform for In-Silico Biomarker Discovery and Validation. Muntean, IL ; Rotaru, B ; Suharoschi, R; Iuga, C, IEEE 12TH INTERNATIONAL CONFERENCE ON BIOINFORMATICS & BIOENGINEERING, Page 74-79 Published 2012. WOS:000315332900019
46. Normalization for cDNA microarray data of gene expression profiles from the human prostate cancer cell lines (PC3) by Pre-Processing Two-Color Data. Bratfalean, D; Suharoschi, R ; Muresan, C; Agachi, SP ; Cristea, MV; Cormos, AM; Garrido, AG; Sanchez, MH, 19TH EUROPEAN SYMPOSIUM ON COMPUTER AIDED PROCESS ENGINEERING, Volume 26 Page 1033-1038 Published 2009. WOS:000287727900167
47. Genistein modulation of intricate signaling pathways underlying PC3 cells treatment. Suharoschi, R ; Rowland, I; Klocker, H ; Hancock, RL ; Pardini, RS ; Cormos, AM; Muresan, C ; Neagoe, I; Balacescu, O; Baba, AI. EJC SUPPLEMENTS, Volume 6 Issue 9 Page 151-151 Published 2008 . WOS:000257919000578 (IF=9.386)
48. Artificial neural networks to discover new differentially expressed genes into cDNA microarrays of genistein treated prostate cancer PC3 cells. Suharoschi, R; Coman, I; Klocker, H; Balacescu, O; Neagoe, I . FEBS JOURNAL, Volume 275 Page 345-345 Published 2008 . WOS:000256633301197 (IF=4.392) [Q2: BIOCHEMISTRY & MOLECULAR BIOLOGY]

#### Extended List of Publications:

Baldea I, Florea A, Olteanu D, Clichici S, David L, Moldovan B, Cenariu M, Achim M, Suharoschi R, Danescu S, Vulcu A. Effects of

- silver and gold nanoparticles phytosynthesized with Cornus mas extract on oral dysplastic human cells. *Nanomedicine*. 2020 Jan;15(1):55-75.
- Pop OL, Pop CR, Dufrechou M, Vodnar DC, Socaci SA, Dulf FV, Minervini F, Suharoschi R. Edible Films and Coatings Functionalization by Probiotic Incorporation: A Review. *Polymers*. 2020 Jan;12(1):12.
- Petrusel L, Rusu I, Leucuta DC, Seicean R, Suharoschi R, Zamfir P, Seicean A. Relationship between cachexia and perineural invasion in pancreatic adenocarcinoma. *World Journal of Gastrointestinal Oncology*. 2019 Dec 15;11(12):1126.
- Fodor A, Cozma A, Suharoschi R, Sitar-Taut A, Roman G. Clinical and genetic predictors of diabetes drug's response. *Drug metabolism reviews*. 2019 Oct 2;51(4):408-27.
- Cozma A, Fodor A, Vulturar R, Sitar-Tăut AV, Orășan OH, Mureșan F, Login C, Suharoschi R. DNA Methylation and Micro-RNAs: The Most Recent and Relevant Biomarkers in the Early Diagnosis of Hepatocellular Carcinoma. *Medicina*. 2019 Sep;55(9):607.
- Cozma A, Fodor A, Orasan OH, Vulturar R, Sampelean D, Negrean V, Muresan C, Suharoschi R, Sitar-Taut A. Pharmacogenetic Implications of eNOS Polymorphisms (Glu298Asp, T786C, 4b/4a) in Cardiovascular Drug Therapy. *in vivo*. 2019 Jul 1;33(4):1051-8.
- Sitar-Tăut DA, Sitar-Tăut AV, Daniel M, Angela C, Olga HO, Crina M, Ramona S, Vasile N, Dorel S, Vulturar R, Zdrengea DT. Collaborative platform development in nutrition as support for cardiovascular patients' rehabilitation. *Balneo Research Journal*. 2019;10(2):139-44
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### International

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Micronutrients Deficiencies in Early Life and Impact on Long-term Health, ebook, Oana L. Pop, Romana Vulturar, Adriana Fodor, Adina Chiș, Angela Cozma, Olga Orășan, Adela V. Sitar-Tăut, Doina Miere, Lorena Filip, Simona C. Hegheș, Anamaria Cozma-Petruț, Carmen I. Mureșan, Mădălina A. Coman, Bianca O. Duran, Ștefana A. Dobran, Cristina A. Iuga, Adriana G. Filip, Ramona Suharoschi. Open Access, 2020, eBooksISBN: 978-93-87500-38-9

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### National

Inocuitatea produselor alimentare (Food Safety) – eBook, Pop Oana Lelia, Ramona Suharoschi, Ed.Mega, Cluj-Napoca, Romania,ISBN: 978-606-020-386-5

Principiile Nutriției Umane (Human Nutrition Principles) – eBook, Ramona Suharoschi, Pop Oana Lelia, Editura Bioflux, Cluj-Napoca, Romania, E-ISBN 978-606-88876-78

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## PROJECTS

### I. National GRANTS:

1. Project 2662 „DEVELOPMENT OF A SYSTEM BIOLOGY APPROACH FOR UNDERSTANDING THE MOLECULAR AND SIGNALING PATTERNS INVOLVED IN THE HUMAN PROSTATE” MOLPAT-Pca, contract no. 180/2006 (2006–2008)–VIASAN (2006 – 2008, ~ RON) – VIASAN; [http://www.cnmp.ro/ceex/comp1\\_2006/oferta.php?id=2662](http://www.cnmp.ro/ceex/comp1_2006/oferta.php?id=2662) ; <http://www.info.umfcluj.ro/proiecte/MOLPAT/Publication1.htm>
2. Innovation checks- PN-III-P2-2.1-CI-2017-0359 The innovative culinary concept for personalized menu reformulation (with high nutritional value added) budget 10.000 Euro

Results dissemination:

- Ramona Suharoschi , Simona Codruta Heghes. Ioana Ecoterina Prolea, Laura Ioana Gavrilos, Lorena Filip, Adela Viviano Sitar Taut, Angela Cozmo, Adriana Fodor. Crina Muresan, Raluco Muresan, Oana Lelia Pop, Carmen Muresan and Cristina Adela Iuga, 2018, The energy and macronutrient 7-day diary observations on Transylvania lactating women diet that impact early life nutrition and long term effects on metabolic pathways . Obesity and Diet Imbalance Conference, ISSN 2165-7904, November 29-30, 2018 Bali, Indonesia;
  - Ramona Suharoschi , Crina Muresan, Oana Lelia Pop, Adela Viviana Sitar Taut, Angela Cozma, Adriana Fodor and Raluca Muresan, 2018, Innovative technology for healthy menu reformulation; Obesity and Diet Imbalance Conference, ISSN 2165-7904, November 29-30, 2018 Bali, Indonesia;
  - Ramona Suharoschi, Clujul Medical - J of Med & Pharm Suppl 4, vol 89, S137; Cluj-Napoca, Romania, ISSN 1222-2119; <http://www.clujulmedical.umfcluj.ro/index.php/cjmed/pages/view/supplements>
3. Innovation checks - PN-III-P2-2.1-CI-2018-1367 „ Concept culinar inovativ pentru reformularea de meniuri personalizate cu valoare nutritionala ridicata” budget 10.000 Euro (Innovative culinary concept formulating personalized menus with high nutritional value)

Results dissemination:

- Beyond personalised nutrition – integration of tools of healthy food for catering service, R Suharoschi, 2019, 8th National and 1st International Congress “Nutrition – Medicine of the Future” Cluj-Napoca, May 15-18, 2019 “Contextual integration of Nutrition Science into Dietary Patterns and Lifestyle”
4. Mobility Project PN-III-P1-1.1-MC-2017-2346 (budget 1.500 Euro)
  5. Mobility Project PN-III-P1-1.1-MC-2017-2346 (budget 2.500 Euro)
  6. Mobility Project SEE 18-MOB-0063 (Norvegia) (budget 18.000 Euro)
  7. USAMV CLUJ internal Grant USAMV – in silico Biomarkers Discovery (Descoperirea in silico de potentiali biomarkeri) 2012/6/12.01.2012 (budget 1.000 Euro)
  8. Fulbright Alumni Institutional Development Grant 2023-2024; AgriTeh & FoodTech University competition – pre-seed USAMV Venture in AgriTech, FoodTech, Circular Bioeconomy and OneHealth; budget 10.000 USD

### II. International GRANTS:

1. ERANET: ProBone - New tools for prospecting the marine bone-degrading microbiome for novel enzymes, (Noi instrumente pentru prospectarea de noi enzime specifice degradarii osoase de catre microbiomul marin – ProBone), contract ERANET 2/2018

Results dissemination:

### POSTER:

ERANET: ProBone - New tools for prospecting the marine bone-degrading microbiome for novel enzymes, March 2019, DOI: 10.13140/RG.2.2.21290.47047, Conference: Treasures from the deep - Workshop (EMBRIC), Project: ProBone - New tools for

prospecting the marine bone-degrading microbiome for new enzymes.

Metaproteomics pilot study - bone degrading marine biofilm, Carmen Ioana Mureșan, Alina Nistor, Ioana Ecaterina Pralea, Antonio García-Moyano, Erik Borchert, Ute Hentschel, Gro Elin Kjærang Bjerga, Manuel Ferrer, Cristina Adela Iuga, Ramona Suharoschi, BSPR meeting 2019, submitted

ProBone – New tools for prospecting the marine bone-degrading microbiome for novel enzymes, Antonio Garcia-Moyano<sup>a</sup>, Erik Borchert<sup>b</sup>, Sergio Sánchez-Carrillo<sup>c</sup>, Sandra Alonso<sup>c</sup>, Ramona Suharoschi<sup>d</sup>, Thomas G. Dahlgren<sup>a</sup>, Manuel Ferrer<sup>c</sup>, Ute Hentschel<sup>b</sup> and Gro Elin Kjærang Bjerga, Functional Metagenomics International, 2019, Trondheim (<https://functionalmetagenomics.net/fmg2019/>)

ProBone – New tools for prospecting the marine bone-degrading microbiome for novel enzymes, 2019, Sandra Alonso, Erik Borchert, Antonio García-Moyano, Sergio Sánchez- Carrillo, Ramona Suharoschi, Manuel Ferrer, Gro Elin Kjærang Bjerga and Ute Hentschel Spanish National Conference in Biotechnology (BIOTEC 2019; <https://biotec.gal/vigo/>)

2. AUF project: Valorisation biotechnologique des laits fermentés locaux comme sources de bactéries productrices de biosurfactants utilisables comme bioconservateurs en industries agro-alimentaires, coordinator: Prof. Augustin Mbawala – Université de Ngaoundéré, Camerun, Period: 2017-2018; budget. 53900 Euro; <https://www.auf.org/wp-content/uploads/2017/05/valorisation-bio.pdf> -
3. COST - Responsabil Romania - Management Committee - CA COST Action CA16123 – Safety Culture and Risk Management in Agriculture -Management Committee [http://www.cost.eu/COST\\_Actions/ca/CA16123?management](http://www.cost.eu/COST_Actions/ca/CA16123?management) - Durata: 01.05.2017 – 30.04.2018; Luonnonvarakeskus, Espoo, Finland, PI- dr. Jarkko Leppala
4. COST – Romania Responsible - Management Committee of CA18131 - Statistical and machine learning techniques in human microbiome studies <https://www.cost.eu/actions/CA18131/#tabs|Name:overview>
5. Erasmus + KA107 Contract nr. 2016-2-RO01-KA107-035273; EACEA-ANPCDEFP; Durata: 01.02.2017-31.05.2018; Budget: 25290 Euro;
6. 2017-1-RO01-KA107-036885, International Credit Mobility Durata: 01/06/2017 - 31/07/2019, Budget: 93.376 Euro
7. 2018-1-RO01-KA107-047708, International Credit Mobility Durata: 01/06/2018 - 31/07/2020, Budget: 181.500 Euro
8. TEMPUS "Modernization and Harmonization of Tourism Study Programs in Serbia - MHTSPS" (project No: 544543-TEMPUS-1-2013-1-RS-TEMPUS-JPCR); Acronym: MHTSPS; Period: 01.12.2013 - 30.11.2016; budget USAMV ~25166,40 Euro (Project USAMV responsible)
9. 2002 Phare grant 2002/ 028-028, “Food Quality Management Network for East European Countries”, financed by EC (budget ~ 35,000 Euro) financed by EU <http://www.usamvcluj.ro-fqm> – 2003 – 2004.

#### Projects' Team member:

1. Development of Food Quality and Safety Testing Research Lab project 159/2005, INFRAS, 2005-2007 (budget: 120.000 Euro)
2. MEC Project – Development and consolidation of infrastructure for standardization and QA– *INFRAS*, Food Quality and Safety Testing Research Lab 2004 –2006
3. Contract de finantare MEC – CEEX Modul 1, Proiect 3822 „Modern unconventional technologies in conformity with EU regulations, of uses and waste water sawege by residual mold treatment”, PI: Oprean Letitia, University Lucian Blaga, Sibiu, (budget 500.000 Euro) Period: 2006 – 2008 – BIOTECH
4. IDEI Project no. 314/2007 „ Identification by microarray reaction of tumor biomarkers with noninvasive predictive value in prostate cancer” – PI: Dr. Ovidiu Bălăcescu, IOCN (2007-2010);
5. IDEI - Project no. 2631/2009 “Analytical and proteomic research of the plasma and cerebrospinal fluid in elderly patients with postoperative cognitive dysfunction” PI: dr. Constantin Bodolea, UMF Cluj-Napoca 2009-2011
6. PN II Project, 2008-2011: Reduction of mycotoxin contamination in the cereal chain in order to obtain bakery products with a high fiber content, safe for consumption – FIBRESI
7. PN II 260/14.09.2007 Food Safety Control through the development of an integrated modeling, simulation and advanced management system of fermentative bioprocesses in the food industry (2007-2009)
8. CNCSIS-3/102- The influence of the culture system on the food quality of vegetables obtained from crops in protected areas (2004-2006)
9. CNCSIS -584- The study of the efficiency of cultivation and use in fodder of rape varieties free of glucosides and erucic acid (2000-2004)
10. PN-III-P2-2.1-CI-2017-0334, Innovative fortified meat preparations, 58/2017
11. PN-III-P2-2.1-CI-2017-0415, Soluții nutriționale inovatoare pentru prevenția obezității epidemice la copii, Innovative

nutritional solutions to prevent epidemic obesity in children 72/2017

12. PN-III-P2-2.1-CI-2017-0783, Innovative integrated menu analysis services for preschool children, 142/2017
13. PN-III-P2-2.1-CI-2017-0056, Gluten-free, low-calorie muffins, enriched with essential amino acids of vegetable origin, 19/2017
14. PN-III-P4-ID- PCE-2016- 0396 PCE, Signaling pathways and target molecules involved in chemoprevention with conjugates obtained from silver nanoparticles and natural extracts in oral carcinogenesis, 161/2017

#### Poster:

R Suharoschi, 2018, In Silico Insight Into Epigenetic And Transcription Chemopreventive Signaling Mechanism In Oral Cancer, The 30th Conference of Physiology "Integrative physiology – From fundamental mechanisms to biomedical application", 2018, Clujul Medical, vol 91, 2018 (6) e\_ISSN 2066-8872; p 14(poz 32) si p. 15

15. PN-III-P2-2.1-CI-2017-0373, Obtaining a disinfectant gel by capitalizing on the bioactive components from the hop wort, 97/2017
16. PN-III-P2- 2.1-PED-2016-1237, Efficient use of crude biodiesel glycerol in lactic acid production
17. PN-III-P2-2.1-CI-2017-0632 (112CI/2017), Functional nutraceutical product with curative and palliative properties obtained from zonar (lactose) enriched with natural bioactive principles through the use of eco-innovative technologies
18. EC5th Framework program Marie Curie Training Site Fellowship; Project: Assessment of Dietary Components with Health promoting Properties HPMT-CT-2001-00287 - University of Ulster, Prof. I. ROWLAND

#### Honours and awards:

Research results reward – Papers 2019, 2020, 2021, 2022

PN-III-P1-1.1-PRECISI-2019-36157 – "UV-light mediated green synthesis of silver and gold nanoparticles using Cornelian cherry fruit extract and their comparative effects in experimental inflammation. Filip, GA; Moldovan, B ; Baldea, I; Olteanu, D; Suharoschi, R; Decea, N ; Cismaru, CM ; Gal, E; Cenariu, M ; Clichici, S; David, L. JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY, Volume 191 Page 26-37 Published 2019. WOS:000458711800005"

PN-III-P1-1.1-PRECISI-2019-40362 - "Clinical and genetic predictors of diabetes drug's response. Fodor, A; Cozma, A; Suharoschi, R; Sitar-Taut, A; Roman, G DRUG METABOLISM REVIEWS, Published 2019. WOS:000484080900001"

PN-III-P1-1.1- PRECISI-2016- 13154 – "Antioxidant activity of Cornelian cherry (Cornus mas L.) fruits extract and the in vivo evaluation of its anti-inflammatory effects. Moldovan, B; Filip, A ; Clichici, S ; Suharoschi, R; Bolfa, P; David, L. JOURNAL OF FUNCTIONAL FOODS, Volume 26 Page 77-87 Published 2016. WOS:000386193400008"

PN-III-P1-1.1-PRECISI-2018-32792;

PN-III-P1-1.1-PRECISI-2020-52824 - Cerium Oxide Nanoparticles and Their Efficient Antibacterial Application In Vitro against Gram-Positive and Gram-Negative Pathogens. Pop, OL; Mesaros, A; Vodnar, DC; Suharoschi, R ; Tabaran, F ; Magerusan, L; Todor, IS ; Diaconeasa, Z; Balint, A ; Ciontea, L ; Socaciu, C. NANOMATERIALS, Volume 10 Issue 8 Published 2020. WOS:000564684300001

#### Capacity building institutional projects:

Erasmus + KA107 Contract nr. 2016-2-RO01-KA107-035273; EACEA-ANPCDEFP; 01.02.2017-31.05.2018; budget: 25290 Euro (coordinator);

2017-1-RO01-KA107-036885, International Credit Mobility 01/06/2017 - 31/07/2019, 93376 Euro, (coordinator);

2018-1-RO01-KA107-047708, International Credit Mobility Durata: 01/06/2018 - 31/07/2020, 181500 Euro; (coordinator)

#### USAMV Cluj-Napoca Scientific and professional recognition - University year award 2018, 2019

Scientific and professional recognition (2008-2009-2010) (University of Agricultural Sciences and Veterinary Medicine of Cluj-Napoca) – university year award 2011-2012: USAMV Senat 20/07/2011

MARIE CURIE FELLOWSHIP 2003-2004 (EC5th Framework program Marie Curie Training Site Fellowship; Project: Assessment of Dietary Components with Health promoting Properties HPMT-CT-2001-00287 - University of Ulster, Prof. I. ROWLAND)

FULBRIGHT Visiting scholar January 2023 – June 2023, University of Rochester, NY, USA

AIN Center for Entrepreneurship, University of Rochester, NY (New Venture Development; Technical Entrepreneurship; Product Development & Technology Management)

OPEN2023 "Connecting for impact" (VenterWell ide to impact March 21 – March 23, Alexandria, Washington, DC, USA Coference)

Visiting Fulbright Professional Grant Development Workshop, Virtual Training, Feb 16-17, 2023



Fulbright Visiting Scholar Workshop on Scientific Manuscript Publishing & Peer Reviews, Virtual Training, March 2, 2023

Fulbright Visiting Scholar Workshop on Humanities & Social Sciences Manuscript Publishing & Peer Reviews, Virtual Training, March 3, 2023

I coordinated and supervised over 100 students (BSc, MSc, PhD, postdoc level) Romanian and international students Since 2015

\*over 9 years of working experience in international development in the management and coordination of complex projects and programs related to International Credit Mobility (study and research traineeship) in Eastern Balkan (Serbia, Macedonia, Bosnia-Herzegovina, Africa, Central Asia, and the Middle East (Azerbaijan, Kazakhstan, Thailand, Ukraine, Vietnam, S.U.A, Chile, Morocco, Tunisia, Benin, Niger, Cameroon, Ivory Coast, USA).

Permanent guest at the European Commission: GRP-European Digital Education Hub.

**Head of research laboratory:** Molecular Nutrition and Proteomics Lab - Institute of Life Sciences, University of Agricultural Sciences and Veterinary Medicine of Cluj-Napoca, Romania <https://erris.gov.ro/Molecular-Nutrition-and-omics>

\*H-Index: 13 (May 24, 2023)

\*GoogleScholar: 16 (May 24, 2023)

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Facebook: <https://www.facebook.com/ramonasuharoschi>

Twitter: <https://twitter.com/RSuharoschi>

<https://twitter.com/suharoschi>

<https://www.brainmap.ro/ramona-suharoschi>

<https://eeris.eu/ERIF-2000-000M-0499>

Date 24.05.2023, Rochester, NY

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