

**PERSONAL INFORMATION**



**Oancea Simona**

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<https://scholar.google.ro/citations?user=cnsaaN8AAAAJ&hl=ro&oi=ao>

<https://www.brainmap.ro/simona-oancea>

**OCCUPATION OR POSITION HELD**

**Professor, *Habil.*, Ph.D., biochemist**

Employer's name

Faculty of Agricultural Sciences, Food Industry and Environmental Protection  
„Lucian Blaga” University of Sibiu, Romania

**WORK EXPERIENCE**

**1992 – present:** teaching assistant/ Lecturer/ Associate professor/ Professor

Faculty of Agricultural Sciences, Food Industry and Environmental Protection,  
„Lucian Blaga” University of Sibiu, Romania

- Educational and research activities in the field of *Biochemistry, Toxicology, Immunology* and related; research projects' management; editorial activity for the scientific journal Acta Univ. Cib. Food Technology; guidance and counselling activities for students.

**EDUCATION AND TRAINING**

*Habilitation*

- in Industrial Engineering, „Lucian Blaga” University of Sibiu, Romania (2014)

*Postdoctoral studies*

- in Biochemistry/Biotechnology, „Sustainable use of anthocyanins identified in the biodiversity of plants from natural and anthropogenic ecosystems, relevant for obtaining food products with ecosanogenetic potential”, National Institute of Economic Research INCE of the Romanian Academy, Bucharest, Romania (2012)
- in Peptide Chemistry, “Ingegneria dei peptidi: sistemi elicoidali rigidi come spaziatori e templati in chimica bioorganica e nella scienza dei materiali”, University of Padova, Italy (2003)

*Ph.D.*

in Chemistry, "Syntheses of natural oligopeptides and analogues with potential biological activity", University of Bucharest, Romania (1999)

*Bachelor's Degree*

in Biochemistry, Faculty of Chemistry, University of Bucharest, Romania (1991)

*Trainings*

- October 2017 - participation in CNFIS project research modelues "Participatory Research Project Strategy Development & Management: Stakeholders' Response to New Entrepreneurial Opportunities" Trainer Dr. Ronny Adhikarya, „Elaboration of project proposals for H2020 application" trainer Lucian Andrei, „Scientific data analysis"
- November 2017: training in research modules through the project CNFIS-FDI-2017-0428 „Pasiune in predare, excelenta in cercetare" („Passion through teaching and research", Sibiu, Romania
- 13-14 June 2017: training International workshop „The Entrepreneurial university", JA Romania
- 14-19 March 2016: Erasmus+ Staff Mobility for Training, Universitat de les Illes Balears, Palma de Mallorca
- 2014-2015: Courses on „UNIVERSITARIA – școală didactică universitară și cercetare științifică avansată" project, „Lucian Blaga” University of Sibiu, Romania
- 25 – 29 April 2013: Course on “Educational mentoring training program to train teachers in higher education who work with people with disabilities, Central Romanian Region” project “Development and implementation of an integrated pilot program to increase access to higher education for people with disabilities”, Sibiu, Romania
- April 2013: Course on “Academy of knowledge-based entrepreneurship”, project “Academy of knowledge-based entrepreneurship”, Sibiu, Romania
- 2012: Course on "Introduction in the ID/IFR technologies and the concepts of eLearning, Blended Learning, Open and Distance Learning" project “Academic excellency in distance learning – a quality request” Sibiu, Romania
- 2012: Course on training and specialization for editing ID/IFR materials, project “Academic excellency in distance learning – a quality request” Sibiu, Romania
- 2012: Course on training and specialization in quality management, project “Academic excellency in distance learning – a quality request” Sibiu, Romania
- 2012: Course on training and specialization in use of ID/IFR platform and TIC technology for planning, organization and development of educational processes, project “Academic excellency in distance learning – a quality request” Sibiu, Romania
- 20 November 2012: Program on “New aspects on health promotion in industrial collectivities” Physicians College of Sibiu, Romania

- 29 September 2011: Training Course "Assuring the quality of test results. The practical implementation of section 5.9 of the EN ISO/IEC 17025 Standard", Iași, Romania, 29 sept. 2011;
- 24 September 2011: Specialization Course on "Prevention of professional and general risk to exposure to biological agents in health care facilities", "Lucian Blaga" University of Sibiu, Romania
- 25 March 2011: Specialization Course on "Take care of your health. Together for assuring health at workplaces" as part of the Regional Conference on Information and Communication, project POSDRU/39/3.2/G/22802, Romtens Bucharest, Romania
- 18 September 2009: Training Course "Statistics in PT – From homogeneity and stability testing to consensus means and proficiency assessment", Sibiu, Romania;
- 28 – 30 November 2006: Specialization Course on "Current aspects on occupational health in a multidisciplinary view" PHARE project "Improvement of the efficiency of the Romanian system for occupational health surveillance and control of occupational diseases, work related diseases and injuries due to occupational risk"
- 15 November 2006: Specialization Course on "Communication of professional risk; good practises of information and communication", Public Health Direction of Sibiu, Romania
- 11 – 15 March 2005: Postgraduate Course on "Project Management", "Lucian Blaga" University of Sibiu
- 4 November – 13 December 1996 : Soros fellowship at the University of Padova, Department of Chemical Sciences, Italy, research field of "Conformational studies of bioactive peptides"
- 30 April – 5 May 1995 : Soros fellowship at the Advanced FEBS Course on "Methods in protein structure analysis", University of Athens, Greece, organized by the Federation of European Biochemical Societies (FEBS)

**Known languages** English, Italian, German

**Professional skills** - skills in Chemistry, Biochemistry, Toxicology, Environmental Engineering, Biology, Immunology

**Areas of research interest**

- Modern extraction technologies and characterization of bioactive compounds, biopigments for development of new products (functional foods, dietary supplements, pharmaceuticals, biomaterials, cosmetics)
- Industrial applications of natural antioxidants
- Technologies for encapsulation of active materials
- Novel antimicrobial agents, natural and/or synthetic; biomedical and technological applications (textiles)
- Innocuity of food products
- Modern methods for detection of food fraud
- Physical-chemical and toxicological studies of surface waters
- Enzymatic biomarkers for characterization of polluted soils, food products
- Investigation on thermochemical processes for energy recovery from waste materials

**Organisational / managerial / communication skills**

- Head of the Department of Agricultural Sciences and Food Engineering, "Lucian Blaga" University of Sibiu
- management of research projects (2015-2018)
- scientific secretary of the Research Centre on Biotechnology and Food Engineering, "Lucian Blaga" University of Sibiu, Romania <http://centers.ulbsibiu.ro/ccbia/>
- member of the Steering Committee – Scientific Group of the "International Proficiency Testing Conference" held in Romania;
- member of the editorial board of the Proceedings of the International Conference "Agricultural and Food Sciences, Processes and Technologies", Sibiu, Romania
- member of the Advisory Scientific Board of the scientific journal "*Acta Universitatis Cibiniensis, Series E, Food Technology*" edited by "Lucian Blaga" Universitatea of Sibiu, Romania <http://www.degruyter.com/view/j/auaft>
- coordination of students' scientific and research activities in the field of Biochemistry, Toxicology, Immunology and coordinatioan of graduatian and dissertation theses in the field of Ecological Biochemistry

**Other skills**

- Expert evaluator of research projects PN-II-IDEI/Partnerships, PN-III (UEFISCDI) Romania
- Visiting professor at the University of Padova, Italy
- Peer-reviewer for international journals (ISI and IDB))
- "Chairman" at the International Proficiency Testing Conference 2011, Romania
- Certificate of English TWE / TOEFL (1995)
- Certificat of English, Faculty of Letters and Arts, "Lucian Blaga" University of Sibiu, Romania (2007)

**ADDITIONAL INFORMATION**

**Publications**

**Publications as author and co-author:**

- Total = 213 published papers
- Published papers in ISI journals / proceedings = 89
- Books, as author and co-author = 9 (1 book edited by LAP)
- Chapters in books = 13 (from which 1 in a book edited by Wiley Verlag, 1 in LAP publisher, and 6 in books edited by the Romanian Academy Press)
- 1 Patent (OSIM No. 129691, "Procedure for oxidative stabilization of fish oil through addition of bilberry anthocyanins crude extract")

**Total number of citations:**

- 513 (according to Web of Science)
- 899 (according to Google Scholar)

**Hirsch index:**

- H-index = 12 (Web of Science)
- H-index = 16 (Google Scholar)
- H-index = 13 (Scopus)

- WoS profile: <https://publons.com/researcher/2657141/simona-oancea/>
- RG profile: [https://www.researchgate.net/profile/Simona\\_Oancea2](https://www.researchgate.net/profile/Simona_Oancea2)
- Google Scholar profile: <https://scholar.google.ro/citations?user=cnsaaN8AAAAJ&hl=ro&oi=ao>
- Orcid: <https://orcid.org/0000-0003-3832-6041>

**Honours and awards**

- Medals awarded at national / European EXHIBITION OF CREATIVITY AND INNOVATION (*Inventica 2015 gold medal, ProInvent 2016 gold medal, EuroInvent 2016 silver medal, Inventica 2016 gold medal, ProInvent 2018 gold medal, Inventica 2018 gold medal, ProInvent Medal 2019, EuroInvent 2019 silver medal*)
- Awards UEFISCDI = 10 scientific articles
- "Certificate of excellency" for the presentation "The importance of food safety and health in agri-food supply chains. Consumer perspectives on health food products", 5<sup>th</sup> International Conference "Integrated Systems for Agri-food Production" (SIPA 2007)
- Prize for the best presentation at the Conference "From Genes to Molecules", Siena, Italy (2002)
- Nominalizations: "International scientist of the year for 2006", IBC, Cambridge, England, "Leading scientists of the world", "Leading educators of the world", IBC, Cambridge, England, 2006; mentioned in the "49<sup>o</sup> Annuario 1996-97 Collegio Universitario Don Nicolo Mazza", Padova, Italia, pag. 26, in the "23<sup>rd</sup> 2006 Edition of Who's Who in the World", in the "2000 Outstanding intellectuals of the 21<sup>st</sup> century", 2006, IBC, Cambridge, England.

**Research projects**

Participation in research projects, as director/coordinator or as team member:

- Member of the research team of the international project "Structural investigation of surface modified magnetic nanosystems synthesized by conventional or eco-friendly methods and their impact on the environment", "Lucian Blaga" University of Sibiu, Romania & The Joint Institute for Nuclear Research (JINR) of Dubna, Russia.
- Director of the project PN-III-P2-2.1-CI-2018-1401, UEFISCDI, Hempseed oil enriched with Hibiscus extract, innovative product resistant to oxidative degradation, "Lucian Blaga" University of Sibiu & Natural Ingredients R&D srl Fagaras, Romania
- Member of the research team of Project SIDPOP in cooperation with the Norwegian University of Life Sciences, eea grants 2015-2016 "Support tool for taking decisions in the field of persistent organic pollutants managements. Case study: River area Mures", "Lucian Blaga" University of Sibiu, Romania
- Romanian Coordinator of the Scientific and Technological Bilateral Cooperation project Romania-Italy, "Peptaibiotics, an alternative to beta-lactam antibiotics: design, synthesis, bioactivity and textile functionalization" UEFISCDI, "Lucian Blaga" University of Sibiu, Romania
- director of the national project, PN-II-ID-PCE-2011-3-0474 2012-2014, "Research on anthocyanin bioactives from food plants, as useful tools for stabilization of polyunsaturated edible oils and for obtaining eco-textiles", UEFISCDI, "Lucian Blaga" University of Sibiu, Romania
- member (Key Expert/chemist and consultant) of the research-development project, contract no. 2047/21.06.2011, "Preparation of the Study on the quality of water and Registry of polluters and Programme of measures for preservation of the Timis river, source to border", "Lucian Blaga" University of Sibiu and Caransebeş Municipality, Romania
- postdoctoral fellowship 2011-2012 (Contract no. 65/31.01.2011) "Sustainable use of anthocyanins identified in the biodiversity of plants from natural and anthropogenic ecosystems, relevant for obtaining food products with ecosanogenetic potential", POSDRU/89/1.5/S/
- member of the research project 4011/2008-2011, "Sustainable concept-healthcare model in decentralized locations by the Hosman village model, Romania", German Federal Foundation for Environment (DBU), Projection Office Holzapfel, Kirchheim, Germany, and the "Lucian Blaga" University of Sibiu, Romania

- director of the national research project PN-II-ID-PCE, ID-476, nr. 524/2009, 2009-2011, "New pharmaceutically and textiles relevant  $3_{10}$  helical peptidic structures with antimicrobial activity", CNCSIS, "Lucian Blaga" University of Sibiu, Romania
- member of the national research project CEEEX nr. 135/2006, Program BIOTECH, 2006-2008, «Modern non-conventional technologies, in agreement with European regulations, of wastewater and sewage sludge treatments with the purpose to reuse it», "Lucian Blaga" University of Sibiu, Romania
- fellowship in research project ACER 0111-0123 2003, "Preparation of conformationally stable peptides and use as catalysts in chiral syntheses", DSM Research BV, Geleen, The Netherlands & University of Padova, Italy
- member of the research project MURST-PRIN 2002-2004, "Sistemi peptidici supramolecolari multivalenti" ("Multivalent supramolecular peptide-based systems"), University of Padova, Italy
- member of the research project MURST-PRIN 2000-2002, "Sistemi supramolecolari basati su foldameri oligopeptidici" ("Supramolecular systems based on oligopeptide foldamers"), University of Padova, Italy
- member of the research project "Ex 60%" 2000-2004, "Nuovi amminoacidi e peptidi per applicazioni in chimica bioorganica" ("New amino acids and peptides for bio-organic applications"), University of Padova, Italy
- postdoctoral fellowship of the research contract ASS. RIC. 2000-2002, "Ingegneria dei peptidi: sistemi elicoidali rigidi come spaziatori e templati in chimica bioorganica e nella scienza dei materiali", University of Padova, Italy
- coordinator of the grant PHARE- TEMPUS IMG-97-RO-2008, 16 sept.-14 dec. 1998, "Preparation of teaching materials", University of Padova, Italy
- member of the national research grant CNSCU, Nr. 7009/1997, "Synthesis of oligopeptides with potential antimicrobial activity and of heteroaromatic compounds as auxiliaries for chromogenic peptides with the purpose of evaluation of hydrolases activities", CNSCU, University of Bucharest, Romania

**Conferences /  
congresses /  
exhibition on  
inventics**

- 129 papers presented at national and international conferences / congresses in the field
- Participation to scientific events on inventions / creativity (*Inventica 2015 gold medal, ProInvent 2016 gold medal, EuroInvent 2016 silver medal, Inventica 2016 gold medal, ProInvent 2018 gold medal, Inventica 2018 gold medal, ProInvent Medal 2019, EuroInvent 2019 silver medal, Inventica Medal 2019*)

**Seminars**

Invited seminars at the University of Padova, Italy:

- "Innovation in ecologic functionalization/bioactivation of surfaces of textiles" (2014)
- "Antibiotic resistance and susceptibility testing" (2013)
- "Antimicrobial agents: new design strategies and applications" (2013)
- "Evaluation of anthocyanins in plant foods: a useful task for estimation of their intake and health promoting benefits" (2011)
- „Adverse effects of chemical agents on human health: a case study of occupational lead exposure" (2009)

**Memberships**

- Romanian Society of Biochemistry and Molecular Biology SRBBM (associated to the international organization FEBS); Romanian Society of Cellular Biology (SRBC); Society of Chemistry of Romania (SChR); Association of Food Industry Professionals in Romania, in Education, Research and Production (ASIAR); Società Chimica Italiana, Divisione di Chimica dei Sistemi Biologici, Italy (2001-2002)

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