






PERSONAL INFORMATION

Oana CRACIUNESCU

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OCCUPATIONAL FIELD

Biochemistry and cellular and molecular biology applied in research and experimental development of biomaterials for tissue engineering and regenerative medicine, cosmetics and nutraceuticals. Biomedical biotechnologies.

WORK EXPERIENCE

June 2014 – Present

May 2006 – May 2014

Jan. 2001 – Apr. 2006

Oct. 1991 – Jan. 2001

Senior researcher gr. I

Scientific researcher gr. II

Scientific researcher gr. III

Research assistant, Scientific researcher

Employer: National Institute of Research and Development for Biological Sciences (INCDSB)

Main activities and responsibilities: Project Manager/Responsible of BIOESGREEN 23020201/2023-2026 (Nucleu), PN III 647PED/2022-2024 (Bioeconomy), PN III PCCDI 10/2018-2020 (Bioeconomy) in complex partnership, PN II 61012/2007-2010 (Biotechnologies), PN I VIASAN 368/2004-2006, VIASAN 179/2002-2004; BIODIVERS 104/2016-2017 (Nucleu) and BIOSTAR 107/2005-2008 (Nucleu); **R&D activity** within more than 50 research projects; **Mentoring** of assistant researchers from INCDSB and Master/ PhD students from partner Universities; **Dissemination of original results** in 75 ISI articles, 62 BDI articles, 11 book chapters (3 at international publishers), 1875 communications at international conferences; **Inventics activity** – 27 granted patents and applications at OSIM, 1 silver medal at INNOVA-2010 Bruxelles.

Member of the Scientific Council of INCDSB

Expert for the Certification of R-D activity - advanced functional materials

External member of the Council of Doctoral School of Biology, University of Bucharest

Member of doctoral committees and doctoral dissertation jury at University of Bucharest and USAMV Bucharest

Scientific competence: Lab biotechnologies for developing biomedical and biopharmaceutical products within Circular bioeconomy; Development of technologies for novel products (27 patented) as polymeric composite bio(nano)materials based on animal and plant extracts, ceramics and plastic materials, lipid and metallic nanostructures for skin, bone, cartilage tissue engineering, hydrogels as controlled delivery systems; formulation of novel cosmeceuticals and nutraceuticals; Biochemical and cellular and molecular biology techniques for analysis of natural polymers (collagen, elastin, glycosaminoglycans, etc) and bioactive compounds from medicinal plants (polyphenols, polysaccharides, etc) for the development of new products with biomedical applications; Physico-chemical, biochemical (electrophoresis, zymography, chromatography) and biological evaluation of bioactive compounds, biomaterials and nanostructures for biomedical applications; Analyses of the antioxidant, anti-inflammatory and photoprotective properties of bioactive compounds using *in vitro* and *in vivo* experimental models.

Business or sector: Research and experimental development on natural sciences and engineering (CAEN code 7219)

EDUCATION AND TRAINING

15-16 Mar 2024	Training Course	
	Brussels Academy	
	• Project Management for Horizon Europe Program	
18-24 Jun. 2019	Training course	
	Frontier Management Consulting srl	
	• Marketing in Research	
21-25 Mar. 2016	Virtual course	ISCED 6
	Australian Institute for Innovative Materials and University of Wollongong	
	• Bioprinting: 3D Printing Body Parts	
May 2012 – Apr. 2013	Postdoctoral research stage	ISCED 6
	Institute of Biochemistry of the Romanian Academy, Bucharest, Romania	
	• Post-doctoral school “Cellular and molecular biotechnologies for medical applications” • Research project – Lipid nanostructures as controlled delivery systems for anti-inflammatory bioactive molecules (ESF POSDRU/89/1.5/S/60746) • Courses of Research management; Genomics, proteomics, metabolomics and bioinformatics; Biomaterials, nanostructures and pharmacophores	
Oct. 1997 – June 2005	Ph. D. in Exact Sciences, Chemistry	ISCED 6
	University Politehnica of Bucharest, Faculty of Industrial Chemistry, Romania	
	• Ph. D. Thesis – Characterization of elastin by specific methods and techniques	
23-29 June 2005	FEBS practic course	ISCED 6
	Institute of Biochemistry of the Romanian Academy, Bucharest, Romania	
	• Advanced Techniques of Molecular Biology	
14-18 July 1997	Theoretic and practic FEBS course	ISCED 6
	University of Hertfordshire, Faculty of Natural Sciences, UK	
	• Advanced Protein Techniques Course	
12-21 June 1995	FEBS practic course	ISCED 6
	Danish Centre for Human Genome Research, Department of Medical Biochemistry, Aarhus, Denmark	
	• Basic and Specialized Techniques in Cell Biology	
Sept. 1986 – June 1991	BS, MSc in Biochemistry	ISCED 5
	University of Bucharest, Faculty of Chemistry, Section of Technological Biochemistry, Romania	
	• Thesis – Obtaining of a partially purified enzymatic preparation of soybean urease for analytical use	

PERSONAL SKILLS

Mother tongue(s)	Romanian				
Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Spanish	B1	B2	B1	B1	B1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](https://www.europecouncil.europa.eu/en/common-european-framework-reference-languages/)

Communication skills

- Good communication skills gained through my 30 years experience of collaboration with other researchers and entrepreneurs within complex research projects
- Mentoring of PhD and Master students from University of Bucharest and USAMV Bucharest
- Training newly hired assistant researchers from INCDSB

- Organisational / managerial skills**
- Good organisational skills gained in 22 years as Project manager of research-development projects in complex partnership, coordinating 2-4 partners from other research institutions, universities and SMEs
 - Member of the Scientific Committee of INCDSB's Symposia BAHH 1 and 2, BIOHUB 1 and 2
- Job-related skills**
- Good skills of operating research equipments gained during 33 years of lab work
 - Abilities in project budget management for the acquisition of equipments, reagents, etc. acquired by participation in more than 50 research projects
 - Knowledge of fiscal facilities in R&DI domain
- Digital competence**
- Good command of MS Office suite (Word, Excel, Power point)
 - Good command of photo editing software gained during manuscripts preparation for publishing, Image-J software used for (nano)particles measurements in microscopy images and Gel Analyzer software used for protein bands densitometry in gels or blots
 - Good command of statistical analysis software Student *t*-test and linear regression analysis by Excel

ADDITIONAL INFORMATION

- Publications** Main author and co-author of 137 full papers published in refereed journals, 75 in ISI journals (2006-2024) (Researcher ID: F-6764-2011; ORCID: 0000-0003-0625-3650)
- Patents** 12 granted patents by OSIM (2000-2021), 15 patent applications (2018-2023)
- Books** Main author and co-author of 11 chapter books, from which 3 at international publishers
- Projects** Project manager/ responsible and member in the team of 50 research projects
- Conferences** Main author and co-author of 185 papers communicated as oral presentations and posters at international scientific conferences, and published in proceedings
- Grant and manuscript reviews** Manuscript reviewer for Elsevier, Wiley, Plos One and Dove Press journals
Evaluator of ICGEB grants
- Honours and awards** Award of the Ministry of Education and Research for the management and results obtained within project VIASAN 179/2002-2004.
Award and silver medal at INNOVA-2010, Bruxelles for the patent RO123117B1/2010 - Biocompatible laminated material based on polyurethane and natural polymers and process for preparing the same
Award of best senior researcher of INCDSB in 2022
- Memberships** Member of the Romanian Society of Bioengineering and Biotechnology (SRBB), affiliated to the European Federation of Biotechnology (EFB)
Member of the Romanian Society of Biochemistry and Molecular Biology (SRBBM), affiliated to the Federation of European Biochemical Societies (FEBS)
- Citations** 1123 citations; Hirsch index: 18 (Web of Science), 22 (Google Scholar)

Date: 9.09.2024

Signature: Oana Craciunescu

