

CURRICULUM VITAE

PERSONAL DETAILS

Family name, First name: **Popescu, Ionela Daniela**

Researcher unique identifier(s) (such as ORCID, Research ID, etc.): ORCID 0000-0001-8751-0043

URL for web site:

• Education and key qualifications

2014	PhD (no. 377 of 15.07.2014) University of Bucharest, Faculty of Biology, Romania
2003	MSc in Chemistry (no 1424/06.05.2004) University of Bucharest, Faculty of Chemistry, Bucharest, Romania
2001	BSc in Chemistry (no 1415/01.08.2002) University of Bucharest, Faculty of Chemistry, Bucharest, Romania

• Current position(s)

2017 - present	Researcher grade C (CSIII) Biochemistry-Proteomics Laboratory, Victor Babeş National Institute of Pathology Bucharest, Romania
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• Previous position(s)

2010 - 2017	Researcher (CS) Biochemistry-Proteomics Laboratory, Victor Babeş National Institute of Pathology Bucharest, Romania
2002 - 2010	Research Assistant Biochemistry-Proteomics Laboratory, Victor Babeş National Institute of Pathology Bucharest, Romania

RESEARCH ACHIEVEMENTS AND PEER RECOGNITION

Research achievements

The pathology of brain tumors has been the subject of several projects and publications, bringing new elements at an international level, which have materialized in projects and papers published/communicated at national and international congresses, covering important fields in medical research, such as early diagnosis, targeted therapy and monitoring protocol, based on the identification of new biomarkers by proteomic techniques in brain tumors (Research stage in Proteomics Biomics Medical Centre, Saint George's University of London).

1. Fatty Acids, CD36, Thrombospondin-1, and CD47 in Glioblastoma: Together and/or Separately?, *Int. J. Mol. Sci.* 2022, 23(2), 604; <https://doi.org/10.3390/ijms23020604>
2. Patent granted RO130589B1/30.05.2022 (Derwent Primary Accession Number 2015-59674N) – Method for setting a protein biomarkers set for diagnosing glioblastoma
3. Low-Concentrations of Fatty Acids Induce an Early Increase in IL-8 Levels in Normal Human Astrocytes, *Metabolites* 2022, 12(4), 329; <https://doi.org/10.3390/metabo12040329>
4. Friends with Benefits: Chemokines, Glioblastoma-Associated Microglia/Macrophages, and Tumor Microenvironment, *Int. J. Mol. Sci.* 2022, 23(5), 2509; <https://doi.org/10.3390/ijms23052509>

Actively involved in medical and pharmaceutical research, with a focus on the investigation and evaluation of the biological activity of natural compounds and biomaterials, including nanoparticles, hydrogels, and nanomaterials, as demonstrated through multiple collaborations with national research institutes and the private sector.

1. Potential of Newly Synthesized Sea Buckthorn Phytocarriers as Anti-Inflammatory Active Agents, Popescu ID, Codrici E, Pop S, Fertig TE, Dudău M, Anghelache IL, Constantin N, Marinescu RM, Voiculescu VM, Badea GI, Diaconu M, Maxim ME, Scurtu M, Zanov K, Enciu AM, Litescu SC, Tanase C. *Pharmaceuticals (Basel)*. 2025 Feb 5;18(2):212. doi: 10.3390/ph18020212. PMID: 40006025; PMCID: PMC11858888.

2. Formulation and Comprehensive Evaluation of Biohybrid Hydrogel Membranes Containing Doxycycline or Silver Nanoparticles, D Stan, LL Ruta, LA Bocancia-Mateescu, AC Mirica, D Stan, M Micutz, O Brincoveanu, AM Enciu, E Codrici, ID Popescu, ML Popa, F Rotaru, C Tanase, *Pharmaceutics*, 2023;15(12):2696, doi: 10.3390/pharmaceutics15122696, IF-5,4
3. In vitro cytotoxicity assessment of phytosomes as carriers for bioactive compounds obtained from Hippophae rhamnoides berries, I. D. Popescu, A.M. Enciu, E. Codrici, M. Dudau, N. Constantin, L. Anghelache..., C. Tanase, *Toxicology Letters*, 2023, 384S1, S301–S325, IF-3.5
4. In vitro assessment of the cytotoxicity and anti-inflammatory properties of a novel dietary supplement; ID Popescu, E Codrici, S Mihai, CM Luntraru, M Neagu C Tanase; *Experimental and Therapeutic Medicine*; 2021; 22(4):1170. doi: 10.3892/etm.2021.10604
5. A fatty acid fraction purified from sea buckthorn seed oil has regenerative properties on normal skin cells; M Dudau, E Codrici, I Tarcomnicu, S Mihai, ID Popescu, L Albuiescu, N Constantin... C Tanase; *Frontiers in Pharmacology – Ethnopharmacology*, 2021; 12:737571, doi: 10.3389/fphar.2021.737571
6. Sea-Buckthorn Seed Oil Induces Proliferation of both Normal and Dysplastic Keratinocytes in Basal Conditions and under UVA Irradiation; M Dudau, AC Vilceanu, E Codrici, S Mihai, ID Popescu, L Albuiescu,...LC Ceafalan, ME. Hinescu, AM Enciu, C Tanase; *Journal of Personalized Medicine* 2021, 11(4), 278; <https://doi.org/10.3390/jpm11040278> , IF-3,508

Peer recognition

Honors and Awards

- **Awards:** winning by selection 5 scholarships at the international congresses - "Sixth International Symposium and Exhibition on Environmental Contamination in Central and Eastern Europe and the Commonwealth of Independent States", (Prague 2003), "10th Young Scientist Forum - Molecules of Life, FEBS 2010 (Gothenburg), 36th FEBS Congress 2011 (Torino, Italy), 40th FEBS Congress 2015 (Berlin), 42th FEBS Congress (Ierusalim 2017);
- **Patents:** co-inventor to 6 patents granted/11 patents request. Patenting activity was rewarded with >20 medals and 7 diplomas of excellence, at ProInvent, InfoInvent, EuroPolitehnicus, EuroInvent etc
 - **Process for obtaining an active product from sapropelic mud and the product thus obtained** – granted 2024, OSIM RO133249 (B1)
 - **Method for identifying the amyloid precursor protein in high–molecular-weight protein complexes** – granted 2024, OSIM RO132970 (B1)
 - **Set of biomarkers for the diagnosis and prognosis of cervical cancer achieved through proteomic profile analysis** – granted 2022, OSIM RO130591 (B1)
 - **Proteomic profile obtained by mass spectrometry for the detection of brain tumors** – granted 2022, OSIM RO130589 (B1)
 - **Method for establishing a set of soluble biomarkers for the diagnosis, prognosis, or monitoring of glioblastoma, and method for the diagnosis, prognosis, or monitoring of glioblastoma based on the use of this set** – granted 2018, OSIM RO130590 (B1)
 - **Plant-derived flavonoid bioproduct (Proflav) and process for obtaining the same** – granted 2013, OSIM RO127270 (B1)
- involved in more than 50 national research projects, leading 2 of them
 - **Protein signature established by proteomic technologies in precision cancer diagnosis** PN 16.22.05.03, (2016-2017)
 - **Evaluation of an innovative multivalent natural product with anti-inflammatory and anti-microbial properties for urinary/systemic diseases**, POC-G 52/Cod SMIS: 105631 - Hofigal contract 938/04.07.2019
- involved in 8 projects with European Funds:
 - PNRR-III-C9-2022 – I5 (www.ivb.ro/pnrr-iii-c9-2022-i5)
 - POC (NOVATERA, nr. 438/390114/2023, Cod SMIS 156316)
 - POC-G (INTELBIO MED, ID: P_40_197; <http://www.intelbiomed.ro/>);
 - POSDRU (DPD, 159/1.5/S/141531; <http://dpd-dru.ro/>);
 - POSDRU (TDM, 81/3.2/S/58819; <http://www.tdm-dru.ro/beta/>);
 - POSCCE (CANBIOPROT Nr. 685/ctr. 152; <https://www.ivb.ro/v3/ro/canbioprot/>);
 - POC-E (REDBRAIN, ID: P_37_732; <http://www.redbrain.ro/>);
- **Member in 1 COST Actions:** CA21135, Modelling immunotherapy response and toxicity in cancer (IMMUNO-model) (<https://www.immuno-model.eu/>);
- **Membership in academic societies:** Romanian Society of Immunology; Romanian Society of Biochemistry and Molecular Biology (FEBS Constituent Society);

ADDITIONAL INFORMATION

Total number of publications: 83 (Web of Science),

Total number of citations (excluding self-citations): 1425 (Web of Science),
H-index: 19 (Web of science).

Other contributions to the research community

- responsible for quality – RCM in Proteomic Biochemistry Laboratory, assumes coordination and control of quality management activities (2024 – present);
- member of the team responsible implementation of Technological Transfer Center at Victor Babes” National Institute of Pathology and Biomedical Sciences;
- substitute Quality Manager in the Biochemistry-Proteomics Laboratory, RENAR accredited medical analysis laboratory according to the requirements of the international standard SR EN ISO 15189:2013 (2009-2017);
- involved in organizing national conferences as a member of the organizing team.