

Europass Curriculum Vitae



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Personal information

First name(s) / Surname(s) **Octavian POPESCU**
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 E-mail opopescu.ubbcluj@gmail.com; octavian.popescu@ubbcluj.ro
 Nationality Romanian
 Date of birth September 23rd, 1951
 Gender Male

Occupational field Molecular Biology, Genetics, Bionanotechnology (scientific research, education)

Work experience

Dates	2016-present
Occupation or position held	Senior Scientist; Dean
Main activities and responsibilities	Scientific research and Education
Name and address of employer	Babeş-Bolyai University Cluj-Napoca: Faculty of Biology and Geology, Department of Molecular Biology and Biotechnology; Institute of Interdisciplinary Research on Bio-Nano-Science, Molecular Biology Center
Dates	2009-present (1/2 part time from July 1 st , 2016)
Occupation or position held	Senior Scientist; Deputy Director (2009-2012); Director (2012-2016)
Main activities and responsibilities	Scientific research
Name and address of employer	Romanian Academy, Institute of Biology Bucharest; 296, Splaiul Independenţei, 060031 Bucharest
Dates	1997-2013
Occupation or position held	Professor
Main activities and responsibilities	Teaching and scientific research
Name and address of employer	Babeş-Bolyai University Cluj-Napoca: Department of Experimental Biology (1997-2009; 2011-2012); Department of Clinical Psychology and Psychotherapy (2009-2011); Institute of Interdisciplinary Research on Bio-Nano-Science, Molecular Biology Center (2001-present).
Dates	1990-1997
Occupation or position held	Senior Scientist
Main activities and responsibilities	Scientific research
Name and address of employer	Institute for Biological Research Cluj-Napoca, 48, Republicii str., Cluj-Napoca
Dates	1981-1990
Occupation or position held	Lecturer and Senior Lecturer
Main activities and responsibilities	Teaching and scientific research
Name and address of employer	Department of Cell Biology, University of Medicine and Pharmacy Cluj-Napoca, 13, Emil Isac, Cluj-Napoca
Dates	1977-1981
Occupation or position held	Biologist
Main activities and responsibilities	Medical laboratory and scientific research
Name and address of employer	County Hospital Cluj, Laboratory of Human Genetics

Education and training

Dates
Title of qualification awarded
Principal subjects/occupational skills covered
Name and type of organization providing education and training

1981-1985
Ph.D. in Biochemistry
Biochemistry, Cell Biology, Molecular Biology, Genetics, Human Genetics

University "Alexandru Ioan Cuza" Iași, Romania

Dates
Title of qualification awarded
Principal subjects/occupational skills covered
Name and type of organization providing education and training

1972-1976
University Diploma (B.Sc.) in Molecular Biology and Physiology
Chemistry (General and Inorganic, Physical, Organic, Analytical), Biomathematics, Histology and Anatomy, Biochemistry, Biophysics, Comparative Physiology, Immunology, Ecology, Genetics, Molecular Biology, Molecular Biology of Malign Cell, Instrumental Biochemical Methods, Embryonic Development, Neurophysiology, Microbiology

University of Belgrade, Yugoslavia

Dates
Title of qualification awarded
Principal subjects/occupational skills covered
Name and type of organization providing education and training

1970-1972
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Human Anatomy, Biochemistry, Biophysics, Cytology, Histology, Human Physiology, Medical Biology
Institute of Medicine and Pharmacy Cluj-Napoca, Faculty of Medicine

Teaching Experience

1997-2012 - Course "Genetics" for B.Sc. degree in Biology; "Recombinant DNA Technology" and "Molecular Genetics" for M.Sc. degree in "Cell Biology and Molecular Biotechnology"; "Structural and Functional Genomics" and "Advanced Genetics" for Ph.D. students, Babeș-Bolyai University
1981-1990 - Course "Cell and Molecular Biology", University of Medicine and Pharmacy

Visits to other Laboratories

1998 (9 months) - **Visiting Scientist**: INSERM U42, Villeneuve d'Ascq, France
1996 (6 months) - **Visiting Professor**: Biozentrum, University of Basel, Switzerland
1993-1996 Associate Scientist - Department of Research, University Hospital Basel, Switzerland
1990-1992 Associate Scientist - Institut Pasteur Paris, France

Personal skills and competences

Mother language
Other language(s)
Self-assessment
European level ()*

Romanian

French
English
Serbo-Croatian
Russian
German

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production		Writing	
C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user
C1	Proficient user	C1	Proficient user	C1	Proficient user	B2	Independent user	B2	Independent user
C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user
A2	Basic user	A2	Basic user	A2	Basic user	A2	Basic user	A2	Basic user
A1	Basic user	A1	Basic user	A1	Basic user	A1	Basic user	A1	Basic user

(*) [Common European Framework of Reference for Languages](#)

Social skills and competences

Teamwork

Organizational skills and competences

Experience in research project management (project manager)
Managerial experience: Dean and Head of Department; Scientific Director; Director

Technical skills and competences

Specific methods and techniques of molecular biology, molecular genetics and biochemistry

Computer skills and competences	Specific software for molecular biology and biochemistry
Artistic skills and competences	Artistic Drawing (Fine arts)
Other skills and competences	History of Romania
Driving license	B
Additional information	<p>Member of the Romanian Academy (Associate Member - 2000; Full Member - 2010).</p> <p>President of the Romanian Society of Biochemistry and Molecular Biology (2004-2009).</p> <p>Scientific Publications: 93 research papers in journals quoted by <i>Web of Science Core Collections</i> (<i>Nature, Science, PNAS USA, Mol Biol Evol, Genome Biol Evol, J Biol Chem, J Mol Biol, Eur J Immunol, BiochemistryUSA, Sci Rep, PLoS One, J Membrane Biol, Electrophoresis, Mol Pharmacol, Nanotechnology, Biochimie, FEBS Lett</i> etc.); more than 2050 citations indexed by Web of Science (September 2019) (2800 citations by Google Academic); 6 patents (<i>Derwent Innovations Index</i>) 15 book chapters (12 in English and 3 in Romanian); 3 books (in Romanian): <i>Electroforeza (Electrophoresis)</i>, Editura Tehnică, București, 184 pp., 1988, <i>Electroforeza proteinelor în geluri de poliacrilamida (Protein electrophoresis on polyacrylamide gels)</i>, Editura Tehnică, București, 268 pp., 1990 and <i>Dicționar de microbiologie generală și biologie moleculară (Dictionary of general microbiology and molecular biology)</i>, 1347 pp., 2011. h-index 23 (25 by Google Academic).</p> <p>Main Research Achievements: Biochemical characterization of human erythrocyte membrane proteins. Identification of human erythrocytes membrane proteins involved in water diffusion. Production of heterologous proteins in <i>Escherichia coli</i>. Proteoglycan mediated cell recognition and adhesion in marine sponges. Identification and characterization of glyconectins, a new class of cell adhesion molecules. Quantification of cell adhesion using Atomic Force Microscopy. Cloning and expression of different genes from eukaryotic or prokaryotic microorganisms. Human genotyping. Molecular taxonomy and phylogeny. Nanotechnology. Retinal ganglion cell labeling and manipulation in mice. Retrotransposons variety and evolution. Ancient DNA. Bacterial drug resistance.</p>

Representative papers:

1. Rusu I, Modi A, Radu C, Mircea C, Vulpoi A, Dobrinescu C, Bodolică V, Potârniche T, **Popescu O**, Caramelli D, Kelemen B, Mitochondrial ancestry of medieval individuals carelessly interred in a multiple burial from southeastern Romania, *Sci Rep*, **9** (1), 961, 2019. doi: 10.1038/s41598-018-37760-8 (**IF₂₀₁₈ = 4,011; AIS₂₀₁₈ = 1,286**)
2. Sajgo S, Ghinia MG, Brooks M, Kretschmer F, Chuang K, Hirianna S, Wu Z, **Popescu O**, Badea TC, Molecular codes for cell type specification in Brn3 retinal ganglion cells, *Proc Natl Acad Sci USA*, **114** (20), E3974-E3983, 2017. doi: 10.1073/pnas.1618551114 (**IF₂₀₁₇ = 9,504; AIS₂₀₁₇ = 4,531**)
3. Lupan I, Bulzu P, **Popescu O**, Damert A, Lineage specific evolution of the VNTR composite retrotransposon central domain and its role in retrotransposition of gibbon LAVA elements, *BMC Genomics*, **16**, 389, 2015. doi: 10.1186/s12864-015-1543-z (**IF₂₀₁₅ = 3,867; AIS₂₀₁₅ = 1,334**)
4. Ianc B, Ochis C, Persch R, **Popescu O**, Damert A, Hominoid Composite NonLTR Retrotransposons Variety, Assembly, Evolution, and Structural Determinants of Mobilization, *Mol Biol Evol*, **31**, 2847-2864, 2014. (**IF₂₀₁₄ = 9,105; AIS₂₀₁₄ = 4,441**)
5. Potara M, Jakab E, Damert A, **Popescu O**, Canpean V, Astilean S, Synergistic antibacterial activity of chitosan-silver nanocomposites on *Staphylococcus aureus*, *Nanotechnology*, **22** (13), Article Number: 135101, 2011. DOI: 10.1088/0957-4484/22/13/135101 (**IF₂₀₁₁ = 3,821; AIS₂₀₁₁ = 1,041**)
6. Ujvárosi L, Bálint M, Schmitt T, Mészáros N, Ujvárosi T, **Popescu O**, Divergence and speciation in the Carpathians area: patterns of morphological and genetic diversity of the crane fly *Pedicia occulta* (Diptera: Pediciidae), *J N Am Benthol Soc*, **29**, 1075-1088, 2010. (**IF₂₀₁₀ = 2,974; AIS₂₀₁₄ = 1,089**)

October 3rd, 2019.

Professor Octavian POPESCU, PhD