

Europass Curriculum Vitae



Personal information								
First name(s) / Surname(s)	POPOV LUCIA-DOINA							
Address(es)	Sos. Iancului 19, Bl. 106B, Sc. A, ap.28, Sect. 2, BUCURESTI							
Telephone(s)	+40 21 3194518							
Fax(es)	+40 21 3194519							
E-mail	<u>doina.popov@icbp.ro;</u> doina.popov@gmail.com							
Nationality	Romanian							
Date of birth	21.03.1943							
Gender	Female							
	Scientometry: Citations of all publications: 1527/ Citations: 2010-08.07.2015: 751 (Google scholar) Hirsh Index of all publications: 20/ h-index 2010-08.07.2015: 15 (Google scholar) i10-index of all publications: 40/i10-index 2010-08.07.2015: 26 (Google scholar)							
Desired employment / Occupational field	Institute of Cellular Biology and Patology "Nicolae Simionescu" of the Romanian Academy							
Work experience	Basic research, cellular and molecular biopathology. Experimental Diabetes: non-enzymaticaly glycated proteins, microangiopathy, resistance arterie reactivity, identification of cellular mechanisms modified by hyperglycaemia and the potential strategies alleviate the associated imbalances, effects of high glucose concentration on intracellular signalir pathways operating within the vascular wall, oxidative stress, endoplasmic reticulum stress, Prote Tyrosine Phosphatase 1B (PTP1B). Blood platelets; Cardiomyocites. Vascular proteoglycans and glycosaminoglycans; endothelial cells; vascular smooth muscle cells. Enzymology.							
Dates	1992 - present							
Occupation or position held	Scientific Secretary of ICBP"N.S", Research scientist, grade I							
Main activities and responsibilities	Head of the Department "Pathophysiology and Pharmacology"							
Name and address of employer	Institute of Cellular Biology and Pathology "N. Simionescu", B.P. Hasdeu Str. no. 8, Sect 5, Bucuresti							
Type of business or sector	Basic biomedical research, cellular and molecular biopathology							
Dates	1990 - 1992							
Occupation or position held	Research scientist, grade II							
Main activities and responsibilities	Head of the laboratory "Vascular dysfunction in diabetes", Scientific Secretary of ICBP							
Name and address of employer	Institute of Cellular Biology and Pathology "N. Simionescu", B.P. Hasdeu Str. no. 8, Sect 5, Bucuresti							
Type of business or sector	Basic biomedical research, cellular and molecular biopathology							

Dates	1978 - 1990						
Occupation or position held	Research scientist, grade III						
Main activities and responsibilities	Head of the laboratory "Preparative biochemistry"						
Name and address of employer	Institute of Cellular Biology and Pathology , B.P. Hasdeu Str. no. 8, Sect 5, Bucuresti						
Dates	1976 – 1978; 1974-1976						
Occupation or position held	Research scientist, grade III						
Main activities and responsibilities	Scientific research						
Name and address of employer	Institute of Biological Research, Spl. Independentei no. 296, Bucharest						
Type of business or sector	Basic research in enzymology						
Dates	1968-1974						
Occupation or position held	Assistant researcher; scientific researcher						
Main activities and responsibilities	Scientific research						
Name and address of employer	Institute of Biochemistry of the Romanian Academy, Docentilor 20, Sect. 1, Bucharest						
Type of business or sector	Basic research in enzymology						
Education and training							
Dates	1960-1965						
Title of qualification awarded	University diplomate						
Principal subjects/occupational skills covered	Chemistry, biochemistry						
Name and type of organisation providing education and training	Chemistry Faculty, University of Bucharest, Biochemistry						
Level in national or international classification	Merit diploma						
Dates	1970-1974						
Title of qualification awarded	Doctorate/ Doctor in Chemistry						
Principal subjects/occupational skills covered	Enzymology, Romanian Ministry of Education						
Level in national or international classification	Doctoral Diploma in Chemistry, Biochemistry						
Dates	1977-1978						
Title of qualification awarded	Fullbright bursary						
Principal subjects/occupational skills covered	Cell biology						
Level in national or international classification	New York University, Dept. of Cell Biology, New York, USA						
	Other skills in cell biology electrophysiology/ farmacology/ signal transduction obtained in/at: USA, Yale University 1983; Denmark, Aarhus University 1995, Belgium, Center for Molecular and Vascular Biology, Leuven 1997, Greece, NATO Advanced Study Institute, Crete 2000, U.K. University College of London 2001 and 2002						

Personal skills and competences											
Mother tongue(s)	Specify mother tongue: Romanian										
Other language(s)	English, French, G	Ger	man	Speaking				Writing			
Euronean level (*)	Listening		Reading		Spoken interaction		Spoken production		writing		
Language	x English, French, German	x	English, French, German	X	English, French, German	X	English, French, German	х	English, French, German		
Language											
	(") <u>Common European</u>										
Social skills and competences	Team worker, easy interacting and socializing										
Organisational skills and competences	Head of laboratory, leadership, scientific secretary										
Technical skills and competences	<u>Technical skills</u> : Biochemical and molecular biology techniques, electron microscopy, fluorescence microscopy, microdissections, ultracentrifugation, radiobiochemistry, SDS-PAGE, immunoblotting, immunohistochemistry, enzyme kinetics <u>Competences</u> : • Identification of albumin binding proteins of cardiomyocyte sarcolemma, a docking site for the circulating albumin-fatty acids complexes; • uptake and transport (transcytosis and endocytosis) of AGE-albumin in the capillary endothelium; • pathomorphological changes of lung microvasculature in diabetes; • phenotypic modulation of the endocardial endothelium in diabetes; • the reactivity of the resistance arteries in experimental hyperlipidaemia-hyperglycaemia; • the involvement of gap junctions in vascular pathology/dysfunction: • the effects of oral L-arginine supplementation in experimental hyperlipidaemia associated with diabetes; • an original model for type 2 diabetes: the hamster fed a hypercaloric diet enriched in saturated fatty acids; • identification of DNA-bound Advanced Glycation End-products formed in high glucose condition; • carbonylation of proteins during ageing; • lipid loading of human endothelial cells and smooth muscle cells: the activated signal transduction pathways; • unraveling biochemical mechanisms underlying platelets activation in human type 2 diabetes; platelets – endothelium interaction in venous insufficiency; • disturbances in signal transduction pathways that conduct to vascular wall dysfunction in hyperglycemia; • protein tyrosine phosphatases, as signaling regulators in vascular cells;• organelles stress (endoplasmic reticulum and mitochondria) within diabetic myocardium.										
Computer skills and competences	excellent										

## Additional information Honours

Academician (2011);Correspondent Member of the Romanian Academy (2001); Member of the Romanian Academy for Medical Sciences (1993-present)

*Co-editor* of the international monograph "Cellular Dysfunction in Atherosclerosis and Diabetes - Reports from Bench to Bedside –" Maya Simionescu, Anca Sima, <u>Doina Popov</u> – editors, The Publishing House of the Romanian Academy, Bucharest, Romania, 2004, 426 pages. This book was honored with "Nicolae Simionescu" award of the Romanian Academy.

*Author* of **9** chapters in international monographs (Springer, Elsevier, Schattauer, Karger, Transword Res. Network, Antonio Delfino), **3** chapters in monographs (Romanian Academy Publishing House), **60** original papers published "in extenso" in Thomson-Reuters international journals (ISI), **52** papers published "in extenso" in Romanian Journals, **74/125** posters and oral presentations at international/Romanian scientific meetings.

<u>Awards:</u> 1991,"Emil Racovita"award of the Romanian Academy; 1999,"Dr. C.Velican" award of the Romanian Society for Cell Biology for research on atherosclerosis; 2004"Ion Moraru" award for basic immunology (along with Pucheanu E., Radulescu L. and Antohe F.)

## Member in International Committees:

European Association for the Study of Diabetes (EASD)(2003-2011); European Council for Cardiovascular Research (ECCR)(2002-present); Management Committee of the COST B5 Action of the European Community (1998-2000).

Ph.D. advisor in cellular and molecular biology at ICBP "N.Simionescu", Romanian Academy.

Peer Reviewer for scientific journals: Cardiovascular Research (ed. Elsevier Sci., Amsterdam, NL): 1997-present ("core"reviewer), Archives of Physiology and Biochemistry (Informa Healthcare, U.K; 2005-present), Experimental and Clinical Endocrinology and Diabetes (Georg Thieme Verlag, Germany; 2008-present), Thrombosis Research (Elsevier Sci. Amsterdam, NL; 2009-present), Clinical Chemistry and Molecular Medicine (Walter De Gruyter; 2010), Anti-Cancer Agents in Medicinal Chemistry (2010); Diabetes Research and Clinical Practice (Elsevier Sci. Amsterdam, NL, 2011), Diabetologia (Springer, Germany): 2012,2013, Cellular Physiology and Biochemistry: 2012, Molecular and Cellular Endocrinology: 2012, Current Medicinal Chemistry (www.bentham.com): 2013, PlosOne: 2013, Lipids (Springer Verlag): 2013; Lipids in health and diseases: 2013.

Ad hoc Peer Reviewer: Experimental and Clinical Endocrinology& Diabetes (Georg Thieme Verlag, Germany); Platelets; Journal of Cellular and Molecular Medicine; Rejuvenation Res. (Mary Ann Liebert Inc. Publishers, New Rochelle, USA); Eur.J, Pharmacol.; Romanian Journal of Biophysics.

Assistant Editor-in-Chief: Proceedings of the Romanian Academy, Series B.

## Member in the Editorial Board:

2005-present Archives of Physiology and Biochemistry (Informa Healthcare, U.K.); 2014-International Journal of Diabetology & Vascular Disease Research 1995-present Romanian J. of Biochemistry; 2009-present Annals of the Romanian Soc. for Cell Biology.

**Referee for Grants funding**: Expert Evaluator/Raporteur at the European Commission (5<sup>th</sup>& 6<sup>th</sup> Framework programs), Brussels (2002, 2003); Romanian Academy; Ministry of Education and Research (Romania) (1995-2006); Expert CNATDCU, 2004, 2011-present; Expert Evaluator of the Romanian Council for Scientific and University Research (2001-present);

A selection of the most cited publications Annexes 1. Receptor for advanced glycation end products (AGEs) has a central role in vessel wall interactions and gene activation in response to circulating AGE proteins A M Schmidt, M Hasu, D Popov, J H Zhang, J Chen, S D Yan, J Brett, R Cao, K Kuwabara, and G Costache Proc. Nati. Acad. Sci. USA, Vol. 91, pp. 8807-8811, September 1994, 287 citations, highlighted in Nature Medicine 4, 1025 - 1031 (1998), The Journal of Biological Chemistry, 270, 25752-25761 (1995), Diabetologia (1999) 42: 351-357, Circulation 114: 597-605 (2006), Journal of Cerebral Blood Flow & Metabolism (2010) 30, 243-254, etc. 2. Biosynthesis of lysosomal hydrolases: their synthesis in bound polysomes and the role of co- and post-translational processing in determining their subcellular distribution MG Rosenfeld, G Kreibich, D Popov, K Kato, and DD Sabatini J Cell Biol vol. 93 no. 1,135-143, 1982 199 citations, highlighted by George E. Palade, Membrane biogenesis: An overview, Methods in Enzymology 96, xxix-lv (1983), and in Cell 36 (2): 295–307(1984), Proc. Nati. Acad. Sci. USA 83: 2483-2487(1986), Methods in Enzymology 144:140-171(1987), etc. 3. Identification of albumin-binding proteins in capillary endothelial cells. N Ghinea, A Fixman, D Alexandru, <u>D Popov</u>, M Hasu, L Ghitescu, M Eskenasy, M Simionescu, and N Simionescu J Cell Biology, vol. 107 no. 1 231-239, 1988 90 citations, highlighted in Proc. Natl. Acad. Sci. USA 85: 6773-6777(1988), J Cell Sci 109, 1857-1864, 1996, Cardiovascular Research 69 (2006) 764 - 771, J Biochem (1994) 115 (5): 898-903, etc. 4. Alterations of lung structure in experimental diabetes, and diabetes associated with hyperlipidaemia in hamsters D Popov, M Simionescu 72 citations, highlighted by The American Journal of Medicine 118 (3): 205-211(2005), Diabetologia 50:549-554 (2007), American Journal of Physiology - Lung Cellular and Molecular Physiology 295 (5): L725-L726 (2008), Journal of Applied Physiology 109(6):1913-1919 (2010), etc. Publications in the last 5 years 1.N. Alexandru, D. Popov, E. Dragan, E. Andrei, A. Georgescu, 2011. Platelet activation in hypertension associated with hypercholesterolemia: Effects of irbesartan. Journal of Thrombosis and Haemostasis 9 (1): 173-184 2. A. Georgescu, D. Popov, A. Constantin, M. Nemecz, N. Alexandru, D. Cochior, A.Tudor. 2011 Dysfunction of human subcutaneous fat arterioles in obesity alone or obesity associated with Type 2 diabetes. Clinical Science 120(9/10): 463-472 3. N. Alexandru, A. Georgescu, M. Amuzescu, C. Zamfir, A. Badila, D. Popov. 2011 Platelet reactivity in chronic venous insufficiency, Clin. Lab. 2011;57:527-534 4. D. Popov. 2011. Novel Protein Tyrosine Phosphatase 1B inhibitors: interaction requirements for improved intracellular efficacy in type 2 diabetes mellitus and obesity control, Biochem. Biophys. Res. Commun. 410: 377–381 5. D. Popov. 2012. Endoplasmic reticulum stress and the on site function of resident PTP1B, Biochem. Biophys. Res. Commun. 422: 535-538 6. N. Alexandru, D. Popov, A. Georgescu. 2012. Platelet dysfunction in vascular pathologies and how can it be treated. Thrombosis Research, 129: 116-126 7. A. Georgescu, N. Alexandru, E. Andrei, I. Titorencu, E. Dragan, C. Tarziu, S. Ghiorghe, E. Badila, , D. Bartos, D. Popov. 2012. Circulating microparticles and endothelial progenitor cells in atherosclerosis: pharmacological effects of irbesartan. Journal of Thrombosis and Haemostasis, 10: 680-691 8. D. Popov, 2013. An outlook on vascular hydrogen sulphide effects, signaling, and therapeutic potential, Arch Physiol Biochem. 119(5):189-94. 9. M. Dumitrescu, G. Costache, A. Constantin, D. Popov.2013. Zofenopil functions as antioxidant, correcting the renal oxidative damages in a rat model of L-NAME induced hypertension, Annals of the Romanian Society for Cell Biology, XVIII (I):11-21. 10. D. Popov, 2013. Is lung a target of diabetic injury? the novel pros and cons evidences, Proc. Rom. Academy, Ser. B, 15(2):99-104. 11. D. Popov, 2014 Protein S-glutathionylation: from current basics to targeted modifications, Arch Physiol Biochem, 120(4):123-30. 12. D. Popov, 2015 Organelles stress and their crosstalk within diabetic myocardium, Athens J. of Health 2(2): 117-131.

For more information on Europass go to http://europass.cedefop.europa.eu © European Communities, 2003 20060628 **13.** <u>D. Popov</u>,2015 Platelet mitochondrial function and dysfunction: physiological consequences, FISIOLOG(A. Boletín informativo de la SECF, 18(1) 15-17(www.secf.es).

Partner in 5/12 international/Romanian research projects Project director of 13 Romanian research projects

Bucharest, 8th July, 2015