



ACADEMIA ROMÂNĂ
SCOSAAR

ANEXA 2

FIȘA DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR MINIMALE

prevăzute de CNATDCU pentru Comisia de Biologie și Biochimie, Anexa nr. 19, pg.
35, din Monitorul Oficial al României, Anul 180 (XXIV) –
Nr. 890 bis, partea I, din 27 decembrie 2012

Candidat: Anca Violeta Gafencu

Condiții preliminare obligatorii pentru obținere a atestatului de abilitare

Standard prevăzut de CNATDCU	Standard realizat	Îndeplinirea standardului
Minim minimum două granturi naționale în calitate de director (sau responsabil de proiect în cazul parteneriatelor) sau unul național (în calitate de director) și unul internațional (în calitate de responsabil național).	Director proiect/ responsabil pentru 12 granturi, din care 6 după acordarea titlului de Doctor	DA - Îndeplinit

Director proiect/responsabil pentru 12 proiecte/granturi de cercetare, dintre care 6 după acordarea titlului de Doctor:

1. Integrative Personal Omics Profiles in Glioblastoma Recurrence and Therapy Resistance – ERA-NET PerMed – Responsabil pentru Echipa Romana (2019-2021).
2. Apolipoproteine generate prin inginerie genetica imobilizate pe nanoparticule: un cal troian molecular pentru tintirea plăcii aterosclerotice (APGEN) PN-II-RU-TE-2014-4-2143, proiect finantat in Programul “Tinere echipe de cercetare” 2015-2017. Director de proiect
3. Noi proceduri terapeutice celulare anti-aterosclerotice bazate pe apolipoproteina E, 2011-2014, Proiect PN-II-ID-PCE-2011-3-0591 in Programul Idei, finantat de UEFISCDI. Director de proiect
4. Noi strategii de inginerie genetica a apolipoproteinelor pentru cresterea concentratiei plasmatice de HDL, lipoproteina protectoare in ateroscleroza, 2008-2011, Proiect in Programul Idei, cod proiect 1307 finantat de CNCSIS. Director de proiect
5. Reglarea clusterilor genici ai apolipoproteinelor - o noua metoda terapeutica pentru bolile cerebrale si cardiovasculare, 2005-2007, grant al Ministerului Educatiei si Cercetarii in programul ”Proiecte de Excelenta pentru Tineri Cercetatori”. Director de proiect
6. Reglarea expresiei genice a Apolipoproteinei E umane in macrofage si in creier: noi startegii de abordare pentru tratamentul dislipidemiilor si al maladii Alzheimer proiect bilateral Romania Grecia, Responsabil pentru Echipa Romana A. Gafencu si Coordonatorul echipei din Grecia: Dimitris Kardassis: 2005-2007.

Standarde minimale prevăzute de CNATDCU pentru Comisia de Biologie și Biochimie

	Lucrarea	ISSN	AIS	c (nr. citări)	punctaj
Nr Crt	Articole în reviste cotate ISI, ca autor principal (prim autor, autor corespondent, ultim autor)				[4+ 7*AIS+ c
1	Trusca, V.G., Dumitrescu, M., Fenyo, I.M., Tudorache, I.F., Simionescu, M., Gafencu, A.V. The mechanism of bisphenol a atherogenicity involves apolipoprotein A-I downregulation through NF-κB activation (2019) International Journal of Molecular Sciences, 20 (24), art. no. 6281	1422-0067	0.932	0	10,524
2	Fuior, E.V., Gafencu, A.V. Apolipoprotein c1: Its pleiotropic effects in lipid metabolism and beyond (2019) International Journal of Molecular Sciences, 20 (23), art. no. 5939	1422-0067	0.932	0	10.524
3	Trusca, V.G., Fuior, E.V., Kardassis, D., Simionescu, M., Gafencu, A.V. The opposite effect of c-Jun transcription factor on apolipoprotein E gene regulation in hepatocytes and macrophages (2019) International Journal of Molecular Sciences, 20 (6), art. no. 1471	1422-0067	0.932	0	10.524
4	Tudorache, I.F., Trusca, V.G., Gafencu, A.V. , Apolipoprotein E - A Multifunctional Protein with Implications in Various Pathologies as a Result of Its Structural Features (2017) Computational and Structural Biotechnology Journal, 15, pp. 359-365	2001-0370	2.508	31	52.556
5	Trusca, V.G., Fuior, E.V., Fenyo, I.M., Kardassis, D., Simionescu, M., Gafencu, A.V. Differential action of glucocorticoids on apolipoprotein E gene expression in macrophages and hepatocytes (2017) PLoS ONE, 12 (3), art. no. e0174078	1932-6203	1	6	17
6	Dumitrescu, M., Gafencu, A.V. , Fuior, E.V., New insights on apolipoprotein E involvement in brain lipid homeostasis- Romanian Biotechnological Letters 2016, vol 21(3), p 11443-11450	1224-5984	0.065	0	4.455
7	Dumitrescu, M., Fuior, E.V., Tudor, M., Gafencu, A.V. , Cell –Transplant with apolipoprotein E3 Overexpressing RAW 264.7 Monocytes / Macrophages Induces a Decrease of the Atherosclerotic Plaque in a Mouse Model, Romanian Biotechnological Letters 2016, vol 21 (2),p 11418-11426	1224-5984	0.065	0	4.455
8	Fenyo, I.M., Eftimie, A.M., Fuior, E.V., Gafencu, A.V. , A system for in vivo endothelial-specific and conditional expression of apolipoprotein E3, Romanian Biotechnological Letters 2016, vol 21 (5), p 11803-11815.	1224-5984	0.065	0	4.455
9	Stavri, S., Simionescu, M., Kardassis, D., Gafencu, A.V. , Krüppel-like factor 4 synergizes with CREB to increase the activity of apolipoprotein E gene promoter in macrophages, Biochem Biophys Res Commun. 2015 ;468(1-2):66-72.	0006-291X	0.674	3	11.718

10	Stavri, S., Trusca, V.G., Simionescu, M., Gafencu, A.V. , Metformin reduces the endotoxin-induced down-regulation of apolipoprotein E gene expression in macrophages, <i>Biochem Biophys Res Commun.</i> 2015;461(2):435-40.	0006-291X	0.674	3	11.718
11	Trusca, V.G., Fuior, E.V., Gafencu, A.V. , Beyond Lipoprotein Receptors: Learning from Receptor Knockouts Mouse Models about New Targets for Reduction of the Atherosclerotic Plaque, <i>Current Molecular Medicine</i> vol 15, No 10, p 905-931, 2015	1566-5240	1.021	2	13.147
12	Roman, C., Fuior, E.V., Trusca, V.G., Kardassis, D., Simionescu, M., Gafencu, A.V. , Thyroid hormones upregulate apolipoprotein E gene expression in astrocytes <i>Biochem Biophys Res Commun.</i> 2015. 468(1-2):190-5	0006-291X	0.674	9	17.718
13	Fenyo, I.M., Gafencu, A.V. , The involvement of the monocytes/macrophages in chronic inflammation associated with atherosclerosis. <i>Immunobiology.</i> 2013 ;218(11):1376-84.	0171-2985	0	82	86
14	Trusca, V.G., Florea, I.C., Kardassis, D., Gafencu, A.V. , STAT1 interacts with RXR α to upregulate ApoCII gene expression in macrophages. <i>PLoS One.</i> 2012;7(7):e40463.	1932-6203	1.548	4	18.836
15	Trusca, V.G., Fuior, E.V., Florea, I.C., Kardassis, D., Simionescu, M., Gafencu, A.V. , Macrophage - specific Up-regulation of Apolipoprotein E Gene Expression by STAT1 Is Achieved via Long Range Genomic Interactions. <i>Journal of Biological Chemistry</i> 2011 286(16):13891-904.	0021-9258	2.188	8	27.316
16	Gafencu, A.V. , Robciuc, M.R., Fuior, E., Zannis, V.I., Kardassis, D., Simionescu, M. Inflammatory signaling pathways regulating ApoE gene expression in macrophages, <i>Journal of Biological Chemistry</i> 2007;282(30): 21776-85.	0021-9525	2.4	41	61.8
17	Gafencu, A. , Heltianu, C., Burlacu, A., Hunziker, W., Simionescu, M Investigation of IgG receptors expressed on the surface of human placental endothelial cells, <i>Placenta</i> 24, p. 664-676, 2003.	0143-4004	0.7	21	29.9
18	Gafencu, A. , Stanescu, M., Toderici, A.M., Heltianu, C., Simionescu, M., Protein and fatty acid composition of caveolae from apical plasmalemma of aortic endothelial cells, <i>Cell and Tissue Research</i> 293, p.101-110, 1998.	0302-766X	0.7	10	18.9
Total			17.08	220	411.546

	Articole în reviste cotate ISI, ca și contributor		AIS	citari	0.7*[4+7*AIS+c]
1	Fundueanu, G., Constantin, M., Bucatariu, S., Nicolescu, A., Ascenzi, P., Moise, L.G., Tudor, L., Trusca, V.G., Gafencu, A.V. , Ficai, D., Ficai, A., Andronescu, E. Simple and dual cross-linked chitosan millicapsules as a particulate support for cell culture (2020) <i>International Journal of Biological Macromolecules</i> , 143, pp. 200-212	0141-8130	0.667	1	6.7683

2	Bulgar A.C., A Fuior E.V., Gafencu A.V. , Brehar A.C., Brehar F.M., Paun D.L., Dumitrache C., Association of TCF7L2 rs7903146 and rs290487 polymorphisms and type 2 diabetes in Romanian subpopulation, 2017 Romanian Biotechnological Letters Vol. 22, No. 3, 2017	1224-5984	0.065	2	4.5185
3	Brehar, F.M., Gafencu, A.V. , Trusca, V.G., Fuior, E.V., Arsene, D., Amaireh, M., Giovani, A., Gorgan, M.R. Preferential association of lissencephaly-1 gene expression with CD133+ glioblastoma cells (2017) Journal of Cancer, 8 (7), pp. 1284-1291	1837-9664	0.719	3	8.4231
4	Manea, A., Manea, S.A., Gafencu, A.V. , Raicu, M., Simionescu, M., AP-1-dependent transcriptional regulation of NADPH oxidase in human aortic smooth muscle cells: Role of p22phox subunit(2008) Arteriosclerosis, Thrombosis, and Vascular Biology, 28 (5), pp. 878-885	1079-5642	2.9	66	63.21
5	Manca, A., Manea, S.A., Gafencu, A.V. , Raicu, M., Regulation of NADPH oxidase subunit p22phox by NF-kB in human aortic smooth muscle cells (2007) Archives of Physiology and Biochemistry, 113 (4-5), pp. 163-172	1381-3455	0	67	49.7
6	Titorencu, I., Jinga, V.V., Constantinescu, E., Gafencu, A.V. , Ciohodaru, C., Manolescu, I., Zaharia, C., Simionescu, M., Proliferation, differentiation and characterization of osteoblasts from human BM mesenchymal cells (2007) Cytotherapy, 9 (7), pp. 682-696	1465-3249	0.5	48	38.85
7	Simionescu, M., Gafencu, A. , Antohe, F., Transcytosis of plasma macromolecules in endothelial cells: A cell biological survey (2002) Microscopy Research and Technique, 57 (5), pp. 269-288	1059-910X	0.9	148	110.81
8	Heltianu, C., Costache, G., Gafencu, A. , Diaconu, M., Bodeanu, M., Cristea, C., Azibi, K., Poenaru, L., Simionescu, M., Relationship of eNOS gene variants to diseases that have in common an endothelial cell dysfunction (2005) Journal of Cellular and Molecular Medicine, 9 (1), pp. 135-142	1582-4934	0	36	28
9	Burlacu, A., Jinga, V., Gafencu, A. , Simionescu, M., Severity of oxidative stress generates different mechanisms of endothelial cell death (2001) Cell and Tissue Research, 306 (3), pp. 409-416	0302-766X	0.9	54	45.01
10	Antohe, F., Rădulescu, L., Gafencu, A. , Ghe, V., Simionescu, M., Expression of functionally active FcRn and the differentiated bidirectional transport of IgG in human placental endothelial cells, (2001) Human Immunology, 62 (2), pp. 93-105.	0198-8859	0.7	126	94.43
11	Jinga, V.V., Gafencu, A. , Antohe, F., Constantinescu, E., Heltianu, C., Raicu, M., Manolescu, I., Hunziker, W., Simionescu, M., Establishment of a pure vascular endothelial cell line from human placenta, (2000) Placenta, 21 (4), pp. 325-336.	0143-4004	0.7	36	31.43
12	Heltianu, C., Serban, G., Alexandru, V., Gafencu, A. , Simionescu, N., Simionescu, M., Expression of transferrin receptors in endothelial cells transfected by electroporation (1997) European Journal of Cell Biology, 72 (1), pp. 79-89	0171-9335	0.4	5	8.26
	Total		8.45	592.00	489.41
	Articole publicate în reviste indexate BDI, ca autor principal			citari	1+c
1	V. Fuior, V.G. Trusca, C.Roman, A.V Gafencu , Enzymatic targets in atherosclerosis, J Mol Genet Med 2015, 9:176. doi:10.4172/1747-0862.1000176. (Indexare: Google Scholar)			3	4

2	V.G. Trusca, A. D. Mihai, E.V. Fuior, M.I. Fenyo, A.V. Gafencu , High levels of homocysteine downregulate apolipoprotein E expression via NF-kB, World Journal of Biological Chemistry 2016, vol 7 (1), p178-187 (Indexare: PubMed, Google Scholar) DOI: 10.4331/wjbc.v7.i1.178	5	6
3	E.V. Fuior, V.G. I.M. Fenyo, A.V Gafencu , The expression of translin is regulated by inflammatory stimuli in monocytes and macrophages, Annals of the Romanian Society for Cell Biology., Vol. XIX, Issue 2, 2015, pp. 33 - 40 (Indexare: Scopus, Google Scholar, EBSCO)	0	1
4	A Gafencu , C. Heltianu, A. Burlacu, W. Hunziker, M. Simionescu Immortalization of endothelial cells, Proceedings of the Romanian Academy Series B, 2, p.117-121, 2001.(Indexare: Google Scholar)	0	1
5	I.C. Florea, V. G. Trusca, I.M. Fenyo, A.V. Gafencu , Expression of apoE3-HRP chimeric molecule in HEK293 cells, Annals of the Romanian Society for Cell Biology. vol. XIV nr. 2/2009, p21-27 (Indexare: Scopus, Google Scholar)	0	1
total		8	13

	Capitole în cărți/volume, la edituri internaționale		(50+c)/n ; n= nr. autori
1	D Kardassis, A Gafencu , VI Zannis, A Davalos. Regulation of HDL genes: transcriptional, posttranscriptional, and posttranslational. Handb Exp Pharmacol. Editura Springer. 2015; 224:113-79.	10	15.00
total		10	15.00
	Capitole în cărți/volume, la alte edituri internaționale		(20+c)/n ; n=nr. autori
1	Brehar, F.M., Gafencu, A. , Gorgan, M.R. Organotypic brain slice model in glioblastoma research 2015 Experimental Models in Glioblastoma Research, ISBN: 978-163482535-1;978-163321924-3, Publisher: Nova Science Publishers, Inc. pp. 73-83		6.67
2	I.M. Fenyo and A.V. Gafencu , Molecular targets for atherosclerosis treatment From Vascular Cell Biology to Cardiovascular Medicine, 2011:RESEARCH SIGNPOST TRANSWORLD RESEARCH NETWORK, Trivandrum - 695023, ISBN: 978-81-7895-503-2;p 203-223		10.00
total			16.67

Parametrul	Standarde minimale CNATDCU	Punctaj obținut
Punctaj cumulativ 1-2 - Recunoaștere internațională	150	900.96
Punctaj cumulativ indici 1-15 – Performanță totală	250	945.62

Data 02.06.2020

Dr. Gafencu Violeta Anca