

List of publications

Papers indexed in Scopus:

1. Fuior, E.V., **Gafencu, A.V.** Apolipoprotein C1: Its Pleiotropic Effects in Lipid Metabolism and Beyond (2019) . *Int J Mol Sci.* 2019;20(23):5939
2. Fundueanu, G., Constantin, M., Bucatariu, S., Nicolescu A., Ascenzi P., Moise LG, Tudor L, Trusca V.G., **Gafencu A.V.**, Fikai D., Fikai, A., Andronescu, E. Simple and dual cross-linked chitosan millicapsules as a particulate support for cell culture (2020) *Int J Biol Macromol.* 143:200–212
3. Trusca, V.G., Dumitrescu, M., Fenyó, I.M., Tudorache IF, Simionescu, M., **Gafencu, A.V.** The mechanism of bisphenol a atherogenicity involves apolipoprotein A-I downregulation through NF- κ B activation (2019) *Int J Mol Sci.* 20(24):6281
4. 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), *Int J Mol Sci.* 20(6): 1471
5. Trusca, V.G., Fuior, E.V., Fenyó, 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
6. 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.
7. 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.
8. Dumitrescu, M., **Gafencu, A.V.**, Fuior, E.V. New insights on apolipoprotein E involvement in brain lipid homeostasis(2016) *Romanian Biotechnological Letters*, 21 (3), pp. 11443-11450.
9. Fenyó, I.M., Eftimie, A.M., Fuior, E.V., **Gafencu, A.V.** A system for in vivo endothelial-specific and conditional expression of apolipoprotein E3 (2016) *Romanian Biotechnological Letters*, 21 (5), pp. 11803-11815.
10. Dumitrescu, M., Fuior, E.V., Tudor, M., **Gafencu, A.V.** Apolipoprotein E3 - expressing RAW 264.7 cell transplant reduces atheroma in a mouse model (2016) *Romanian Biotechnological Letters*, 21 (2), pp. 11418-11426.
11. 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 (2015) *Biochemical and Biophysical Research Communications*, 468 (1-2), pp. 66-72.
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 (2015) *Biochemical and Biophysical Research Communications*, 468 (1-2), pp. 190-195.
13. 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 (2015) *Current Molecular Medicine*, 15 (10), pp. 905-931.
14. Stavri, S., Trusca, V.G., Simionescu, M., **Gafencu, A.V.** Metformin reduces the endotoxin-induced down-regulation of apolipoprotein e gene expression in macrophages (2015) *Biochemical and Biophysical Research Communications*, 461 (2), pp. 435-440.

15. Brehar, F.M., **Gafencu, A.**, Gorgan, M.R. Organotypic brain slice model in glioblastoma research (2015) *Experimental Models in Glioblastoma Research*, pp. 73-83.
16. Fuior, E.V., Fenyó, I.M., **Gafencu, A.V.** The expression of translin is regulated by inflammatory stimuli in monocytes and macrophages(2015) *Annals of the Romanian Society for Cell Biology*, 19 (2), pp. 33-40.
17. Fenyó, I.M., **Gafencu, A.V.** The involvement of the monocytes/macrophages in chronic inflammation associated with atherosclerosis (2013) *Immunobiology*, 218 (11), pp. 1376-1384.
18. Trusca, V.G., Florea, I.C., Kardassis, D., **Gafencu, A.V.** Stat1 interacts with RXR α to upregulate ApoCII gene expression in macrophages (2012) *PLoS ONE*, 7 (7), art. no. e40463.
19. 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(2011) *Journal of Biological Chemistry*, 286 (16), pp. 13891-13904.
20. Florea, I.C., Trusca, V.G., Fenyó, I.M., **Gafencu, A.V.** Expression of APOE3-HRP chimeric molecule in HEK293 cells (2009) *Annals of the Romanian Society for Cell Biology*, 14 (2), pp. 21-27.
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25. 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.
26. **Gafencu, A.**, Heltianu, C., Burlacu, A., Hunziker, W., Simionescu, M. Investigation of IgG receptors expressed on the surface of human placental endothelial cells (2003) *Placenta*, 24 (6), pp. 664-676.
27. 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.
28. 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.
29. Antohe, F., Rădulescu, L., **Gafencu, A.**, Ghetie 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.

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1. C. Neagoe, **A. Gafencu**, C. Heltianu "Transfection of type I receptor for immunoglobulin G in bovine aortic endothelial cells, *Current Protocols in Cell Biology*, 1998, 3: 378-383
2. **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.
3. **A. Gafencu**, O. Postea, C. Heltianu, M. Simionescu, "Hyperlipemic serum stimulates the binding and the endocytosis of IgG by the endothelial aortic cells" *Current Problems and Techniques in Cellular and Molecular Biology* 2001 p79-83.
4. **A. Gafencu**, M Dutca, C. Heltianu, "Albumin binding sites in human placental endothelial cells" *Analele SNBC* p. 64-68, 2003.
5. A. Manea, **A. Gafencu**, M. Raicu, M. Simionescu, „Mecanisme moleculare implicate in reglarea complexului NAD(P)H oxidaza in celulele musculare netede". *Rolul factorului nuclear kB. Analele SNBC vol X, Cap II*, p. 53-56, 2005.
6. I.C. Florea, V. G. Trusca, I.M. Fenyo, **A.V. Gafencu** "Expression of apoE3-HRP chimeric molecule in HEK293 cells", vol. XIV nr. 2/2009, p21-27 *Annals of the Romanian Society for Cell Biology*.
7. 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 R.S.C.B.*, Vol. XIX, Issue 2, 2015, pp. 33 - 40
8. E.V. Fuior, V.G. Trusca, C.Roman, **A.V Gafencu** *Enzymatic targets in atherosclerosis - *J Mol Genet Med* 9:176.
9. 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;7(1):178-87. doi: 10.4331/wjbc.v7.i1.178.

Book chapters:

1. Kardassis, D., **Gafencu, A.**, Zannis, V.I., Davalos, A. Regulation of HDL genes: Transcriptional, posttranscriptional, and posttranslational (2015) *Handbook of Experimental Pharmacology*, 224, pp. 113-179. Springer.
2. I.M. Fenyo and A.V. Gafencu: Molecular targets for atherosclerosis treatment *From Vascular Cell Biology to Cardiovascular Medicine*, 2011: ISBN: 978-81-7895-503-2
3. Brehar, F.M., Gafencu, A., Gorgan, M.R. Organotypic brain slice model in glioblastoma research 2015 *Experimental Models in Glioblastoma Research*, ISBN: 978-163321924-3, Publisher: Nova Science Publishers, Inc. pp. 73-83

