

***Ravshan Z. Sabirov, Ph.D., D.Sc.***

LIST OF PUBLICATIONS

Refereed papers in English:

1. Okada Y., Okada T., Sato-Numata K., Islam Md.R., Ando-Akatsuka Y., Numata T., Kubo M., Shimizu T., Kurbannazarova R.S., Marunaka Y. and Sabirov R.Z. Cell Volume-Activated and -Correlated Anion Channels in Mammalian Cells: Their Biophysical, Molecular and Pharmacological Properties. *Pharmacol. Rev.* 2019, 71: 49-88.
2. Okada Y., Okada T., Islam Md.R. and Sabirov R.Z. Molecular Identities and ATP Release Activities of Two Types of Volume-Regulatory Anion Channels, VSOR and Maxi-Cl. *Curr. Top. Membr.*, 2018, 81: 125-176.
3. Sabirov R.Z., Merzlyak P.G., Okada T., Islam Md.R., Uramoto H., Mori T., Makino Y., Matsuura H., Xie Y. and Okada Y. An organic anion transporter SLCO2A1 constitutes the core component of the Maxi-Cl channel. *EMBO J.* 2017, 36 (12): 3309-3324
4. Okada T., Islam M.R., Tsiferova N.A., Okada Y. and Sabirov R.Z. Specific and essential but not sufficient roles of LRRC8A in the activity of volume-sensitive outwardly rectifying anion channel (VSOR). *Channels* 2017; 11(2): 109-120.
5. Sato-Numata K., Numata T., Inoue R., Sabirov R.Z. and Okada Y. Distinct contributions of LRRC8A and its paralogs to the VSOR anion channel from those of the ASOR anion channel. *Channels* 2017, 11(2): 167-172.
6. Sabirov R.Z., Merzlyak P.G., Islam M.R., Okada T. and Okada Y. The properties, functions and pathophysiology of maxi-anion channels. *Pflugers Arch.* 2016, 468 (3): 405-420.
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9. Sabirov R.Z. and Merzlyak P.G. Plasmalemmal VDAC Controversies and Maxi-Anion Channel Puzzle. *Biochim. Biophys. Acta.* 2012, 1818: 1570-1580 (Review).
10. Kurbannazarova R.S., Bessonova S.V., Okada Y., Sabirov R.Z. Swelling-Activated Anion Channels Are Essential for Volume Regulation of Mouse Thymocytes. *Int. J. Mol. Sci.* 2011; 12(12): 9125-9137.
11. Krasilnikov O.V., Sabirov R.Z., and Okada. ATP hydrolysis-dependent asymmetry of the conformation of CFTR channel pore. *J. Physiol. Sci.* 2011, 61: 267-278.
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13. Toychiev A.H., Sabirov R.Z., Takahashi N., Ando-Akatsuka Y., Liu H.-T., Shintani T., Noda M. & Okada Y. Activation of the maxi-anion channel by protein tyrosine dephosphorylation. *Am. J. Physiol. Cell Physiol.* 2009, 297, C990-C1000
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16. Liu, H. T., Toychiev, A. H., Takahashi, N., Sabirov, R. Z., & Okada, Y. (2008). Maxi-anion channel as a candidate pathway for osmosensitive ATP release from mouse astrocytes in primary culture. *Cell Res.* 18: 558-565.
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Papers in Russian and Uzbek (where indicated):

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3. Yuldashev Kh.A., Fayziev D.D., Ziyavitdinov J.F., Dalimov D.N., Babaev B.N., and Sabirov R.Z. Study of the effects of glyzyrrhizinic acid on the artificial bilayer membranes. *Uzbekistan Biological Journal* 2017, №2, 7-11.
4. Melanova N.R., Kurbannazarova R.S., Merzlyak P.G., Tashmukhamedov B.A. and Sabirov R.Z. Effect of intracellular cAMP on the the release of glutathione from thymocytes under hypoosmotic stress. *Reports of Karshi University* 2016, №3, 23-26. (In Uzbek).
5. Chorjeva N.M., Khamidova O.J., Kurbannazarova R.S., Merzlyak P.G., Gafurov M.B., Khakberdiyev S., Tashmukhamedov B.A. and Sabirov R.Z. Gossypol potentiates the colloid-osmotic lysis of human erythrocytes. *Proceedings of Uzbekistan Academy of Sciences*, 2015, No 5, 99-102.
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8. Fayziev D.D., Rustamova S.I., Merzlyak P.G., Kurbannazarova R.S., Khushbaktova Z.A., Tashmukhamedov B.A. and Sabirov R.Z. Study of the effects of some biologically active compounds on the artificial lipid bilayer membranes. *Acta NUU* 2015 , №3/1, 94-97. (In Uzbek)
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20. Tsiferova N.A., Kurganov E.S., Merzlyak P.G., Levitskaya Yu.V., Tashmukhamedov B.A. and Sabirov R.Z. Comparative analysis of biophysical properties of the volume-activated membrane conductance in KML and HeLa cells. *Proceedings of Uzbekistan Academy of Sciences* 2012, No 5, 51-54.
21. Khamidova O.J., Kurbannazarova R.S., Merzlyak P.G., Tashmukhamedov B.A. and Sabirov R.Z. The role of anionic transport in the mechanism of colloid-osmotic hemolysis induced by nystatin and  $\beta$ -escin. *Uzbekistan Biological Journal* 2012, No1, 3-7.
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