

CURRICULUM VITAE
of Asrarov Muzaffar Islamovich
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Place of Work: Institute of Biophysics and Biochemistry at the National University of Uzbekistan named after Mirzo Ulugbek

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Place of birth: Tashkent region, Uzbekistan

Date of Birth: April 4, 1954

Marital status: Married with 4 children

Nationality: Uzbekistan

Degrees: M.S. 1976

Tashkent University, Department of Biology,

Highest Degree Doctor of Science, 1999, Institute of Physiology & Biophysics Uzb. Academy of Science Tashkent, Uzbekistan, Date of Degree 1999 (Ph.D. in Biology, 1988)

2018- at present - Deputy Director for Science of the Institute

2000-2018 Chief of Laboratory of Molecular biophysics,
Institute of Physiology and Biophysics
Tashkent, Uzbekistan

1997-2000 Senior Research Worker, Institute of Physiology
and Biophysics, Tashkent, Uzbekistan

1992-1997 Scientific secretary, Institute of Physiology
and Biophysics, Tashkent, Uzbekistan

1985-1992 Senior Research Worker, Institute of
Physiology, Tashkent, Uzbekistan

1980-1985 Junior Research Worker, Institute of
Biochemistry of Academy Sciences of Uzbekistan

1976-1980 Junior Research Worker, Institute of
Bioorganic chemistry, Tashkent, Uzbekistan

THE PUBLICATIONS OF ASRAROV M.I.

Its 300 in all.

1. Pozilov, M.K., Gayibov, U.G., Asrarov, M.I., ...Ruziboev, H.S., Aripov, T.F. Physiological Alterations Of Mitochondria Under Diabetes Condition And Its Correction By Polyphenol Gossitan / Journal of Microbiology, Biotechnology and Food Sciences, 2022, 12(2), e2224.

2. Ahmedova, S., Asrarov, M. Evaluation Of The Hepatoprotective And Antioxidant Properties Of An Aqueous Extract Of Plant Polyphenols (Helichrysum Maracandicum) / IOP Conference Series: Earth and Environmental Science this link is disabled, 2021, 939(1), 012080

3. Muratova, D.Kh., Ergashev, N.A., Sobirov, J.J., Kurbanov, U.Kh., Asrarov, M.I. Effects of diterpene alkaloids on lipid peroxidation in mitochondria / Nova Biotechnologica et Chimica this link is disabled, 2021, 20(2), e850

4. Muratova, D.Kh., Ergashev, N.A., Shkinev, A.V., Asrarov, M.I., Kurbanov, U.Kh. Effect of songorine on the activity of atp-dependent k⁺ channels and the state of megapore in rat liver mitochondria / Eksperimental'naya i Klinicheskaya Farmakologiyathis link is disabled, 2021, 84(4), 12–15.

5. Gayibov, U.G., Komilov, E.J., Rakhimov, R.N., ...Asrorov, M.I., Aripov, T.F. Influence of new polyphenol compound from Euphorbia plant on mitochondrial function / Journal of Microbiology, Biotechnology and Food Sciences, 2019, 8(4), страницы 1021–1025

6. Ishimov, U.J., Abdullayeva, G.T., Ziyavitdinov, J.F., ...Ergashev, N.A., Asrarov, M.I. The effects of isolated fractions of red pepper *Capsicum annum* L. On the mitochondrial permeability transition pore and lipid

peroxidation / Journal of Microbiology, Biotechnology and Food Sciences, 2016, 5(3), страницы 259–262

7. Gutnikova, A.R., Saidkhanov, B.A., Kosnikova, I.V., ...Islamov, A.Kh., Asrarov, M.I. Rehabilitation methods for exposure to heavy metals under environmental conditions / NATO Science for Peace and Security Series A: Chemistry and Biology this link is disabled, 2011, страницы 223–233

8. P Mirkhamidova, MI Asrarov et.al. Rat Liver Mitochondrial Damage under Pesticide Galoxyfop-R-Methyl-Induced Intoxication: Protection by Soforoflavonoside and Narcissin Flavonoids / International journal of Biological Engineering and Agriculture 2 (3), 14-19.

9. Abdullayeva G.T., Asrarov MI., Toshtemirova M.J. Antihypoxic Activity Of Getasane Polyphenols In Experimental Hemic Hypoxia / BioGecko, ISSN NO: 2230-5807 12 (Issue 03), 2945-2949

10. MK Pozilov, U Gayibov, MI Asrarov, NG Abdulladjanova, HS Ruziboev, Physiological Alterations Of Mitochondria Under Diabetes Condition And Its Correction By Polyphenol Gossitan / Journal of microbiology, biotechnology and food sciences 12 (2), e2224-e2224.

11. Asrarov M.I, Hagelgans A.I., Tashmukhamedov B.A. On $2H^+ / Ca^{2+}$ - metabolism in mitochondria// Biophysics (Russian),1987, V. XXXII, N 3, 454-457.

12. Gainutdionov M.Kh...., Asrarov M.I. et al. / Regulation by thyroid hormones of interactions with mitochondria of low molecular weight cytoplasmic mediators capable to induce the phosphate-dependent transport of K^+ and H^+ across the inner mitochondrial membrane. // Biochemistry (Russian) . 1990. V. 55. N 12. P.2239 -2246 .

13. Konov V.V, Asrarov M.I et al. Regulation of K^+ ions transport and nonspecific transport via inner mitochondrial membrane by thyroid hormones and Ca ions on the level of cyclosporine-sensitive pore.// Bi-ol. membrany (Russian). 1992. V. 9. N 2. P. 602-610.

14. Asrarov M.I., Kalikulov D. et al. The induction of Ca^{2+} efflux from mitochondria and transmitter secretion from nervous endplates.// Biologicheskie nauki (Russian),1992, N 11-12, P.102-106.

15. Gainutdinov M.Kh., Asrarov M.I et al. Uncoupling of oxidative phosphorylation at hyperthyroidism is a result of cyclosporin pore activation by water-soluble modulators from rat liver cytoplasm.// Biochemistry (Russian). 1993. V. 58. N.5. P.693-700.

16. Kalikulov D., Asrarov M.I. et al. Heptanoil-salsalodin is

new induktor of Ca^{2+} transport through biomembran./ Chemistry of Natural Compounds, 1999, extra issue,P.183-184.

17. Asrarov M.I., Abramov A.Y. et al. Ionophoretic properties of the derivative of salsolin.// Chemistry of Natural Compounds, 1999, extra issue,P.188-189.

18. Asrarov M.I., Mengliev A.S. et al. Undecylpiperidine is effective native protonophore and uncoupler of oxidative phosphorylation. // Chemistry of Natural Compounds, 2000, extra issue,P.115-117.

19. Usmanov P.B., Ibodullaev O.N., Kalikulov D., Asrarov M.I. The induction of secretion of transmitters from neurotermination by glycyrrhetic acid // Reports of Kazak. State University. Ser.Biol., 2000, N 3, 6.114.

20.Ibodullaev O.N., Asrarov M.I., Kalikulov D., Hagelgans A.I., Usmanov P.B. The effect of the glycyrrhetic acid on secretion of transmitters from neurotermination// Sechenov Physiol.journ. of Russian.-2002.-88-N.3.-P.329-331.

RESEARCH INTERESTS

My research scope belongs to the field of membrane biophysics, mechanisms of ion transport through biological membranes, energetic metabolism and regulation of these processes in mammalian cells. I am interested in the mechanisms of transmembrane signalling (i. e. events from surface receptor binding to biological activity) and ion - redistribution which are connected with the actions of some substances and the its control and regulation of energetic metabolism, the mitochondrial permeability transition pore, apoptoze.