

CURRICULUM VITAE

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Date of birth:

January 10, 1948

Place of birth:

Ufa, USSR

Nationality:

Russia

Marital status:

Married, two daughters

EDUCATION:

Moscow State University	B.S., M.S.	1971	Human and Animal Physiology
Institute of High Nervous Activity and Neurophysiology	Ph.D.	1979	Neuroscience

Thesis Advisor: Prof. M.N.Livanov

PROFFESIONAL HISTORY:

10/71-10/74	Postgraduate Research, Institute of Biophysics, Center of Biological Research in Pushchino, Moscow Region, USSR
11/74-11/85	Research Scientist, Institute of Biophysics, Center of Biological Research in Pushchino, Moscow Region, USSR
12/85-5/89	Senior Scientist, Institute of Cell Biophysics, Center of Biological Research in Pushchino, Moscow Region, USSR
5/89 - present	Head of laboratory "Cell Mechanisms of Memory Pathology", Institute of Cell Biophysics, Center of Biological Research in Pushchino, Moscow Region, Russia

PROFFESIONAL SOCIETIES:

Russian Physiological Society

Alzheimer's Association USA

Natalia V. Bobkova is high skilled investigator in the field of memory pathology of different etiology. She studied the effects and mechanisms of biologically active substances with neuroprotective characteristics on memory. She is an author of the valid model of sporadic Alzheimer's disease (AD) in animals, which allows to study the early preamyloid stage of this most wide-spread form of AD. She studies the mechanisms of AD pathogenesis and preventive methods of AD treatment. Natalia V. Bobkova has revealed new electrophysiological markers for earlier AD diagnosis and protective activities of some antioxidants, peptide neurogrowth factors, and hot shock proteins. She has developed the experimental method of slowing down of neuronal degeneration by using cell therapy. She is an author of the theoretical conception of olfactory pathology in AD genesis and on the therapeutic efficiency of the compensatory mechanism activation. Now she is developing the new method of AD immunotherapy on the bases of α 7-subunit of acetylcholine receptor fragments. Natalia Bobkova is an author more than 120 publications in domestic and foreign magazines. Her most important published works are presented in the list further.

LIST OF IMPORTANT PUBLICATIONS

- Bobkova NV. Effect of coagulation of the reticular formationin the region of the nuclei NRP and NRT on spatial synchronization of the cerebral cortical biopotentials in rabits.J. High Nervous Activity 1979, 29:831-839. Russian
- Bobkova NV.Spectral characteristics of activity of neocortex and dorsal hippocamp following coagulation of the septum. J. High Nervous Activity 1980, 30:382-391. Russian
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- H.Ya.Islamova, G.G.Gasanov, T.P.Semenova,N.V.Bobkova, I.V.Nesterova, E.A.Gromova. Effect of local injection of 5,7-DHT and 6-OHDA in rat neocortex on behaviour in open field. Neurosciece & Behaviour Physiology, 1990. v.20,N 6, P.450-493. English
- N.V.Bobkova, L.A.Plakhinas, L.A.Basharova, L.A.Vetrile, N.A.Otmakhova. Behavioural and biochemical effects following immunization by protein conjugated dopamine in rats. Studies in Neuroscience@Signal Molecules and Behaviour@, ed Winlow, Manchester and New York, 1991. P.205-213. English
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- E.V.Gurevich, I.Y.Alexandrova, N.A.Otmakhova, Y.A.Katkov, I.V.Nesterova, N.V.Bobkova. Effect of bulbectomy and subsequent antidepressant treatment on brain 5-HT/2 and 5-HT/1A receptors in mice. Pharmacol Biohem. Behav. 1993. v.45, P.65-70. English
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- N.Bobkova, N.Otmakhova, E.Gurevich, I.Nesterova, Y.Katkov Bulbectomy-inducwd loss of raphe neurons is counterected by antidepressant treatment Abstracts Society for Neuroscience 24th Annual Meeting Miami Beach, Florida, November 1994, 164.9, P.384. English
- N.V.Bobkova, I.V.Nesterova, E.V.Gurevich, I.Y.Aleksandrova , N.A.Otmakhova The antidepressant effect on degenerative process in the supraoptical and paraventricular hypothalamic nuclei induced by bilateral olfactory bulb ablation in C57Bl/6J mice In 25th Annual Meeting Society for Neuroscience San Diego November 11-16, 1995, v.21 , 564.19, P.1440. English
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- Bobkova N.V., Nesterova I.V., Katkov Yu.A., Aleksandrova I.Yu. Drug for increase of survive in case virus infection - ectromielia in experimental conditions 1995, Patent N 2043115, Russia
- I.V.Nesterova, E.V.Gurevich, V.I.Nesterov, N.A.Otmakhova, and N.V.Bobkova Bulbectomy-induced loss of raphe neurons is counteracted by antidepressant treatment. Prog.Neuro-Psychopharmacol. a Biol.Psychiat., 1997, v.21, P.127-140. English
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