



Anna B Nikiforova, PhD student

PERSONAL INFORMATION

Name Anna B Nikiforova
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CURRENT APPOINTMENT

Junior Research Scientist, PhD student Institute of Theoretical and Experimental Biophysics, Russian Academy of Sciences (RAS), Laboratory of tissue engineering Pushchino, Moscow reg., Russian Federation, 142290., 2008-pr.

EDUCATION

MSc in Biology Puchshino State University, Puchshino, Russian Federation
2008-2010
BLc in Biology Nizhnii Novgorod State University name after Lobachevskiy, Nizhnii Novgorod, Russian Federation 2004-2008

INSTITUTIONAL COMMITTEES/ADMINISTRATIVE RESPONSIBILITIES

2009-pr Member of Junior Research Committee, Institute of Theoretical and Experimental Biophysics, RAS, Pushchino, Russian Federation

TRAINEESHIP

2009 one month Department of Applied Chemistry and Microbiology, Wiik Biocenter 1, University of Helsinki, Helsinki, Finland.

RESEARCH INTERESTS

- methods for the study of biological objects
- biophysical methods
- Mitochondria in cell death
- Mechanism(s) of mitochondria-dependent activation different xenobiotics
- Regulation of penetrability outer membrane of mitochondrion

CURRENT GRANTS

«The mechanism of drug resistance myeloid leukemia cells during their transformation into proliferating macrophage-like cells», 2014-2015, ITEB RAS, Puchshino, Russia fund fundamental research . Performer.

«External NAD(P)H oxidoreductases of mitochondria NOX4, AIF and Cyb5R3 in the regulation of mitochondrial functions and cell death at pathologic states.», 2014-2015, ITEB RAS, Puchshino, Russia fund fundamental research . Performer.

«Role of protein kinase C in the regulation of NO level and Ca²⁺-homeostasis in cardiomyocytes of normotensive and spontaneously hypertensive rats», 2014-2015, ITEB RAS, Puchshino, Russia fund fundamental research . Performer.

PRIOR GRANTS

«The role of NADH-dependent oxidoreductases of outer membrane of mitochondria in ischemia injured cells and tissues», 2008-2010, ITEB RAS, Puchshino, Russia fund fundamental research . Performer.

«Study of mechanisms of heart valve transplant and vessel degeneration», 2009-2010, ITEB RAS, Puchshino, Development of scientific potential for higher education. Performer.

«Study of the role of mitochondria in the mechanism of hepatotoxic action of alcohol: prevention and decrease of alcoholic intoxication of liver by regulation of outer membrane permeability», 2009-2010, ITEB RAS, Puchshino; Performer.

«A novel fundamental approach to normalization of pathologic state of the actin cytoskeleton in cell models of certain socially significant diseases», 2009-2011, ITEB RAS, Puchshino, Government grant № 02.740.11.0301. Performer.

PUBLISHED MANUSCRIPTS

1. Kruglov AG, Nikiforova AB, Shatalin YV, Shubina VV, Fisyuk AS, Akatov VS. Sulfur-containing compounds quench 3,7-dihydro-2-methyl-6-(4-methoxyphenyl)imidazol[1,2-a]pyrazine-3-one chemiluminescence: Discrimination between true antioxidants and quenchers using xanthine oxidase.. Analytical Biochemistry. 2010 Nov 15;406(2):230-2.
2. Nikiforova AB, Fadeev RS, Kruglov AG. Rapid fluorescent visualization of multiple NAD(P)H oxidoreductases in homogenate, permeabilized cells, and tissue slices. Anal Biochem. 2013 Sep 15;440(2):189-96.

3. Anna B. Nikifirova, Saris N.-E.L, Alexey G. Kruglov. External mitochondrial NADH-dependent reductase of redox cyclers: VDAC1 or Cyb5R3? Free Radical Biology and Medicine, 2014.

ABSTRACTS

1. Nikiforova A.B., Saris N.-E.L., Kruglov A.G. «The nature of the external mitochondrial NADH-dependent reductase of xenobiotics», 3rd World Congress on Targeting Mitochondria, Berlin, Germany, 8-9 November 2012.
2. Alexey G. Kruglov, Anna B. Nikiforova, Roman S. Fadeev. Fluorescent visualization of NAD(P)H oxidoreductase activity in the outer mitochondrial membrane and in cytosol on acute tissue slices. Biochimica et Biophysica Acta (BBA) - Bioenergetics, Volume 1797, Supplement 1, July 2010, Page 127
3. Alexey G. Kruglov, Anna B. Nikiforova Method of assessment activity of NAD(P)H oxidoreductase outer membrane of mitochondrion in intact and permeable cells. Collection research junior research Scientists ITEB RAS, Puchshino 2009
4. A G. Kruglov, M E, Soloviova, A B. Nikiforova, A A, Kudryavcev, V P, Lavrovskaya, V V, Teplova Method of assessment activity of NAD(P)H oxidoreductase outer membrane of mitochondrion in intact and permeable cells which method of flow cytofluorimetry Pushchino Conference on Reception and intracellular signalling, Collection manuscripts, 2009