

Contact Info:

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EDUCATION/TRAINING

INSTITUTION AND LOCATION DEGREE YEAR FIELD OF STUDY

Kiev State University, Kiev, Ukraine, MS, 1989 Mol.Biology & Genetics
University of South Alabama, PhD, 2003 Biomedical Sciences
University of South Alabama, Post Doc 2003 -2008, Cell Biology & Neuroscience

Positions and Honors

1988 – 1990 Graduate Research Assistant, Institute of Molecular Biology & Genetics, National Academy of Sciences, Ukraine
1994 – 1995 Research Associate, Louisiana State University Agricultural Center
1997 – 2003 Graduate Student, University of South Alabama
2003 – 2008 Postdoctoral fellow, University of South Alabama
2008 – present Instructor in Cell Biology & Neuroscience, University of South Alabama
2000 Travel Award, Mechanisms of Toxicity, Gordon Research Conferences
2000-2002 Department of Defense Breast Cancer Research Concept Award, PI
2002 Travel Award, Department of Defense Breast Cancer Research Program Era of Hope Meeting
2004 Best New Investigator Poster Award, Environmental Mutagen Society
2008 Best Overall Course Phase I for Basic Systems of Anatomy. Biomedical Enrichment and Recruitment Program (current DREAM program), Course Director.
2011 Awarded “Top Prof” by the Azalea Chapter of Mortar Board for PT Human Anatomy

Peer-reviewed publications (in chronological order).

1. Obolenskaia MIu, Prima VI, Klochko TA, Pater LV, **Shokolenko IN**, Platonov OM. (1991) [Cycle dependent expression of the gene coding for B2mRNA]. Mol Gen Mikrobiol Virusol. (6):30-2. PMID:1719388
2. **Shokolenko IN**, Alexeyev MF (1995) Transformation of Escherichia coli TG1 and Klebsiella oxytoca VN13 by freezing-thawing procedure. Biotechniques. 18(4):596-8. PMID:7598886
3. Alexeyev MF, **Shokolenko IN**

and MILS syndromes. *Gene Ther.* 15(7):516-23. PMID: 18256697

16. **Shokolenko I**, Venedictova N, Bochkareva A, Wilson GL, Alexeyev MF (2009) Oxidative stress

induces degradation of mitochondrial DNA. *Nucleic Acids Res.* 37(8): 2539-48. PMID: 19264794

17. Koczor CA, Snyder JW, **Shokolenko IN**, Dobson AW, Wilson GL, Ledoux SP. (2009) Targeting

repair proteins to the mitochondria of mammalian cells through stable transfection, transient transfection, viral transduction, and TAT-mediated protein transduction. *Methods Mol Biol.* 554: 233-49. PMID: 19513678

18. Alexeyev MF, Fayzulin R, **Shokolenko IN**, Pastukh V. (2010) A retro-lentiviral system for doxycycline-inducible gene expression and gene knockdown in cells with limited proliferative capacity. *Mol Biol Rep.* 37(4):1987-91. PMID: 19655272

19. Koczor CA, **Shokolenko IN**, Boyd AK, Balk SP, Wilson GL, Ledoux SP. (2009) Mitochondrial

DNA damage initiates a cell cycle arrest by a Chk2-associated mechanism in mammalian cells. *J Biol Chem.* 284(52):36191-201. PMID:19840931

20. **Shokolenko IN**, Alexeyev MF, LeDoux SP, Wilson GL. (2010) The approaches for manipulating mitochondrial proteome. *Environ Mol Mutagen.* 51(5):451-61. PMID:20544885

Research support

5R01RR031286-02 Alexeyev, M (PI) 6/1/2010-2/28/2014

NIH/NCRR

Mouse models for mitochondrial disorders caused by mtDNA mutations

Animal (mouse) models of human disease are instrumental in developing and testing new therapeutic modalities, yet they are not available for mitochondrial diseases caused by mtDNA mutations. In this application we propose to generate transmitochondrial mice with mtDNA mutations to model human disease.

Role: Co-Investigator