CURRICULUM VITAE

VYACHESLAV M. SHKRYL

PERSONAL DATA

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CURRENT APPOINTMENT

Instructor
Department of Molecular Biophysics and Physiology, RUSH U.M.C.

EDUCATION

Bogomoletz Institute of Physiology, Kyiv, Ukraine. PhD, Biophysics Mentor Dr. Platon G. Kostyuk	2002
National Taras Shevchenko University, Kyiv, Ukraine Radiophysics and Electronics, M.S.	1998
National Taras Shevchenko University of Kyiv, Ukraine Applied Physics, B.S.	1997

PROFESSIONAL EXPERIENCE

Instructor Department of Molecular Biophysics and Physiology, RUSH University, Chicago, IL	2008-present
Research Associate Department of Physiology, Loyola University, Chicago, IL	2006-2008
Post Doctoral Fellow Department of Pharmacology and Physiology, UMDNJ, Newark, NJ	2003-2005
Research Associate International Center for Molecular Physiology, Kyiv, Ukraine	2001-2004
Research Associate Department of General Physiology Nervous System, Bogomoletz Institute of Physiology, Kyiv, Ukraine	2001-2002
Engineer Department of General Physiology of Nervous System, Bogomoletz Institute of Physiology, Kyiv, Ukraine	1996-2001

PROFESSIONAL ORGANIZATIONS

Biophysical Society
Ukrainian Physiological Society

HONORS AND AWARDS

M.S. with honor, Taras Shevchenko National University	1998
Honorary stipend of the National Academy of Sciences of Ukraine	2000

PUBLICATIONS

1. Martins, A.S.*, **Shkryl, V.M.***, Nowycky, M.C., Shirokova, N. ROS contribute to Ca^{2+} signals produced by osmotic stress in mouse skeletal muscle fibres. J Physiol 586.1, 197-210 (2008).

*contributed equally

2. Isaeva, E. V., **Shkryl, V. M.** & Shirokova Ca^{2+} sparks – SOS signals of struggling muscle. Physiology News. 62, 27-28 (2006).
3. **Shkryl, V. M.** & Shirokova, N. Transfer and tunneling of Ca^{2+} from sarcoplasmic reticulum to mitochondria in skeletal muscle. J Biol Chem. 281(3), 1547-54 (2006).
4. Isaeva, E. V.*, **Shkryl, V. M.*** & Shirokova, N. Mitochondrial redox state and Ca^{2+} sparks in permeabilized mammalian skeletal muscle. J Physiol 565, 855-872 (2005).

*contributed equally

5. Lukyanetz, E. A., **Shkryl, V. M.**, Kravchuk, O. V. & Kostyuk, P. G. Effect of hypoxia on calcium channels depends on extracellular calcium in CA1 hippocampal neurons. Brain Res 980, 128-34 (2003).
6. Lukyanetz, E. A., **Shkryl, V. M.**, Kravchuk, O. V. & Kostyuk, P. G. Action of hypoxia on different types of calcium channels in hippocampal neurons. Biochim Biophys Acta 1618, 33-8 (2003).
7. Lukyanetz, E. A. & **Shkryl, V. M.** Scientific and technological aspects of oxygen-sensitive electrodes for measurements of oxygen partial pressure in patch-clamp experiments. J Biochem Biophys Methods 55, 37-52 (2003).
8. Lukyanetz, E. A., **Shkryl, V. M.** & Kostyuk, P. G. Selective blockade of N-type calcium channels by levetiracetam. Epilepsia 43, 9-18 (2002).
9. **Shkryl, V. M.**, Kostyuk, P. G. & Lukyanetz, E. A. Dual action of cytosolic calcium on calcium channel activity during hypoxia in hippocampal neurones. Neuroreport 12, 4035-9 (2001).
10. **Shkryl, V. M.**, Nikolaenko, L. M., Kostyuk, P. G. & Lukyanetz, E. A. High-threshold calcium channel activity in rat hippocampal neurones during hypoxia. Brain Res 833, 319-28 (1999).
11. **Shkryl, V. M.** & Lukyanetz, E. A. Properties of oxygen-sensitive electrodes used in patch-clamp experiments on nerve cells. Neurophysiology (Ukraine) 30, 279-283 (1998).