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Vladimir V. Gerzanich, MD, PhD

Academic Title:

Associate Professor

Primary Appointment:

Neurosurgery

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Education and Training

Education

M.D., Uzhgorod State University, Uzhgorod, Ukraine 1976-1981

Internship

Intern Pathologist, Department of Pathology, Mukachiv Regional Hospital, Ukraine 1981-1982

Fellowships

Ph.D., Bogomoletz Institute of Physiology, Kiev, Ukraine 1982-1985

Postdoctoral Fellow, Department of Neuroscience, University of Pennsylvania 1992-1998

Research/Clinical Keywords

Dr. Gerzanich's areas of interest include ion channels and cerebrovascular pathophysiology of nicotine, cocaine and ischemia.

Highlighted Publications

Silinsky, E.M., **Gerzanich, V.** and Vanner, S.M. (1992) ATP mediates excitatory synaptic transmission in mammalian neurones. *Br. J. Pharmacol.* 106:762-763.

Silinsky, E.M. and **Gerzanich, V.** (1993) On the excitatory effects of ATP and its role as a neurotransmitter in coeliac neurones of the guinea pig. *J. Physiol. (London)* 464:197-212.

Anand, R., Bason, L., Saedi, M.S., **Gerzanich, V.**, Peng, X., and Lindstrom, J. (1993) Reporter Epitopes: A novel approach to examine transmembrane topology of integral membrane proteins applied to the $\alpha 1$ subunit of the nicotinic acetylcholine receptor. *Biochemistry*, 32:9975-9984.

Peng, X., Katz, M., **Gerzanich, V.**, Anand, R., and Lindstrom, J. (1994) Human $\alpha 7$ acetylcholine receptor: cloning of the $\alpha 7$ subunit, pharmacological properties of native receptor and $\alpha 7$ homomers expressed in *Xenopus* oocytes and electrophysiological properties of $\alpha 7$ homomers. *Mol. Pharmacol.*45(3), pp.546-554.

Gerzanich, V., Anand, R., and Lindstrom, J. (1994) Homomers of $\alpha 8$ subunits of nicotinic receptors functionally expressed in *Xenopus* oocytes exhibit similar channel but contrasting binding site properties compared to $\alpha 7$ homomers. *Mol. Pharmacol.* 45:212-220.

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