



HAIYAN LIU, PH.D. REGISTERED PATENT AGENT

- B.S. Biology
Beijing Normal University
- M.S. Cell Biology
Beijing Normal University
- Ph.D. Biophysics
Ohio State University

TECHNOLOGY AREAS

- Cell Biology
- Biophysics
- Electrophysiology
- Molecular Biology
- Neuroscience
- Biomedical Engineering

PRIOR PROFESSIONAL EXPERIENCE

- Postdoctoral Research fellow, Department of Biomedical Engineering, University of Michigan, Ann Arbor
- Graduate Research Assistant, Biophysics Graduate Programs, Department of Neuroscience, the Ohio State University
- Graduate Research Assistant, Department of Physiology, University of Texas Health Science Center at San Antonio

AWARDS AND RECOGNITION

- Travel Award, Multi-Drug Efflux Systems - Gordon Research Conferences

LANGUAGE CAPABILITIES

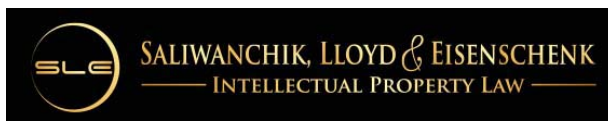
English, Mandarin Chinese

PROFESSIONAL MEMBERSHIPS & ACTIVITIES

- Member, Biophysical Society
- Registered to Practice before the United States Patent and Trademark Office (USPTO)

SELECTED PUBLICATIONS

- Horger KS, Liu H (equal contribution), Rao DK, Shukla S., Sept D., Ambudkar SV, Mayer M. (2015) Hydrogel-assisted functional reconstitution of human P-glycoprotein (ABCB1) in giant liposomes. *BBA – Biomembranes*, 1848, 643-653.
- Rao DK, Liu H (equal contribution), Ambudkar SV, Mayer M. (2014) A combination of curcumin with either gramicidin or ouabain selectively kills cells that express the multidrug resistance-linked ABCG2 transporter. *J Biol Chem*, 289, 31397-31410.
- Fan Z, Liu H, Mayer M, Deng CX. (2012) Targeted ultrasound excitation of microbubbles for spatiotemporally controlled intracellular delivery and calcium signaling. *Proc. Natl. Acad. Sci. U. S. A.*, 109, 16486-16491.
- Liu H, Enyeart JA, Enyeart JJ. (2010) ACTH induces Cav3.2 mRNA and Ca²⁺ Current by cAMP-dependent and – independent Mechanisms. *J Biol Chem*. 285(26):20040-50.
- Liu H, Enyeart JA, Enyeart JJ. (2009) N6-substituted cAMP analogues inhibit bTREK-1 K⁺ channels and stimulate cortisol secretion by a PKA independent mechanism. *Mol Pharmacol*. 76(6):1290-301
- Liu H, Enyeart JA, Enyeart JJ. (2008) ACTH inhibits bTREK-1 K⁺ channels through multiple cAMP dependent signaling pathways. *J Gen. Physiol*. 132(2):279-94.
- Liu H, Enyeart JA, Enyeart JJ. (2007) Potent inhibition of native TREK-1 K⁺ channels by selected dihydropyridine Ca²⁺ channel antagonists. *J Pharmacol Exp Ther*. 323(1): 39-48.
- Liu H, Enyeart JA, Enyeart JJ. (2007) Angiotensin II inhibits native bTREK-1 K⁺ channels through a PLC, kinase C, and PIP2- independent pathway requiring ATP hydrolysis. *Am J Physiol Cell Physiol*. 293(2): C682-95.
- Liu H, Danthi SJ, Enyeart JJ. (2006) Curcumin potently blocks Kv1.4 potassium channels. *Biochem Biophys Res Commun*. 344(4):1161-517.



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