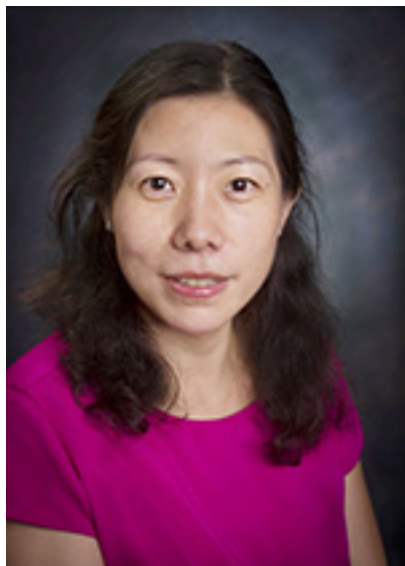


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Dr. Li has been investigating mechanisms that modulate glucose homeostasis since she was a Ph.D student in 2000. She has used electrophysiological, and cellular and molecular approaches to investigate how genetic and environmental factors regulate glucose homeostasis and insulin sensitivity. In the past few years, she used several animal models including trauma and hemorrhage, and learned-helplessness mouse models to understand how acute physiological and psychosocial stresses impair glucose homeostasis and induce insulin resistance. In the past 18 months, Dr. Li has been working on the impacts of early life stress on the development of obesity. Dr. Li has made a number of important original contributions in understanding the mechanisms in these two field and has more than 20 peer-reviewed publications reflecting her research achievements. She is now expanding these studies into human studies. The objective of this study is to determine the impacts of psychological stress including early life stress (with and without depression) and acute stress on obesity and diabetes risk by examining the roles of immune system and the HPA axis. The preliminary data are very promising, and this proposal will lay a critical foundation for a NIH grant application.

Selected Peer-reviewed Publications

1. **Li, L**, Li, X., Zhou, W and Messina, JL. (2013) Tissue specific effects of psychological stress on the development of acute insulin resistance. *Journal of Endocrinology*, 217:175-184
2. Corrick, R., **Li, L.**, Franklin, JL and Messina, JL. (2013) Hepatic growth hormone resistance following acute injury. *Endocrinology*, 154:1577-1588
3. Xi, H., Liu, J., **Li, L** and Wan, J (2013) Relationship of the E23K and I337V polymorphisms in the Kir6.2 subunit of the KATP channel with patients with dilated cardiomyopathy. *Genetics and Molecular Research*, 12:4383-4392
4. **Li, L** and Messina, JL. (2009) Acute insulin resistance following injury (invited review). *Trends in Endocrinology and Metabolism*, 20:429-435

5. **Li, L.**, Thompson, LH., Zhao, L and Messina, JL. (2009) Differential molecular mechanisms for hepatic and skeletal muscle acute insulin resistance following hemorrhage and trauma. *Endocrinology*, 150:24-32
6. Falany, CN., He, D., **Li, L.**, Falany, JL., Wilbon, TW., Kocarek, T and Runge-Morris, M. (2009) Regulation of hepatic sulfotransferase (SULT) 1E1 expression and effects on estrogenic activity in cystic fibrosis. *Journal of Steroid Biochemistry and Molecular Biology*, 114:113-119
7. **Li, L** and Falany, CN. (2009) Role of sulfation in the dysregulation of growth hormone signaling in cystic fibrosis mice. *Steroid*, 74:20-29
8. He, D., Wilborn, TA., **Li, L** and Falany CN. (2008) Repression of CFTR activity in human MMNK-1 cholangiocytes induces sulfatransferase 1E1 expression in co-cultured HepG2 hepatocytes. *Biochimica et Biophysica Acta*, 1783:1391-1397
9. **Li, L** and Falany, CN. (2007) Elevation of Hepatic SULT1E1 expression in mouse models of cystic fibrosis alters the regulation of estrogen responsive proteins. *Journal of Cystic Fibrosis*, 6:23-30
10. **Li, L.**, Cui, N., Wang, X., Shi, Y., Shi, W and Jiang, C. (2006) Dysregulation of Kir6.2 channel with R371H and P266T mutations associated with sudden cardiac death following acute myocardial infarction. *Physiological Genomics*, 25:105-115
11. **Li, L.**, Shi, Y., Wang, X., Shi, W and Jiang, C. (2005) Single-nucleotide polymorphism in KATP channels: muscular impact on type 2 diabetes. *Diabetes*, 54: 1592-1597
12. **Li, L.**, Rojas, A., Wu, J and Jiang, C. (2004) Disruption of glucose sensing and insulin secretion by ribozyme Kir6.2-gene targeting in insulin-secreting cells. *Endocrinology*, 145:4408-4414
13. **Li, L.**, Wu, J and Jiang, C. (2003) Differential expression of Kir6.1 and SUR2B mRNA in vasculatures of various tissues in rats. *Journal of Membrane Biology*, 196:1-9
14. Wang, X., Wu, J., **Li, L**, Chen, F., Wang, R and Jiang, C. (2003) Hypercapnic acidosis activates KATP channels in vascular smooth muscles. *Circulation Research*, 92: 1225-1232
15. Cui, N., Wu, J., Xu, H., Wang, X., Rojas, A., Piao, H., Mao, J., Abdulkadir, L., **Li, L** and Jiang, C. (2003) Athreonine residue (Thr71) plays a critical role

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