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EDUCATION

Ph.D., Nutrition

Texas A&M University, College Station, TX

May 2013

M.S., Biochemistry and Molecular Biology

University of Science and Technology of China, Hefei, China

June 2007

B.E., Bioengineering

Jiangxi Normal University, Nanchang, China

June 2004

EXPERIENCE

Associate Professor, Shandong University, School of Public Health, September 2017-present

Postdoctoral Research Associate, Baylor College of Medicine, Children's Nutrition Research Center, March 2016-August 2017

Postdoctoral Research Associate, TAMU, Department of Nutrition and Food Science, August 2013 –March 2016

Dietetic internship, TAMU, Department of Nutrition and Food Science, August 2012- May 2013

Rotations: Veteran Affairs Hospital (wound care, outpatient, food services), Scott & White Hospital (diagnostic medicine, endocrinology and pediatric), St Joseph Hospital (oncology, cardiology, CCU, and nutrition support), Liberty Dialysis, College Station Independent School District, Franklin Independent School District, AgriLife Extension, TAMU Athletics, and Brazos Valley Women, Infants and Children (WIC).

Graduate Research Assistant, TAMU, Department of Nutrition and Food Science, September 2007-August 2012

Graduate Teaching Instructor and Assistant, TAMU, Department of Nutrition and Food Science, Spring 2009-Spring 2012

Class: NUTR 304 Food Service System & Management

NUTR 210 Horizons in Nutrition and Food Science

NUTR 405 Nutritional Treatment of Disease

NUTR 470 Nutrition and Physiology Chemistry

NUTR 404 Nutrition Assessment and Plan

Graduate Research Assistant, USTC, Department of Life Science, September 2004 – July 2007

CERTIFICATE

Registered Dietitian Nutritionist

July 2013

MEMBERSHIP

Academy of Nutrition and Dietetics (AND)

since 2011

Chinese Nutrition Society

since 2017

FUNDING

1. Shandong University Educational Reform Project, ¥40000, 2019/5-2021/5.
2. National Natural Science Foundation Youth Project, 81803224, ¥210000, 2019/1-2021/12.
3. Future Scholar Program of Shandong University, 2018WLJH33, ¥500000, 2018/7-2023/6.
4. Shandong University Basic Research Project, 2017TB0028, ¥150000, 2017/9-2019/12.

PEER-REVIEWED ARTICLES

1. Luo, X., Li, H., Ma, L., Zhou, J., **Guo, X.**, Woo, S.L., Pei, Y., Knight, L., Deveau, M., Chen, Y., Qian, X., Xiao, X., Li, Q., Chen, X., Huo, Y., McDaniel, K., Francis, H., Glaser, S., Meng, F., Alpini, G., Wu, C. Expression of STING Is Increased in Liver Tissues From Patients With NAFLD and Promotes Macrophage-Mediated Hepatic Inflammation and Fibrosis in Mice. *GASTROENTEROLOGY*. 2018,155(6): 1971. DOI: 10.1053/j.gastro.2018.09.010.
2. Suo, J.N., Zhao, X.Z., **Guo, X.**,* Zhao, X.L*. Met-enkephalin improves metabolic syndrome in high fat diet challenged mice through promotion of adipose tissue browning. *Toxicology and Applied Pharmacology*, 2018. 359: p. 12-23.
3. **Guo, X.**, Shu, C., Zheng, J., Li, H., Pei, Y., Woo, S., Xu, H., Botchlett, R., Qi, T., Guo, T., Zhao, J., Cai, Y., Hu, X., Zhao, Y., Huo, Y., Li, P., Wu, C. Cyclic GMP-AMP Ameliorates Diet-induced Metabolic Dysregulation and Regulates Proinflammatory Responses Distinctly from STING Activation. *Scientific Report*. 2017, 7(1): 6355.
4. Mo, Q., Salley, J., Roshan, T., Baer, L., May, F., Jaehning, E., Lehing, A., **Guo, X.**, Tong, Q., Nuotio-Antar, A., Shamsi, F., Tseng, Y., Stanford, K., Chen, M. Identification and characterization of a supraclavicular brown adipose tissue in mice. *Journal of Clinical Investigation Insight*. 2017, 2(11): e93166.
5. Botchlett, R., Woo, S., Liu, M., Pei, Y., **Guo, X.**, Li, H., Wu, C. Nutritional approaches for managing obesity-associated metabolic diseases. *Journal of Endocrinology*. 2017, 233 (3) : R145-R171.
6. Botchlett, R., Li, H., **Guo, X.**, Qi, T., Zhao, J., Zheng, J., Woo, S., Pei, Y., Liu, M., Hu, X., Chen, G., Guo, T., Li, Q., Xiao, X., Huo, Y., and Wu, C. Glucose and Palmitate Differentially Regulate PFKFB3/iPFK2 and Inflammatory Responses in Mouse Intestinal Epithelial Cells. *Scientific Report*. 2016, 6 :28963.
7. Guo, T., Woo, S., **Guo, X.**, Li, H., Zheng, J., Botchlett, R., Liu, M., Pei, Y., Xu, H., Cai, Y., Li, X., Li, Q., Xiao, X., Huo, Y., and Wu, C. Berberine Ameliorates Hepatic Steatosis and Suppresses Liver and Adipose Tissue Inflammation in Mice with Diet-induced Obesity. *Scientific Report*, 2016, 6:22612.
8. Xu, H., Li, H., Woo, S., Kim, S., Shende, V. R., Neuendorff, N., **Guo, X.**, Guo, T., Qi, T., Pei, Y., Zhao, Y., Hu, X., Zhao, J., Chen, L., Chen, L., Ji, J., Alaniz, R.C., Earnest, D.J., Wu, C. Myeloid cell-specific disruption of Period 1 and Period 2 exacerbates diet-induced inflammation and insulin resistance. *J Biol Chem*, 2014; 289 (23): 16374-16388.
9. Xu, Y., An, X., **Guo, X.**, Habetsion, T., Wang, Y., Xu, X., Kandala, S., Li, Q., Li, H., Zhang, C., Caldwell, R., Fulton, D., Su, Y., Hoda, M. N., Zhou, G., Wu, C., Huo, Y. Endothelial PFKFB3 plays a critical role in angiogenesis. *ATVB*, 2014; 34 (6): 1231-1239.
10. Woo, S., Xu, H., Li, H., Zhao, Y., Hu, X., Zhao, J., **Guo, X.**, Guo, T., Botchlett, R., Qi, T., Huo, Y., Wu, C. Metformin ameliorates hepatic steatosis and inflammation without altering adipose phenotype in Diet-Induced Obesity. *PLoS ONE*, 2014; 9 (3), e91111.
11. Chen, Y., Mu, P., He, S., Tang, X., **Guo, X.**, Li, H., Xu, H., Woo, S., Qian, X., Zeng, L., Wu C. Gly482Ser mutation impairs the effects of peroxisome proliferator-activated receptor γ coactivator-1 α on decreasing fat deposition and stimulating phosphoenolpyruvate carboxykinase expression in hepatocytes. *Nutrition Research*. 2013; 33 (4): 332-339.
12. Li, H., **Guo, X.** (co-first author, equal contribution), Xu, H., Woo, S., Halim V., Morgan C., Wu, C. A role for inducible 6-phosphofructo-2-kinase in the control of neuronal glycolysis *J Nutr Biochem*. 2013; 24 (6): 1153-1158.
13. **Guo, X.**, Li, H., Xu, H., Halim, V., Thomas, L.N., Woo, S., Huo, Y., Chen, Y. U., Sturino, J.M., and Wu, C. Disruption of inducible 6-phosphofructo-2-kinase impairs the suppressive effect of PPAR γ activation on diet-induced intestine

inflammatory response. *J Nutr Biochem*, 2013; 24 (5): 770-775.

14. **Guo, X.**, Li, H., Xu, H., Woo, S., Dong, H., Lu, F., Lange, A.J., Wu, C. Glycolysis in the control of blood glucose homeostasis (Invited Review). *Acta Pharmaceutica Sincia*, 2012; 2:358-367.
15. **Guo X.**, Li H., Xu H., Halim V., Zhang W., Wang H., Ong K.T., Woo S.L., Walzem R.L., Mashek D.G., Dong H., Lu F., Wei L., Huo Y, and Wu C. Palmitoleate Induces Hepatic Steatosis but Suppresses Liver Inflammatory Response in Mice. *PLoS ONE*, 2012; 7:e39286. PMCID: PMC3387145.
16. Huo, Y., **Guo, X.** (co-first author, equal contribution), Li, H., Xu, H., Halim, V., Zhang, W., Wang, H., Fan, Y., Ong, K.T., Woo, S., Chapkin, R.S, Mashek,D.G., Chen, Y., Dong, H., Lu, F., Wei, L., Wu. C. Targeted overexpression of inducible 6-Phosphofructo-2-kinase in adipose tissue increases fat deposition but protects against diet-induced insulin resistance and inflammatory response. *J Biol Chem*, 2012; 287(25): 21492-21500.
17. Zhuang, G., Meng, C. (co-first author, equal contribution), **Guo, X.**, Xu, H., Wang, G., Li, H., and Wu, C., Zhou, B. A Novel Regulator of Macrophage Activation miR-223 in Obesity-Associated Adipose Tissue Inflammation. *Circulation*, 2012; 125(23): 2892–2903.
18. **Guo, X.**, Huo, Y., Xu, K., Li, H., Zhang, W., Wang, H., Zhang, J., Lange, A.J., Chen, Y.E., and Wu, C. Involvement of inducible 6-phosphofructo-2-kinase in the anti-diabetic effect of rosiglitazone in mice. *J Biol Chem*, 2010; 285: 23711-23720.
19. Huo, Y., **Guo, X.**, Li, H., Wang, H., Zhang, W., Wang, Y., Zhou, H., Gao, Z., Telang, S., Chesney, J., Chen, Y.E., Ye, J., Chapkin, R.S., and Wu, C. Disruption of inducible 6-phosphofructo-2-kinase ameliorates diet-induced adiposity but exacerbates systemic insulin resistance and adipose tissue inflammatory response. *J Biol Chem*, 2010; 285: 3713-3721.
20. Chen, Y.P., Shen, Y.Y., **Guo, X.** (co-first author, equal contribution), Zhang, C.S., Yang, W.J., Ma, M.L., Liu, S., Zhang, M.B., and Wen, L.P. Transdermal protein delivery by a coadministered peptide identified via phage display. *Nature Biotechnology*, 2006; 455-460.