ZHENYUAN SONG, Ph.D.

Associate Professor

Curriculum Vitae

CONTACT INFORMATION

Working Address:

University of Illinois at Chicago
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College of Applied Health Sciences
Chicago, IL 60612

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EDUCATION BACKGROUND

PHD	2000 University of Arkansas Fayetteville, Arkansas USA
MS	1994 Shenyang Agricultural University Shenyang, Liaoning P. R. China.
BS	1991 Shenyang Agricultural University Shenyang, Liaoning P. R. China.

PROFESSIONAL EXPERIENCE

2010-present	**Adjunct Professor** Department of Pathology School of Medicine University of Illinois at Chicago Chicago, IL
2014-present	**Associate Professor (Tenured)** Department of Kinesiology and Nutrition School of Applied Health Sciences University of Illinois at Chicago Chicago, IL
2008-2014	**Assistant Professor** Department of Kinesiology and Nutrition University of Illinois at Chicago Chicago, IL
2005-2008	**Assistant Professor** Division of Gastroenterology and Hepatology Department of Internal Medicine School of Medicine University of Louisville Louisville, KY
2002-2005	**Research Associate** Division of Gastroenterology and Hepatology Department of Internal Medicine School of Medicine University of Louisville Louisville, KY
2001-2002	**Postdoctoral Fellow** Division of Gastroenterology and Hepatology Department of Internal Medicine School of Medicine University of Louisville Louisville, KY
2000-2001	**Postdoctoral Fellow** Division of Hepatology Graduate Program of Human Nutrition School of Medicine University of Kentucky Lexington, KY

1994-1997 **Research Scientist**
Biotechnology Laboratory
Research and Development Institute
Shenyang, Liaoning
P. R. China

RESEARCH

Honors and Awards

2007 Travel Award: NIH-NIAAA- International Symposium on Alcoholic Liver and Pancreatic Diseases and Cirrhosis October: 17-18, Kobe, Japan.

2006 Travel Award: NIH-NIAAA- International Symposium on Alcoholic Liver and Pancreatic Diseases and Cirrhosis May: 18-19, Los Angeles, California

2005 Young Investigator Award: NIH-NIAAA-7th international symposium of cytokines and Chemokines, Montreal, Canada.

2005 NIH Career Developing Award.

Research Supports

Active

CCTS0512-05
UIC CCTS
Use of the fast-food diet mouse to model the pathophysiology of NASH.
Role: Co-PI
2012-2017

VA Merit review grant
BX001090
Role of Membrane Modifications in the Bioactivities of Conjugated Linoleic Acids
Role: Collaborator (PI: Papasani V. Subbaiah)
2013-2017

Finished

NIH-NIDDK
K01 AA015344-01A1
Mechanisms of Sensitization to TNF hepatotoxicity in ALD
Role: PI
2005-2010

NIH-NIAAA
R01 RAA017442A
Homocysteine, Adiponectin, and Alcoholic Liver Disease
Role: PI
2009-2014

Grant-in-Aid
University of Louisville, School of Medicine
Mechanism of TNF Induced Apoptosis in Hepatocytes
Role: PI.
10/10/04-10/10/05

NIH-NIDDK
R01 DK083328A
Acute pancreatitis and obesity
Role: Co-I (PI: Giamila Fantuzzi)
2010-2015

NIH-NIAAA
R01
Tumor necrosis factor-α and alcoholic liver disease
Role: Co-I (PI: Craig J. McClain)
2001-2011

NIH-NIAAA
R01 AA015970-01
S-Adenosylhomocysteine and S-Adenosylmethionine in Alcoholic Liver Disease
Role: Co-I (PI: Craig J. McClain)
2005-2010

Invited Lectures

- *S-adenosylmethionine (SAMe) modulates interleukin-10 and interleukin-6, but not TNF, production via the adenosine (A2) receptor.* Research forum, Digestive Disease Week (DDW), New Orleans, LA, May 14, 2004.

- *Alcohol-induced S-adenosylhomocysteine accumulation in the liver sensitizes to TNF hepatotoxicity: possible involvement of mitochondrial S-adenosylmethionine transport.* Presidential plenary lecture, Digestive Disease Week (DDW), New Orleans, LA, May 15, 2004.

- *S-adenosylhomocysteine sensitizes to TNF-alpha hepatotoxicity in mice and liver cells: a possible etiological factor in alcoholic liver disease.* Research forum, American Association for the Study of Liver Disease Annual Meeting, San Francisco, CA, November 13, 2005.

- *Hyperhomocysteinemia-induced adiponectin suppression contributes to alcoholic fatty liver disease.* Shanghai-Hong Kong International Liver Congress, Hong-Kong, China. June 13-15, 2008.

- *Homocysteine, adiponectin, and alcoholic liver disease.* Research Symposium, Research Society on Alcoholism (RAS), San Diego, CA. June, 2009.

- *Methionine metabolism and alcoholic liver disease.* Research seminar, Liver research group, UIC. April, 2010.

- *Pathogenesis and Therapeutic Options for Alcoholic Fatty Liver Disease*. Departmental Seminar, Department of Kinesiology and Nutrition, University of Illinois at Chicago, April, 2010.

- *Pathogenesis and therapeutic choices in alcoholic liver disease.* Departmental Seminar, Department of Pathology, Medical Center, University of Illinois at Chicago, Chicago, IL, June, 2010.

- *Hepatic ERK1/2 Pathway Inhibition and the Development of Fatty Liver.* Shenyang Agricultural University, Shenyang, PR China. June, 2010.

- *DGAT2 Up-regulation Contributes to Alcohol-induced Fatty Liver.* Harbin Medical University, Harbin, PR China, May, 2011.

- *4-hydroxynonenal Sensitizes Hepatocytes to TNF Hepatotoxicity.* Zhejiang Chinese Medical University, Hangzhou, July, 2012.

- *Lipid peroxidation in the pathogenesis of alcoholic liver disease.* UIC lipid club, University of Illinois at Chicago, Chicago, IL, November, 2012.

Peer-reviewed *original* research publications

1. Li J, Dou X, Li S, Zhang X, Zeng Y, **Song Z.** Nicotinamide ameliorates palmitate-induced ER stress in hepatocytes via cAMP/PKA/CREB pathway-dependent Sirt1 upregulation. **Biochim Biophys Acta.** 1853:2929-36, 2015.

2. Xiaobing Dou, Yongliang Xia, Jing Chen, Ying Qian, Songtao Li, Ximei Zhang, **Zhenyuan Song.** Rectification of impaired adipose tissue methylation status and lipolytic response contributes to hepatoprotective effect of betaine supplementation in a mouse model of alcoholic liver disease. **The British Journal of Pharmacology** 171:4073-86, 2014.

3. Sun S, **Song Z,** Cotler SJ, Cho M. Biomechanics and functionality of hepatocytes in liver cirrhosis. **J Biomech.** 47: 2005-2010, 2014.

4. Zhigang Wang, Xiaobing Dou, Songtao Li, Ximei Zhang, Chen Shen, **Zhenyuan Song.** Nrf2 activation-induced hepatic VLDL receptor overexpression in response to oxidative stress contributes to alcoholic liver disease in mice. **Hepatology.** 59:1381-92, 2014.

5. Songtao Li, Jiaxin Li, Chen Shen, Ximei Zhang, **Zhenyuan Song**. Tert-butylhydroquinone (tBHQ) protects hepatocytes against lipotoxicity via inducing autophagy independently of Nrf2 activation. **BBA-Molecular and cell biology of lipids**. 1841:22-33, 2014

6. Ximei Zhang, Zhigang Wang, Dongfang Gu, Songtao Li, Chen Shen, **Zhenyuan Song**. Increased 4-hydroxynonenal Formation Contributes to Obesity-related Lipolytic Activation in Adipocytes. **PLoS One** 8:e70663. doi: 10.1371/journal.pone.0070663, 2013.

7. Zhong W, Zhao Y, Sun X, **Song Z,** McClain CJ, Zhou Z. Dietary zinc deficiency exaggerates ethanol-induced liver injury in mice: involvement of intrahepatic and extrahepatic factors. **PLoS One.** 2013 Oct 14;8(10):e76522. doi: 10.1371/journal.pone.0076522. eCollection 2013.

8. Dongfang Gu, Zhigang Wang, Xiaobing Dou, Lyndsey Vu, Tong Yao, **Zhenyuan Song**. Inhibition of ERK1/2 Pathway Suppresses Adiponectin Secretion via Accelerating Protein Degradation by Ubiquitin-Proteasome System: Relevance to Obesity-related Adiponectin Decline. **Metabolism: Clinical and Experimental,** 62:1137-48, 2013.

9. Dou X, Shen C, Wang Z, Li S, Zhang X, **Song Z**. Protection of nicotinic acid against oxidative stress-induced cell death in hepatocytes contributes to its beneficial effect on alcohol-induced liver injury in mice. **J Nutr Biochem.** 24: 1520-1528, 2013.

10. Xiaobing Dou, Songtao Li , Zhigang Wang, Dongfang Gu, Chen Shen, Tong Yao, **Zhenyuan Song.** Inhibition of NF-kB activation by 4-hydroxynonenal contributes to liver injury in a mouse model of alcoholic liver disease. **American Journal of pathology.** 181: 1702-1710, 2012.

11. Zhigang Wang, Xiaobing Dou, Dongfang Gu , Chen Shen, Tong Yao, Van Nguyen, Carol Braunschweig, **Zhenyuan Song.** 4-Hydroxynonenal Differentially Regulates Adiponectin Gene Expression and Secretion via Activating PPAR-gamma and Accelerating Ubiquitin-Proteasome Degradation. **Molecular and Cellular Endocrinology.** 349: 222-231, 2012.

12. Zhigang Wang, Xiaobing Dou,Tong Yao, **Zhenyuan Song.** Homocysteine Inhibits Adipogenesis in 3T3-L1 Preadipocytes. **Experimental Biology and Medicine**. 236: 1379-1388, 2011.

13. Dou X, Wang Z, Yao T, **Song Z.** Cysteine aggravates palmitate induced cell death in hepatocytes. **Life Sci.** 89: 879-885, 2011.

14. Wang Z, Pini M, Yao T, Zhou Z, Sun C, Fantuzzi G**, Song Z.** Homocysteine suppresses lipolysis in adipocytes by activating the AMPK pathway. **Am J Physiol Endocrinol Metab.** 301: E703-12, 2011.

15. Watson WH, **Song Z,** Kirpich IA, Deaciuc IV, Chen T, McClain CJ. Ethanol exposure modulates hepatic S-adenosylmethionine and S-adenosylhomocysteine levels in the isolated perfused rat liver through changes in the redox state of the NADH/NAD(+) system. **Biochim Biophys Acta.** 1812:613-8, 2011.

16. Zhao Y, Zhong W, Sun X, **Song Z**, Clemens DL, Kang YJ, McClain CJ, Zhou Z. Zinc deprivation mediates alcohol-induced hepatocyte IL-8 analog expression in rodents via an epigenetic mechanism. **Am J Pathol.** 179:693-702, 2011.

17. Wang Z, Yao T, **Song Z.** Chronic alcohol consumption disrupted cholesterol homeostasis in rats: down-regulation of low-density lipoprotein receptor and enhancement of cholesterol biosynthesis pathway in the liver. **Alcohol Clin Exp Res.** 34:471-8, 2010.

18. Wang Z, Yao T, Pini M, Zhou Z, Fantuzzi G, **Song Z.** Betaine improved adipose tissue function in mice fed a high-fat diet: a mechanism for hepatoprotective effect of betaine in nonalcoholic fatty liver disease. **Am J Physiol Gastrointest Liver Physiol.** 298: G634-42, 2010.

19. Wang Z, Yao T, **Song Z.** Extracellular signal-regulated kinases 1/2 suppression aggravates transforming growth factor-beta1 hepatotoxicity: a potential mechanism for liver injury in methionine-choline deficient-diet-fed mice. **Exp Biol Med (Maywood)**. 35: 1347-55, 2010.

20. Wang Z, Yao T, **Song Z.** Involvement and mechanism of DGAT2 upregulation in the pathogenesis of alcoholic fatty liver disease. **J Lipid Res.** 51: 3158-65, 2010.

21. Kang X, Zhong W, Liu J, **Song Z,** McClain CJ, Kang YJ, Zhou Z. Zinc supplementation reverses alcohol-induced steatosis in mice through reactivating hepatocyte nuclear factor-4alpha and peroxisome proliferator-activated receptor-alpha. **Hepatology** 50:1241-50, 2009.

22. Song M, **Song Z,** Barve S, Zhang J, Chen T, Liu M, Arteel GE, Brewer GJ, McClain CJ. Tetrathiomolybdate protects against bile duct ligation-induced cholestatic liver injury and fibrosis. **J Pharmacol Exp Ther.** 325:409-16, 2008.

23. Xinqin Kang, **Zhenyuan Song,** Craig J. McClain, Y. James Kang, Zhanxiang Zhou. Zinc supplementation enhances hepatic regeneration by preserving hepatocyte nuclear factor-4 in mice subjected to a long-term ethanol administration. **American Journal of Pathology** 172:916-25, 2008.

24. Zhanxiang Zhou, Jie Liu, **Zhenyuan Song,** Craig J. McClain, Y. James Kang. Inhibition by zinc supplementation of hepatic apoptosis in mice subjected to long term ethanol exposure. **Exp Biol Med (Maywood)** 233:540-8, 2008.

25. **Zhenyuan Song*,** Zhanxiang Zhou, Ion Deaciuc, Theresa Chen, and Craig J. McClain. Homocysteine-induced Inhibitory Effects on Adiponectin Production in Alcoholic Liver Disease. **Hepatology** 47:867-79, 2008.

* denotes corresponding author

26. Ion V. Deaciuc, **Zhenyuan Song,** Xuejun Peng and Craig J. McClain. Gemone-wide transcriptome expression in the liver of a mouse model of high carbohydrate diet-induced liver steatosis and its significance for the disease. **Hepatology International** DOI10.1007/s12072-9025-2.

27. Song Z*, Song M, Lee DY, Liu Y, Deaciuc IV, McClain CJ. Silymarin prevents palmitate-induced lipotoxicity in HepG2 cells: involvement of maintenance of Akt kinase activation. **Basic Clin Pharmacol Toxicol**.101:262-268, 2007.

* denotes corresponding author

28. Song Z*, Deaciuc I, Zhou Z, Song M, Chen T, Hill D, McClain CJ.Involvement of AMP-activated Protein Kinase in Beneficial Effects of Betaine on High-Sucrose Diet-Induced Hepatic Steatosis. **Am J Physiol Gastrointest Liver Physiol.** 293: G894 -902, 2007.

* denotes corresponding author

29. Zhenyuan Song*, Zhanxiang Zhou, Ming Song, Silvia Uriarte, Theresa Chen, Ion Deaciuc, Craig J. McClain. Alcohol-induced S-adenosylhomocysteine accumulation in the liver sensitizes to TNF hepatotoxicity: Possible involvement of mitochondrial S-adenosylmethionine transport. **Biochemical Pharmacology** 74:521-531, 2007.

* denotes corresponding author

30. Zhou Z, Kang X, Jiang Y, **Song Z,** Feng W, McClain CJ, Kang YJ. Preservation of hepatocyte nuclear factor-4alpha is associated with zinc protection against TNF-alpha hepatotoxicity in mice. **Exp Biol Med (Maywood).** 232:622-8, 2007.

31. De Villiers WJ, **Song Z,** Nasser MS, Deaciuc IV, McClain CJ. 4-Hydroxynonenal-induced apoptosis in rat hepatic stellate cells: Mechanistic approach. **J Gastroenterol Hepatol.** 22:414-422, 2007.

32. Gobejishvili L, Barve S, Joshi-Barve S, Uriarte S, **Song Z,** McClain CJ. Chronic ethanol mediated decrease in cAMP primes macrophages to enhanced LPS-inducible NF-{kappa}B activity and TNF expression: relevance to alcoholic liver disease. **Am J Physiol Gastrointest Liver Physiol.** 291:G681-688, 2006.

33. Zhenyuan Song*, Ion Deaciuc, Ming Song , David Y-W Lee, Yanze Liu, Xiaosheng Ji, Craig J. McClain. Silymarin Protects Against Acute Ethanol Induced Hepatotoxicity in Mice. **Alcoholism: Clinical and Experimental Research** 30:407-413, 2006.

* denotes corresponding author

34. Wang J, Song Y, Elsherif L, **Song Z,** Sun X, Sarri JT, Prabhu SD, Cai L. Cardiac metallothionein induction plays the major role in the prevention of diabetic cardiomyopathy by Zinc supplementation. **Circulation** 113: 544-554, 2006.

35. Deaciuc IV, **Song Z,** McClain CJ. Lessons from large-scale gene profiling of the liver in alcoholic liver disease. **Hepatol Res**. 31:187-192, 2005.

36. McClain C, Barve S, Joshi-Barve S, **Song Z,** Deaciuc I, Chen T, Hill D. Dysregulated cytokine metabolism, altered hepatic methionine metabolism and proteasome dysfunction in alcoholic liver disease. **Alcohol Clin Exp Res** 29:180S-188S, 2005.

37. Zhou Z, Wang L, **Song Z,** Saari JT, McClain CJ, Kang YJ. Zinc supplementation prevents alcoholic liver injury in mice through attenuation of oxidative stress. **Am J Pathol.** 166:1681-1690, 2005.

38. Zhenyuan Song, Silvia Uriarte, Theresa Chen, Shirish Barve, Daniell Hill, and Craig J. McClain: S-adenosylmethionine (SAMe) Modulates Interleukin-10 and Interleukin-6, But Not TNF, Production Via the Adenosine (A2) Receptor in LPS-stimulated Monocytes. **Biochim Biophys Acta.** 1743:205-213. 2005.

39. Silvia M. Uriarte, Swati Joshi-Barve, **Zhenyuan Song,** H Boddulluri, Venkatakrishna Rao Jala, Craig McClain, and Shirish Barve. Inhibition of Akt kinase induces Caspase-8 activity, FasL expression and enhances FasL Dependent Cell Death in Juktat T Lymphocytes. **Cell Death Differ.** 2005 12:233-242, 2005.

40. Song Z, Zhou Z, Uriarte S, Wang L, Kang YJ, Chen T, Barve S, McClain CJ. S-adenosylhomocysteine sensitizes to TNF-alpha hepatotoxicity in mice and liver cells: a possible etiological factor in alcoholic liver disease. **Hepatology** 2004; 40:989-997.

41. Song, Z., Barve, B., Chen, T., Nelson, W., Uriarte, S., Hill, D., and McClain, C. J.: S-Adenosylmethionine Modulates Endotoxin Stimulated Interleukin-6 Production in Monocytes. **Cytokine** 2004; 28:214-223.

42. Lambert, J. C., Zhou, Z., Wang, L., **Song, Z.,** McClain, C. J., and Kang, Y.J.: Preservation of Intestinal Structural Integrity by Zinc Is Independent of Metallothionein in Alcohol-intoxicated Mice. **Am J Pathol** 2004; 164:1959-1966.

43. Zhou, Z., Wang, L., **Song, Z.,** Saari, J., McClain, C. J., and Kang, Y. J.: Abrogation of nuclear factor-kappaB activation is involved in zinc inhibition of lipopolysaccharide-induced tumor necrosis factor-alpha production and liver injury. **Am J Pathol** 2004; 164:1547-1556.

44. Song, Z., McClain, C. J., and Chen, T.: S-adenosylmethionine (SAMe) Protects against Acetaminophen- Induced Hepatotoxicity in mice. **Pharmacology** 2004; 71:199-208.

45. Song, Y., **Song, Z.,** Zhang, L., McClain, C. J., Kang, Y. J., and Cai L.: Diabetes Enhances LPS-induced Cardiac Toxicity in Mouse model. **Cardiovascular Toxicology** 2003; 363-372.

46. Zhou, Z., Wang, L., **Song, Z.,** McClain, C. J., and Kang, Y. J.: A critical involvement of oxidative stress in acute alcohol-induced hepatic TNF-alpha production. **Am J Pathol** 2003; 163:1137-46.

47. Song, Z., Zhou, Z., Chen, T., Hill, D., Kang, J., Barve, B., and McClain, C. J.: S-adenosylmethionine (SAMe) protects against acute alcohol induced hepatotoxicity in mice. **The Journal of Nutritional Biochemistry** 2003; 14: 51-597.

48. Song, Z., Barve, B., Chen, T., Nelson, W., Uriarte, S., Hill, D., and McClain, C. J.: S-adenosylmethionine Modulates Endotoxin Stimulated Interleukin-10 Production in Monocytes. **Am J Physiol Gastrointest Liver Physiol** 2004; 284: G949-55.

49. Lambert, J. C., Zhou, Z., Wang, L., **Song, Z.,** McClain, C. J., and Kang, Y. J.: Prevention of alterations in intestinal permeability is involved in zinc inhibition of acute ethanol-induced liver damage in mice. **J Pharmacol Exp Ther** 2003; 305:880-886.

50. McClain, C. J., Hill, D. B., **Song, Z.,** Deaciuc, I., and Barve, S.: Monocyte activation in alcoholic liver disease. **Alcohol** 2002; 27: 53-61.

Book chapters and peer-reviewed review articles

Book chapter:

- Zhanxiang Zhou, Zhenyuan Song, Danielle Pigneri, Marion McClain, Charles L. Mendenhall, and Craig J. McClain. Long-term Management of Alcoholic Liver Disease by Taylor & Francis Group, LLC, 2009.

Review articles:

- Zhenyuan Song. Adipose Tissue Dysfunction and Alcoholic Liver Disease. Journal of Liver Research, Disorders & Therapy. http://medcraveonline.com/JLRDT/JLRDT-01-00001.pdf 2015.

- Cave M, Deaciuc I, Mendez C, **Song Z,** Joshi-Barve S, Barve S, McClain C. Nonalcoholic fatty liver disease: predisposing factors and the role of nutrition. J Nutr Biochem. 18:184-195, 2007.

- Barve S, Joshi-Barve S, **Song Z,** Hill D, Hote P, Deaciuc I, McClain C. Interactions of cytokines, S-adenosylmethionine, and S-adenosylhomocysteine in alcohol-induced liver disease and immune suppression. J Gastroenterol Hepatol. 21: 13:S38-42, 2006.

- **Song, Z.,** Barve, SS., Barve, S., and McClain C. J.: Advances in alcoholic liver disease. Curr

Gastroenterol Rep 2004; 6: 71-76.

- McClain CJ, **Song Z,** Barve SS, Hill DB, Deaciuc I. Recent advances in alcoholic liver disease. IV. Dysregulated cytokine metabolism in alcoholic liver disease. Am J Physiol Gastrointest Liver Physiol 2004; 287:G497-502.

- McClain CJ, Mokshagundam SP, Barve SS, **Song Z,** Hill DB, Chen T, Deaciuc I. Mechanisms of non-alcoholic steatohepatitis. Alcohol 34:67-79, 2004.

- McClain, C. J., Hill, D. B., **Song, Z.,** Chawla, R., Watson, W. H., Chen, T., and Barve, S.: S-Adenosylmethionine, cytokines, and alcoholic liver disease. Alcohol 2002; 27: 185-192.

Posters and Presentations

- Nrf2 activation-induced hepatic VLDL receptor overexpression in response to oxidative stress contributes to alcoholic liver disease in mice. *American Association for Study of Liver Diseases (AASLD) Annual Meeting, Washington DC, November, 2013.*

- *Tert*-butylhydroquinone (tBHQ) protects hepatocytes against lipotoxicity via inducing autophagy independently of Nrf2 activation. *To be presented in American Association for Study of Liver Diseases (AASLD) Annual Meeting, Washington DC, November, 2013.*

- Inhibition of NF-κB activation by 4-hydroxynonenal contributes to liver injury in a mouse model of alcoholic liver disease. American Association for Study of Liver Diseases (AASLD) Annual Meeting, Boston, 2012.

- Increased 4-hydroxynonenon Formation Contributes to Obesity-related Lipolytic Activation in Adipocytes. American Association for Study of Liver Diseases (AASLD) Annual Meeting, Boston, 2012.

- Nicotinic Acid Protects Hepatocytes from H_2O_2-induced Cell death through Preventing GSH Depletion and NF-κB Inhibition. American Association for Study of Liver Diseases (AASLD) Annual Meeting, Boston, 2012.

- 4-HNE Suppresses Adiponectin Production via Accelerating Its Proteasome Degradation. Society for Free Radical Biology and Medicine (SFRBM) Annual Meeting. Atlanta, GA. 2011.

- Homocysteine Inhibits Adipogenesis in 3T3-L1 Preadipocytes. Research Society for Alcoholism (RSA) Annual Meeting. Atlanta, GA, 2011.

- Homocysteine Suppresses Lipolysis via Activating the AMPK Pathway. Research Society for Alcoholism (RSA) Annual Meeting. Atlanta, GA, 2011.

- Betaine Improved Adipose Tissue Function in Mice Fed High-Fat Diet: A Mechanism for Hepatoprotective Effect of Betaine in Non-alcoholic Fatty Liver Disease. Experimental

Biology annual meeting Anaheim, CA. 2010.

- ERK1/2 Suppression Links Abnormal Methionine Metabolism and Hepatic Fat Accumulation in Alcoholic Liver Disease via Up-regulating DGAT2. Experimental Biology annual meeting Anaheim, CA. 2010.

- Involvement of AMP-activated Protein Kinase in Beneficial Effects of Betaine on High-Carbohydrate Diet-Induced Hepatic Steatosis. DDW, Washing DC, 2007.

- S-adenosylmethionine (AdoMet) modulates endotoxin stimulated interleukin-10 production in monocytes. AASLD, Boston, MA, 2006.

- Accumulation of Intracellular SAH Sensitizes to TNF Hepatotoxicity: Possible Involvement of Mitochondrial SAMe Transporter. AASLD, San Francisco, CA. 2005

- Silymarin protects against acute ethanol-induced hepatotoxicity in mice. Research Society of Alcoholism annual meeting, Washington DC, 2005.

- S-adenosylmethionine (SAMe) Modulates Interleukin-10 and Interleukin-6, But Not TNF, Production via the Adenosine (A2) Receptor in LPS-stimulated Monocytes. Digestive Disease Week (DDW), New Orleans, LA. 2004.

- S-adenosylhomocysteine Sensitizes to Tumor Necrosis Factor Hepatotoxicity: A Possible Etiologic Factor in Alcoholic Liver Disease. Digestive Disease Week (DDW), New Orleans, LA. 2004.

- Diabetes enhances LPS-stimulated cardiac toxicity in mouse model. Diabetes & Metabolism, Vol. 29 4S323, 2003. 18th International Diabetes Federation Congress. Paris, France. 2003.

- S-adenosylmethionine (SAMe) Protects Against Acetaminophen- Induced Hepatotoxicity in mice. Digestive Disease Week (DDW), Orlando, FL. 2003.

- S-adenosylmethionine Modulates Endotoxin Stimulated Interleukin-10 Production in Monocytes. FASEB Experimental Biology. San Diego, CA. 2003.

- S-adenosylmethionine (SAMe) protects against acute alcohol induced hepatotoxicity in mice. The Society of Toxicology (SOT) Annual Meeting, Salt Lake City. UT. 2002.

- Hepatic and Extra-Hepatic Stimulation of Glutathione Release into Plasma by Norepinephrine in vivo. The Oxygen Society Annual Meeting. New Orleans, LA. 2000.

TEACHING

Courses

HN308 - Nutrition Science I: Macronutrients Metabolism - Credit hours: 3
HN510 - Advanced Macronutrients Metabolism - Credit hours: 3
HN440 - the Research Process - Credit hours: 3 (co-instructor)

KN523 - Exercise biology in health and disease- Guest lecture on *liver injury and regeneration*

Mentored/advised students

PhD student

Chen Shen (expected graduation: 8/2015)

Master's students

- Erica Weinandy: 2009 - 2011
- Meghan Rafferty: 2010 - 2012
- Perter Stack: 2010 - present
- Hsing-hua Hsu: 2010 - present
- Stephanie Coogan: 2011 - present
- Cassie Kerr: 2011 - present
- Allison Pigatto: 2011 - present
- Xiaoxing Ma: 2011 - present
- Danmeng Liu: 2011 - present

Postdoctoral research fellows

- Zhigang Wang 8/15/2009 - 9/1/2011
- Xiaobing Dou 4/15/2010 – 4/7/2012
- Dongfang Gu 6/1/2011 – 7/1/2012

Visiting scholars/students

- Songtao Li 2/1/2012 - Present Visiting Scholar
- Ximei Zhang 2/1/2012 - Present Visiting Scholar
- Jiaxin Li 8/7/2012 - Present Visiting Student

Undergraduate/graduate research training

- Melissa Freeman: Fall 2010
- Vencent Alessia: Spring 2011
- Seonhee Cho: Fall 2012

- Pik Shan Fung: Fall 2012
- Jonathan Podulka: Fall 2012

Thesis committees

- David Oprondek (MS) 2007 - 2009
- Jingbo Pang (MS) 2010 - 2012
- Rand Akashel (MS) 2010 - 2012
- John Trepanowski (PhD) 2010 -
- Cynthia M. Kroeger (PhD) 2012 -
- Jingbo Pang (PhD) 2013 -

SERVICE

Service to the University

College/department Level

- 2009-present: Member of Curriculum Strategic Plan Committee of the Nutrition Section.
- 2012-present: Member of the Graduate Student Evaluation Committee
- 2012: Chairman of the Faculty Search Committee (Recruitment of Michael Staver)
- 2012-present: Member of Faculty Advisory Committee.

Campus-level

- 2010 - present: Member of the Facilities Subcommittee of the Animal Care Committee
- 2011- present: Member of the Faculty Senate
- April, 14-15, 2010: Basic research section judge of UIC Student Research Forum

Service to the profession

Memberships of Professional Societies

American Association for the Study of Liver Disease (AASLD)
American Society of Nutritional Science (ASNS)
Research Society on Alcoholism (RSA)

Manuscript Reviewer

Editorial Board

2010-present World Journal of Gastrointestinal Pathophysiology

Associate Editor

2014-present Journal of Liver Research, Disorders & Therapy
2015-present Liver Research Open Journal

Manuscript Reviewer (ad-hoc, to name a few)

Gastroenterology
Hepatology
Journal of Hepatology
Molecular Biology of the Cell
American Journal of Pathology
American Journal of Physiology
Journal of Nutrition
Journal of Nutritional Biochemistry
Molecular and Cellular Endocrinology
Journal of Endocrinology
Alcoholism: Clinical and Experimental Research
Biochemical Pharmacology
Molecular Pharmacology
BBA
Journal of Cellular Physiology
Mediators of Inflammation
Obesity
FEBS Letters;
Apoptosis
Cytokine
Biologics: Targets & Therapies
Inflammation Research

Grant Reviewer (ad hoc)

June 2011-American Association for the Advancement of Science