Curricular Vitae

Chen, Hong, Associate Professor
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EDUCATION AND TRAINING

Lanzhou University	1986-1990	B.S.	Cell Biology
Virginia Tech	1996-1998	M.S.	Molecular Nutrition
Virginia Tech	1998-2001	Ph.D.	Molecular Nutrition
University of Florida	2001-2005	Post-doc	Biochem. & Mol. Biol

POSITIONS AND EMPLOYMENT

1998 to 2001 **John Lee Pratt Nutrition Fellow** in the Department of Animal and Poultry Sciences, Virginia Polytechnic Institute and State University, Blacksburg, VA.

2001 to 2005 **Postdoctoral Research Associate** in the Department of Biochemistry and Molecular Biology, University of Florida College of Medicine, Gainesville, FL.

2005 to 2006 **Assistant Scientist** in the Department of Biochemistry and Molecular Biology, University of Florida College of Medicine, Gainesville, FL.

2006 to 2013 **Assistant Professor** in the Department of Food Science and Human Nutrition, University of Illinois at Urbana-Champaign, Urbana, IL

2013 to present **Associate Professor** in the Department of Food Science and Human Nutrition, University of Illinois at Urbana-Champaign, Urbana, IL

OTHER EXPERIENCE AND PROFESSIONAL MEMBERSHIPS

- American Society for Nutrition, 1998-present
- American Society for Biochemistry and Molecular Biology, 2003-present
- American Association for the Advancement of Science, 2003-2011
- North American Colleges and Teachers of Agriculture, 2006-2007
- Illinois Council on Food and Agricultural Research, 2007-2010
- American Society of Animal Science, 1998-2001
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HONORS AND AWARDS:

- Arnold O. Beckman Research Award (2011)
- Mary Swartz Rose Young Investigator Award (2010)
- Milton L. Sunde Award for Excellent Publication in Journal of Nutrition(2006)
- John Lee Pratt Nutrition Fellowship (1998-2001)
- Virginia Polytechnic Institute and State University Graduate Research Fund (1998)

Selected peer-reviewed publications:

1. Zhang, Y., Wang, H., Zhou, D., Moody, L, Lezmi, S., **Chen, H.**, Pan, Y.-X. High-fat diet caused widespread epigenomic differences on hepatic methylome in rat. Physiol Genomics 2015; **47**(10): 514-523. PMID: 26199400
2. Zhou D, Wang H, Cui H, **Chen H**, Pan YX. (2014) Early-life exposure to high-fat

diet may predispose rats to gender-specific hepatic fat accumulation by programming Pepck expression. J Nutr Biochem. 2014 Nov 22. pii: S0955-2863(14)00236-8. doi: 10.1016/j.jnutbio.2014.10.009. [Epub ahead of print]

3. Tang X, Kuhlenschmidt TB, Li Q, Ali S, Lezmi S, **Chen H,** Pires-Alves M, Laegreid WW, Saif TA, Kuhlenschmidt MS. (2014) A mechanically-induced colon cancer cell population shows increased metastatic potential. Mol Cancer. 13(1):131
4. Zhang, Y., Q. Li, **H. Chen.** (2013). DNA methylation and histone modifications of Wnt genes by genistein during colon cancer development. Carcinogenesis. 34(8): 1756-1763.
5. Zhou, D., S. Lezmi, H. Wang, J. Davis, W. Banz, and **H. Chen** (2013). Fat accumulation in the liver of obese rats is alleviated by soy protein isolate through β-catenin signaling. Obesity. 2013 Mar. 20 [Epub ahead of print].
6. Zhang, Y., Q. Li, D. Zhou, and **H. Chen** (2013). Genistein, a soya isoflavone, prevents azoxymethane- induced up-regulation of WNT/beta-catenin signalling and reduces colon pre-neoplasia in rats. Br. J. Nutr. 109(1): 33-42.
7. Li Q, **H**. **Chen** (2012). Silencing of Wnt5a during colon cancer metastasis involves histone modifications of the gene. Epigenetics. 7(6): 551-558.
8. Wang, H., Q. Li, and **H. Chen** (2012). Genistein affects histone modifications on Dickkopf-related protein 1 (DKK1) gene in SW480 human colon cancer cell line. PLoS One **7**(7): e40955.
9. Zhou, D., Y. Zhang, Y-X. Pan, and **H. Chen** (2011). Dickkopf homolog 1, a Wnt signaling antagonist, is transcriptionally up-regulated via an ATF4-independent and MAPK/ERK-dependent pathway following amino acid deprivation. Biochim Biophys Acta **1809**(7): 306-315.
10. Zhang, Y. and **H. Chen** (2011). Genistein attenuates WNT signaling by up-regulating sFRP2 in a human colon cancer cell line. Exp Biol Med (Maywood) **236**(6): 714-722.
11. Zhang, Y. and **H. Chen** (2011). Genistein, an epigenome modifier during cancer prevention. Epigenetics **6**(7): 888-891.
12. Li, Q. and **H. Chen**. (2011). Epigenetic modifications of metastasis suppressor genes in colon cancer metastasis. Epigenetics **6(7)**: 849-852.
13. Li, Q. and **H. Chen**. 2011. Transcriptional silencing of N-Myc downstream-regulated gene 1 (NDRG1) in metastatic colon cancer cell line SW620. Clin. and Exp. Metastasis. 2011 Feb. 28(2): 127-135.
14. Wang, Z. and **H. Chen**. 2010. Genistein Increases Gene Expression by Demethylation of WNT5a Promoter in Colon Cancer Cell Line SW1116. Anticancer Res. 30(11): 4537-4545.
15. Gong, L., Pan, Y-X., and **H. Chen**. 2010. Gestational low protein diet in the rat mediates Igf2 gene expression in male offspring via altered hepatic DNA methylation. Epigenetics 5(7): 619-626.
16. Wang Z. and **H. Chen**. 2009. Amino acid limitation induces down-regulation of WNT5a at transcriptional level. Biochem. Biophys. Res. Commun. 378: 789-794.
17. Pan, Y-X., **H. Chen**, M. M. Thiaville, and M. S. Kilberg. 2007. Activation of the ATF3 Gene Through a Coordinated Amino Acid Sensing Response Program that Controls Transcriptional Regulation of Responsive Genes Following Amino Acid Limitation. Biochem. J. 401: 299-307.