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Department of Nutritional Sciences
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Education:

1984-1988: B.S., Forestry, Zhejiang A & F University

1988-1991: M.S., Biochemistry, Shanxi Agricultural University

1993-1996: Ph.D., Biochemistry, Zhejiang University

1998-2000: STA Fellow, Biochemistry, Natl Agric Res Ctr for Hokkaido Region, Japan

2000-2007: Post-doc, Signal Transduction, Kansas State University, KS

Awards and Honors:

1998: STA Fellowship (Science and Technology Agency of Japan), Japan

2005: Young Investigator Travel Grant to the National Ataxia Investigator's Meeting by National Ataxia Foundation (\$1,000)

2006: Travel Fellowship Award for the 131st Annual Meeting of the American Neurological Association, Chicago (\$1,000)

2007: National Eye Institute Travel Award to ARVO2007, FL (\$700)

2012: Travel Award and Invited speaker, FoodInnova2012 (\$2,500)

Other Professional Experience and Memberships:

Member: The American Association for the Advancement of Science

Member: The American Society for Nutrition

Member: The Association for Research in Vision and Ophthalmology

Member: The American Society for Cell Biology

Member: The Society for Neuroscience

1991-1993: Research Scientist, Institute of Subtropical Crops, China

1993-1996: Graduate Student, Ph. D. Candidate, Zhejiang University, China

1996-1998: Associate Professor, Department of Horticultural Sciences, Huazhong Agricultural University, China

1998-2000: STA Fellow, National Agricultural Research Center for Hokkaido Region, Sapporo, Japan

2000-2007: Post-doc, Department of Biochemistry, Kansas State University

2007-2013: Research Assistant Professor, Department of Human Nutrition, Kansas State University

2013-present: Assistant Professor, Department of Nutritional Sciences, Oklahoma State University

Research Support:

Current:

Past:

- 11/01/2013-11/13/2015, National Egg Board, "Egg lutein and inflammation", Awarded: \$102,000, Role: PI
- 03/01/2015-02/28/2017, USDA/NIFA, "Egg xanthophylls prevent chronic inflammation in type 2 diabetes", Awarded: \$100,000, Role: PI

- 08/01/2015-07/31/2017, AES/USDA Hatch, " β , β -carotene 9', 10'-oxygenase 2 impacts hepatic mitochondrial function in obesity", Awarded: \$100,000, Role: PI
- 08/01/2013-12/31/2014, Oklahoma State University Start-up grant, "Food bioactive compounds and chronic disease prevention", Awarded: \$100,000, Role: PI
- 07/01/2008-06/30/2013, NIH COBRE, "Dietary supplements protect retinal pigment epithelial cells from apoptosis", Awarded: \$330,000, Role: PI

Selected Publications:

1. Michael Barnett, Dingbo Lin, Vladimir Akoyev, Lloyd Willard, Dolores J Takemoto. Protein kinase C epsilon activates lens mitochondrial cytochrome C oxidase Subunit IV during hypoxia. *Exp Eye Res.* 2008; 86:226-234. PMID: 18070622
2. Denis M Medeiros, Yu Jiang, Darcey L Klaahsen, Dingbo Lin. Mitochondrial and sarcoplasmic protein changes in hearts from copper deficient rats: Upregulation of PGC1- α transcript and protein as a cause for mitochondrial biogenesis in copper deficiency. *J Nutr Biochem.* 2009; 20:823-830. PMID: 18993053
3. Ling Tang , Yunong Zhang , Yu Jiang , Lloyd Willard , Edlin Ortiz , Logan Wark , Denis Medeiros, Dingbo Lin. Dietary wolfberry ameliorates retinal structure abnormalities in db/db mice at the early stage of diabetes. *Exp Biol Med.* 2011; 236:1051-1063. PMID: 21750018
4. Huifeng Yu, Jin Han, Logan Wark, Lloyd Willard, Hui He, Edlin Ortiz, Yunong Zhang, Hua Ji, Denis M Medeiros, Dingbo Lin. Dietary wolfberry up-regulates carotenoid metabolic genes and enhances mitochondrial biogenesis in the retina of db/db diabetic mice. *Mol Nutr Food Res.* 2013; 57:1158-1169. PMID: 23505020
5. Dingbo Lin, Hui He, Hua Ji, Jordan Willis, Lloyd Willard, Yu Jiang, Denis M Medeiros, Logan Wark, Jing Hang, Yongzhang Liu, Bin Lu. Wolfberries potentiate mitophagy and enhances mitochondrial biogenesis leading to prevention of hepatic steatosis in obese mice: the role of AMP-activated protein kinase α 2. *Mol Nutr Food Res.* 2014; 58:1005-1015. PMID: 24449471
6. Dingbo Lin, Dolores J. Takemoto. Oxidative activation of protein kinase C gamma through the C1 domain: effects on gap junctions. *J Biol Chem.* 2005; 280:13682-13693. PMID: 15642736
7. Dingbo Lin, Michael Barnett, Samuel Lobell, Daniel Madgwick, Guido A. Zampighi, Dolores J. Takemoto. PKCgamma knockout mouse lenses are more susceptible to oxidative stress damage. *J Exp Biol.* 2006; 209:4371-4378. PMID: 17050852
8. Dingbo Lin, Denton Shanks, Om Prakash, Dolores J. Takemoto. Protein kinase C gamma mutations in the C1B domain cause caspase-3-linked apoptosis in lens epithelial cells through gap junctions. *Exp Eye Res.* 2007; 85:113-122. PMID: 17493614
9. Dingbo Lin, Guido A. Zampighi, Dolores Takemoto. Protein kinase C gamma activation in the early streptozotocin-diabetic rat lens. *Current Eye Res.* 2007; 32:523-532. PMID: 17612968
10. Dingbo Lin, Dolores J. Takemoto. Protection from ataxia-linked apoptosis by gap junction inhibitors. *Biochem Biophys Res Comm.* 2007; 362:982-987. PMID: 17822669
11. Vladimir V Yevseyenkov, Satyabrata Das, Dingbo Lin, Lloyd Willard, Harry Davidson, Ali Sitaramayya, Frank J Giblin, Loan Dang, Dolores J Takemoto. 2009. Loss of protein kinase Cgamma in knockout mice and increased retinal sensitivity to hyperbaric oxygen. *Arch Ophthalmol.* 2009; 127:500-506. PMID: 19365031
12. Yunong Zhang, Adam Snider, Lloyd Willard, Dolores Takemoto, Dingbo Lin. Loss of Purkinje cells in the PKCgamma H101Y transgenic mouse. *Biochem Biophys Res Comm.* 2009; 378:524-528. PMID: 19056342
13. Yu Jiang, Yunong Zhang, Logan Wark, Edlin Ortiz, Soyoung Lim, Hui He, Weiqun Wang, Denis Medeiros, Dingbo Lin. Wolfberry water soluble phytochemicals down-regulate ER stress biomarkers and modulate multiple signaling pathways leading to inhibition of proliferation and induction of apoptosis in Jurkat cells. *J Nutr Food Sci.* 2011; Nov 24; S2. Pii:001. PMID: 22685690
14. Jean Getz, Dingbo Lin, Denis M Medeiros. The cardiac copper chaperone proteins Sco1 and CCS are up-regulated, but Cox 1 and Cox4 are down-regulated, by copper deficiency. *Biol Trace Elem Res.* 2011; 143(1):368-377. PMID: 20878365
15. Xueyan Fu, Yu Huang, Xiaolan Kang, Tingting Li, Xin Jia, Lin Dong, Lei Wu, Dingbo Lin. Enhanced antioxidant property of wolfberry bud tea. *Austin J Nutr Food Sci.* 2014 (in press)