

# Curriculum vitae

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## **Jiangang Chen**

390 HPER Hall  
Department of Public Health  
The University of Tennessee  
Knoxville, TN 37996

### **A. Education**

Doctor of Philosophy, Comparative Pathology, University of California Davis (2003)  
Master of Medicine, Epidemiology, Beijing Medical University, Beijing P.R.China (1996)  
Bachelor of Medicine, Preventative Medicine, Beijing Medical University (1993)

### **B. Position and Honors:**

#### **Positions and Employment:**

03/2003 06/2004 Postgraduate researcher, Center for Health and the Environment  
University of California, Davis, CA 95616  
06/2004 01/2010 Assistant Project Scientist, Center for Health and the Environment  
University of California, Davis, CA 95616  
02/2010 06/2010 Assistant Research Professor, Department of Nutrition  
University of Tennessee, Knoxville, TN 37996  
07/2010 to present Assistant Professor, Department of Public Health  
University of Tennessee, Knoxville, TN 37996

#### **Honors:**

1994-1995 Beijing Medical University Research Fellowship  
1995 Outstanding Graduate Student of Beijing Medical University  
1999-2003 NIEHS/UC Davis Superfund Basic research and Training Program pre-Doctoral  
Fellowship  
2002 NIEHS Superfund Basic Research program (SBRP) Annual National Meeting Travel  
Award  
2002 George H. Stabenfeldt Travel Award, 48<sup>th</sup> Endocrine Society Annual Meeting  
2002 Merck &Co., Inc. 41<sup>th</sup> Society of Toxicology Annual Meeting Travel Award  
2003 NIEHS Superfund Basic Research program (SBRP) Annual National Meeting Travel  
Award  
2003 Nominee Allen G. Marr Prize Distinguished Dissertation Award, UC Davis  
2005 51<sup>th</sup> Endocrine Society Travel Award for Outstanding Abstract

### **C. Professional Memberships**

Member of the Endocrine Society (2002-present)  
Member of Society of Toxicology (2002-2005)  
Member of Society for Study of Reproduction (2007-2009)  
Member of Tennessee Public Health Association (2010-present)

### **D. Reviewer for Professional Journals**

Journal of Birth Defects Research (Developmental and Reproductive Toxicology)  
Journal of Agricultural Chemistry and Environment

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Journal of Food & Nutritional Disorders  
Journal of Environmental Health

## **E. Services**

College Technology Committee, 2010 to present  
College Search Committee for College Associate Dean for Research and Academic Affairs, 2011  
Department Graduate Assistantship Selection Committee, 2010, 2011  
Department Mission and Vision Development Committee, 2010  
Member of Department Delegation Team for International Affairs Program with Wuhan University and Sichua University, China, 2011  
Department MOU Development Committee (Jackson State University), 2011  
Department Goals and Objectives Development Committee, 2012

## **F. Presentation in Professional Meetings**

- 2009 **Chen, J.** A Novel Endocrine Disruptor in Personal Care Products: Enhancer for Sex Hormones. *The University of Tennessee Epidemiologists Forum*, Knoxville, Tennessee.
- 2010 **Chen, J.** Endocrine Disruptors in Personal Care Products. *The University of Tennessee, Comparative & Experimental Medicine and Public Health Research Symposium*, Knoxville, Tennessee.
- 2010 McConnell, D.S., **Chen, J.**, Gee, N.A., Stanczyk, F.Z., Santoro, N., Randolph, J., Sowers, M.F., Gentzschlein, E., Lasley, B.L. Circulating dehydroepiandrosterone sulfate (DS) is associated with an increase in circulating androstenediol. *Endocrine Society Annual Meeting*, San Diego, California.
- 2010 Olsen, N.C., **Chen, J.**, Duleba, A.J., Lasley, B.L. (2010) Triclocarban modulates cytokines *in vitro*. *Endocrine Society Annual Meeting*, San Diego, California.
- 2011 **Chen, J.** Estrogenic Property of Turmeric, What are the Implications? *New Chapter Annual Scientific Meeting*, Brattleboro, Vermont.
- 2011 Kennedy, R., **Chen, J.**, Gee, N.A., Benirschke, K., Duleba, A., Lasley, B.L. Effects of a novel endocrine disrupting compound triclocarban (TCC) exposure during pregnancy in rats. *NIEHS and USEPA Superfund Annual Research Meeting*, Lexington, Kentucky.
- 2012 Pittenger, S.R., Cedars, M.I., McConnell, D.S., Handa, R., Hiroi, R., **Chen, J.**, Gee, N., Lasley, B. L. Estrogenic Potential of Androstenediol. *Society for Gynecologic Investigation Annual Meeting* San Diego, California.
- 2012 Purohit, J., Hu, P., **Chen, J.**, Zhao, L.(2012). Leptin and adiponectin are both suppressed upon activation of Nucleotide Oligomerization Domain Containing Protein 1 during adipocyte differentiation. *Experimental Biology Annual Meeting*, San Diego, California.
- 2012 Kennedy, R., Bae, J., Fecteau, K., Zhao, L., Gee, N., Benirschke, K., Lasley, B. L. **Chen, J.** Triclocarban (TCC) exposure in pregnancy and during the female neonate period compromises lactation and reproductive developments. *Endocrine Society Annual Meeting*, Houston, Texas.
2013. Kennedy R\*, Healy L, Fecteau K, Zhao L, Hu P, Gee N, Lasley B, Benirschke K and **Chen J.** Early Exposure to Triclocarban During Lactation Alters Survival Rate in the Female Rat Neonate *Endocrine Review*, Vol. 34 (03): OR38-3

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2013. **Chen, J.**, Kennedy, R. Impact of early life antimicrobial exposure on reproductive outcomes. 45th Asia Pacific Academic Consortium for Public Health (APACPH Conference).

2014. Towers, CV., Chambers, W., Lewis, D., Howard, B., **Chen, J.**, Terry, P. (2014). Transplacental passage of antimicrobial paraben preservatives. *Obstetric and Gynecology*. Vol. 123 Suppl 1:175S-6S.

2014. Kennedy, R\*, Healy, L., Menn, FM., Fecteau, K., Zhao, L., Bae, J., Hu, P., Gee, NA., Lasley, BL., **Chen, J.** Mammary gland involution during lactation is a secondary effect of TCC induced neonatal loss. Endocrine Society Annual Meeting, Chicago, IL.

### **G. Selected relevant publications:**

- 2001 Li, H.X., Nakajima, S.T., **Chen, J.**, Todd, H.E., Overstreet, J.W., Lasley, B.L. Differences in Hormonal Characteristics of Conceptive versus Non-conceptive Menstrual Cycles. *Fertility and Sterility*: 75(3): 549-53. PMID: 11239540
- 2001 Moran, F.M., Tarara, R., **Chen, J.**, Santos, S., Cheney, A., Overstreet, J.W., Lasley, B.L. Effect of Dioxin on Ovarian Function in the Cynomolgus Macaque (*M. Fascicularis*). *Reproductive Toxicology*: 15(4): 377-83. PMID: 11489593
- 2003 Moran, F.M., Lohstroh, P., VandeVoort, C.A., **Chen, J.**, Overstreet, J.W., Conley, A.J., Lasley, B.L. Exogenous Steroid Substrate Modifies the Effect of 2,3,7,8-tetrachlorodibenzo-p-dioxin on Estradiol Production of Human Luteinized Granulosa Cells in vitro. *Biology of Reproduction*: 68(1): 244-51. PMID: 12493720
- 2003 **Chen, J.**, Laughlin, L., Overstreet, J.W., Lasley, B.L. The Effect of 2,3,7,8-tetrachlorodibenzo-p-dioxin on Chorionic Gonadotropin (CG) Activity. *Toxicology*: 186(1-2): 21-31. PMID: 12604168
- 2003 **Chen, J.**, Thirkill, T.L., Overstreet, J.W., Lasley, B.L., Douglas, G.C. Effect of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) on Chorionic Gonadotropin (CG) Secretion by Human Trophoblasts. *Reproductive Toxicology*: 17(1): 87-93. PMID: 12507663
- 2003 **Chen, J.**, Qiu, Q., Lohstroh, P., Overstreet, J.W., Lasley, B.L. Hormonal Characteristics in the Early Luteal Phase of Conceptive and Non-conceptive Menstrual Cycles. *Journal of the Society for Gynecologic Investigation*: 10(1): 27-31. PMID: 12517590
- 2003 Lohstroh, P.N., **Chen, J.**, Ba, J., Ryan, L.M., Xu, X.P., Overstreet, J.W., Lasley, B.L. Bone Health Is Affected By Follicular Phase Length in Female Rotating Shift Workers. *Environmental Health Perspectives*: 111(4): 618-22. (contributed equally) PMID: 12676625
- 2003 **Chen, J.**, Douglas, G.C., Thirkill, T.L., Lohstroh, P.N., Bielmeier, S.R., Narotsky, M.G., Best, D.S., Harrison, R.A., Natarajan, K., Pegram, R.A., Overstreet, J.W. and Lasley, B.L. Effect of Bromodichloromethane on Chorionic Gonadotrophin Secretion by Human Placental Trophoblast Cultures. *Toxicological Sciences*: 76(1): 75-82. PMID: 12970577
- 2004 **Chen, J.**, Thirkill, T.L., Lohstroh, P.N., Bielmeier, S.R., Narotsky, M.G., Best, D.S., Harrison, R.A., Natarajan, K., Pegram, R.A., Overstreet, J.W., Lasley, B.L., Douglas, G.C. Bromodichloromethane Inhibits Human Placental Trophoblast Differentiation. *Toxicological Sciences*: 78(1): 166-74. PMID: 14691210
- 2006 **Chen, J.**, Sowers, M.R., Moran, F.M., McConnell, D.S., Gee, N.A., Greendale, G.A., Whitehead, C., Kasim-Karakas, S.E., Lasley, B.L. Circulating Bioactive Androgens in Midlife Women. *Journal of Clinical Endocrinology and Metabolism*: 91(11): 4387-94. PMID: 16940455
- 2007 **Chen, J.**, Ahn, K.C., Gee, N.A., Gee, S.J., Hammock, B.D., Lasley, B.L. Antiandrogenic Properties of Parabens and Other Phenolic Containing Small Molecules in Personal Care Products. *Toxicology And Applied Pharmacology*: 221(3): 278-84. PMID: 17481686
- 2008 Yon, L., **Chen, J.**, Moran, P., Lasley, B.L. An Analysis of the Androgens of Musth in the Asian Bull Elephant (*Elephas maximus*). *General and Comparative Endocrinology*: 155(1):109-15. PMID: 17466989

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- 2008 **Chen, J.**, Ahn, K.C., Gee, N.A., Mohamed, M.I., Duleba, A.J., Zhao, L., Gee, S.J., Hammock, B.D., Lasley, B.L. Triclocarban Enhances Testosterone Action: A new Type of Endocrine Disruptor? *Endocrinology* 149(3):1173-9. PMID: 18048496
- 2008 Ahn, K.C., Zhao B., **Chen, J.**, Cherednichenko, G., Sanmarti, E., Denison, M.S., Lasley, B., Pessah, IN., Kültz, D., Chang, D.P.Y., Gee, S.J., Hammock, B.D. In vitro Biologic Activities of the Antimicrobials Triclocarban, its Analogs, and Triclosan in Bioassay Screens: Receptor-based Bioassay Screens. *Environmental Health Perspectives*: 116(9):1203-10. PMID: 18795164
- 2011 Duleba AJ, Ahmed MI, Sun M, Gao AC, Villanueva J, Conley AJ, Turgeon JL, Benirschke K, Gee NA, **Chen J**, Green PG, Lasley BL. Effects of triclocarban on intact immature male rat: augmentation of androgen action. *Reproductive Sciences*. 18(2):119-27. PMID: 20889956
- 2012 Lasley BL, **Chen J**, Stanczyk FZ, El Khoudary SR, Gee NA, Crawford S, McConnell DS. Androstenediol complements estrogenic bioactivity during the menopausal transition. *Menopause*. 19(6):650-657. PMID: 22415563
- 2013 Purohit J, Hu P, **Chen J**, Zhao L. The Effects of NOD Activation on Adipocyte Differentiation. *Obesity (Silver Spring)*. 21(4):737-47. PMID: 23712977
- 2013 Moran F.M, **Chen J\***, Lostroh P, Gee, N and Lasley B. Dehydroepiandrosterone sulfate (DHEAS) levels reflect endogenous LH production and respond to human chorionic gonadotropin (hCG) challenge in the older female macaque (*Macaca fascicularis*). *Menopause* 20(3):329-35. PMID: 23435031 \* equal contribution
- 2013 Hu P, Chen X, Whitener RJ, Boder ET, Jones JO, Porollo A, **Chen J**, Zhao L. Effects of parabens on adipocyte differentiation. *Toxicological Sciences*. 131(1):56-70. PMID: 22956630
- 2014 Dinwiddie MT, Terry PD, **Chen J**. Recent evidence regarding triclosan and cancer risk. *Internal Journal of Environmental Research and Public Health*. 2014 Feb 21;11(2):2209-17. PMID: 24566048
- 2014 Bae JY, Ricciardi C, Esposito D, Komarnytsky S, Hu P, Curry B, Brown P, Gao ZG, Biggerstaff J, **Chen J**, Zhao L. Activation of Pattern Recognition Receptors in Brown Adipocytes Induce Inflammation and Suppress Uncoupling Protein 1 Expression and Mitochondrial Respiration. *American Journal of Physiology*. 306(10):C918-30 PMID: 24627558
- 2014 **Chen J**, Al-Wadei MH, Kennedy R, Terry P. Hydraulic Fracturing: Paving the Way for a Sustainable Future?" *Journal of Environmental and Public Health*. 2014:656824. doi: 10.1155/2014/656824. PMID: 24790614
- 2014 Kennedy R.C, Menn F.M, Healy L, Fecteau K. A, Hu P, Bae J, Gee N. A, Lasley B.L, Zhao L, **Chen J**. Early Life Triclocarban Exposure During Lactation Affects Neonate Rat Survival. *Journal of Reproductive Sciences*. [Epub ahead of print] PMID: 24803507

### H. Ongoing Research Projects

R21 ES017475-01A1 (PI: **Chen, Jiangang**) 10/01/10-09/30/14 6.0 months  
NIEHS  
Total funding: \$420,000

In Utero and Neonatal Effects of Triclocarban Exposure

The goal of this project is to assess the potential impact of antimicrobials used in personal care products on neonatal development and hormone homeostasis

### E. Research Projects Completed During the Last 3 years:

01-1770080 (PI: **Chen, Jiangang**) 08/01/10-07/01/13 0.6 months  
New Chapter Inc  
Total funding \$48,000

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### Role of Estrogen Receptors in Mediating Xenobiotics Induced Signal Transduction

The goal of this project is to investigate the estrogenic property and role of environmental compounds in breast cancer development

P42 ES04699 (**PI: Hammock, Bruce**)

04/01/05-01/31/10

NIH

Total funding: \$500,000

### Biomarkers of Exposure to Hazardous Substances II

Project 6: Assessing the Adverse Effects of Environmental Hazards on the Reproductive Health in Human Populations

**Role: Senior Investigator (Chen, Jiangang)**

The major goals of this project are to assess the effects of reproductive toxins