

CURRICULUM VITAE

Personal Information			
Name	Li-Jun Huo	Gender	Male
Position Title	Professor		
Working Department	College of Animal Science and Technology, Huazhong Agricultural University		
Email	ljhuo@mail.hzau.edu.cn		
Address	No.1 Shizishan Street, Hongshan District, Wuhan 430070, Hubei Province, P.R.China		
Tel	86-10-18986207556	Fax	
Research Interest			
I. Regulatory mechanism of oocyte meiotic maturation and oocyte quality control			
II. Spermatogenesis and male fertility			
III. Effect of environmental chemicals on fertility			
Education & Working Experience			
2008.8-now:	Professor, College of Animal Science and Technology, Huazhong Agricultural University, Wuhan, P. R. of China		
2005.8-2008.8:	Postdoctoral Research Associate Stowers Institute for Medical Research, Kansas city, MO, USA Supervisor: Scott Hawley		
2002.9-2005.7:	Ph.D., Physiology Institute of Zoology, Chinese Academy of Sciences, Beijing, China Supervisor: Professor Qing-Yuan Sun		
1999.9-2002.7:	Master Veterinary science, Northeast Agricultural University, Harbin, China Supervisor: Professor Zeng-Ming Yang		
1995.9-1999.7:	B.S , Biotechnology Northeast Agricultural University, Harbin, China		

Publications

1. Ding ZM, Ahmad MJ, Meng F, Chen F, Wang YS, Zhao XZ, Zhang SX, Miao YL, Xiong JJ, **Huo LJ**. Triclocarban exposure affects mouse oocyte in vitro maturation through inducing mitochondrial dysfunction and oxidative stress. **Environ Pollut**. 2020 Feb 25;262:114271.
2. Ding ZM, Hua LP, Ahmad MJ, Safdar M, Chen F, Wang YS, Zhang SX, Miao YL, Xiong JJ, **Huo LJ**. Diethylstilbestrol exposure disrupts mouse oocyte meiotic maturation in vitro through affecting spindle assembly and chromosome alignment. **Chemosphere**. 2020 Feb 11;249:126182.
3. Meng F, Jiao XF, Chen F, Zhang XY, Duan ZQ, Ding ZM, Wu D, Wang YS, Zhang SX, Miao YL, **Huo LJ**. Isobutylparaben Negatively Affects Porcine Oocyte Maturation Through Increasing Oxidative Stress and Cytoskeletal Abnormalities. **Environ Mol Mutagen**. 2020 Jan 10.
4. Wang YS, Jiao XF, Chen F, Wu D, Ding ZM, Miao YL, **Huo LJ**. WDR62 is a novel participator in spindle migration and asymmetric cytokinesis during mouse oocyte meiotic maturation. **Exp Cell Res**. 2020 Feb 1;387(1):111773.
5. Jiao X, Ding Z, Meng F, Zhang X, Wang Y, Chen F, Duan Z, Wu D, Zhang S, Miao Y, **Huo L**. The toxic effects of Fluorene-9-bisphenol on porcine oocyte in vitro maturation. **Environ Toxicol**. 2019 Nov 7.
6. Ding ZM, Zhang SX, Jiao XF, Hua LP, Ahmad MJ, Wu D, Chen F, Wang YS, Zhang XY, Meng F, Duan ZQ, Miao YL, **Huo LJ**. Doxorubicin exposure affects oocyte meiotic maturation through DNA damage induced meiotic arrest. **Toxicol Sci**. 2019 Jul 31. pii: kfz161.
7. Wu D, Huang CJ, Jiao XF, Ding ZM, Zhang SX, Miao YL, **Huo LJ**. Bisphenol AF compromises blood-testis barrier integrity and sperm quality in mice. **Chemosphere**. 2019 Jul 20;237:124410.
8. Jiao XF, Liang QM, Wu D, Ding ZM, Zhang JY, Chen F, Wang YS, Zhang SX, Miao YL, **Huo LJ**. Effects of Acute Fluorene-9-Bisphenol Exposure on Mouse Oocyte in vitro Maturation and Its Possible Mechanisms. **Environ Mol Mutagen**. 2019 Apr;60(3):243-253.
9. Zheng L, Xu JW, Li JC, Wang DH, An QM, Xu LN, Ma YL, Wang J, Peng SJ, Lei CZ, Lan XY, Chen H, **Huo LJ**, Huang YZ. Distribution and association study in copy number variation of KCNJ12 gene across four Chinese cattle populations. **Gene**. 2019 Mar 20;689:90-96.
10. Zheng L, Zhang GM, Dong YP, Wen YF, Dong D, Lei CZ, Qi XL, Chen H, **Huo LJ**, Huang YZ. Genetic Variant of MYLK4 Gene and its Association with Growth Traits in Chinese Cattle. **Anim Biotechnol**. 2019 Jan;30(1):30-35.
11. Cao J, Liu XM, Huang LL, Wang L, Jiao XF, **Huo LJ**. SUMO2 modification of Aurora B and its impact on follicular development and atresia in the mouse ovary. **Int J Mol Med**. 2018 Mar 7.
12. Chen F, Jiao XF, Zhang JY, Wu D, Ding ZM, Wang YS, Miao YL, **Huo LJ**. Nucleoporin35 is a novel microtubule associated protein functioning in oocyte meiotic spindle architecture. **Exp Cell Res**. 2018 Oct 15;371(2):435-443.
13. Ding ZM, Jiao XF, Wu D, Zhang JY, Chen F, Wang YS, Huang CJ, Zhang SX, Li X, **Huo LJ**. Bisphenol AF negatively affects oocyte maturation of mouse in vitro through

- increasing oxidative stress and DNA damage. **Chem Biol Interact.** 2017 Nov 1. pii: S0009-2797(17)31017-7.
14. Yang F, He C, Sun X, Wang J, Luo C, Liu G, Yang L, Xiong J, **Huo L.** The Regulatory Mechanism of MLT/MT1 Signaling on the Growth of Antler Mesenchymal Cells. **Molecules.** 2017 Oct 23;22(10). pii: E1793.
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 18. Brohi RD, **Huo LJ.** Posttranslational Modifications in Spermatozoa and Effects on Male Fertility and Sperm Viability. **OMICS: A Journal of Integrative Biology.** 2017 May;21(5):245-256.
 19. Huang CJ, Wu D, Jiao XF, Khan FA, Xiong CL, Liu XM, Yang J, Yin TL, **Huo LJ.** Maternal SENP7 programs meiosis architecture and embryo survival in mouse. **Biochim Biophys Acta.** 2017 Mar 16;1864(7):1195-1206.
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 21. Huang CJ, Yuan YF, Wu D, Khan FA, Jiao XF, **Huo LJ.** The cohesion stabilizer sororin favors DNA repair and chromosome segregation during mouse oocyte meiosis. **In Vitro Cell Dev Biol Anim.** 2017 Mar;53(3):258-264.
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 23. Huang CJ, Wu D, Khan FA, **Huo LJ.** The SUMO Protease SENP3 Orchestrates G2-M Transition and Spindle Assembly in Mouse Oocytes. **Sci Rep.** 2015 Oct 23;5:15600.
 24. Huang CJ, Wu D, Khan FA, **Huo LJ.** DeSUMOylation: An Important Therapeutic Target and Protein Regulatory Event. **DNA Cell Biol.** 2015 Nov;34(11):652-60.
 25. Khan HA, Zhao Y, Wang L, Li Q, Du YA, Dan Y, **Huo LJ.** Identification of miRNAs during mouse postnatal ovarian development and superovulation. **J Ovarian Res.** 2015 Jul 8;8(1):44.
 26. Yuan YF, Zhai R, Liu XM, Khan HA, Zhen YH, **Huo LJ.** SUMO-1 plays crucial roles for spindle organization, chromosome congression, and chromosome segregation during mouse oocyte meiotic maturation. **Mol Reprod Dev.** 2014 Aug;81(8):712-24.
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 29. Zhai R, Yuan YF, Zhao Y, Liu XM, Zhen YH, Yang FF, Wang L, Huang CZ, Cao J, **Huo**

LJ. Bora regulates meiotic spindle assembly and cell cycle during mouse oocyte meiosis.
Mol Reprod Dev. 2013 Jun;80(6):474-87.