

CURRICULUM VITAE

Li Guangyu

Address Fisheries College,
Huazhong Agricultural University,
No.1, Shizishan Street, Hongshan District,
Wuhan, Hubei, P.R.China, 430070

Email liguangyu@mail.hzau.edu.cn,

Mobile +86-27-87282114



EDUCATION

Ph.D., Biological Science, Hydrobiology; Major Area: Hydrobiology

Institute of Hydrobiology, Chinese Academy of Science, Wuhan, P. R. China.

09/2005-07/2010.

B.A., Biotechnology

Department of biological science, Huazhong Normal University, P. R. China.

09/2001-07/2005

ACADEMIC APPOINTMENTS

07/2010-12/2012 Lecture, Fisheries College, Huazhong Agricultural University,
Wuhan 430070, P. R. China

12/2012-present Associate professor, Fisheries College, Huazhong Agricultural
University, Wuhan 430070, P. R. China

HONORS

2002-2003 Fellowship with Honor, Huazhong Normal University, Wuhan, China.
(Two times)

2008-2010 Outstanding graduate student scholarship, the Chinese Academy of
Sciences (Three times)

RESEARCH GRANTS

2014-2015 The Key Projects in Fok Ying Tung Education Foundation (Grant 141078)

“The molecular mechanism of prenatal MC-LR exposure induced growth

retardation in offspring rats”

2013-2015 The National Natural Science Foundation of China (Grant No. 31200402).

“Parental transfer of microcystin and developing toxicity in zebrafish (*Danio rerio*) embryos”

2013-2015 The Fundamental Research Funds for the Central Universities (Program No. 2013PY037). “Microcystin-triggered thyroid endocrine disruption and its roles in growth retardation of zebrafish (*Danio rerio*)”

2012-2013 The Specialized Research Fund for the Doctoral Program of Higher Education (SRFDP) Grant (20120146120008). “The molecular mechanism of Microcystin-LR induced apoptosis in zebrafish (*Danio rerio*) embryos”

TECHNICAL EXPERTISE

Immunohistochemical analysis in tissue and cells; biochemical analyses through chemical colorimetric method or ELISA method; real time PCR and western blot for gene and protein analyses; proteomics analysis for protein screening; NMR-based metabonomic.

PUBLICATIONS

- [1] Zeng, C, Sun, H, Xie, P, Wang, J, Zhang, G, Chen, N, Yan, W, **Li, GY**. The role of apoptosis in MCLR-induced developmental toxicity in zebrafish embryos. *Aquat. Toxicol.* 149, 25-32. **2014 [IF 3.52] (corresponding author)**
- [2] **Li GY**, Shen D, Liang XF*, He Y, He S. Effects of malachite Green on the mRNA expression of detoxification-related genes in Nile tilapia (*Oreochromis niloticus*) and other major Chinese freshwater fishes. *Environ. Toxicol.* 28: 137-145. **2013 [IF 2.72]**
- [3] **Li GY**, Yan W, Cai F, He Y, Chen N, Wang JH*. Spatial learning impairment and

- pathological change in rats induced by acute exposure to microcystin-LR. *Environ. Toxicol.* 29:261-268. **2013 [IF 2.72]**
- [4] **Li GY**, Yan W, Qiao Q, Chen J, Cai F, He Y, Zhang X*. Global effects of subchronic treatment of microcystin-LR on rat splenic protein levels. *J. Proteomics* 77: 383-393. **2012a [IF 5.07]**
- [5] **Li GY**, Cai F, Yan W, Li CR, Wang JH*. A proteomic analysis of MCLR-induced neurotoxicity: implications for Alzheimer's disease. *Toxicol.Sci.* 127(2): 485-495. **2012b [IF 5.09]**
- [6] Liu CS, Yan W, Zhou BS, Guo YY, Liu HL, Yu HX, Giesy JP, Wang JH, **Li GY***, Zhang XW*. Characterization of a bystander effect induced by the endocrine-disrupting chemical 6-propyl-2-thiouracil in zebrafish embryos. *Aquat Toxicol.* 118:108-115. **2012 [IF 3.72] (corresponding author)**
- [7] Yan W, Zhou Y, Yang J, Wang JH, Chen J*, **Li GY***. Waterborne exposure to microcystin-LR alters thyroid hormone levels and gene transcription in the hypothalamic-pituitary-thyroid axis in zebrafish larvae. *Chemosphere* 87(11): 1301-1307. **2012 [IF 3.15] (corresponding author)**
- [8] **Li GY**, Chen J, Xie P*, Jiang Y, Wu LY, Zhang XZ. Protein profiles in zebrafish (*Danio rerio*) embryos exposed to microcystin-LR. *Proteomics* 11:2003-2018. **2011 [IF 4.82]**
- [9] **Li GY**, Yan W, Cai F, He Y, Chen N, Wang JH*. Spatial learning impairment and pathological change in rats induced by acute exposure to microcystin-LR. *Environ. Toxicol.* 29(3):261-268. **2013 [IF 2.54]**
- [10] **Li GY**, Xie P*, Li HY, Hao L, Xiong Q, Qiu T. Acute effects of microcystins on the transcription of 14 glutathione S-transferase isoforms in Wistar rat. *Environ. Toxicol.* 26:187-194. **2011 [IF 1.83]**
- [11] **Li GY**, Xie P*, Li HY, Hao L, Xiong Q, Qiu T, Liu Y. Involment of p53, Bax, and Bcl-2 pathway in microcystins-induced apoptosis in rat testis. *Environ. Toxicol.* 26:111-117. **2011 [IF 1.83]**
- [12] **Li GY**, Xie P*, Li HY, Chen J, Hao L, Xiong Q. Quantitative profiling of mRNA expression of glutathione S-transferase superfamily genes in various tissues of

- bighead carp (*Aristichthys nobilis*). *J. Biochem. Mol. Toxicol.* 24:250-259. **2010** [IF 1.96]
- [13] He J, Chen J, Wu L, Li GY, Xie P*. Metabolic response to oral microcystin-LR exposure in the rat by NMR-based metabonomic study. *J. Proteome Res.* 11:5934-5946. **2013** [IF 5.46]
- [14] Zhao SJ, Xie P*, Li GY, Chen J, Cai Y, Xiong Q, Zhao YY. The proteomic study on cellular responses of the testes of zebrafish (*Danio rerio*) exposed to microcystin-RR. *Proteomics* 12:300–312. **2011** [IF 4.82]
- [15] Cheng WX, Liang XF*, Shen D, Zhou Q, He Y, He S. Li GY. Seasonal variation of gut Cyanophyta contents and liver GST expression of mud carp (*Cirrhina molitorella*) and Nile tilapia (*Oreochromis niloticus*) in the tropical Xiangang Reservoir (Huizhou, China). *Chinese Sci. Bull.* Doi/10.1007/s11434-011-4871-7. **2011** [IF 1.08]
- [16] Wang JH, Shen D, Liang XF*, Li GY, He Y, He S. *In situ* studies on the seasonal variation of gut cyanophyta contents and liver GST expression of silver carp (*Hypophthalmichthys molitrix*) and grass carp (*ctenopharyngodon idella*). *Fresen. Environ. Bulle.* 20:3053-3058. **2011** [IF 0.72]
- [17] Xiong Q, Xie P*, Li HY, Hao L, Li GY, Qiu T, Liu Y. Acute effects of microcystins exposure on the transcription of antioxidant enzyme genes in three organs (liver, kidney, and testis) of male Wistar rats. *J. Biochem. Mol. Toxicol.* 24:361-367. **2010** [IF 1.96]
- [18] Xiong Q, Xie P*, Li HY, Hao L, Li GY, Qiu T, Liu Y. Involvement of Fas/FasL system in apoptotic signaling in testicular germ cells of male Wistar rats injected i.v. with microcystins. *Toxicol* 54:1-7. **2010** [IF 2.12]
- [19] Liu Y, Xie P*, Qiu T, Li HY, Li GY, Hao L, Xiong Q. Microcystin extracts induce ultrastructural damage and biochemical disturbance in male rabbit testis. *Environ. Toxicol.* 25:9-17. **2010** [IF 1.83]
- [20] Hao L, Xie P*, Li HY, Li GY, Xiong Q, Wang Q, Qiu T, Liu Y. Transcriptional alteration of cytoskeletal genes induced by microcystins in three organs of rats. *Toxicol* 55:1378-1386. **2010** [IF 2.12]