

Curriculum Vitae

Zhang Xuezheng Ph.D



Family Name: Zhang	Professional address: College of
Given Name: Xuezheng	Fisheries, Huazhong Agricultural
Date of Birth: Sep.4, 1974	University
Place of Birth: Linyi, China	Wuhan, 430070
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ACADAMIC RANK AND POSITION

2009-Present	Associate professor in aquaculture and aquatic toxicology, College of Fisheries, Huazhong Agricultural University
2004-2009	Lecturer in aquaculture, College of Fisheries, Huazhong Agricultural University

EDUCATION

2010-2011	Sichuan International Studies University (SISU) <ul style="list-style-type: none">● Advanced English Training Program
2005-2008	College of Fisheries, Huazhong Agricultural University <ul style="list-style-type: none">● Ph.D. in Aquaculture● Thesis titled “Comparative research on the toxic effects of microcystins to fish and mammal”

- 2000-2003 **College of Fisheries, Huazhong Agricultural University**
- MA.Sci. in Aquaculture
 - Thesis titled “Studies on intensive rearing of fries of large-mouth catfish, *Silurus Soldatovi Meridionalis* (Chen) in fixed bed biofilter purgative close recirculation system”
- 1995-1999 **College of Fisheries, Huazhong Agricultural University**
- BA. in Aquaculture
 - Thesis titled “Quantification analysis on morphology of southern catfish”

PROFESSIONAL EXPERIENCE

1999-Present Work for the College of Fisheries, Huazhong Agricultural University

- **Teaching**
 - Teaching Zoology and Zoological Experiment for undergraduates.
 - Teaching Animal Physiology Experiment for undergraduates.
 - Teaching Advances in Fisheries Science for graduates
- **Research**
 - Research on toxic effects of cyanobacterial bloom and microcystins on fish and mammal
 - Research on toxic effects of microcystins on embryonic development of southern catfish
 - Research on transcriptional changes of apoptosis related gene in zebrafish exposed to microcystins
 - Research on effects of temperature on HSPs, CYPs, GSTs gene transcription
 - Research on the skills in artificial spawning of southern cat fish

HONORS AND AWARDS

- The Award for The Best Doctoral Dissertation of China
- Project supported by the National Science Foundation for Distinguished Young Scholars of Hubei Province

- Ten Outstanding Youth Post Expert of Huazhong Agricultural University
- The Award for The Best Guidance on Undergraduate Science and Technology Innovation of Huazhong Agricultural University

RESEARCH FILEDS

- Environmental biology of fishes: in particular research into the effect of organic and chemical compounds (such as algae toxins and pesticides) and natural environmental factors (such as photoperiod and temperature) on development, growth, behavior, antioxidant system, reproduction and related gene expressions of fishes.
- Aquatic toxicology: mainly focused on toxic mechanism of cyanobacterial bloom and microcystins on embryonic development, hematological parameters, transcriptional alterations of related gene and protein expression.
- Aquaculture: southern catfish culture, study on the patterns of pond culture, breeding skills, and artificial reproduction.
- Investigation of fish resources of lakes.

EXPERIMENTAL TECHNIQUES

- Excellent skills in fish breeding, fish surgery, artificial spawning
- Familiar with the methodology of ecology, toxicology, and molecular biology.

RESEARCH GRANTS AWARDED

- National Natural Science Foundation of China (2009-2011)
- Project supported by the National Science Foundation for Distinguished Young Scholars of Hubei Province

SELECTED ARTICALES

1. **Zhang, X.**, Xie, P., Li, D., Shi, Z., 2007. Haematological and plasma biochemical responses of crucian carp (*Carassius auratus*) to intraperitoneal injection of extracted microcystins with the possible mechanisms of anemia. *Toxicon*. 49, 1150-1157.
2. **Zhang, X.**, Xie, P., Wang, W., Li, D., Li, L., Tang, R., Lei, H., Shi, Z., 2008. Dose dependent effects of extracted microcystins on embryonic development, larval growth and histopathological changes of southern catfish *Silurus meridionalis*. *Toxicon*. 51, 449-456.
3. **Zhang, X.**, Xie, P., Wang, W., Li, D., Shi, Z., 2008. Plasma biochemical responses of the omnivorous crucian carp *Carassius auratus* to crude cyanobacterial extracts. *Fish Physiol Biochem*. 34, 323–329.
4. **Zhang, X.**, Xie, P., Li, D., Tang, R., Lei, H., Zhao, Y., 2009. Time-dependent oxidative stress responses of crucian carp (*Carassius auratus*) to intraperitoneal injection of extracted microcystins. *Bull Environ Contam Toxicol*, 82:574–578.
5. **Zhang, X.**, Li, D. 2009. Effects of microcystins on some physiological and biochemical parameters of blood in rabbit. *Journal of Huazhong Agricultural University*. 28, 183-187. (in Chinese)
6. Liang, H., **Zhang, X.**, (), Liang, Y. 2009. Threatened fishes of the world: *Leptobotia elongata* (Bleeker, 1870) (Botiidae) *Environ. Biol. Fish.* 85, 287-288.
7. **Zhang, X.**,(), Li, D.2009. Threatened fishes of the world: *Acipenser schrenckii* Brandt, 1869 (Acipenseridae). *Environ. Biol. Fish.* 85, 187.
8. **Zhang, X.**, Xie, P., Ji, W., Zhang, H., Zhang, W. 2011. Studies on the toxic effects of microcystin-LR on the zebrafish (*Danio rerio*) under different temperatures. *J. Appl. Toxicol.* 31, 561–567.
9. **Zhang, X.**, Xie, P., Li, D., Shi, Z., Wang, J., Yuan, G., Zhao, Y., Tang, R.2011. Anemia induced by repeated exposure to cyanobacterial extracts with explorations of underlying mechanisms. *Environ. Toxicol.* 26, 472-9.
10. Li, D., Xie, P., **Zhang, X.** 2008. Changes in plasma thyroid hormones and cortisol levels in crucian carp (*Carassius auratus*) exposed to the extracted microcystins. *Chemosphere* 74, 13–18.
11. Zhao, Y., Xie, P., **Zhang, X.** 2009. Oxidative stress response after prolonged exposure of domestic rabbit to a lower dosage of extracted microcystins. *Environ*

- Toxicol Phar.* 27,195-199.
12. Li, D., Xie, P., **Zhang, X.**, Zhao, Y. 2009. Intraperitoneal injection of extracted microcystins results in hypovolemia and hypotension in crucian carp (*Carassius auratus*). *Toxicon.* 53 , 638-644.
 13. Zhao, Y., Xie, P., **Tang, R.**, **Zhang, X.**, Li, L., Li, D. 2008. In vivo studies on the toxic effects of microcystins on mitochondrial electron transport chain and ion regulation in liver and heart of rabbit. *Comp. Biochem. Phys, Part C* 148, 204–210.
 14. Sun, Y., Tang, R., Li, D., **Zhang, X.**, Fu, J., Xie, P. 2008. Acute effects of microcystins on the transcription of antioxidant enzyme genes in crucian carp *Carassius auratus*. *Environ Toxicol.* 23 , 145-152.
 15. Lei, H., Xie, P., Chen, J., Liang, G., Dai, D., **Zhang, X.** 2008. Distribution of toxins in blood, heart, gill, liver, gallbladder, intestine, spleen, gonad, brain and kidney of the omnivorous crucian carp intraperitoneally injected with hepatotoxic microcystins. *Environ Toxicol Chem.* 27, 1167–1174.
 16. Li, G., Chen, J., Xie, P., Jiang, Y., Wu, L., **Zhang, X.** 2011. Protein profiles in zebrafish (*Danio rerio*) embryos exposed to microcystin-LR. *Proteomics*11, 2003-2018.