



## 研究队伍

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#### 简历:

研究方向: 水生态毒理学主持的项目有: 国家自然科学基金项目(20207011)“腐殖酸和胶体对疏水有机污染物两相分配和生物吸收影响”; 国家自然科学基金项目(50378089)“饮用水生产过程中微量有机污染及其毒性毒理变化规律”; 北京市自然科学基金项目(8052018): 北京市不同水体中环境内分泌干扰物分布及生物效应研究; 北京市科技计划重大项目“北京市饮用水安全保障关键技术和系统应用示范”的课题(D0605004040221)“自来水水质安全评价指标方法与突发事件的水质保障技术及应用。国家高技术研究发展计划(863计划)探索导向专题课题(2007AA06Z414)“核受体超家族检测化学品和环境样品内分泌干扰物效应的新技术”。国家自然科学基金项目: 水处理工艺过程中环境内分泌干扰物的变化规律(50778170)。中国科学院知识创新工程重大项目子课题: 景观水体再生水回用生态风险评价、安全保障关键技术与示范(KZCX1-YW-06-02)。在国内外刊物上公开发表论文90余篇, 其中SCI论文25篇。招生专业: 环境科学。欢迎具有生物化学和毒理学背景的学生报考。

#### 研究方向:

Aquatic toxicology. Short term bioassays for the evaluation of biological effects of environmental pollutants, in particular the persistent organic pollutants and endocrine disruptor chemicals in aquatic environment.

#### 专家类别:

研究员

职务:

社会任职:

#### 承担科研项目情况:

- 1) Mei Ma, “Influence of fulvic acid and colloid on partitioning hydrophobic organic contaminants and their bioconcentration in biota”, Grant No. 20207011, supported by National Natural Science Foundation of China, 210,000 RMB, 2002-2005
- 2) Mei Ma, “The toxicity variation of organic pollutants during the drinking water treatment processes”, Grant No. 50378089, supported by National Natural Science Foundation of China, 250,000 RMB, 2003-2006
- 3) Mei Ma, “The distribution and the biological effects of endocrine disruptors in Beijing city”, Grant No. 8052018, supported by Beijing Natural Science foundation, 120,000 RMB, 2004-2007
- 4) Mei Ma, “Development of safety evaluation parameters of tap water and applied study of water quality insurance technologies for early warning sudden water pollution accident”, Grant No. D0605004040221, supported by Beijing municipal science and technology commission, 1200,000 RMB, 2005-2007
- 5) Mei Ma, “New Technology study of using nuclear receptor superfamily for assessing the chemicals and environmental pollutants with different mode of endocrine disruptor action” National High Technology Research and Development Program of China (863 Program), Grant No. 2007AA06Z414, supported by the ministry of Science and Technology of the People’s Republic of China, 940,000 RMB, 2007-2010
- 6) Mei Ma, “Variation of endocrine disruptors with different mode of action in water treatment processes”, Grant No. 50778170, supported by National Natural Science Foundation of China, 300,000 RMB, 2008-2010

7) Mei Ma, "Molecular toxicology and Screening technology of toxic pollutants" Grant No. KZCX2-YW-Q02-05, Knowledge Innovation Program of the Chinese Academy of Sciences

获奖及荣誉:

代表论著:

1. Mei Ma, Zhonghua Tong and Zijian Wang, 1999. Acute toxicity bioassay using fresh water luminescent bacterium *Vibrio-qinghaiensis* sp. Nov.--Q67. *Bullutin Environmental Contamination and Toxicology*, 62(3): 247-253.
2. Mei Ma, Zijian Wang, Wei Shang, Chunxia Wang and Wenhua Wang. 2000. Toxicological evaluation of drinking water in Beijing Waterworks. *J. Environmental Science and Health (A)*, 35(10): 1817-1832.
3. M.Ma, W. Zhu, Z. Wang and G.J.Witkamp, Accumulation, Assimilation and Growth Inhibition of Cu on Freshwater Alga (*Scenedesmus subspicatus* 86.81 SAG) in the Presence of EDTA and fulvic acid, *Aquatic Toxicology*, 2003, 63: 221-228
4. Mei Ma, Kaifeng Rao, and Zijian Wang, Mutagenicity of Water and Sediment Extracts from the Yongdinghe Watershed, *Journal of Environmental Science and Health-Part A*, 2003, 38(9): 1781-1791
5. Mei Ma, Wang chunxia, Zijian Wang, Assessing taoxicities of hydrophobic organic pollutants in Huaihe river by using two types of sampling, *Journal of Environmental Science and Health-Part A*, 2005, 40(1): 331-342
6. Ma Mei, Jian Li, Wang Zijian. Assesing the Detoxication Efficiencies of Advanced Tretment Technologies for Secondary Sewage Effluents by using a Battery of Biomakers. *Arch. Environ. Contam. Toxicol.* 49, 480 - 487 (2005)
7. Mei Ma, Kaifeng Rao, Zijian Wang. Occurrence of estrogenic effects in sewage and industrial wastewater in Beijing China, *Environmental Pollution*, 2007, 147: 331-336
8. Jian Li, Mei Ma, Zijian Wang, In vitro profiling of endocrine disrupting effects of phenols, *Toxicology in Vitro* 24 (2010) 201 - 207
9. Li, Na; Wang, Dong-Hong; Zhou, Yi-Qi; Ma, Mei; Li, Jian; Wang, Zi-Jian. 2010. Dibutyl Phthalate Contributes to the Thyroid Receptor Antagonistic Activity in Drinking Water Processes. *Environmental Science & Technology*, 44(17): 6863-6868.