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工作部门：生物工程学院

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主要研究方向：

1. 外源物质对生物体内分泌、神经及免疫系统影响的分子机理研究
2. 生物钟在衰老、抑郁症等生理功能方面的机理研究



目前主要研究项目：

1. 微生物农药发现及其生态安全研究（科技部重大专项课题）
2. 白兰氏鸡精对预防代谢综合症的影响（与新加坡公司的国际合作课题）
3. 白兰氏鸡精对哺乳动物内部生物节律的调控作用（与新加坡公司的国际合作课题）

发表的论文、专著、教材：

以浙江工业大学为工作单位发表 SCI 论文（2007~2017 年 3 月期间；Fu, Z.: 傅正伟；*通讯作者）
（SCI 论文 119 篇，其中通讯作者 JCR Q1 区 48 篇，Q2 区 34 篇，ESI 高被引论文 4）

JCR Q1 区论文 (共 55 篇, 其中作为通讯作者 48 篇, 其他 7 篇), 2015 年以来的如下:

1. Jin, Y., Wu, S., Zeng, Z., **Fu, Z.*** Effects of environmental pollutants on gut microbiota. *Environmental Pollution*, 2017, 222:1-9
2. Wang, X., Gao, X., He, B., Jin, Y., **Fu, Z.*** Cis-bifenthrin causes immunotoxicity in murine macrophages. *Chemosphere*, 2017, 168:1375-1382
3. Wu, T., Jiang, J., Yang, L., Li, H., Zhang, W., Chen, Y., Zhao, B., Kong, B., Lu, P., Zhao, Z., Zhu, J., **Fu, Z.*** Timing of glucocorticoid administration determines severity of lipid metabolism and behavioral effects in rats. *Chronobiology International*, 2017, 34:78-92
4. Hu, Q., Guo, F., Zhao, F., **Fu, Z.*** Effects of titanium dioxide nanoparticles exposure on parkinsonism in zebrafish larvae and PC12. *Chemosphere*, 2017, 173:373-379
5. Asad, M., Lavoie, M., Song, H., Jin, Y., **Fu, Z.**, Qian, H.* Interaction of chiral herbicides with soil microorganisms, algae and vascular plants. *Science of the Total Environment*, 2017, 580:1287-1299
6. Liu, Z., **Fu, Z.**, Jin, Y.* Immunotoxic effects of atrazine and its main metabolites at environmental relevant concentrations on larval zebrafish (*Danio rerio*). *Chemosphere*, 2017, 166:212-220
7. Qian, H., Zhu, K., Lu, H., Lavoie, M., Chen, S., Zhou, Z., Deng, Z., Chen, J., **Fu, Z.*** Contrasting silver nanoparticle toxicity and detoxification strategies in *Microcystis aeruginosa* and *Chlorella vulgaris*: New insights from proteomic and physiological analyses. *Science of the Total Environment*, 2016, 572:1213-1221
8. Jin, Y., Wu, Y., Zeng, Z., Jin, C., Wu, S., Wang, Y., **Fu, Z.*** Exposure to oral antibiotics induces gut microbiota dysbiosis associated with lipid metabolism dysfunction and low-grade inflammation in mice. *Toxicological Sciences*, 2016, 154:140-152
9. Jin, C., Zeng, Z., **Fu, Z.**, Jin, Y.* Oral imazalil exposure induces gut microbiota dysbiosis and colonic inflammation in mice. *Chemosphere*, 160:349-358
10. Sun, C., Chen, S., Jin, Y., Song, H., Ruan, S., **Fu, Z.**, Asad, M., Qian, H.* Effects of the herbicide imazethapyr on photosynthesis in PGR5- and NDH-deficient *Arabidopsis thaliana* at the biochemical, transcriptomic, and proteomic levels. *Journal of Agricultural and Food Chemistry*, 2016, 64:4497-4504
11. Jin, Y., Zhu, Z., Wang, Y., Yang, E., Feng, X., **Fu, Z.*** The fungicide imazalil induces developmental abnormalities and alters locomotor activity during early developmental stages in zebrafish. *Chemosphere*, 2016, 153:455-461
12. Bai, X., Song, H., Lavoie, M., Zhu, K., Su, Y., Ye, H., Chen, S., **Fu, Z.**, Qian, H.* Proteomic analyses bring new insights into the effect of a dark stress on lipid biosynthesis in *Phaeodactylum tricornutum*. *Scientific Reports*, 2016, 6:25494
13. Liu, Z., Wang, Y., Zhu, Z., Yang, E., Feng, X., **Fu, Z.**, Jin, Y.* Atrazine and its main metabolites alter the locomotor activity of larval zebrafish (*Danio rerio*). *Chemosphere*, 2016, 148:163-170
14. Jin, Y., Liu, L., Zhang, S., Tao, B., Tao, R., He, X., Qu, L., Huang, J., Wang, X., **Fu, Z.*** Chromium alters lipopolysaccharide-induced inflammatory responses both in vivo and in vitro. *Chemosphere*, 2016, 148:436-443
15. Jin, Y., Liu, L., Zhang, S., He, R., Wu, Y., Chen, G., **Fu, Z.*** Cadmium exposure to murine macrophages decreases their inflammatory responses and increases their oxidative stress. *Chemosphere*, 2016, 144:168-175 (**ESI高被引**)
16. Xie, J., Bai, X., Lavoie, M., Lu, H., Fan, X., Pan, X., **Fu, Z.**, Qian, H.* Analysis of the Proteome of the Marine Diatom *Phaeodactylum tricornutum* Exposed to Aluminum Providing Insights into Aluminum Toxicity Mechanisms. *Environmental Science and Technology*, 2015, 49:11182-11190
17. Qian, H., Lu, H., Ding, H., Lavoie, M., Li, Y., Liu, W., **Fu, Z.*** Analyzing *Arabidopsis thaliana* root

proteome provides insights into the molecular bases of enantioselective imazethapyr toxicity. *Scientific Reports*, 2015, 5:11975

18. Jin, Y., Liu, Z., Peng, T., **Fu, Z.*** The toxicity of chlorpyrifos on the early life stage of zebrafish: A survey on the endpoints at development, locomotor behavior, oxidative stress and immunotoxicity. *Fish and Shellfish Immunology*, 2015, 43:405-414 (**ESI高被引**)
19. Jin, Y., Zeng, Z., Wu, Y., Zhang, S., **Fu, Z.*** Oral exposure of mice to carbendazim induces hepatic lipid metabolism disorder and gut microbiota dysbiosis. *Toxicological Sciences*, 2015, 147:116-126
20. Wu, T., Yao, C., Tsang, F.*, Huang, L., Zhang, W., Jiang, J., Mao, Y., Shao, Y., Kong, B., Singh, P., **Fu, Z.*** Facilitated physiological adaptation to prolonged circadian disruption through dietary supplementation with essence of chicken. *Chronobiology International*, 2015, 32(10):1458-1468

科研成果及专利：

1. 过氧化氢在制备微囊藻毒素抑制剂中的应用 (ZL 2011 1 0032486.3)，发明，授权 2013.6
2. 无外界动力推动的离子交换树脂层析装置 (ZL 2013 2 0542803.0)，实用新型，授权 2014.3
3. 无外界动力推动的离子交换树脂层析方法及装置 (ZL 2013 1 0394008.6)，发明，授权 2015.3
4. 一种提高三角褐指藻脂质积累的培养方法 (ZL 2014 1 0092191.9)，发明，授权 2016.3

研究生培养等教学情况：

已培养研究生数十人，学生多次入选“学校研究生十佳学术之星”，两人获浙江省研究生优秀毕业论文。

奖励和荣誉：

浙江省优秀教师暨浙江省高校优秀教师、省三育人先进个人、省高校中青年学科带头人、省钱江高级人才“特聘教授”、省新世纪 151 人才工程第一层次、日本金泽大学客座教授、日本星药科大学特任教授。

其它： 国家精品视频公开课“生物钟与健康”主讲人