



姓名：张建勇

职称：副教授

联系方式：

手机：151\*\*\*\*6267

邮箱：zhangjy2003@sdut.edu.cn

### 个人基本情况

中国海洋大学博士，副教授，美国印第安纳大学访问学者。主持国家级课题 1 项，教育厅课题 1 项，校城融合项目 1 项。校级教学研究项目 6 项。第一和通讯发表 SCI 论文 15 篇。近三年多次指导国家级和校级大学生创新项目，以及省级大学生竞赛并获奖。

### 主要研究方向及简介

全氟化合物对涡虫的毒性影响及其毒理机制，从氧化应激、细胞凋亡和基因表达及其调控等方面评估全氟化合物对人类的健康风险。

### 开设课程

主讲《分子生物学与基因工程》和《合成生物学》。

### 近年的项目、论文、专利、获奖

#### 项目：

[1] PFOA 对再生涡虫氧化应激和细胞凋亡的影响及其机理研究，国家自然科学基金，2013-2015，主持。

[2] 蓝莓花青素缓解 PFOA 诱导涡虫毒性的机制研究，山东省高等学校科技计划项目，2016-2018，主持。

[3] 新型抗菌空气净化器的研制与应用，张店区校城融合发展计划项目，2018-2020，主持。

#### 论文：

[4] Yuan Zuoqing, Zhang Jianyong\*, Zhang Yanlong, Zhen Hui, Sun Yuqian. The Effect of Perfluorooctanoic Acid on the planarian *Dugesia japonica*. Polish Journal of

Environmental Studies. 2015, 24(2): 801-807. (通讯作者)

[5]Yuan Zuoqing, Zhang Jianyong\*, Tu Changchao, Wang Zhijing, Xin Wenpeng. The protective effect of blueberry anthocyanins against perfluorooctanoic acid-induced disturbance in planarian (*Dugesia japonica*). *Ecotoxicology and Environmental Safety*. 2016, 127: 170-174. (通讯作者)

[6]Yuan Zuoqing, Zhang Jianyong\*, Zhao Baoying, Miao Zili, Wu Xiaokang. Effects of perfluorooctanoic acid on neural genes expression and neuronal morphology in the planarian *Dugesia japonica*. *Chemistry and Ecology*. 2016, 32(6): 575-582. (通讯作者)

[7]Yuan Zuoqing, Zhang Jianyong\*, Liu Tao. Enhancement of polysaccharides accumulation in *Dendrobium officinale* by exogenously applied methyl jasmonate. *Biologia Plantarum*, 2017, 61 (3): 438-444. (通讯作者)

[8]Yuan Zuoqing, Zhao Baoying, Zhao Lili, Li Jing, Liu Hongbin, Zhang Jianyong\*. Effects of perfluorooctanoic acid and perfluorooctane sulfonate on acute toxicity, superoxide dismutase and cellulase activity in the earthworm *Eisenia fetida*. *Environmental Science and Pollution Research*, 2017, 24: 18188–18194. (通讯作者)

[9]Zuoqing Yuan, Zili Miao, Xiao ning Gong, Baoying Zhao, Yuanyuan Zhang, Hongdou Ma, Jianyong Zhang\*, Bosheng Zhao\*. Changes on lipid peroxidation, enzymatic activities and gene expression in planarian (*Dugesia japonica*) following exposure to perfluorooctanoic acid. *Ecotoxicology and Environmental Safety*, 2017, 145, 564-568. (通讯作者)

[10]Zuoqing Yuan, Xinxin Shao, Zili Miao, Bosheng Zhao, Ziyang Zheng, Jianyong Zhang\*. Perfluorooctane sulfonate induced neurotoxicity responses associated with neural genes expression, neurotransmitter levels and acetylcholinesterase activity in planarians *Dugesia japonica*. *Chemosphere*, 2018, 206, 150-156. (通讯作者)

[11]Baoying Zhao, Xinxin Shao, Bosheng Zhao, Zuoqing Yuan\*, Jianyong Zhang. Application of blueberry anthocyanins reduce perfluorooctane sulfonate toxicity on planarian (*Dugesia japonica*) in locomotion, regeneration, gene expression and contents. *Environmental Science and Pollution Research*, 2018, 25(22), 22095-22105.

[12]Jianyong Zhang, BinWang, Bosheng Zhao, Yanqing Li, Xiuyun Zhao, Zuoqing

Yuan\*. Blueberry anthocyanin alleviate perfluorooctanoic acid-induced toxicity in the planarian (*Dugesia japonica*) by regulating oxidative stress biomarkers, ATP contents, DNA methylation and mRNA expression. *Environmental Pollution*, 2019, 245, 957-964.

[13]Xinxin Shao, Baoying Zhao, Bin Wang, Bosheng Zhao, Yi Zhu, Zuoqing Yuan\*, Jianyong Zhang\*. Neuroprotective effects of blueberry anthocyanins against perfluorooctanoic sulfonate on planarian *Dugesia japonica*. *Ecotoxicology and Environmental Safety*, 2019, 175, 39-47. (通讯作者)

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