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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. 代谢工程
2. 酶工程



**目前研究项目:**

1. 酪氨酸酚裂解酶催化合成左旋多巴的研究
2. 代谢改造大肠杆菌生产 L-蛋氨酸的研究
3. 转氨酶的挖掘、改造及应用

**发表的论文、专著、教材:**

1. **Xiaoling Tang**, et al. Engineering the fatty acid metabolic pathway in *Saccharomyces cerevisiae* for advanced biofuel production. (2015) *Metabolic*

Engineering Communications 2: 58-66.

2. **Xiaoling Tang**, et al. Enhanced production of fatty alcohols by engineering the TAGs synthesis pathway in *Saccharomyces cerevisiae*. (2014) *Biotechnology and Bioengineering* 112: 386-392.

3. **Xiaoling Tang**, et al. Investigation of fatty acid accumulation in the engineered *Saccharomyces cerevisiae* under nitrogen limited culture condition. (2014) *Bioresource Technology* 162: 200-206.

4. **Xiaoling Tang**, et al. Comparative proteomics analysis of engineered *Saccharomyces cerevisiae* with enhanced biofuel precursor production. (2013) *PLoS One* 8: e84661.

5. **Xiaoling Tang**, et al. Metabolic engineering for enhanced fatty acids synthesis in *Saccharomyces cerevisiae*. (2013) *Metabolic Engineering* 16: 95-102.

6. **Xiaoling Tang**, et al. Cloning, screening and characterization of enantioselective ester hydrolases from *Escherichia coli* K-12. (2011) *World Journal of Microbiology and Biotechnology* 27: 129-136.

7. **Xiaoling Tang**, et al. LC-MS based proteomic analysis for biofuel production. (2012) *Liquid Chromatography: Principles, Technology and Applications Chapter XI*. (Nova Science Publishers).

### 科研成果及专利：

1. 通过定向进化手段获得的 RSP\_2728 酯酶突变基因及酯酶在扁桃酸甲酯拆分反应中的应用. (ZL201010186865.3).
2. 消旋 1-苯基乙醇类化合物的酶拆分方法. (ZL200810162671.2).

### **研究生培养等教学情况：**

担任《基因工程》硕士生课的主讲教师

担任《生物化学》本科生可的主讲讲师

### **奖励和荣誉：**

新型固定化酯酶的开发及用于维生素 A 棕榈酸酯的酶法工业化制备，中国石油和化学工业联合会，技术发明二等奖，2015.10.28

浙江工业大学青年教师教学技能竞赛“十佳”