



人才队伍

您现在的位置: 首页 > 中文 > 人才库

- 概况
- 研究员
- 兼职研究员
- 产业研究员
- 副研究员、高级工程师

人才库

姓名	田朝光	性别	男
专家类别	N/A	职称	研究员
学历	博士	电话	022-84861947
传真	022-84861948	电子邮件	tian_cg@tib.cas.cn
地址	天津空港经济区西七道32号	邮编	300308



简历

2005 中科院遗传发育所 博士毕业;

2005-2009 加州大学伯克利分校博士后;

2009. 12-至今, 中科院天津工业生物技术研究所研究员。

研究方向:

课题组主要以丝状真菌为研究对象, 利用合成生物学理念, 结合功能基因组学, 分子遗传学和代谢工程技术, 围绕工业蛋白质和生物基化学品发酵生产的通用底盘细胞构建开展基础和应用研究。

主要研究方向有:

- (1) 丝状真菌蛋白质表达系统和大宗工业酶菌种构建;
- (2) 生物炼制机理和生物基大宗化学品细胞工厂构建。

代表论著:

1. Li J, Lin L, Sun T, Xu J, Ji J, Liu Q, Tian C*. Direct production of commodity chemicals from lignocellulose using *Myceliophthora thermophila*. **Metabolic Engineering**, 2019, 10.1016/j.mymben.2019.05.007
2. Liu Q, Li J, Gao R, Li J, Ma G, Tian C*. CLR-4, a novel conserved transcription factor for cellulase gene expression in ascomycete fungi. **Mol Microbiol**, 2019, 111: 2, 373-394
3. Gu S, Li J, Chen B, Sun T, Liu Q, Xiao D, Tian C*. Metabolic engineering of the thermophilic filamentous fungus *Myceliophthora thermophila* to produce fumaric acid. **Biotechnol Biofuels**, 2018, 11: 323
4. Lin L, Sun Z, Li J, Chen Y, Liu Q, Sun W, Tian C*. Disruption of *gul-1* decreased the culture viscosity and improved protein secretion in the filamentous fungus *Neurospora crassa*. **Microb Cell Fact**, 2018, 17 (1): 96
5. Xu G, Li J, Liu Q, Sun W, Jiang M, Tian C*. Transcriptional analysis of *Myceliophthora thermophila* on soluble starch and role of regulator AmyR on polysaccharide degradation. **Bioresour Technol**, 2018, 265: 558-562
6. Wang B, Li J, Gao J, Cai P, Han X, Tian C*. Identification and Characterization of the Glucose Dual-Affinity Transport System in *Neurospora crassa*: Pleiotropic Roles in Nutrient Transport, Signaling, and Carbon Catabolite Repression. **Biotechnol Biofuels**, 2017, 10: 17
7. Liu Q, Gao R, Li J, Lin L, Zhao J, Sun W, Tian C*. Development of a genome-editing CRISPR/Cas9 system in thermophilic fungal *Myceliophthora* species and its application to hyper-cellulase production strain engineering. **Biotechnol Biofuels**, 2017, 10: 1
8. Fan F, Ma G, Li J, Liu Q, Benz JP, Tian C*, Ma Y. Genome-wide analysis of the endoplasmic reticulum stress response during lignocellulase production in *Neurospora crassa*. **Biotechnol Biofuels**. 2015, 8: 66

9. Li J, Xu J, Cai P, Wang B, Ma Y, Benz JP*, **Tian C***. The functional analysis of two related L-arabinose transporters from filamentous fungi reveals promising characteristics for improved pentose utilization in yeast. **Appl Environ Microbiol**, 2015, 81 (12): 4062- 4070
10. Wang B, Cai P, Sun W, Li J, **Tian C***, Ma Y. A transcriptomic analysis of *Neurospora crassa* using five major crop residues and the novel role of the sporulation regulator *rca- 1* in lignocellulase production. **Biotechnol Biofuels**, 2015, 8: 21
11. 10. Xu J, Li J, Lin L, Liu Q, Sun W, Huang B, **Tian C***. Development of genetic tools for *Myceliophthora thermophila*. **BMC Biotechnol**, 2015, 15: 35
12. Pei X, Fan F, Lin L, Chen Y, Sun W, Zhang S*, **Tian C***. Involvement of the adaptor protein 3 complex in lignocellulase secretion in *Neurospora crassa* revealed by comparative genomic screening. **Biotechnol Biofuels**, 2015, 8: 124
13. Cai P, Wang B, Ji J, Jiang Y, Wan L, **Tian C***, Ma Y. The Putative Cellodextrin Transporter-like Protein CLP1 Is Involved in Cellulase Induction in *Neurospora crassa*. **J Biol Chem**, 2015, 290: 788-796

承担科研项目情况:

先后主持国家重点研发计划、基金委国际合作重点项目、面上项目、中科院先导专项课题以及企业委托重大项目等各类科研任务近20项。已发表论文36篇，发表期刊包括国际著名杂志Science、PNAS等。申请专利15项，包括PCT和美国、欧盟、巴西等国专利。

获奖及荣誉:



Copyright 2012 All Rights Reserved 中国科学院天津工业生物技术研究所 版权所有

通讯地址: 天津空港经济区西七道32号, 邮编: 300308

电话: 022-84861997/84861977, 传真: 022-84861926, 邮箱: tib_zh(AT)tib.cas.cn

京ICP备05002857号