

学校及社会兼职：浙江工业大学发酵工程研究所所长，浙江省重中之重生物工程重点学科发酵工程团队负责人，浙江工业大学天台研究院院长

主要研究方向：抗生素的结构修饰、生物催化与生物转化、生物分离工程

主要成果与荣誉：

浙江省高校优秀共产党员（2016）；

浙江省万人好党员（2016）；

科技部中青年科技创新领军人才（2015）；

台州市 500 精英人才（2015）；

浙江省“新世纪”151 第一层次人才；

2008 年获得国家科技发明二等奖 1 项 (3/5)；

2007 年获得浙江省科学技术一等奖 1 项（3/11）、中国石化协会技术发明一等奖 1 项（3/5）；

2006 年获得浙江省高校成果一等奖 1 项 (1/5)、二等奖 1 项（3/5）；

2004 年被评为浙江工业大学首批青年学术骨干；

主要代表性论文论著：

1. Lu Yuele, Chen Xiaolong*. Stereoselective Behavior of the Chiral Herbicides Diclofop-Methyl

and Diclofop During the Soy Sauce Brewing Process. *Chirality*, 2016, 28: 78-84;

2. Lu Yuele, Chen Xiaolong*. Stereoselective Behavior of Fungicide Benalaxyl during Grape Growth and Wine-making Process. *Chirality*, 2016, 28: 394-398.

3. Xiao-Long Chen*, Li-Jun Zhang, Fu-Ge Li, Yong-Xian Fan, Wei-Ping Wang, Bao-Ju Li and Yin-Chu Shen. Synthesis and antifungal evaluation of a series of maleimides. *Pest Management Science*, 2015, 71: 433-440.

4. Chen Xiaolong *; Luo Xinrong ; Cao Feifei ; Zhu Tingheng. Molecular cloning, expression of CPR gene from *Rhizopus oryzae* into *Rhizopus nigricans* and its application in the 11 α -hydroxylation of 16 α ,17-epoxy-progesterone. *Enzyme and Microbial Technology*, 2014, 66: 28-34.

5. Zhenzhong Shen, Yongxian Fan, Fuge Li, Xiaolong Chen*, Yinchu Shen. Synthesis of a series of N-substituted dimethylmaleimides and their antifungal activities against *Sclerotinia sclerotiorum*. *Journal of Pest Science*, 2013, 86, 363-360.

6. Yongxian Fan, Yang Yu, Xiaoqing Jia, Xiaolong Chen*, Yinchu Shen. Cloning, expression and medium optimization of validamycin glycosyltransferase from *Streptomyces hygroscopicus* var. *jinggangensis* for the biotransformation of validoxylamine A to produce validamycin A using free resting cells. *Bioresource Technology*, 2013, 131: 13-20.

7. RuiGuo, Yongxian Fan, Xiaolong Chen*, Yinchu Shen. Chiral resolution of racemic p-methylsulfonylphenyl serine ethyl ester with lipases: The mechanism of side reaction and its suppression. *Journal of Agricultural and Food Chemistry*, 2013, 61: 152-166.

8. Wei Li, Yongxian Fan, Zhenzhong Shen, Xiaolong Chen*, Yinchu Shen. Antifungal activity of simple compounds with maleic anhydride or dimethylmaleimide structure against *Botrytis cinerea*. *Journal of Pesticide Science*, 2012, 37: 1-5.

9. Xiaolong Chen, Xiaohui Zhu, Yicheng Ding, Yinchu Shen. Antifungal

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10. Xiao-Long Chen, Yu-Hua Xu, Yu-Guo Zheng, and Yin-Chu Shen. 2010. Improvement of tautomycin production with *Streptomyces spiroverticillatus* by feeding glucose and maleic anhydride. *Biotechnology and Bioprocess Engineering*, 15: 969-974.

11. Xiaolong Chen, Yuguo Zheng, YinchuShen. Bioassay method for the quantitative determination of tautomycin in the fermentation broth with *Sclerotiniasclerotiorum*. *Journal of Rapid Methods and Automation in Microbiology*, 2008, 16: 199-209.

12. Xiaolong Chen, Yuguo Zheng, YinchuShen. Natural Products with Maleic Anhydride Structure: Nonadrides, Tautomycin, Chaetomelic Anhydride and Other Compounds. *Chemical Reviews* 2007, 107: 1777-1830.

13. Xiaolong Chen, Yuguo Zheng, Yinchu Shen. Voglibose (Basen (R) AO-128), one of the most important alpha-glucosidase inhibitors. *Current Medicinal Chemistry* 2006, 13: 109-116.

14. Xiaolong Chen, Yongxian Fan, Yuguo Zheng and Yinchu Shen. Properties and production of valienamine and its related analogues. *Chemical Reviews*, 2003, 103: 1955-1977.

15. Xiaolong Chen, Yuguo Zheng and Yinchu Shen. A new method for the production of valienamine with microbial degradation of acarbose. *Biotechnology Progress*, 2005, 21: 1002-1003.

16. Xiaolong Chen, Yuguo Zheng and Yinchu Shen. Quantitative analysis of valienamine in the microbial degradation of validamycin A after derivatation with p-nitrofluorobenzene by reversed-phase high-performance liquid chromatography. *Journal of Chromatography B*, 2005 824: 341-347.

17. Yuguo Zheng, Xiaolong Chen and Zhao Wang. Microbial biomass production from rice straw hydrolysate in airlift

- bioreactors. *Journal of Biotechnology*, 2005, 118: 413-420.
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19. Yuguo Zheng, Zhao Wang and Xiaolong Chen. Production of extracellular protease from crude substrates with dregs in an external-loop airlift bioreactor with lower ratio of height-to-diameter. *Biotechnology Progress*, 2001, 17: 273-277.
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21. Yuguo Zheng, Xiaolong Chen and Zhao Wang. Production of single-cell protein from hydrolysate of rice hull in external-loop airlift bioreactors. *Environmental Science*, 2000, 21: 85-88.
22. Yuguo Zheng, Zhao Wang and Xiaolong Chen. Citric acid production from the mash of dregs by *Aspergillus niger* in an external-loop airlift bioreactor. *Process Biochemistry*, 1999, 35: 237-242.
23. 方夏, 李琳, 韩君芳, 吴芳, 毛雪萍, 陈小龙. *Botrytis cinerea* 蛋白磷酸酶的分离纯化及酶学性质. *农药*, 2011, 50, 795-798. (工大 A 类)
24. 江琴琴, 陈小龙, 沈寅初. 产灰霉病菌物质的微生物筛选和鉴定. *农药*, 2010, 49: 257-259. (工大 A 类)
25. 陈小龙, 方夏, 沈寅初. 纹枯病菌对井冈霉素的作用机制、抗药性及安全性. *农药*, 2010, 49: 481-483. (工大 A 类)
26. 黄振, 陈小龙. 抗真菌剂两性霉素 B 的结构修饰. *中国抗生素杂志*, 2010, 35: 571-575. (中文核心期刊)

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出版专著有：

陈小龙，陆跃乐，范永仙，沈寅初. Validamycin and its derivatives-
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授权专利有：

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3. 顺丁烯二酸酐类化合物在抗灰霉病方面的应用， ZL201010122309.X,
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4. 一种提高变构霉素发酵产量的制备方法， ZL201010199312.1, 1/5
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6. 一种顺丁烯二酰亚胺类化合物及其制备与应用， ZL201110249201.1,
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7. N-(3,5-二氯苯基)-3,4-二氯-顺丁烯二酰亚胺在抗真菌感染中的应
用， ZL201310462766.7, 1/5
8. G6PDH 基因在提高黑根霉对甾体 C11 α -羟基化能力中的应用及菌株，
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9. 一种 3,4-二氯顺丁烯二酰亚胺化合物及其制备与应用，
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主持的项目有：

1. 国家自然科学基金项目“基因组学法研究马来酰亚胺类化合物抗

Sclerotiniasclerotiorum 机制及作用靶标酶”

2. 浙江省科学厅重大专项（2012C12003-1）“产糖基转移酶基因工程菌株的构建及其在生物催化法生产井冈霉素 A 中的应用”

3. 国家自然科学基金项目（21172198）“基于变构霉素含顺丁烯二酸酐片段的化合物衍生、优化及其抗菌核病菌活性研究”

4. 浙江省科学厅重大专项（2007C12088）“顺丁烯二酸酐结构先导物生物合成及农药活性化合物创制”

5. 浙江自然科学基金项目（编号 M303049）“腺苷蛋氨酸合成酶的基因克隆及其酶学特性研究”

主持企业横向项目 20 余项。

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