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职称：副教授

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学习经历：

2009.09-2013.12, 江南大学 生物工程学院 发酵工程 博士

2005.09-2009.06, 江南大学 国家生命科学与技术基地班 本科

工作经历：

2016.09-至今, 江南大学 生物工程学院 食品科学与技术国家重点实验室 副教授

2014.01-2016.08, 江南大学 生物工程学院 食品科学与技术国家重点实验室 讲师

研究领域：

1. 酶基因挖掘和功能优化
2. 蛋白表达系统构建和发酵过程调控
3. 酶催化和生物转化

主要论著：

近五年发表论文在 *Applied and Environmental Microbiology*、*Bioresource Technology*、*Applied Microbiology and Biotechnology*、*Food Chemistry*、*微生物学报* 等国内外学术期刊发表论文 30 多篇。代表性学术论文如下：

- 1 **Lingqia Su**, Ruoyu Hong, Xiaojie Guo, Jing Wu*, Yongmei Xia. Short-chain aliphatic ester synthesis using *Thermobifida fusca* cutinase. *Food Chemistry*. 2016, 206, 131–136
- 2 **Lingqia Su**, Yan Huang, Jing Wu*. Enhanced production of recombinant *Escherichia coli* glutamate decarboxylase through optimization of induction strategy and addition of pyridoxine. *Bioresource Technology*. 2015, 198: 63–69
- 3 **Lingqia Su**, Yue Ma, Jing Wu*. Extracellular expression of natural cytosolic arginine deiminase from *Pseudomonas putida* and its application in the production of l-citrulline. *Bioresource Technology*. 2015, 196: 176-183

- 4 **Lingqia Su**, Lin'gang Yu, Chenhua Xu, Jing Wu*. Extracellular expression of *Thermobifida fusca* cutinase with pelB signal peptide depends on more than type II secretion pathway in *Escherichia coli*. *Journal of Biotechnology*. 2015. 204:47-52
- 5 **Lingqia Su**, Ruoyu Hong, Jing Wu*. Enhanced extracellular expression of gene-optimized *Thermobifida fusca* cutinase in *Escherichia coli* by optimization of induction strategy. *Process Biochemistry*. 2015. 50(7): 1039-1046.
- 6 **Lingqia Su**, Chenhua Xu, Ronald W Woodard, Jian Chen, Jing Wu*. A novel strategy for enhancing extracellular secretion of recombinant proteins in *Escherichia coli*. *Applied Microbiology and Biotechnology*. 2013.97(15):6705-6713.
- 7 **Lingqia Su**, Ronald W Woodard, Jian Chen, Jing Wu*. Extracellular location of *Thermobifida fusca* cutinase expressed in *Escherichia coli* BL21(DE3) without mediation of a signal peptide. *Applied and Environmental Microbiology*. 2013.79(14):4192-4198.
- 8 **Lingqia Su**, Sheng Chen, Li Yi, Ronald W Woodard, Jian Chen, Jing Wu*. Extracellular overexpression of recombinant *Thermobifida fusca* cutinase by alpha-hemolysin secretion system in *E. coli* BL21(DE3). *Microbial Cell Factories*. 2012.11(1):8.
- 9 Sheng Chen, **Lingqia Su**, Jing Wu*, Jian Chen. Cutinase: characteristics, preparation, and application. *Biotechnology Advances*. 2013. 31(8): 1754–1767
- 10 Yan Huang, **Lingqia Su**, Jing Wu*. Pyridoxine supplementation improves the activity of recombinant glutamate decarboxylase and the enzymatic production of gamma-aminobutyric acid. *Plos One*.2016,10.1371/journal.pone.0157466.

授权专利:

- 1 Jing Wu, **Lingqia Su**, and Jian Chen. A method for enhancing extracellular secretion of recombinant proteins in *Escherichia coli* by co-expressing *Thermobifida fusca* cutinase. 美国 9109212
- 2 吴敬, 洪若宇, **宿玲恰**.一种角质酶在造纸工业中的应用. ZL201310749747.2
- 3 吴敬, **宿玲恰**, 陈坚. 一种应用角质酶进行酯合成的方法. ZL201210581083.9
- 4 吴敬, **宿玲恰**, 陈晟, 陈坚. 一种基质表达 *T. fusca* 角质酶的方法. ZL201210241426.7
- 5 吴敬, **宿玲恰**, 陈晟, 陈坚. 一种将胞内蛋白基质表达的方法和其应用. ZL 201210045965.3
- 6 吴敬, 陈晟, 何洁, **宿玲恰**, 陈坚. 一种宽 pH 作用范围木聚糖酶及其应用. ZL 201210284346.X
- 7 吴敬, 陈晟, **宿玲恰**, 陈坚, 吴丹. 一种高效分泌表达重组角质酶的基因工程

菌及其构建方法. ZL 200910260984.6

承担科研项目

- 1 国家自然科学基金, 环糊精葡萄糖基转移酶催化制备 2-氧- α -D-吡喃葡萄糖基-L-抗坏血酸中的关键问题研究, 2016.1-2018.12
- 2 江苏省自然科学基金, 大肠杆菌重组蛋白胞外分泌的强化及优化, 2014.7-2017.6
- 3 中国博士后科学基金, CGTase 和 IMGase 功能改造以及催化制备糖基化 L-抗坏血酸, 2016.5-2018.4
- 4 江南大学自主科研基金, 共表达具有磷脂水解活性的工具酶强化大肠杆菌重组蛋白胞外表达的分子基础, 2015.1-2016.12

在读硕博士生人数

协助指导博士研究生 2 人, 硕士研究生 7 人。