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师资队伍
王志龙



王志龙 研究员/博士生导师/课题组长

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简历

2004年毕业于上海交通大学，获博士学位

2008年德国赫姆霍兹研究员，客座研究员（DAAD基金资助）

2009年美国伊利诺伊（香槟）大学，访问学者（对方资助）

主要成果/奖励

首创浊点系统萃取发酵（转化）技术，在国家自然科学基金资助下先后开展了麻黄素前体的微生物转化、脂肪酶萃取发酵、和胞内红曲色素萃取发酵的研究。发表SCI期刊论文30多篇，其中交大A/B档论文10多篇。2008年获首届校晨星优秀青年教师奖。

主要研究领域

1. **生物技术药物**: 生物催化是合成复杂结构药物或前体的重要手段。应用浊点系统技术解除生物催化(微生物转化与发酵)过程中存在的底物生物利用度低、底物/产物抑制、产物进一步降解等瓶颈问题。
2. **微生物次级代谢**: 微生物次级代谢受到多种环境因素的调控。应用浊点系统萃取发酵技术改变营养物质的吸收和次级代谢产物的分泌, 进而调控微生物次级代谢的途径及效率。

Representative Publications

1. Zhiqiang Hu, Xuehong Zhang, Zhenqiang Wu*, Hanshi Qi, **Zhilong Wang***. Perstraction of intracellular pigments by submerged cultivation of *Monascus* in nonionic surfactant micelle aqueous solution. **Applied microbiology and biotechnology**. 2012, **94**: 81-89
2. Zhiqiang Hu, Xuehong Zhang, Zhenqiang Wu, Hanshi Qi, **Zhilong Wang***. Export of intracellular *Monascus* pigments by two-stage microbial fermentation in nonionic surfactant micelle aqueous solution. **Journal of biotechnology**. 2012, **162**: 202-209
3. Biyu Kang, Xuehong Zhang, Zhenqiang Wu, Hanshi Qi, **Zhilong Wang***. Solubilization capacity of nonionic surfactant micelles strong influence on export of intracellular pigments in *Monascus* fermentation. **Microbial biotechnology**. 2013, **6(5)**: 540-550
4. Biyu Kang, Xuehong Zhang, Zhenqiang Wu, Hanshi Qi, **Zhilong Wang***. Effect of pH and nonionic surfactant on profile of intracellular and extracellular *Monascus* pigments. **Process biochemistry**, 2013, **48**: 759-767
5. Biyu Kang, Xuehong Zhang, Zhenqiang Wu, **Zhilong Wang***, Sunghoon Park. Production of citrinin-free *Monascus* pigments by submerged culture at low pH. **Enzyme and microbial technology**, 2014, **55**: 50-57
6. Lingjie Shen, Xuehong Zhang, Mingzhu Liu, **Zhilong Wang***. Microemulsion extraction of *Monascus* pigments from nonionic surfactant using high polarity of diethyl ether as excess oil phase. **Separation science and technology**, 2014, **49**: 2346-2351
7. Lingjie Shen, Xuehong Zhang, Mingzhu Liu, **Zhilong Wang***. Transferring of red *Monascus* pigments from nonionic surfactant to hydrophobic ionic liquid by novel microemulsion extraction. **Separation and purification technology**, 2014, **138**: 34-40

8. Xu Xiong, Xuehong Zhang, Zhenqiang Wu, **Zhilong Wang***. Optimal selection of agricultural products to inhibit citrinin production during submerged culture of *Monascus anka*. **Biotechnology and bioprocess engineering**, 2014, **19**:1005–1013
9. Xu Xiong, Xuehong Zhang, Zhenqiang Wu, Zhilong Wang*. Accumulation of yellow *Monascus* pigments by extractive fermentation in nonionic surfactant micelle aqueous solution. **Applied microbiology and biotechnology**, 2015, **99** (3):1173–1180
10. Xu Xiong, Xuehong Zhang, Zhenqiang Wu, **Zhilong Wang***. Coupled aminophilic reaction and directed metabolic channeling to red *Monascus* pigments by extractive fermentation in nonionic surfactant micelle aqueous solution. **Process biochemistry**, 2015, **50**(2): 180–187
11. Sijia Zhong, Xuehong Zhang*, **Zhilong Wang***. Preparation and characterization of yellow *Monascus* pigments. **Separation and purification technology**, 2015, **150**:139–144

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