

	基本信息	
	姓名	周志昉
	职称	副研究员，硕导
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个人简介

周志昉，女，美国韦恩州立大学化学系博士，江南大学生物工程学院，糖化学与生物技术教育部重点实验室副研究员，硕士研究生导师。长期从事基于糖抗原的抗肿瘤、细菌等疫苗的合成及生物学研究，代谢糖工程、生物大分子标记等的化学生物学研究，肿瘤免疫治疗、糖尿病相关药物开发等研究。主要承担《免疫学原理与技术》、《生物化学实验》、《专业英语》等课程的讲授工作。近年来共发表高水平研究论文16篇；申请发明专利5项，其中国际发明专利2项；主持包括国家自然科学基金青年基金等在内的科研项目4项。

学习工作经历（自本科填起）

学习经历

2009.08-2014.12, 美国韦恩州立大学，化学系，化学博士，导师：郭忠武
2005.08-2009.07, 中国科学技术大学，化学系，化学学士，管理学士（双学位）

工作经历

2016.04-至今, 江南大学，生物工程学院，副研究员，硕导（2017年起）
2015.01-2016.04, 美国韦恩州立大学，化学系，博士后

主要代表性成果：

一、论文（论著）发表情况

- (16) Xiaozhong Cheng, Haofei Hong, **Zhifang Zhou**, and Zhimeng Wu*, Enzymatic On-Resin Peptide Cleavage and in Situ Cyclization One-Pot Strategy for the Synthesis of Cyclopeptide and Cyclotide, J. Org. Chem. 2018, Oct 2, DOI: 10.1021/acs.joc.8b02032, IF=4.805
- (15) **Zhifang Zhou**, Han Lin, Chen Li, Zhimeng Wu*, Recent progress of fully synthetic carbohydrate-based vaccine using TLR agonist as build-in adjuvant, Chinese Chemical Letters, 2018, 29, 19-26. IF=2.631
- (14) **Zhifang Zhou**, Wenzhang Ding, Chen Li, Zhimeng Wu*, Synthesis and immunological study of a wall teichoic acid-based vaccine against E. faecium U0317, Journal of Carbohydrate Chemistry, 2017, 36: 4-6, 205-219
- (13) **Zhifang Zhou**# (contributed equally), Satadru S. Mandal#, Guochao Liao#, Jiatong Guo, Zhongwu Guo*, Synthesis and Evaluation of GM2-Monophosphoryl Lipid A Conjugate as a Fully Synthetic Self-Adjuvant Cancer Vaccine, Scientific Reports, 2017, 7: 11403, IF=4.122
- (12) Xiaozhong Cheng, Tao Zhu, Haofei Hong, **Zhifang Zhou**, Zhimeng Wu*, Sortase A-mediated on-resin peptide cleavage and in situ ligation: an efficient one-pot strategy for the synthesis of functional peptides and proteins, Org. Chem. Front., 2017, 4, 2058-2062. IF=5.455
- (11) Jian Gao, **Zhifang Zhou**, Jiatong Guo, Zhongwu Guo*, Synthesis of biotin-labelled core glycans of GPI anchors and their application in the study of GPI interaction with pore-forming bacterial toxins, Chem. Commun., 2017, 53, 6227-6230. IF=6.290
- (10) Zhimeng Wu*, Xiaozhong Cheng, Haofei Hong, Xinrui Zhao, **Zhifang Zhou**, New potent and selective avb3 integrin ligands: Macrocyclic peptides containing RGD motif synthesized by sortase A-mediated ligation, Bioorganic & Medicinal Chemistry Letters, 2017, 27, 1911-1913 IF=2.422

- (9) Guochao Liao#, Zhifang Zhou# (contributed equally), Sharad Suryawanshi, Mohabul A. Mondal, Zhongwu Guo*, Fully Synthetic Self-Adjuvanting α -2,9-Oligosialic Acid Based Conjugate Vaccines against Group C Meningitis, ACS Cent. Sci., 2016, 2, 210-218. IF=11.228
- (8) Guochao Liao#, Zhifang Zhou# (contributed equally), Jun Liao, Luning Zu, Qiuye Wu, Zhongwu Guo*, 6-O-Branched Oligo- β -glucan-Based Antifungal Glycoconjugate Vaccines, ACS Infect. Dis., 2016, 2, 123-131 IF=4.325
- (7) Zhifang Zhou# (contributed equally), Guochao Liao#, Satadru S. Mandal, Sharad Suryawanshi, Zhongwu Guo*, A fully synthetic self-adjuvanting globo H-Based vaccine elicited strong T cell-mediated antitumor immunity, Chem. Sci., 2015, 6(12): 7112-7121 IF=9.063
- (6) Guochao Liao#, Zhifang Zhou# (contributed equally), Zhongwu Guo*, Synthesis and Immunological Study of α -2,9-Oligosialic Acid Conjugates as Anti-group C Meningitis Vaccines, Chem. Comm., 2015, 51: 9647-9650 IF=6.290
- (5) Guochao, Liao, Srinivas Burgula, Zhifang Zhou, Zhongwu Guo*, A Convergent Synthesis of 6- O-Branched β -Glucan Oligosaccharides, Eur. J. Org. Chem., 2015, (13): 2942-2951, IF=2.882
- (4) Guochao Liao#, Zhifang Zhou# (contributed equally), Srinivas Burgula, Jun Liao, Cheng Yuan, Qiuye Wu, Zhongwu Guo*, Synthesis and Immunological Studies of Linear Oligosaccharides of β -Glucan As Antigens for Antifungal Vaccine Development, Bioconjugate Chem., 2015, 26(3): 466-476 IF=4.485
- (3) Zhifang Zhou, Guochao Liao, Sergejs Stepanovs, Zhongwu Guo*, Quantifying the Efficiency of N-Phenyl-D-mannosamine to Metabolically Engineer Sialic Acid on Cancer Cell Surface, Journal of Carbohydrate Chemistry, 2014, 33(7-8): 395-407
- (2) Zhifang Zhou# (contributed equally), Mohabul Mondal#, Guochao Liao#, Zhongwu Guo*, Synthesis and evaluation of monophosphoryl lipid A derivatives as fully synthetic self-adjuvanting glycoconjugate cancer vaccine carriers, Org. Biomol. Chem., 2014, 12(20): 3238-3245, IF=3.423
- (1) Qianli Wang, Zhifang Zhou, Shouchu Tang, Zhongwu Guo*, Carbohydrate-Monophosphoryl Lipid A Conjugates Are Fully Synthetic Self-Adjuvanting Cancer Vaccines Eliciting Robust Immune Responses in the Mouse, ACS Chem. Bio., 2012, 7(1): 235-240, IF=4.592

二、专利情况

- (1) Novel Synthetic Anticancer, Antifungal, and Antibacterial Vaccines, 24 March 2016, PCT, WO 2016/044164 A1
- (2) 募集抗体并靶向肿瘤细胞的双功能分子, 2017年12月29日, 国际专利PCT, 申请号: PCT/CN2017/119779
- (3) 一种利用纤维素固定化CBD-EndoS融合酶的方法, 中国发明专利, 申请号: 201810358946.3
- (4) 带有羟氨基的艾塞那肽类似物及其应用, 中国发明专利, 申请号: 201810613152.7
- (5) 一种高效表达糖苷内切酶EndoS或其突变体的方法, 中国发明专利, 申请号: 201810900866.6

三、承担教学科研项目情况

主持的项目如下:

1. 国家自然科学基金青年项目, 21602084, 基于糖代谢工程的化学酶法活细胞表面蛋白探针标记新策略及其初步应用, 2017/01-2019/12, 20万元, 在研;
2. 中央高校自主科研计划青年基金, JUSRJ11729, 通过化学酶法对糖代谢修饰的活细胞表面进行蛋白探针标记的研究, 2017/01-2018/12, 8万元, 在研;
3. 第63批中国博士后科学基金面上资助二等资助, 2018M632227, 募集抗体并靶向肿瘤双功能分子的设计、合成及活性评价, 5万元, 在研;
4. 糖化学与生物技术教育部重点实验室开放课题, KLCCB-KF201608, 2016/07-2018/06, 3万元, 在研。

四、获奖情况(含指导学生获奖)

1. 江南大学生物工程学院青年教师会讲二等奖, 2017年
2. Thomas C. Rumble 奖学金, 美国韦恩州立大学, 2013年

以上资料更新时间截止: 2018年10月