


## XX 个人信息

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籍 贯	山东济南	出生年月	1984.11	
职 称	副研究员	政治面貌	中国共产党党员	
专 业	化学生物学	职 务	无	
导师类别	硕导	学历、学位	研究生、博士	
课 题 组	山东省斑马鱼人类疾病模型与药物筛选工程技术研究中心			
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<b>学习、工作简历：</b>				
2003.9-2007.6 齐鲁工业大学应用化学专业，获工学学士学位；				
2007.9-2010.6 齐鲁工业大学应用化学专业，获工学硕士学位；				
2010.7-2012.8 山东轩竹医药科技有限公司，研究员；				
2012.9-2016.6 山东大学生命科学学院生物化学与分子生物学专业，获理学博士学位；				
2017.07-2019.03 山东省科学院生物研究所；				
2019.4-至今 齐鲁工业大学（山东省科学院）生物研究所。				
<b>主要研究方向：创面修复与组织再生、生物多糖的结构与功能、天然活性物质的发现</b>				
<b>纵向课题：</b>				
山东省自然科学基金项目“天然糖类模块修饰的小檗碱衍生物及其在斑马鱼模型下的降血糖构效关系研究”，4 万；				
生物基材料与绿色造纸国家重点实验室开放基金“聚乙二醇化的纳米淀粉颗粒的制备及其用作抗肿瘤药物载体的研究”，5 万；				
山东省科学院青年博士基金，“天然产物小檗碱的糖基化修饰及其在斑马鱼模型下的降血糖活性研究”，28.86 万；				
山东省重点研发计划（重大科技创新工程），“山东道地药材活性成分样品库的构建及创新药物研究”，933 万；				
济南市高校 20 条高端人才引进项目，“以小檗碱为母核的新型多靶点抗生素的研发”，200 万；				
齐鲁工业大学（山东省科学院）科教产融合创新试点工程项目，“军民两用新型碳基快速止血材料研发”，154 万。				
<b>论文：</b>				
(1) Siqiang Li, Fujia Chen, Yun Li, <b>Lizhen Wang</b> , Hongyan Li, Guofeng Gu, Enzhong Li. Rhamnose-Containing Compounds: Biosynthesis and Applications. <i>Molecules</i> , 2022, 27, 5315. (IF = 4.927)				
(2) Liwen Han, Qing Xia, Lei Zhang, Xuanming Zhang, Xiaobin Li, Shanshan Zhang, <b>Lizhen Wang</b> , Changxiao Liu, Kechun Liu. Induction of developmental toxicity and cardiotoxicity in zebrafish embryos/larvae by acetyl-11-keto- $\beta$ -boswellic acid (AKBA) through oxidative stress. <i>Drug and Chemical</i>				

*Toxicology*, 2022, 45(1): 143-150. (IF=2.597)

(3) Shuhua Chang, Dawei Qin\*, **Lizhen Wang\***, Mengli Zhang, Rongjun Yan, Cuiyun Zhao. Preparation of novel cinnamaldehyde derivative - BSA nanoparticles with high stability, good cell penetrating ability, and promising anticancer activity. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 624 (2021) 126765. (IF = 5.518)

(4) **Lizhen Wang**, Wenlong Sheng, Zhaoshun Tan, Qingyu Ren, Rongchun Wang, Rostyslav Stoika, Xuedong Liu, Kechun Liu, Xueliang Shang\*, Meng Jin\*. Treatment of Parkinson's disease in Zebrafish model with a berberine derivative capable of crossing blood brain barrier, targeting mitochondria, and convenient for bioimaging experiments. *Comparative Biochemistry and Physiology, Part C* 249 (2021) 109151. (IF = 4.520)

(5) Xiang Li, Jiao Dang, Yan Li, **Lizhen Wang**, Ning Li, Kechun Liu, Meng Jin. Developmental neurotoxicity fingerprint of silica nanoparticles at environmentally relevant level on larval zebrafish using a neurobehavioral-phenomics-based biological warning method. *Science of the Total Environment*, 2021, 752: 141878. (IF=10.753)

(6) Xuanming Zhang, Haonan Li, **Lizhen Wang**, Shanshan Zhang, Fengxia Wang, Houwen Lin, Sheng Gao, Xiaobin Li, Kechun Liu. Anti-inflammatory peptides and metabolomics-driven biomarkers discovery from sea cucumber protein hydrolysates. *Journal of Food Science*, 2021, 86(8): 3540-3549. (IF=3.693)

(7) **Lizhen Wang**, Xueliang Yang, Xiaobin Li, Rostyslav Stoika, Xue Wang, Houwen Lin, Yukui Ma, Rongchun Wang\* and Kechun Liu\*, Synthesis of hydrophobically modified berberine derivatives with high anticancer activity through modulation of the MAPK pathway, *New J. Chem.*, **2020**, 44, 14024. (IF = 3.591)

(8) **Wang, L.**; Kong, H.; Jin, M.; Li, X.-B.; Stoika, R.; Lin, H.-w.; Liu, K.\* Synthesis of disaccharide modified berberine derivatives and their anti-diabetic investigation in zebrafish using a fluorescence-based technology. *Organic & Biomolecular Chemistry*, 2020, 18, 3575. (IF = 3.876)

(9) **Wang, L.**; Zhang, J.; An, X.; Duan, H.\* Recent progress on the organic and metal complex-based fluorescent probes for monitoring nitric oxide in living biological systems. *Organic & Biomolecular Chemistry* 2020, 18, 1522. (IF = 3.876)

(10) Zhang, B.;<sup>#</sup> **Wang, L.**;<sup>#</sup> Ji, X.;<sup>#</sup> Zhang, S.; Sik, A.; Liu, K.; Jin, M.\* Anti-Inflammation Associated Protective Mechanism of Berberine and its Derivatives on Attenuating Pentylentetrazole-Induced Seizures in Zebrafish. *Journal of Neuroimmune Pharmacology*, 2020, 15, 309. (IF = 3.87)

(11) Meng Jin, Xiuna Ji, Rostyslav Stoika, Kechun Liu, **Lizhen Wang**,\* and Yang Song. Synthesis of a novel fluorescent berberine derivative convenient for its subcellular localization study. *Bioorganic Chemistry*, 2020, 101, 104021. (IF = 5.275)

(12) Rongchun Wang, Stoyka Rostyslav, Xiaobin Li, Houwen Lin, Xuanming Zhang, Shanshan Zhang, Kechun Liu\*, **Lizhen Wang\***. Synthetic and antitumor comparison of 9-O-alkylated and carbohydrate-modified berberine derivatives. *Journal of the Iranian Chemical Society*, 2020, 17: 3251-3260. (IF=2.271)

(13) Xiaobin Li, Chenyang Li, Yongqiang Zhu, Yongping Shi, Xuanming Zhang, Shanshan Zhang, **Lizhen Wang**, Houwen Lin, Hairong Hou, Chung-Der Hsiao, Liwen Han\*, Kechun Liu\*. Lipid fingerprinting of different material sources by UPLC-Q-exactive orbitrap/MS approach and their zebrafish-based activities comparison. *Journal of agricultural and food chemistry*, 2020, 68(7): 2007-2015. (IF=5.895)

(14) **Lizhen Wang**, Shaojie Feng, Subo Wang, Hui Li, Zhongwu Guo\*, and Guofeng Gu\*, Synthesis and

Immunological Comparison of Differently Linked Lipoarabinomannan Oligosaccharide-Monophosphoryl Lipid A Conjugates as Anti-Tuberculosis Vaccines. *J. Org. Chem.*, 2017, 82: 12085. (IF=4.849)

(15) **Lizhen Wang**, Shaojie Feng, Lian An, Guofeng Gu\*, and Zhongwu Guo\*, Synthetic and Immunological Studies of Mycobacterial Lipoarabinomannan Oligosaccharides and Their Protein Conjugates. *J. Org. Chem.*, 2015, 80: 10060. (IF=4.805)

**专利:**

(1) **王利振**, 韩利文, 刘可春, 盛文龙, 李晓彬, 一种三氮唑糖修饰的小檗碱盐衍生物及其制备方法和用途, 中国, 公开号: CN108752404B

(2) **王利振**, 刘可春, 韩利文, 靳梦, 李晓彬, 一种鼠李糖或核糖修饰的小檗碱盐衍生物及其制备方法和用途, 中国, 公开号: CN108929353B

(3) **王利振**、刘可春、王荣春、靳梦、李晓彬、陈锡强、张姗姗、张轩铭, 一种小檗碱亚油酸缀合物及其制备方法和用途, CN202010223471.4。

(4) **王利振**, 刘可春, 靳梦, 朱坤福, 张云, 谢飞, 祝蕾, 李晓彬, 盛文龙, 王荣春, 张轩铭, 一种交联壳聚糖微球及其在创面止血修复材料中的应用, ZL202111316731.3

(5) 刘可春, 靳梦, **王利振**, 段秀英, 张姗姗, 李晓彬, 孙晨, 一种凝血酶原激活因子及含凝血酶原激活因子的快速止血材料, ZL202010434949.8;

(6) 靳梦, 刘可春, **王利振**, 段秀英, 王荣春, 张姗姗, 张云, 一种蛇毒凝血酶原激活物及基于蛇毒凝血酶原激活物的快速止血材料, ZL202010409822.0。

(7) 张云, **王利振**, 靳梦, 朱坤福, 刘可春, 谢飞, 祝蕾, 李晓彬, 夏青, 张姗姗, 段秀英, 一种基于聚合氨基酸的多组分创面修复止血敷料及其应用, ZL202111313043.1

**获奖情况:**

2021 年获得“中国商业联合会科学技术奖”一等奖 1 项;

2021 年获得“山东省海洋科技创新奖”二等奖 1 项;

2020 年获得齐鲁工业大学（山东省科学院）高水平科研项目一等奖 1 项。