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发布时间: 2022-05-20 发布单位: 病原微生物研究院



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### 一、个人经历

#### 1. 学习经历

2007/9 - 2012/12, 武汉大学, 生命科学学院, 病毒学国家重点实验室, 博士

2003/9 - 2007/7, 武汉大学, 生命科学学院, 生命科学与技术基地班, 本科

#### 2. 工作经历

2013-2019/3, 华中科技大学, 同济医学院附属协和医院, 助理研究员

2019/3-至今, 暨南大学, 病原微生物研究院, 副研究员

2022/10-至今, 暨南大学, 佛山病原微生物研究院, 研究员

### 二、研究和学术简介

研究方向为病毒感染的炎症和免疫反应分子机制、抗病毒免疫治疗技术和活性生物材料研发等。共发表学术论文30多篇, 其中一作和通讯作者论文先后在Sig Trans Targ Ther, Nat Commun, Protein Cell, J Med Virol, Cancer Res, J Biol Chem, J Immunol, J Exp Clin Canc Res, Appl Mat Today, Oncoimmunology等知名期刊上发表。论文累计被他人引用总次数1700余次, H指数为17; 获得国家发明专利授权5项; 主持承担各级科研项目8项, 包含国家自然科学基金, 广东省和广州市自然科学基金等, 参与国家级科研项目5项; 学术兼职包括中国医疗保健国家交流促进会并临床工程与健康产业分会, 委员, 湖北医学生物免疫学会并再生医

### 三、学术论文

- [1] A programmable DNA nanodevice for colorimetric detection of DNA methyltransferase activity using functionalized hemin/G-quadruplex DNzyme. Wenxu Yuan, Kaiting Xiao, Xingxing Liu, Yanming Lai, Fazeng Luo, Wei Xiao, Jinjun Wu, Pan Pan\*, **Yongkui Li\***, Heng Xiao\*. **Analytica Chimica Acta**. 2023, 1273:341559. (通讯, IF=6.2)
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- [3] Natural Oncolysis of Enterovirus 71 in Antitumor Therapy of Colorectal Cancer. Zihui Ruan, Jiangyang Chi, Yue Kong, Chengcheng Li, Xiaolan Ruan, Xing Zhou, Yanxi Chen, **Yongkui Li\***, and Zhen Luo\*. **Advanced Biology**. 2023, 2200336. (通讯, IF = 3.7)
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- [5] Inhibition of PIKFYVE kinase interferes ESCRT pathway to suppress RNA virus replication. Zhen Luo, Yicong Liang, Mingfu Tian, Rui Su, Muhammad Adnan Shereend, Jialing Yin, Zihui Ruan, Kailang Wu, Jun Guo, Qiwei Zhang\*, **Yongkui Li\***, and Jianguo Wu\*. **Journal of Medical Virology**. 2023, 95(2): e28527 (通讯, IF =12.7)
- [6] Innate Immunity, Inflammation, and Intervention in HBV Infection. Ge Yang<sup>#</sup>, Pin Wan<sup>#</sup>, Yaru Zhang, Qiaoru Tan, Muhammad Suhaib Qudus, Zhaoyang Yue, Wei Luo, Wen Zhang, Jianhua Ouyang, **Yongkui Li\***, Jianguo Wu. **Viruses**. 2022, 14, 2275. (通讯, IF =4.7)
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#### 四、科研项目

1. 百济神州公司-横向课题, 40121219, 不同理化特性的病毒的制备及初步纯化工工艺开发, 2021.10.18 -2022.3.1, 24万元, 主持。
2. 广州市基础研究计划-基础与应用基础研究项目, 202102080419,丝胶增强细胞抗病毒天然免疫的机制及应用研究, 2021.4.1-2023.3.31, 5万元, 主持。
3. 广东省自然科学基金-面上项目, 2020A1515010369, 乙肝病毒相关肝细胞癌组织微环境中NLRP3炎症小体促进HCC干细胞活性机制研究, 2019.10.01- 2022.09.30, 10万元, 主持。
4. 暨南大学中央高校基本科研业务费-跃升计划项目, NLRP3炎症小体激活肝癌干细胞转录因子机制研究, 2020.01-2021.12, 8万元, 主持。
5. 暨南大学人才引进计划, 50万元, 2019.03-2022.03, 50万元, 主持。
6. 国家自然科学基金-青年科学基金项目, 81502572、白细胞介素-33促进结直肠肿瘤干细胞活性机制研究、2016.01-2018.12, 18万元、已结题、主持。
7. 华中科技大学自主创新基金青年教师基金, 2014QN067, 白细胞介素-33对肿瘤干细胞特性的调控作用, 2014/04-2015/12、2万元, 已结题, 主持。
8. 华中科技大学同济医学院附属协和医院, 2016年度科学培育基金, 02.03.207-25, 3万元, 已结题, 主持。

因传递系统的研究, 2015.01-2017.12, 23万元, 参与。

10. 科技部国际合作项目, S2014ZR0340, 新型智能生物支架应用于恶性肿瘤免疫治疗的合作研发, 2014/01-2017/12, 182万元, 结题, 参与。

11. 教育部科学技术研究项目, 113044A, 脑卒中的组织工程修复疗法, 2014/1-2016/12, 50万元, 结题, 参与。

12. 国家自然科学基金-青年科学基金项目, 81801578, 胰岛素诱导的巨噬细胞糖原代谢在肥胖引起的慢性炎症中的作用研究, 2019/01/01~2021/12/30, 21万元, 在研, 参与。

13. 国家自然科学基金-面上项目, 81773263, 光控释放非分泌型TNF- $\alpha$ 的智能型巨噬细胞用于转移性结肠癌的治疗, 2018/01/01~2019/12/30, 25万元, 结题, 参与。

## 五、发明专利

1. 《一种可介导生物大分子透皮吸收的组合剂、制备方法及应用》, 国家专利授权(专利号 ZL202110377048.4), 发明人: **李永奎**, 吴建国, 罗震, 邢曦雯, 潘攀。
2. 《S63845在制备抗新冠病毒感染药物中的应用》国家专利授权(专利号ZL202110377048.4), 发明人: 潘攀, 申苗苗, 陈俊, 葛威威, **李永奎**。
3. 《丝胶蛋白、提取方法、作为细胞抗病毒免疫增强剂和应用》, 专利号ZL202010961734.1, 发明人: 吴建国, **李永奎**, 黄颖, 邢曦雯, 罗震, 潘攀, 张业顺。
4. 《一种含有胶原蛋白结合结构域的融合蛋白》, 国家专利授权(专利号 ZL201610962104.X), 发明人: 王琳, 王征, **李永奎**, 徐妞妞, 张剑
5. 《丝胶蛋白水凝的制备方法及其应用》, 国家专利授权(专利号ZL201410071402.0), 发明人: 王琳, 张业顺, 黄雷, 刘佳, 王征, **李永奎**, 杨文, 乞超。

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