

浙江省科学技术奖公示信息表（单位提名）

提名奖项：科学技术进步奖

成果名称	靶向前列腺肿瘤能量代谢精准诊疗关键技术创新及应用
提名等级	二等奖
提名书 相关内容	代表性论文目录： 1. Shuangya Chen[#], Jisheng Ma[#], Yunbei Xiao[#], Dongyan Zhou, Ping He, Yajing Chen, Xiaolu Zheng, Hui Lin, Feng Qiu, Yuying Yuan, Jiaben Zhong, Xiaokun Li*, Xuebo Pan*, Zhiyuan Fang*, Cong Wang*. RNA interference against ATP as a gene therapy approach for prostate cancer. <i>Mol. Pharmaceutics</i> 2023, 20, 5214–5225. 2. Zhichao Fan[#], Jisheng Ma[#], Xuebo Pan[#], Liangcai Zhao, Yuying Wu, Hui Lin, Yidan Zhao, Haowei Jiang, Tingting Pan, Xiaokun Li*, Fen Wang*, Cong Wang*. Crosstalk of FGFR1 signaling and choline metabolism promotes cell proliferation and survival in prostate cancer cells. <i>Int J Cancer</i>. 2022 May 1;150(9):1525-1536. 3. Cong Wang[#], Yuepeng Ke[#], Shaoyou Liu[#], Sharon Pan, Ziyang Liu, Hui Zhang, Zhichao Fan, Changyi Zhou, Junchen Liu, and Fen Wang*. Ectopic fibroblast growth factor receptor 1 promotes inflammation via augmenting nuclear factor-κB signaling in prostate cancer cells. <i>J. Biol. Chem.</i> 2018 Sep 21;293(38):14839-14849. 4. Zhiyuan Fang[#], Yu Wang[#], Hao Li[#], Shuaishuai Yu, Ziyang Liu, Zhichao Fan, Xiaomin Chen, Yuying Wu, Xuebo Pan*, Xiaokun Li*, Cong Wang*. Combination treatment of citral potentiates the efficacy of hyperthermic intraperitonealchemoperfusion with pirarubicin for colorectal cancer. <i>Mol Pharm.</i> 2017 Oct 2;14 (10):3588-3597. 5. Yingying Pan, Baile Wang, Jujia Zheng, Rongrong Xiong, Zhichao Fan, Yanna Ye, Saisai Zhang, Qinyao Li, Fanghua Gong, Chaoming Wu, Zhuofeng Lin, Xiaokun Li*, Xuebo Pan*. Pancreatic fibroblast growth factor 21 protects against type 2 diabetes in mice by promoting insulin expression and secretion in a PI3K/Akt signaling-dependent manner. <i>J Cell Mol Med.</i> 2019 Feb;23(2):1059-1071. 6. Ping He, Shuting Zhong, Shuaijun Lin, Zhiyan Xia, Liqing Wang, Yuhe Han, Di Xu, Shuping Hu, Xiaokun Li, Peijun Li*, Cong Wang*. FGF9 is required for Purkinje cell development and function in the cerebellum. <i>iScience</i>. 2024 Jan 26;27(2):109039.

	7. Cong Wang[#], Yuelong Li[#], Hao Li[#], Yali Zhang, Zhangguo Ying, Xuye Wang, Tingting Zhang, Wenshu Zhang, Zhichao Fan, Xiaokun Li*, Jisheng Ma*, Xuebo Pan*. Disruption of FGF signaling ameliorates inflammatory response in hepatic stellate cells. Front. Cell Dev. Biol., 22 July 2020. 8. Wang C*, Liu Z, Ke Y, Wang F*. Intrinsic FGFR2 and Ectopic FGFR1 Signaling in the Prostate and Prostate Cancer. Front Genet. 2019 Jan 30;10:12. 9. Hainiao Xiao, Zhigang Wu, Qinquan Wang, Chaofeng Zhou, Feng Lu, Yunbei Xiao. Chalcone Derivatives Suppress Proliferation and Migration of Castration-resistant Prostate Cancer Cells Through FAK-mediated DNA Damage. Anticancer Res. 2023 Jan;43(1):389-403.
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提名意见	本项目揭示代谢模式转变对前列腺肿瘤发生发展的影响，为前列腺肿瘤精准诊断和治疗提供了新的思路；自主创新构建溶瘤病毒抑制肿瘤细胞能量生成，具有稳定的生物学活性及高效的肿瘤抑制效应；孵化出多个靶向肿瘤生物治疗的相关应用产品，代表性论文被国际顶级期刊多次引用，为我市生物医药发展作出了重要贡献。 提名该成果为省科学技术进步奖二等奖。