

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	慢性炎症系统在动脉粥样硬化性心血管疾病中的作用
提名等级	三等奖
提名书 相关内容	<p>代表性论文（专著）目录：</p> <ol style="list-style-type: none">1. Kangting Ji, Yong Zhang, Fengchun Jiang, Lu Qian, Huihui Guo, Jianjian Hu, Lianming Liao, and Jifei Tang. Exploration of the Mechanism by Which 3,4-benzopyrene promotes angiotensin II-induced abdominal aortic aneurysm formation in mice. Journal of Vascular Surgery. 2014;59(2):492-499.2. Jiaoni Wang, Yingying Zhou, Shaoze Wu, Kaiyu Huang, Saroj Thapa, Luyuan Tao, Jie Wang, Yigen Shen, Jinsheng Wang, Yangjing Xue, Kangting Ji. Astragaloside IV attenuated 3,4-benzopyrene-induced abdominal aortic aneurysm by ameliorating macrophage-mediated inflammation. Front Pharmacol. 2018; 9: 496.3. Kaiyu Huang, Jiaoni Wang, Yingying Zhou, Shaoze Wu, Luyuan Tao, Yangpei Peng, Jiaqun Que, Yangjing Xue, Kangting Ji. Antithrombin III alleviates myocardial ischemia/reperfusion injury by inhibiting excessive autophagy in a PI3K/Akt-dependent manner. Front Pharmacol. 2019;10:516.4. Zhou Yingying, Wang Jiaoni, Xue Yangjing, Fang Aili, Wu Shaoze, Huang Kaiyu, Tao Luyuan, Wang Jie, Shen Yigen, Wang Jinsheng, Pan Lulu, Li Lei, Ji Kangting. Microarray Analysis Reveals a Potential Role of lncRNA Expression in 3,4-Benzopyrene/ Angiotensin II-Activated Macrophage in Abdominal Aortic Aneurysm. STEM CELLS INTERNATIONAL. 2017;2017:9495739.

5. Shaoze Wu, Luyuan Tao, Jiaoni Wang, Zhiqiang Xu, Jie Wang, Yangjing Xue, Kaiyu Huang, Jiafeng Lin, Lei Li, Kangting Ji. Amifostine pretreatment attenuates myocardial ischemia/reperfusion injury by inhibiting apoptosis and oxidative stress. *Oxidative Medicine and Cellular Longevity*. 2017;2017: 4130824.
6. Jiaoni Wang, Huankun Sun, Yingying Zhou, Kaiyu Huang, Jiaqun Que, Yangpei Peng, Jinsheng Wang, Cong Lin, Yangjing Xue, Kangting Ji. Circular RNA Microarray Expression Profile in 3,4-Benzopyrene/Angiotensin II-induced Abdominal Aortic Aneurysm in Mice. *Journal of Cellular Biochemistry*. 2019;120(6):10484-10494.
7. Sun H, Wang J, Que J, Peng Y, Yu Y, Wang L, Ye H, Huang K, Xue Y, Zhou Y, Ji K. RNA sequencing revealing the role of AMP-activated protein kinase signaling in mice myocardial ischemia reperfusion injury. *Gene*. 2019;30;703:91-101.
8. Kangting Ji, Cheng Xing, Fengchun Jiang, Xiaoyan Wang, Huihui Guo, Jinliang Nan, Lu Qian, Penglin Yang, Jiafeng Lin, Meide Li, Jinnong Li, Lianming Liao, Jifei Tang. Benzo [a] pyrene induces oxidative stress and endothelial progenitor cell dysfunction via the activation of the NF- κ B pathway. *International Journal of Molecular Medicine*. 2013;31:922-930.
9. Kangting Ji, Junde Chai, Cheng Xing, Jinliang Nan, Penglin Yang, Jifei Tang. Danshen protects endothelial progenitor cells from oxidized low-density lipoprotein induced impairment. *Journal of Zhejiang University-SCIENCE B*. 2010;11(8):618-626.
10. Kangting Ji, Xiaoyan Wang, Ji Li, Qin Lu, Guoqiang Wang, Yangjing Xue, Suqin Zhang, Lu Qian, Wenwu Wu, Yongjin Zhu, Luping Wang, Lianming Liao, and Jifei Tang. Macrophage

	migration inhibitory factor polymorphism is associated with susceptibility to inflammatory coronary heart disease. <i>BioMed Research International</i> . 2015;2015:315174.
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主要完成单位	单位名称: 1. 温州医科大学附属第二医院
提名单位	温州市人民政府
提名意见	<p>该项目从 2013 年开始对动脉粥样硬化性血管疾病展开系统研究, 分别建立了以血管平滑凋亡为特征的腹主动脉瘤模型和缺血再灌注损伤为特征的阻塞性冠脉血管疾病模型, 两者在形态学上虽截然相反, 病理上却都属于血管的慢性炎症。主要发现点为: 巨噬细胞的激活启动血管壁的慢性炎症促进平滑肌细胞凋亡、基质重构, 诱导动脉瘤发生及进展; 巨噬细胞迁移抑制因子水平与冠脉炎症相关, 可以预测冠脉斑块稳定性; 调控自噬抑制炎症可改善心肌缺血再灌注等。并评价了炎症细胞启动基因的抑制或激活、平衡自噬流、炎症抑制剂阿米呋啉和黄芪甲苷等的疗效, 对指导临床动脉粥样硬化性血管的治疗有重要的参考价值。</p> <p>提名该项目为 2020 年度浙江省科学技术进步奖三等奖。</p>