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应颖

学院: 基础医学院

专业: 生理学

职称: 教授

简介:

应颖, 博士, 教授, 博士研究生导师, 深圳市海外高层次B类人才, 医学部基础医学院副院长兼生理学系副主任(主持学系工作)。2003年获英国伦敦大学学院(UCL)分子医学硕士学位, 2007年获德国海德堡大学分子生物学博士学位。2008-2010获香港中文大学博士后研究基金资助, 于香港中文大学医学院从事博士后研究工作。2010年9月加入深圳大学, 现任深大医学部基础医学院教授。长期从事表观遗传变异所致的转录调控异常参与代谢性、神经退行性疾病及肿瘤的发生发展的分子机制及干预研究。主持国家自然科学基金3项, 广东省自然科学基金1项, 广东省高教厅优秀青年创新项目1项, 深圳市基础研究项目多项。以第一或通讯作者(含共同)在Molecular Neurodegeneration, PNAS, Oncogene, Journal of Pathology等国际著名期刊上发表论文20余篇。目前担任中国神经科学学会神经内稳态和内分泌分会青年委员, 中国高等教育学会医学教育专业委员会第六届理事会理事, 广东省医学教育协会医药教师发展专业委员会副主任委员, 广东省生物物理学会第八届理事会理事。

研究方向

- 1) 常见肿瘤及代谢性、神经退行性疾病发生发展中表观遗传调控异常的分子机制
- 2) 消化道肿瘤及视网膜母细胞瘤的表观遗传治疗及耐药性机制

科研项目

- 1) 国家自然科学基金面上项目: “L1CAM表观遗传沉默介导的自噬流受阻在糖尿病视网膜tau蛋白病变中的作用机制研究”(82070978), 2021年1月-2024年12月
- 2) 国家自然科学基金面上项目: “14-3-3 ζ 介导CDK5和GSK3 β 促tau蛋白过度磷酸化: 糖尿病早期视网膜神经节细胞变性的新机制”(81670760) 2017年1月-2020年12月
- 3) 国家自然科学基金青年基金: “GLP-1/beta-catenin/TCF信号通路对糖尿病鼠心肌细胞凋亡的保护作用与机制研究”(81200602) 2013年1月-2015年12月

代表性成果

1. Huazhang Zhu#, Weizhen Zhang#, Yingying Zhao#, Xing-sheng Shu#, Wencong Wang, Dandan Wang, Yangfan Yang, Zhijun He, Xiaomei Wang, Ying Ying*. GSK3 β -mediated tau hyperphosphorylation triggers diabetic retinal neurodegeneration by disrupting synaptic and mitochondrial functions. Molecular Neurodegeneration 2018;13:62. (中科院大类1区, TOP期刊, IF: 18.879, 通讯作者)
2. Ying Ying, Wang Maolin, Chen Yongheng, Li Meiqi, Ma Canjie, Zhang Junbao, Huang Xiaoyan, Jia Min, Zeng Junhui, Wang Yejun, Li Lili, Wang Xiaomei, Tao Qian, Shu Xing-sheng*: Zinc finger protein 280C contributes to colorectal tumorigenesis by maintaining epigenetic repression at H3K27me3-marked loci. Proc Natl Acad Sci 2022;119:e2120633119. (中科院大类1区, TOP期刊, IF: 12.14, 第一作者)
3. Ying Ying#, Yejun Wang#, Xiaoyan Huang, Yanmei Sun, Junbao Zhang, Meiqi Li, Junhui Zeng, Maolin Wang, Wenjun Xiao, Lan Zhong, Bo Xu, Lili Li, Qian Tao, Xiaomei Wang, Xing-sheng Shu*. Oncogenic HOXB8 is driven by MYC-regulated super-enhancer and

- potentiates colorectal cancer invasiveness via BACH1. *Oncogene* 2020;39:1001-1012. (中科院大类1区, IF: 9.867, 第一作者)
4. Xing-sheng Shu*, Yingying Zhao, Yanmei Sun, Lan Zhong, Yingduan Cheng, Tao, Yejun Wang*, Ying Ying*. PBRM1 restricts the basal activity of retinoic acid-inducible gene-1-like receptor signalling and is a potential tumor suppressor in colorectal cancer. *Journal of Pathology* 2018;244:36-48. (中科院大类1区, TOP期刊)
5. Junbao Zhang#, Ying Ying#, Meiqi Li#, Maolin Wang, Xiaoyan Huang, Yixiang Zhang, Chen Li, Xiaomei Wang, Xing-sheng Shu*. Targeted inhibition of miR-143-3p eradicates tumor-initiating cells via enhancer reprogramming in colorectal cancer. *Theranostics* 2020; 10:10016-10030. (中科院大类1区, TOP期刊, IF: 10.625)
6. Ying Ying*, Yilin Zhang*, Canjie Ma, Meiqi Li, Chaoyue Tang, Yangjunbo Yi, Xiaomei Wang, Zhendan He, Xing-sheng Shu*. Neuroprotective effects of berberine on hyperphosphorylated tau-induced diabetic retinal neurodegeneration via inhibiting Akt/GSK3 β signaling. *Journal of Agriculture and Food Chemistry* 2019;67:8348-8355. (中科院大类1区, IF: 5.895, 第一/通讯作者)
7. Xing-sheng Shu#, Yilin Zhang#, Meiqi Li, Xiaoyan Huang, Yangfan Yang, Xiaomei Wang, Weizhen Zhang, Ying Ying*. Topical ocular administration of liraglutide arrests hyperphosphorylated tau-triggered diabetic retinal neurodegeneration via inhibiting GLP-1R/Akt/GSK3 β signaling. *Neuropharmacology* 2019;153:1-12. (中科院大类1区, IF: 5.895, 第一/通讯作者)
8. Kostadin Dimov Rolev, Xing-sheng Shu*, Ying Ying*. Targeted pharmacological inhibition of Akt and neuroinflammation in early diabetic retinopathy. *Neuropharmacology* 2020;180:108525. (中科院大类1区, IF: 5.25, 通讯作者)
9. Maolin Wang#, Xing-sheng Shu#, Meiqi Li, Yiling Zhang, Youli Yao, Zhendan He*, Jun Lu*, Ying Ying*. A novel strategy conjugating PD-L1 inhibitor with chemotherapeutic drug alleviates chemotherapeutic resistance and enhances immune response in colorectal cancer. *Oncology* 2021;11:1. (中科院大类2区, IF: 6.244, 通讯作者)
10. Xing-sheng Shu##, Huazhang Zhu#, Xiaoyan Huang#, Yangfan Yang, Dandan Wang#, Ying Ying*. Loss of β -catenin via activated GSK3 β causes diabetic retinopathy by instigating a vicious cycle of oxidative stress-driven mitochondrial dysfunction. *Journal of Cellular Biochemistry* 2021;12(13):13437-13462. (中科院大类2区, IF: 5.682, 通讯作者)
11. Yingying Zhao, Huazhang Zhu, Yangfan Yang, Yiming Ye, Youli Yao, Xing-sheng Shu, Xianxiong Chen, Yatao Yang, Junxian Ma, Le Cheng, Xiaomei Wang. ATF4 triggers trabecular meshwork tissue remodelling in ET-1-induced glaucoma. *Molecular Medicine* 2020;6:3469-3480. (中科院大类2区, IF: 5.31, 通讯作者)
12. Yixiang Zhang#, Yingduan Cheng#, Zhaoxia Zhang#, Zhongyuan Bai, Li Huang, Meiqi Li, Maolin Wang, Xing-sheng Shu*, Yeqing Yuan*, Ying Ying*. miR-143-3p Promotes Cell Proliferation in Prostate Cancer and Is Directly Regulated by miR-143-3p. *Oncology* 2020;10:725. (中科院大类2区, IF: 6.244, 通讯作者)
13. Ying Y#, Xue R#, Yang Y, Zhang SX, Xiao H, Zhu H, Li J, Chen G, Xing-sheng Shu. ATF4 triggers trabecular meshwork cell dysfunction and apoptosis in glaucoma. *Molecular Medicine* 2020;6:3469-3480. (中科院大类2区, IF: 5.682, 通讯作者)
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15. Xing-sheng Shu#, Dandan Wang#, Yingying Zhao#, Yanmei Sun, Xiaoyan Huang, Chenyang Li, Yan Li, Yong Zeng, Xiaomei Wang, Zhendan He*, and Ying Ying*. miR-143-3p seeds suppresses the epithelial-mesenchymal transition-mediated metastasis of colorectal cancer by targeting the metastatic suppressor NDRG1. *Journal of Functional Foods* 2018;50:100-108. (中科院大类2区, IF: 5.682, 第一/通讯作者)
16. Ying Ying##, Huazhang Zhu#, Zhen Liang, Xiaosong Ma, Shiwei Li. miR-143-3p promotes palmitate-induced apoptosis via Akt/GSK3 β /b-catenin pathway. *Journal of Cellular Biochemistry* 2015, 55:245-262. (中科院大类2区, IF: 5.098, 第一/通讯作者)
17. Youli Yao#, Ying Ying#, Qiyu Deng, Wenjiang Zhang, Huazhang Zhu, Maolin Wang, Yingying Zhao. Noninvasive 40-Hz light flicker ameliorates Alzheimer's disease by regulating central circadian clock in mice. *Frontiers in Physiology* 2020;11:566. (并列第一作者)