

个人基本情况：（附上一寸电子照片）



姓 名：廖兴华

性 别：男

出生年月：198411

民 族： 汉

政治面貌：中共党员

职称职务：副教授

教育经历：

2004， 9-2008， 6

天津科技大学

制药工程专业， 学士；

2008， 9-2011， 6

天津科技大学

药物化学专业， 硕士；

2012， 9-2015， 6

天津科技大学

发酵工程专业， 博士

社会兼职：

招收研究生学科及方向：生物化学、细胞与分子生物学

从事研究的学科专业领域及主要研究方向：肿瘤发病机制， 心血管疾病发病机制， 表观遗传学

主要研究方向：

1) 恶性肿瘤的迁移与侵袭及表观遗传学修饰；2) 心肌肥厚及心肌纤维化的发病机制；3) 重要转录因子在血液疾病中的转录调控作用。

主要工作经历及业绩：

2015, 8-至今

武汉科技大学 副教授

目前主持的主要科研项目

- 1) 项目名称: MRTF-A 和 STAT3 调控乳腺癌 EMT 及机制研究；
项目来源：国家自然科学基金青年基金（在研）
项目经费：24 万
项目起迄时间：2016 年 01 月-2018 年 12 月
项目负责人：廖兴华
- 2) 项目名称：MRTF-A 在抑癌基因 maspin 抑制乳腺癌中的作用机制研究
项目来源：湖北省卫生计生委科研项目
项目经费：2 万元
项目起迄时间：2017 年 08 月-2019 年 08 月
项目负责人：廖兴华
- 3) 项目名称：Myocardin 的亚硝酰化在平滑肌表型转换中的作用及机制研究
项目来源：湖北省科技厅自然科学基金面上项目
项目经费：3 万元
项目起迄时间：2017 年 08 月-2019 年 08 月
项目负责人：廖兴华
- 4) 项目名称：RhoA-MRTF-A 和 JAK-STAT3 调控乳腺癌的迁移及机制研究
项目来源：湖北省教育厅指导项目
项目经费：0.3 万元
项目起迄时间：2017 年 08 月-2019 年 08 月
项目负责人：廖兴华
- 5) 项目名称：LncRNA+GATA3-AS1GATA3MKL-1miR-17-5p 信号通路调控三阴性乳腺癌干细胞自我更新的机制研究
项目来源：武汉市应用基础前沿项目

项目经费：50 万元

项目起迄时间：2020 年 01 月-2023 年 01 月

项目负责人：廖兴华

已完成的主要科研项目

完成的主要论文

SCI:

2020

1 Yuan Xiang¹, Jun Wang¹, Jia Peng Li, Wei Guo, Feng Huang, Hui Min Zhang, Han Han Li, Zhou Tong Dai, Zi Jian Zhang, Hui Li, Le Yuan Bao, Chao Jiang Gu, Kun Chen, Tong Cun Zhang*, **Xing Hua Liao***, MKL-1 is a coactivator for STAT5b, the regulator of Treg cell development and function, **Cell Communication and Signaling**. 2020 Jul 9;18(1):107.

2 Hui-Min Zhang¹, Hui Li¹, Gen-Xin Wang¹, Jun Wang, Yuan Xiang, You Huang, Chao Shen, Zhou-Tong Dai, Jia-Peng Li, Tong-Cun Zhang*, **Xing-Hua Liao*** MKL1/miR-5100/CAAP1 loop regulates autophagy and apoptosis in gastric cancer cells. **Neoplasia**. 2020 May;22(5):220-230.

3 Li JP¹, Zhang HM¹, Liu MJ¹, Xiang Y, Li H, Huang F, Li HH, Dai ZT, Gu CJ, **Liao XH***, Zhang TC*. MiR-133a-3p/FOXP3 axis regulates cell proliferation and autophagy in gastric cancer. **Journal of Cellular Biochemistry**. 2020 Jun;121(5-6):3392-3405.

4 Yang M¹, Chen J¹, Peng W, Li Q, Shao H, Tang G, Zhang TC, Takada Y, Ye L*, **Liao XH***. Efficient synthesis and cell migration inhibitory effect of substituted benzamidothiazolylpyrazole-capped AWD*I-NH₂. **Bioorganic & Medicinal Chemistry Letters**. 2020 Feb 15;30(4):126914.

2019

1 Yuan Xiang¹, Jia Peng Li¹, Wei Guo, Dan-Qun Wang, Ao Yao, Hui-Min Zhang, Feng Huang, Han-Han Li, Zhou-Tong Dai, Zi-Jiang Zhang, Hui Li, Yao Tan, Kun Chen, LeYuan Bao*, **Xing-Hua Liao***. Novel interactions between ER α -36 and STAT3 mediate breast cancer cell migration. **Cell Communication and Signaling**. 2019 Aug 13;17(1):93.

2 Jia-Peng Li¹, **Xing-Hua Liao^{1*}**, Yuan Xiang¹, Ao Yao, Li-Juan Fan, Hui Li, Zi-Jian Zhang, Feng Huang, Zhou-Tong Dai, Tong-Cun Zhang*. MKL1/miR34a/FOXP3 axis regulates cell proliferation in gastric cancer. **Journal of Cellular Biochemistry**. 2019 MAY 120(5):7814-7824.

3 Ao Yao¹, Yuan Xiang¹, Yu-Rui Si¹, Li-Juan Fan, Jia-Peng Li, Hui Li, Wei Guo, Hui-Xin He, Xing-Jie Liang, Le-Yuan Bao*, **Xing-Hua Liao***. PKM2 promotes glucose metabolism through a let-7a-5p/stat3/hnRNP-A1 regulatory feedback loop in breast cancer cells. **Journal of Cellular Biochemistry**. 2019 Apr;120(4):6542-6554.

4 Jia-Peng Li¹, Yuan Xiang¹, Li-Juan Fan, Ao Yao, Hui Li, **Xing-Hua Liao***. Long noncoding RNA H19 competitively binds miR-93-5p to regulate STAT3 expression in breast cancer. **Journal of Cellular Biochemistry**. 2019 Mar;120(3):3137-3148.

2018

1 Jia-Peng Li¹, **Xing-Hua Liao^{1*}**, Yuan Xiang¹, Ao Yao, Ru-Hui Song, Zi-Jian Zhang, Feng Huang, Zhou-Tong Dai, Tong-Cun Zhang*. Hyperoside and let-7a-5p synergistically inhibits lung cancer cell proliferation via inducing G1/S phase arrest. **Gene**. 2018 Sep 7;679:232-240.

2 Dengcheng Huang, Yu Zhou,* Yuan Xiang, Meijie Shu, Hongxiang Chen, Bing Yanga, and **Xinghua Liao***. Polyurethane/doxorubicin nanoparticles based on electrostatic interactions as pH-sensitive drug delivery carriers. **Polymer International**. 2018 September 67(9), 1186-1193.

2017

1 Yuan Xiang[#], **Xing-Hua Liao^{#*}**, Jia-Peng Li, Hui Li, Huan Qin, Ao Yao, Cheng-Xi Yu, Peng Hu, Wei Guo, Chao-Jiang Gu^{*}, Tong-Cun Zhang^{*}. Myocardin and Stat3 act synergistically to inhibit cardiomyocyte apoptosis. **Oncotarget**. 2017 Aug 24;8(59):99612-99623.

2 Yuan Xiang[#], **Xing-Hua Liao^{#*}**, Ao Yao, Huan Qin, Li-Juan Fan, Jia-Peng Li, Peng Hu, Hui Li, Wei Guo, Jun-Yan Li, Chao-Jiang Gu, Le-Yuan Bao^{*}, Tong-Cun Zhang^{*} MRTF-A-miR-206-WDR1 form feedback loop to regulate breast cancer cell migration. **Experimental Cell Research**. 2017 Oct 15 359 (2) 394–404.

3 Yuan Xiang[#], **Xing-Hua Liao^{#*}**, Cheng-Xi Yu, Ao Yao, Huan Qin, Jia-Peng Li, Peng Hu, Hui Li, Wei Guo, Chao-Jiang Gu, Tong-Cun Zhang^{*}. MiR-93-5p inhibits the EMT of breast cancer cells via targeting MKL-1 and STAT3 **Experimental Cell Research**. 2017 Aug 1;357(1):135-144.

4 **Xing Hua Liao^{#*}**, Yuan Xiang[#], Hui Li[#], De Liang Zheng, Yao Xu, Cheng Xi Yu, Jia Peng Li, Xiao Yu Zhang, Wei Bin Xing, Dong Sun Cao, Le Yuan Bao, Tong Cun Zhang^{*}. VEGF-A Stimulates STAT3 Activity via Nitrosylation of Myocardin to Regulate the Expression of Vascular Smooth Muscle Cell Differentiation Markers **Scientific Reports**. 2017 Jun 1;7(1):2660.

5 **Xing-Hua Liao^{#,*}**, Yuan Xiang[#], Cheng-Xi Yu[#], Jia-Peng Li, Hui Li, Qi Nie, Peng Hu, Jun Zhou, Tong-Cun Zhang^{*}. STAT3 is required for MiR-17-5p-mediated sensitization to chemotherapy-induced apoptosis in breast cancer cells. **Oncotarget**. 2017 Feb 28;8(9):15763-15774.

6 Hui Li[#], Yuan Xiang[#], Li-Juan Fan, Xiao-Yu Zhang, Jia-Peng Li, Cheng-Xi Yu, Le-Yuan Bao, Dong-Sun Cao, Wei-Bing Xing, **Xing-Hua Liao^{*}**, Tong-Cun Zhang^{*}.

Myocardin inhibited the gap protein connexin 43 via promoted miR-206 to regulate vascular smooth muscle cell phenotypic switch. **Gene**. 2017 Jun 15;616:22-30

7 Xing-Hua Liao^{#*}, Jun-Yan Li[#], Xiu-Mei Dong, Xiuhong Wang, Yuan Xiang, Hui Li, Cheng-Xi Yu, Jia-Peng Li, Bai-Yin Yuan, Jun Zhou*, Tong-Cun Zhang*. ER α inhibited myocardin-induced differentiation in uterine fibroids. **Experimental Cell Research**. 2017 Jan 1;350(1):73-82.

2016

1 Xiang Y[#], Lu DL[#], Li JP, Yu CX, Zheng DL, Huang X, Wang ZY, Hu P, **Liao XH^{*}**, Zhang TC*. Myocardin inhibits estrogen receptor alpha-mediated proliferation of human breast cancer MCF-7 cells via regulating MicroRNA expression. **IUBMB Life**. 2016 Jun;68(6):477-87.(共同通讯作者)

2015

1 Liao XH[#], Zheng L[#], He HP[#], Zheng DL, Wei ZQ, Wang N, Dong J, Ma WJ*, Zhang TC*. STAT3 regulated ATR via microRNA-383 to control DNA damage to affect apoptosis in A431 cells. **Cell Signal**. 2015 Nov;27(11):2285-95.

2 Liao XH[#], Wang N[#], Zhao DW, Zheng DL, Zheng L, Xing WJ, Ma WJ, Bao LY, Dong J, Zhang TC*. STAT3 Protein Regulates Vascular Smooth Muscle Cell Phenotypic Switch by Interaction with Myocardin. **J Biol Chem**. 2015 Aug 7;290(32):19641-52.

3 Wen-Jing Xing[#], **Xing-Hua Liao[#]**, Nan Wang[#], Dong-Wei Zhao, Li Zheng, De-Liang Zheng, Jian Dong*, Tong-Cun Zhang*. MRTF-A and STAT3 promote MDA-MB-231 cell migration via hypermethylating BRSM1. **IUBMB Life** 2015; 67(3):202-17.

4 Li weizhong[#], Wang nan^{#*}, Li man, Gong huiqin, **Liao xinghua**, Yang xiaolong,

Zhang tongcun*. Protein kinase C α inhibits myocardin-induced cardiomyocyte hypertrophy through the promotion of myocardin phosphorylation. **Acta Biochim Biophys Sin (Shanghai)**. 2015 Sep;47(9):687-95.

5 Li M[#], Wang N^{#*}, Gong HQ, Li WZ, **Liao XH**, Yang XL, He HP, Cao DS, Zhang TC*. Ca²⁺ signal-induced cardiomyocyte hypertrophy through activation of myocardin. **Gene**. 2015; 557: 43-51.

2014

1 **Xing-Hua Liao**[#], Nan Wang^{#*}, Dong-Wei Zhao, De-Liang Zheng, Li Zheng, Wen-Jing Xing, Hao Zhou, Dong-Sun Cao, Tong-Cun Zhang*. NF- κ B (p65) negatively regulates myocardin-induced cardiomyocyte hypertrophy through multiple mechanisms. **Cell Signal** 2014; 26(12):2738-2748

2 **Xing-Hua Liao**[#], Nan Wang^{#*}, Long-Yue Liu, Li Zheng, Wen-Jing Xing, Dong-Wei Zhao, Xue-Guang Sun, Peng Hu, Jian Dong, Tong-Cun Zhang*. MRTF-A and STAT3 synergistically promote breast cancer cell migration. **Cell Signal** 2014, 26(11):2370-2380

3 **Xing-Hua Liao**[#], Da-Lin Lu[#], Nan Wang^{#*}, Long-Yue Liu, Yue Wang, Yan-Qi Li, Ting-Bao Yan, Xue-Guang Sun, Peng Hu and Tong-Cun Zhang*. Estrogen receptor α mediates proliferation of breast cancer MCF-7 cells via a p21/PCNA/E2F1-dependent pathway. **FEBS Journal** 2014; 281(3):927-42.

4 **Xing-Hua Liao**[#], Yan-Qi Li[#], Nan Wang^{#*}, Li zheng, Wen-Jing Xing, Dong-Wei Zhao, Ting-Bao Yan, Yue Wang, Long-Yue Liu, Xue-Guang Sun, Peng Hu, Hao Zhou, Tong-Cun Zhang*. Re-expression and epigenetic modification of maspin induced apoptosis in MCF-7 cells mediated by myocardin. **Cell Signal** 2014; 26 (6) 1335–1346

5 Xing-Hua Liao[#], Yue Wang[#], Nan Wang^{#*}, Ting-Bao Yan, Wen-Jing Xing, Li Zheng, Dong-Wei Zhao, Yan-Qi Li, Long-Yue Liu, Xue-Guang Sun, Peng Hu, Tong-Cun Zhang*. Human chorionic gonadotropin (hCG) decreases human breast cancer cell proliferation and promotes differentiation. **IUBMB Life** 2014;66(5):352-60.

6 Xing-Hua Liao[#], Xiumei Dong[#], Chenyu Wu, Tao Wang, Fenyong Liu, Jun Zhou*, Tong-Cun Zhang*. Human cytomegalovirus immediate early protein 2 enhances myocardin-mediated survival of rat aortic smooth muscle cells. **Virus Research**. 2014;192 :85-91.

2013

1 Zhipeng Liu[#], Xueguang Luo[#], Lei Liu, Wenwen Zhao, Shu Guo, Yu Guo, Nan Wang, Hongpeng He, **Xinghua Liao**, Wenjian Ma, Hao Zhou, Tongcun Zhang. Histone acetyltransferase p300 promotes MKL1-mediated transactivation of catechol-O-methyltransferase gene. **Acta Biochimica et Biophysica Sinica** 2013; 45(12):1002-10.

2011

1 Xing-Hua Liao[#], Nan Wang[#], Qing-Xi Liu, Tao Qin, Bo Cao, Dong-Sun Cao and Tong-Cun Zhang*. Myocardin-related transcription factor-A induces cardiomyocyte hypertrophy. **IUBMB Life**, 2011; 63(1):54-61

2 Jun Zhou[#], **Xing-Hua Liao[#]**, Junyan Li, Chenyu Wu, Rui Xiao, Cailian Cheng, Dongsun Cao, Nan Wang, Tongcun Zhang. The synergistic effects of cytomegalovirus IEs and myocardin on cardiomyocyte hypertrophy and apoptosis. **FEBS Letter**, 2011, 5851082-1088

2010

15 Cao Xiaohong, Cui Yunqian, **Liao Xinghua**, Zhou Guangtian, Leo Thamm. Gene

cloning of phenolic acid decarboxylase from *Bacillus subtilis* and expression in top-fermenting yeast strains. **African journal of biotechnology**. 2010, 9(33):5284-5291

2009

1 Nan Wang, Zhen Zhou, **Xinghua Liao** and Tongcun Zhang. Role of microRNAs in cardiac hypertrophy and heart failure. **IUBMB Life**, 2009 Jun; 61(6):566-71

参与编写下列教材、著作：

授权专利

1: **廖兴华**、朱光平、李宣颖、雷萌、李银霞、方若丹、周俊. 一种台上便携垃圾桶，中国，ZL 201720712572.1

2: **廖兴华**，覃欢，项园，姚奥，范丽娟，姚凯，顾朝江，张同存.一种 CA215 与 CA15-3 联合检测乳腺癌患者的试剂盒，中国，ZL 201710712573.0

3: 张同存，胡广，顾朝江，柳浥时，**廖兴华**，一种靶向表达 CD30 表面抗原的细胞嵌合抗原受体，中国，ZL 201611246081.9

4: **廖兴华**，王君，项园，李佳蓬，张慧敏，黄凤，戴周彤，顾朝江，张同存，能同时表达 LMP1 和 CD30 双靶点 CAR 的质粒，CAR-T 细胞，构建方法及其应用，中国，ZL 201910419725.7

科研获奖

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联系方式

通信地址：

邮政编码：

电话： 68893368

E-mail : xinghualiao@wust.edu.cn