

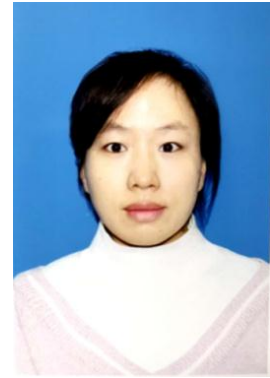
个人基本情况:

姓名: 赵沙沙

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教育经历:

1.2009/9- 2014/6, 华中科技大学, 生命科学与技术学院生物化学系, 硕博连读

2.2005/9-2009/6, 河南师范大学, 生命科学学院, 本科

工作经历:

1.2019/11 至今, 武汉科技大学, 生命科学与健康学院, 副教授

2.2015/03--2019/11, 武汉科技大学, 生命科学与健康学院, 讲师

招收研究生学科及方向: 生物化学与分子生物学; 细胞生物学

从事研究的学科专业领域及主要研究方向:

- (1) 细胞基因转录的基本机制
- (2) 胚胎干细胞定向分化
- (3) 干细胞分化相关 LncRNA 功能研究

主持或参加的科研项目

1. 国家自然科学基金青年项目, 细胞骨架细丝蛋白 A 在胚胎干细胞向早期神经细胞分化中的作用及其作用机制, 项目编号: 31501099, 2016.01-2019.12, 24万, 主持。
2. 国家自然科学基金面上基金项目, BRF1 在 RNA 聚合酶 I 指导的基因转录中的作用及其机制, 项目编号: 31671357, 2017.01-2020.12, 65 万, 参与。
3. 湖北省教育厅中青年人才项目, 长链非编码 RNA Pnky 与 Zic2 协同调控神经干细胞迁移的分子机制研究, 项目编号: Q20191104, 2019.09—2021.08, 2.0

万元，主持。

4. 疾病预防控制中心—横向项目，典型功能性物质拮抗 PM2.5 对不同类型细胞损伤及其机制研究，201812-201912，2.5 万，主持。

5. 武汉科技大学科技骨干培育项目，应用胚胎干细胞模型评估 PM2.5 的潜在胚胎发育毒性及茶多酚的拮抗作用研究，项目编号：2017xz028，201705-201805，1 万，主持。

发表的主要论文

1. Yuan Li, Xiang Mao, Xianyi Zhou, Yuting Su, Xiangyu Zhou, Kaituo Shi, **Shasha Zhao***. An optimized method for neuronal differentiation of embryonic stem cells in vitro, *Journal of Neuroscience Methods*, 2020, 330: 108486.
2. Feixia Peng[#], Ying Zhou[#], Juan Wang[#], Baoqiang Guo; Yun Wei, Huan Deng, Zihui Wu, Cheng Zhang, Kaituo, Yuan Li, Xin Wang, Paul Shore, **Shasha Zhao***, Wensheng Deng*. The transcription factor Sp1 modulates RNA polymerase III gene transcription by controlling BRF1 and GTF3C2 expression in human cells, *The Journal of Biological Chemistry*, 2020, 295(14):4617–4630.
3. Juan Wang[#], Kaituo Shi[#], Zihui Wu, Cheng Zhang, Yuan Li, Huan Deng, **Shasha Zhao***, Wensheng Deng*. Disruption of the interaction between TFIIA α/β and TFIIA recognition element inhibits RNA polymerase II gene transcription in a promoter context-dependent manner, *BBA-Gene Regulatory Mechanisms*, 2020, 1863(10): 194611.
4. Xiang Mao, Xun Hu, Yao Wang, Wei Xia, **Shasha Zhao***, Yanjian Wan*. Temporal trend of arsenic in outdoor air PM2.5 in Wuhan, China, in 2015–2017 and the personal inhalation of PM-bound arsenic: implications for human exposure, *Environmental Science and Pollution Research*, 2020, 27: 21654-21665.
5. Zilan Xiong*, **Shasha Zhao***, Xu Yan. Nerve Stem Cell Differentiation by a One-step Cold Atmospheric Plasma Treatment In Vitro, *JOVE-Journal of visualized experiments*, 2019, 143, e58663.
6. **Shasha Zhao**, Rui Han, Yuan Li, Chen Lu, Xingyu Chen, Zilan Xiong, Xiang Mao. Investigation of the mechanism of enhanced and directed differentiation of neural stem cells by an atmospheric plasma jet: A gene-level study, *Journal of Applied Physics*, 2019,12,16.

7. Ying Zhou, Yang Zhang, Wei He, Juan Wang, Feixia Peng, Liyun Huang, **Shasha Zhao***, Wensheng Deng*. Rapid Regeneration and Reuse of Silica Columns from PCR Purification and Gel Extraction Kits, *Scientific Reports*, 2018, 8(1):12870.
8. Juan Wang[#], **Shasha Zhao[#]**, Wei He, Yun Wei, Yang Zhang, Henry Pegg, Paul Shore, Stefan G. E.Roberts, Wensheng Deng. A transcription factor IIA-binding site differentially regulates RNA polymerase II-mediated transcription in a promoter context-dependent manner. *Journal of Biological Chemistry*, 2017, 292, 11873-11885.
9. Zilan Xiong[#], **Shasha Zhao[#]**, Xiang Mao[#], Xinpei Lu*, Guangyuan He*, Guangxiao Yang, Mingjie Chen, Musarat Ishaq, Kostya Ostrikov*, Selective neuronal differentiation of neural stem cells induced by nanosecond microplasma agitation, *Stem Cell Research*, 2014, 12 (2): 387-399.
10. Xiao Tan[#], **Shasha Zhao[#]**, Qian Lei[#], XinPei Lu*, Guangyuan He, Kostya Ostrikov, Single-cell-precision Microplasma-induced HepG2 Cancer Cell Apoptosis, *PloS One*, 2014, 9(6): e101299.
11. **Shasha Zhao[#]**, Zilan Xiong, Xiang Mao, Dandan Meng, Qian Lei, Yin Li, Pengyi Deng, Mingjie Chen, Min Tu, Xinpei Lu*, Guangxiao Yang*, Guangyuan He*, Atmospheric pressure room temperature plasma jets facilitate oxidative and nitrative stress and lead to endoplasmic reticulum stress dependent apoptosis in HepG2 cells, *PloS One*, 2013, 8 (8): e73665.
12. **Shasha Zhao[#]**, Zilan Xiong, Xiang Mao, Xinpei Lu, Guangyuan He, Guangxiao Yang, Combined Effect of N-Acetylcysteine (NAC) and Plasma on Proliferation of HepG2 Cells, *Plasma Science, IEEE Transactions on*, 2012, 40 (9): 2179-2184.

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