



蒋卫，教授

● **教育和工作背景:**

2005 年，北京大学，生物科学专业，学士；

2010 年，北京大学，细胞生物学专业，博士；

2011—2012，北卡罗莱纳大学医学院，Lineberger Comprehensive Cancer Center，博士后；

2012—2015，哈佛医学院/波士顿儿童医院，Program in Cellular & Molecular Medicine，博士后；

2015—2025，武汉大学医学研究院，教授、博士生导师；

2025—至今，南昌大学生物医学创新研究院/基础医学院，教授、博士生导师。

● **研究兴趣、领域:**

课题组主要致力于结合发育生物学和遗传学/表观遗传学的基础研究，应用于人多能干细胞分化模型来揭示疾病发生的分子机制，关注组蛋白修饰、长非编码 RNA 以及细胞代谢层面的细胞命运决定的分子调控机制及其失衡与疾病（糖尿病）易感/发生之间的功能关联；同时以此获得功能性细胞用于再生医学（糖尿病的细胞治疗）。研究技术主要包括人多能干细胞建立和维持、定向诱导分化（早期胚层分化、内胚层胰岛分化），基因编辑，组织工程技术等。

近年以通讯作者（含共同）在 Developmental Cell、Nature Chemical Biology、Nature Communications、Nucleic Acids Research、Genome Biology、Cell Discovery、Redox Biology、Development、Stem Cell Reports、Theranostics 等国际知名期刊发表研究论文 30 余篇；申请专利 13 项，8 项已获授权。获批国家基金委原创探索项目、重大研究计划培育项目、面上项目等。

● **学术兼职:**

第二届湖北省医学伦理专家委员会，委员，2022-2027

Science Bulletin, 编委成员，2018-2022

担任包括 Nat Commun, Cell Reports, Genome Biol, Cell Genomics, National Science Review, Acta Biomaterialia 等在内的数十个杂志的审稿人以及科技部、人社部、国家基金委、多个省市科研人才项目的评审专家。

● **主要成果、荣誉、奖励（代表性即可，原则上不超过 10 项）：**

- 1) Jie Yang, Yikang Yang, Xiafei Zhang, Chenchao Yan, Liwen Jiang, Donghui Zhang, **Wei Jiang***. (28 Oct 2025). HDAC2-mediated recruitment of METTL3 to chromatin regulates human embryonic stem cell differentiation. *Cell Reports*. 2025 Oct 28;44(10):116414. 影响因子: 6.9, JCR Q1.
- 2) Mao Li[#], Pei Lu[#], Jie Yang[#], Chenchao Yan, Yikang Yang, **Wei Jiang***. The LINC01612-DVL2-WNT axis promotes human endoderm differentiation. *Stem Cell Reports*. 2025; 20(11):102682. 影响因子: 5.1, JCR Q1.
- 3) Shanshan Wen[#], Ran Zheng[#], Chegao Cai*, **Wei Jiang***. Chemical-based epigenetic reprogramming to advance pluripotency and totipotency. *Nature Chemical Biology*. 2025 Apr 18;21(5):635–647. 影响因子: 13.7, JCR Q1.
- 4) Heng Tang[#], Shaoqing Han[#], Jie Yang[#], Xin Jiang, Yi Zhang, Junran Peng, Fang Wang, Xiang Li, Xiang Zhou, **Wei Jiang***, Xiaocheng Weng*. Enhanced or reversible RNA N6-methyladenosine editing by red/far-red light induction. *Nucleic Acids Research*. 2025 Mar 18;53(5): gkaf181. 影响因子: 13.1, JCR Q1.
- 5) Yinglei Li, Ran Zheng, Lai Jiang, Chenchao Yan, Ran Liu, Luyi Chen, Wenwen Jin, Yuanyuan Luo, Xiafei Zhang, Jun Tang, Zhe Dai, **Wei Jiang***. A noncoding variant confers pancreatic differentiation defect and contributes to diabetes susceptibility by recruiting RXRA. *Nature Communications*. 2024 Nov 12;15(1):9771. 影响因子: 14.7, JCR Q1.
- 6) Ying Yi, Xianchun Lan, Yinglei Li, Chenchao Yan, Jing Lv, Tianzhe Zhang, **Wei Jiang***. Fatty acid synthesis and oxidation regulate human endoderm differentiation by mediating SMAD3 nuclear localization via acetylation. *Developmental Cell*. 2023 Sep 25;58(18):1670-1687. 影响因子: 13.417, JCR Q1.
- 7) Pei Lu[#], Jie Yang[#], Mao Li[#], Shanshan Wen, Tianzhe Zhang, Chenchao Yan, Ran Liu, Yu Xiao, Xinghuan Wang, **Wei Jiang***. A desert lncRNA HIDDEN regulates human endoderm differentiation via interacting with IMP1 and stabilizing FZD5

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- mRNA. **Genome Biology**. 2023 Apr 24;24(1):92. 影响因子: 18.01, JCR Q1.
- 8) Xianchun Lan, Song Ding, Tianzhe Zhang, Ying Yi, Conghui Li, Wenwen Jin, Jian Chen, Kaiwei Liang, Hengbin Wang, **Wei Jiang***. PCGF6 controls neuroectoderm specification of human pluripotent stem cells by activating SOX2 expression. **Nature Communications**. 2022 Aug 6;13(1):4601. 影响因子: IF 17.694, JCR Q1.
- 9) Tianzhe Zhang, Ran Zheng, Mao Li, Chenchao Yan, Xianchun Lan, Bei Tong, Pei Lu, **Wei Jiang***. Active endogenous retroviral elements in human pluripotent stem cells play a role in regulating host gene expression. **Nucleic Acids Research**. 2022 May 20;50(9): 4959-4973. 影响因子: 19.16, JCR Q1.
- 10) Lai Jiang, Yiru Shen, Yajing Liu, Lei Zhang*, **Wei Jiang***. Making human pancreatic islet organoids: Progresses on the cell origins, biomaterials and three-dimensional technologies. **Theranostics**. 2022 Jan 3;12(4):1537-1556. 影响因子: 11.556, JCR Q1.
- 11) Chenchao Yan, Yajing Meng, Jie Yang, Jian Chen*, **Wei Jiang***. Translational landscape in human early neural fate determination. **Development**. 2023 Mar 15;150 (6): dev201177. 影响因子: 6.862, JCR Q1.
- 12) Lai Jiang, Chenchao Yan, Ying Yi, Lihang Zhu, Zheng Liu, Donghui Zhang*, **Wei Jiang***. Cell size regulates human endoderm specification through actomyosin-dependent AMOT-YAP signaling. **Stem Cell Reports**. 2024 Aug 13;19(8):1137-1155. 影响因子: 5.9, JCR Q1.
- 13) Ran Zheng#, Ting Geng#, Dan-Ya Wu#, Tianzhe Zhang, Hainan He, Hai-Ning Du, Donghui Zhang*, Yi-Liang Miao*, **Wei Jiang***. Derivation of feeder-free human extended pluripotent stem cells. **Stem Cell Reports**. 2021 Jul 13;16(7):1686-1696. 影响因子: 7.765, JCR Q1.
- 14) Jie Yang#, Pei Lu#, Mao Li, Chenchao Yan, Tianzhe Zhang, **Wei Jiang***. GATA6-AS1 regulates GATA6 expression to modulate human endoderm differentiation. **Stem Cell Reports**. 2020 Aug 13;15(3):694-705. 影响因子: 6.032, JCR Q1.

● **联系方式:**

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