



徐洪 博士，研究员  
省级人才

### ● 教育和工作背景:

- 1996 年，山东师范大学，生物学专业，理学学士；
- 1999 年，中国药科大学，药理学专业，理学硕士；
- 2004 年，中科院上海生化细胞所，生化分子生物学专业，理学博士；
- 2004-2010，宾夕法尼亚大学医学院，博士后；
- 2011-至今，南昌大学生物医学创新研究院，研究员、PI、博士生导师。

### ● 研究兴趣、领域:

课题组主要致力于神经环路发育、再生与疾病，通过构建动物疾病模型，研究发育相关神经精神疾病的分子、细胞和环路致病机制，探索潜在诊疗靶标。先后主持国家自然科学基金项目 5 项，获批 2 次省级人才，近年来以通讯作者在 *Journal of Neuroscience*、*Am J Pathology*、*Neuroscience Bulletin* 等杂志发表研究论文 10 余篇。

### ● 学术兼职:

中国动物学会斑马鱼分会委员、江西省神经科学会理事、江西省心理学会孤独症分会副主任委员、江西省细胞生物学会理事

### ● 主要成果、荣誉、奖励:

1. Hu H, Pang Y, Luo H, Tong B, Wang F, Song Y, Ying Q, Xu K, Xiong C, Peng Z, **Xu H\***, Zhang X\*. Noninvasive Light Flicker Stimulation Promotes Optic Nerve Regeneration by Activating Microglia and Enhancing Neural Plasticity in Zebrafish. *Invest Ophthalmol Vis Sci*. 2024 May 1;65(5):3.
2. Liu ZZ, Liu LY, Zhu LY, Zhu J, Luo JY, Wang YF, **Xu H\***. Plexin B3 guides axons to cross the midline in vivo. *Front Cell Neurosci*. 2024 Apr 2;18:1292969.
3. Zhu J., Wang H. T., Chen Y. R., Yan L. Y., Han Y. Y., Liu L. Y., Cao Y., Liu Z. Z., **Xu H. A.\*** The Joubert Syndrome Gene *arl13b* is Critical for Early Cerebellar Development in Zebrafish. *Neurosci Bull*. 2020 Sep;36(9):1023-34.

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4. Long X. Y., Wang S., Luo Z. W., Zhang X., **Xu H\***. Comparison of three administration modes for establishing a zebrafish seizure model induced by N-Methyl-D-aspartic acid. *World J Psychiatry*. 2020 Jul 19;10(7):150-61.
  5. Chen Y., Wang H., Wang F., Chen C., Zhang P., Song D., Luo T., **Xu H. \***, Zeng X\*. Sperm motility modulated by Trpv1 regulates zebrafish fertilization. *Theriogenology*. 2020 Jul 15;151:41-51.
  6. Zhu L., Chen L., Yan L., Perkins B. D., Li S., Li B.\* , **Xu H. A. \***, Li X. J. \* Mutant Ahi1 Affects Retinal Axon Projection in Zebrafish via Toxic Gain of Function. *Frontiers in cellular neuroscience*. 2019;13:81.
  7. Luo Z. W., Wang H. T., Wang N., Sheng W. W., Jin M., Lu Y., Bai Y. J., Zou S. Q., Pang Y. L., **Xu H. \***, Zhang X\*. Establishment of an adult zebrafish model of retinal neurodegeneration induced by NMDA. *International journal of ophthalmology*. 2019;12(8):1250-61.
  8. Liu Z. Z., Guo J., Lu Y., Liu W., Fu X., Yao T., Zhou Y., **Xu H. A. \*** Sema3E is required for migration of cranial neural crest cells in zebrafish: Implications for the pathogenesis of CHARGE syndrome. *International journal of experimental pathology*. 2019 Aug 28.
  9. Sheng W., Lu Y., Mei F., Wang N., Liu Z. Z., Han Y. Y., Wang H. T., Zou S., **Xu H. \***, Zhang X.\* Effect of Resveratrol on Sirtuins, OPA1, and Fis1 Expression in Adult Zebrafish Retina. *Investigative ophthalmology & visual science*. 2018 Sep 4;59(11):4542-51.
  10. Liu Z. Z., Zhu J., Wang C. L., Wang X., Han Y. Y., Liu L. Y., **Xu H. A. \*** CRMP2 and CRMP4 Are Differentially Required for Axon Guidance and Growth in Zebrafish Retinal Neurons. *Neural plasticity*. 2018;2018:8791304.
  11. Liu Z. Z., Wang Z. L., Choi T. I., Huang W. T., Wang H. T., Han Y. Y., Zhu L. Y., Kim H. T., Choi J. H., Lee J. S., Kim H. G., Zhao J., Chen Y., Lu Z., Tian X. L., Pan B. X., Li B. M., Kim C. H.\* , **Xu H. A. \*** Chd7 Is Critical for Early T-Cell Development and Thymus Organogenesis in Zebrafish. *The American journal of pathology*. 2018 Apr;188(4):1043-58.
  12. Dell A. L., Fried-Cassorla E., **Xu H. \***, Raper J. A.\* cAMP-induced expression of neuropilin1 promotes retinal axon crossing in the zebrafish optic chiasm. *The*

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Journal of neuroscience : the official journal of the Society for Neuroscience.  
2013 Jul 3;33(27):11076-88.

13. 江西省 2023 年度自然科学二等奖（排名第一）

● **联系方式:**

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