



马朝林 博士

研究员，博士生导师

● **教育和工作背景:**

1985/09-1988/06, 湖南农学院衡阳分院, 生物学专业, 大学;
1988/06-1998/08, 湖南省南县华阁中学, 教师;
1998/09-2001/06, 山东师范大学, 动物学专业, 理学硕士;
2001/09-2004/06, 复旦大学, 神经生物学专业, 理学博士;
2004/07-2006/02, 美国亚利桑那州立大学, 生物医学工程专业, 博士后;
2006/03-2010/08, 美国亚利桑那州立大学, 医学工程, Research Scientist;
2010/09-2013/06, 美国达特茅斯学院, 心理系专业, Research Scientist;
2015/12-至今, 南昌大学生命科学研究院, 研究员, 博士生导师。

● **研究兴趣、领域:**

课题组主要研究方向为非人灵长动物前额叶皮层的认知功能, 利用高通量神经集群记录方法, 开展植入式脑机接口的动物研究, 探索认知活动过程中多个脑区的功能作用和协作机制, 并结合多模态神经信号获取手段, 开展神经调控的作用机制研究和定量评估。自2013年回国以来, 主持国家自然科学基金项目3项、省自然科学基金项目3项。以第一或通讯作者发表SCI论文30余篇, 包括Biological Psychiatry, Biomedicine & Pharmacotherapy, Frontier Neuroscience, Proceedings of the IEEE, Neuroscience Bulletin等; 发表专利10多个; 获得江西省自然科学奖一等奖, 上海市自然科学奖二等奖。

● **主要成果、荣誉、奖励（代表性即可，原则上不超过 10 项）:**

[1] Minzhe Yang, Qiangpei Fu, Xu Hu, Baoming Li and **Chaolin Ma***. 2022. Behavior of Rats in a Self-Paced Risky Decision-Making Task Based on Definite Probability. *Brain Sci.* June 12(795): 1-13.

[2] Weiming Sun, Dong X, Yu G, Shuai L, Yuan Y, **Chaolin Ma***. 2021. Transcranial direct current stimulation in patients after decompressive craniectomy: a finite element model to investigate factors affecting the cortical electric field. *J Int Med Res.* Feb; 49(2):300060520942112.

[3] Yan Ma, Weiming Sun, Nan Zhou, Jiping He, **Chaolin Ma***. 2021. Neurons in Primary Motor Cortex Encode External Perturbations during an Orientation Reaching Task. *Brain Sci.* Aug 25;11(9):1125.

[4] Weiming Sun, **Chaolin Ma***, Jiang Xu, Jiping He. 2021. Reduction in post-spinal cord injury spasticity by combination of peripheral nerve grafting and acidic fibroblast growth factor infusion in monkeys. *J Int Med Res.* Jun; 49(6): 3000605211022294.

[5] Jianbo Yu, Xufeng Liao, Yanzi Zhong , Yongqiang Wu, Xinsheng Lai,, Huifeng Jiao, Min Yan, Yu Zhang, **Chaolin Ma*** and Shunqi Wang*. 2021. The Candidate Schizophrenia Risk Gene Tmem108 Regulates Glucose Metabolism Homeostasis. *Front. Endocrinol.* 12:770145.

[6] Xuan Ma, **Chaolin Ma***, Peng Zhang, Tao Kang and Jiping He*. 2017. Neurons in dorsal premotor cortex represent the switching of intended hand path in a delayed reaching task. *Journal of Integrative Neuroscience.* 1-18.

[7] Jie Luo, Hongfei Zhang, Jing Lu, **Chaolin Ma***, Tingtao Chen *. 2021. Antidiabetic effect of an engineered bacterium *Lactobacillus plantarum*-pMG36e-GLP-1 in monkey model. *Synth Syst Biotechnol.* Sep 17;6(4):272-282.

[8] **Chaolin Ma***, Xuan Ma, Jing Fan and Jiping He*. 2017. Neurons in Primary Motor Cortex Encode Hand Orientation in a Reach-to-grasp Task. *Neuroscience Bulletin.* Online. 4:383-395.

[9] Xuan Ma, **Chaolin Ma***, Jian Huang, Peng Zhang, Jiang Xu and Jiping He. 2017. Decoding Lower Limb Muscle Activity and Kinematics from Cortical Neural Spike Trains during Monkey Performing Stand and Squat Movements. *Frontiers in Neuroscience*. 11:1-16.

[10] **Chaolin Ma***, Xuan Ma, Peng Zhang, Xinying Cai and Jiping He. 2016. Neurons in Dorsal Premotor Cortex Adapted to Abrupt External Perturbation in Reaching Behavior. *Journal of Medical and Biological Engineering*. 1: 1-10.

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