



陈乃宏 研究员，博士生导师，中国医学科学院 药物研究所 研究员

1993年 考取国费奖学金，

1997年3月 于日本 国立 埼玉大学 获博士学位(Ph. D);

1997.04—2000.07 日本 三菱公司 生命科学研究所 博士后/外国人研究员;

2000.07—2001.09 日本 理化研究所 前沿研究部门 研究员;

2002.09—2004.10 日本 北里大学 医学院 客座教授 (Visiting Professor) ;

2001年9月- 就职于中国医学科学院 药物研究所 研究员

兼任 中国药理学会副秘书长，

中国药理学会 神经精神药理专业委员会 副主任委员，

中国药理学会 补益药药理专业委员会 主任委员，

北京市药理学会 神经精神药理专业委员会 副主任委员

本课题组主要从事神经药理学，神经分子生物学，中药药理学，神经系统疾患及炎症相关疾患的创新药物开发及机理研究。近年来主持和参与国内外科研项目十余项，包括主持国家自然科学基金委-【重点项目】和【面上项目】，国家科技部-【创新药物重大专项】，教育部博士点基金等课题；子课题主持或参与【“十五”国家科技攻关项目】、国家科技部【973】项目、国家科技部【863】项目、国家自然科学基金委【生物小分子重大项目】、日本科技厅、日本学术振兴会、日中医学学会等科研项目研究。目前已主编和参与学术专著10余部，申请专利3项，参与完成的项目获得2010年中华医学科技奖二等奖。

#### 主要研究方向：

神经分子生物学，神经药理学，中药药理学，同时进行创新药物的研发，主要研究内容包括：1、抗神经退行性疾病（PD/AD）创新药物研发及机制分析；2、荧光可视化技术在神经精神系统药物研究中的应用；3、抗抑郁症创新药物研发及机制分析；4、抗脑缺血创新药物研发及机制研究；5、基于CKLF1为靶点的创新药物研发及机制分析；6、天然产物及中药创新药物的发现及作用机制研究。

2008年以来发表学术论文60余篇，其中SCI收录30余篇。

1. Sun JD, Liu Y, Yuan YH, Li J, Nai-hong CHEN\*. Gap Junction Dysfunction in the Prefrontal Cortex Induces Depressive-Like Behaviors in Rats. *Neuropsychopharmacology*. 2012;37(5):1305-1320.

2. Ning N, Hu JF, Sun JD, Han N, Zhang JT\*, [Nai-hong CHEN\\*](#). (-)Clausenamide facilitates synaptic transmission at hippocampal Schaffer collateral-CA1 synapses. *European Journal of Pharmacology*. 2012;682(1-3):50-55.
3. Ling-Lei Kong, Jin-Feng Hu, Wei Zhang, Yu-He Yuan, Ning Han, [Nai-hong CHEN\\*](#). C19, a C-terminal peptide of chemokine-like factor 1, protects the brain against focal brain ischemia in rats. [Neuroscience Letters](#). 2012;508(1):13–16.
4. Sun F, Sun JD, Han N, Li CJ, Yuan YH, Zhang DM, [Nai-hong CHEN\\*](#). Polygalasaponin F induces long-term potentiation in adult rat hippocampus via NMDA receptor activation. *Acta pharmacologica sinica*. 2012. (on line)
5. Hu JF, Niu F, Ning N, Duan WZ, Chu SF, Xue W, Yuan YH, [Nai-hong CHEN\\*](#), Zhang JT\*. Activation of ERK1/2-CREB pathway during potentiating synaptic transmission of (-)clausenamide in rat dentate gyrus. *Journal of asian natural products research*. 2012;14(3):256-262.
6. Lin Yang, Lirui Qiao, Dan Xie, Yuhe Yuan, [Naihong Chen](#), Jungui Dai\*, Shunxing Guo. 2-(2-Phenylethyl)chromones from Chinese eaglewood. *Phytochemistry*. 2012;76C: 92–97.
7. Na NING, Jin-feng HU, Yu-he YUAN, Xin-yuan ZHANG, Jun-gui DAI, [Nai-hong CHEN\\*](#). Huperzine A derivative M3 protects PC12 cells against sodium nitroprusside-induced apoptosis. [Acta Pharmacol Sin](#). 2012;33(1):34-40.
8. Zhi-Peng Li, Jin-Feng Hu, Ming-Na Sun, Hai-Jie Ji, Ming Zhao, Dong-Hui Wu, Guang-Yan Li, Gang Liu, [Nai-hong CHEN\\*](#). Effect of compound IMMLG5521, a novel coumarin derivative, on carrageenan-induced pleurisy in rats. *European Journal of Pharmacology*. 2011;661(1-3):118-123.
9. Bo-Yu Li, Yun Zhang, Yu-he Yuan, [Nai-hong CHEN\\*](#). A new perspective in Parkinson's Disease, chaperone-mediated autophagy. *Parkinsonism and Related Disorders*. 2011;17(4): 231-235.
10. Jin-Feng Hu, Xiu-Yun Song, Shi-Feng Chu, Ji Chen, [Nai-hong CHEN\\*](#). Inhibitory effect of ginsenoside Rg1 on lipopolysaccharide-induced microglial activation in mice. *Brain Research*. 2011;1374:8-14.
11. Kai-Li Ma, Yu-He Yuan, Lian-Kun Song, Ning Han, [Nai-hong CHEN\\*](#). Over-expression of  $\alpha$ -synuclein 98 triggers intracellular oxidative stress and enhances susceptibility to rotenone. *Neuroscience Letters*. 2011;491(2):148-152.
12. Ling-Lei Kong, Jin-Feng Hu, Wei Zhang, Yu-He Yuan, Kai-Li Ma, Ning Han, [Nai-hong CHEN\\*](#). Expression of chemokine-like factor 1 after focal cerebral ischemia in the rat. [Neuroscience Letters](#). 2011;505(1):14-18.
13. LI Chuang-Jun, YANG Jing-Zhi, YU Shi-Shan, ZHANG Dong-Ming\*, XUE Wei, YUAN Yu-He, [CHEN Nai-Hong](#). Triterpenoid Saponins and Oligosaccharides from the Roots of *Polygala tenuifolia* Willd. *Chinese Journal of Natural Medicines*. 2011;9(5):321-328.
14. Li BY, Yuan YH, Hu JF, Zhao Q, Zhang DM, [Nai-hong CHEN\\*](#). Protective effect of Bu-7, a flavonoid extracted from *Clausena lansium*, against rotenone injury in

15. Jin-Feng Hu, Shi-Feng Chu, Na Ning, [Naihong Chen\\*](#), Jun-Tian Zhang\*. Protective effect of (-)-clausenamide against A $\beta$ -induced neurotoxicity in differentiated PC12 cells. [Neuroscience Letters](#). 2010;483(1):78-82.
16. Hai-Jie Ji, Jin-Feng Hu, Yong-Hui Wang, Xiao-Yu Chen, Ran Zhou, [Naihong Chen\\*](#). Osthole improves chronic cerebral hypoperfusion induced cognitive deficits and neuronal damage in hippocampus. *European journal of pharmacology*. 2010;636(1-3): 96-101.
17. Wei Zhang, Hiroshi Kudo, Kengo Kawai, [Naihong Chen\\*](#), Terumi Takahara\*. Tumor necrosis factor- $\alpha$  accelerates apoptosis of steatotic hepatocytes from a murine model of non-alcoholic fatty liver disease. *Biochemical and biophysical research communications*. 2010;91(4):1731-1736.
18. Zhi-Jun Liu, Ming Zhao Yun Zhang, Jian-Fei Xue, [Naihong Chen\\*](#). Ginsenoside Rg1 Promotes Glutamate Release Via a Calcium/Calmodulin-dependent Protein Kinase II -dependent Signaling Pathway. *Brain Research*. 2010;1333:1-8.
19. Gang Li, Dongmei Wang, Mingna Sun, Guangyan Li, Jinfeng Hu, Yun Zhang, Yuhe Yuan, Haijie Ji, [Naihong Chen\\*](#), Gang Liu\*. Discovery and Optimization of Novel 3-Piperazinyl Coumarin Antagonist of Chemokine-like factor 1 with oral Anti-asthma activity in mice. *Journal of medicinal chemistry*. 2010;53(4):1741–1754.
20. Zhen-Zhen Wang, Gang Li, Xiao-Yu Chen, Ming Zhao, Yu-He Yuan, Xiao-Liang Wang, [Naihong Chen\\*](#). Chemokine-like factor 1, a novel cytokine, induces nerve cell migration through the non-extracellular Ca<sup>2+</sup>-dependent tyrosine kinases pathway. *Brain Research*. 2010;1308:24-34.
21. Yuhe Yuan, Jiandong Sun, Ming Zhao, Jinfeng Hu, Xiaoliang Wang, Guohua Du, [Naihong Chen\\*](#). Overexpression of  $\alpha$ -synuclein down-regulates BDNF expression. *Cellular and molecular neurobiology*. 2010;30(6): 939-946.
22. Wang YZ, Wang YS, Chu SF, [Chen NH](#), Zhang JT\*. Protopanaxatriol metabolites identified by LC-MS/MS after oral administration in mice. *Int J Clin Pharmacol Ther*. 2010;48(4):282-90.
23. Wei Xue, Jin-feng Hu, Yu-He Yuan, Jian-dong Sun, Bo-Yu Li, Dong-Ming Zhang, Chuang-Jun Li, [Naihong Chen\\*](#). Polygalasaponin XXXII from polygala tenuifolia root improves hippocampal-dependent learning and memory. *Acta Pharmacologica Sinica*. 2009;30(9):1211-1219.
24. Wen-Bin He, Ming Zhao, Takeo Machida, [Naihong Chen\\*](#). Effect of corticosterone on developing hippocampus: Short-term and long-term outcomes. *Hippocampus*. 2009;19(4):338-349.
25. Wen-Bin He, Jun-Long Zhang, Jin-Feng Hu, Takeo Machida, [Naihong Chen\\*](#). Effects of Glucocorticoids on Age-Related Impairments of Hippocampal Structure and Function in Mice. *Cellular and molecular neurobiology*. 2008;28(2):277-391.

26. Maoluo Gan, Yanling Zhang, Sheng Lin, Naihong Chen\*, Jianguong Shi\*. Glycosides from the Root of Iodes cirrhosa. Journal of natural products. 2008;71(4):647-654.
27. Jin-feng Hu, Wei Xue, Na Ning, Yu-he Yuan, Jun-tian Zhang, Naihong Chen\*, Ginsenoside Rg1 activated CaMKII $\alpha$  mediated extracellular signal-regulated kinase/mitogen activated protein kinase signaling pathway, Acta Pharmacologica Sinica, 2008;29(9):1119-1126 .
28. Yu-heYuan, Jin Jin, Bo Yang, Wei Zhang, Yun Zhang, Jin-feng Hu, Naihong Chen\*. Overexpressed Alpha-synuclein Regulated the Nuclear Factor-kappaB Signal Pathway. Cellular and molecular neurobiology. 2008;28(1):21-33.
29. Yu-Zhu Wang, Ji Chen, Shi-Feng Chu, Yong-Sheng Wang, Xiao-Ying Wang, Naihong Chen, and Jun-Tian Zhang. Improvement of Memory in Mice and Increase of Hippocampal Excitability in Rats by Ginsenoside Rg1's Metabolites Ginsenoside Rh1 and Protopanaxatriol. Journal of Pharmacological Sciences. 2008;109(4):504-510.
30. Li Chuang-jun, Yang Jingzhi, Yu Shihan, Chen Naihong, Xue Wei, Hu jingfeng, Zhang Dongming\* Triterpenoid saponins with neuroprotective effects from the roots of Polygala tenuifolia. Planta Medica, 2008;74:133-141.

© 中国医学科学院药物研究所 保留所有版权

地址: 北京市宣武区先农坛街一号 邮政编码: 100050 电话: 010-63036794 传真: 010-63017757

Address: 1 Xian Nong Tan Street Zip Code: 100050 Beijing, China Tel: +86(10)63036794 Fax: +86(10)63017757

京ICP备08010843号

京公网安备: 110402450008号