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王 毅 教授

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一、个人简介

王毅，教授、博士生导师，环境与慢性病研究中心，辽宁省高等学校杰出青年学者成长计划入选者、沈阳市中青年科技创新人才支持计划入选者。

二、教育经历

1996-2001年：中国医科大学 预防医学 本科

2001-2006年：中国医科大学 劳动卫生与环境卫生学 博士（硕博连读）

三、工作经历（包括博士后及出国进修经历）

2006-2009年：中国医科大学 公共卫生学院 尘肺研究室 讲师

2009-2014年：中国医科大学 公共卫生学院 尘肺研究室 副教授

2012-2013年： 美国德克萨斯大学 休斯顿医学中心 访问学者（国家留学基金委资助）

2014-2015年： 中国医科大学 公共卫生学院 尘肺研究室 教授

2015-至今： 中国医科大学 公共卫生学院 环境与慢性病研究中心 教授

四、研究方向

神经内分泌毒理学、神经干细胞毒理学

五、主持课题情况

国家自然科学基金：GPER1介导的小胶质细胞炎性激活在壬基酚神经毒性中的作用及机制。2020-2023；54万元

辽宁省自然科学基金：孕哺期壬基酚暴露对子代神经干/前体细胞增殖能力的影响及机制研究。2019-2022年；5万元

沈阳市中青年科技创新人才支持计划项目：经典/非经典ER在孕哺期壬基酚暴露致子代海马炎症反应中的作用及意义。2020-2022；10万元

辽宁省自然科学基金：孕期及哺乳期壬基酚暴露对子代神经干/前体细胞的影响。2016-2019年；5万元

辽宁省高等学校杰出青年学者成长计划：脑发育关键期碘营养对神经干/前体细胞的影响。2012-2015年；12万元

国家自然科学基金：碘缺乏损伤仔鼠海马长时程突触可塑性的钙信号转导机制。2009-2011年；20万元

辽宁省科学技术基金：碘缺乏及甲状腺功能减退对长时程可塑性的影响及其机制。2009-2011年；5万元

中国医科大学“十二五”医学教育科学研究课题：应用CBS整合临床医学与尘肺病教学。2013-2014年；1万元

横向合作项目：喜炎平注射液抑制以小胶质细胞激活为核心的神经炎症的机制研究。2017-2018；15万元

六、获得科学技术奖情况

1. 辽宁省科技进步奖三等奖：脑发育关键期不同摄碘量对脑神经发育及智力影响的应用基础研究。2016年；第三完成人。
2. 辽宁省科学技术科技进步二等奖：碘缺乏对学龄儿童智力损伤的调查及致脑发育障碍机制的研究。2011年；第三完成人。
3. 中华预防医学会科学技术三等奖：碘缺乏对学龄儿童智力损伤的调查及致脑发育障碍机制的研究。2011年；第三完成人。
4. 高等学校科学研究优秀成果二等奖：砷代谢模式与毒性作用关系及其影响因素研究。2010年；第七完成人。

七、文章发表情况

1. You M, Gu W, Li M, Qiu Z, Li S, Jiang Z, Yao D, Xu Y, **Wang Y***. Perinatal exposure to nonylphenol impairs dendritic outgrowth of cerebellar Purkinje cells in progeny. *Chemosphere*. 2018 Nov;211:758-766.
2. Zhai L, Zhao J, Zhu Y, Liu Q, Niu W, Liu C, **Wang Y***. Downregulation of leptin receptor and kisspeptin/GPR54 in the murine hypothalamus contributes to male hypogonadism caused by high-fat diet-induced obesity. *Endocrine*. 2018 Oct;62(1):195-206.
3. Li S, Jiang Z, Chai W, Xu Y, **Wang Y***. Autophagy activation alleviates nonylphenol-induced apoptosis in cultured cortical neurons. *Neurochem Int*. 2019 Jan;122:73-84.

4. Chen Y, Wu X, Wu R, Sun X, Yang B, **Wang Y***, Xu Y. Changes in profile of lipids and adipokines in patients with newly diagnosed hypothyroidism and hyperthyroidism. *Sci Rep*. 2016 May 19;6:26174.
5. **Wang Y**, Wei W, Song B, Wang Y, Dong J, Min H, Chen J*. Developmental hypothyroxinemia caused by mild iodine deficiency leads to HFS-induced LTD in rat hippocampal CA1 region: involvement of AMPA receptor. *Mol Neurobiol*. 2014 Oct;50(2):348-57.
6. **Wang Y**, Wei W, Wang Y, Dong J, Song B, Min H, Teng W*, Chen J*. Neurotoxicity of developmental hypothyroxinemia and hypothyroidism in rats: Impairments of long-term potentiation are mediated by phosphatidylinositol 3-kinase signaling pathway. *Toxicol Appl Pharmacol*. 2013 Sep 1;271(2):257-65.
7. **Wang Y**, Zhong J, Xu H, Wei W, Dong J, Yu F, Wang Y, Gong J, Shan Z, Teng W, Chen J*. Perinatal iodine deficiency and hypothyroidism increase cell apoptosis and alter doublecortin and reelin protein expressions in rat cerebellum. *Arch Med Res*. 2012 May;43(4):255-64.
8. **Wang Y**, Zhong J, Wei W, Gong J, Dong J, Yu F, Wang Y, Chen J*. Developmental iodine deficiency and hypothyroidism impair neural development, upregulate caveolin-1, and downregulate synaptotagmin-1 in the rat cerebellum. *Biol Trace Elem Res*. 2011 Dec;144(1-3):1039-49.
9. **Wang Y**, Hou Y, Dong J, Xu H, Gong J, Chen J*. Developmental iodine deficiency and hypothyroidism reduce phosphorylation of calcium/calmodulin-dependent kinase II in the rat entorhinal cortex. *Biol Trace Elem Res*. 2010 Dec;137(3):353-63.
10. Qiu Z, **Wang Y** (joint first author), Chen J*. Perinatal exposure to nonylphenol induces microglia-mediated nitric oxide and prostaglandin E2 production in offspring hippocampus. *Toxicol Lett*. 2019 Feb;301:114-124.
11. Gu W, **Wang Y** (joint first author), Qiu Z, Dong J, Wang Y, Chen J*. Mitogen-activated protein kinase signaling is involved in nonylphenol-induced proinflammatory cytokines secretion by BV2 microglia. *J Appl Toxicol*. 2018 Feb 27. doi: 10.1002/jat.3602.
12. Gu W, **Wang Y** (joint first author), Qiu Z, Dong J, Wang Y, Chen J*. Maternal exposure to nonylphenol during pregnancy and lactation induces microglial cell activation and pro-inflammatory cytokine production in offspring hippocampus. *Sci Total Environ*. 2018 634: 525–533.
13. Wang Y, **Wang Y** (joint first author), Dong J, Wei W, Song B, Min H, Teng W*, Chen J*. Developmental hypothyroxinaemia and hypothyroidism limit dendritic growth of cerebellar Purkinje cells in rat offspring: involvement of microtubule-associated protein 2 (MAP2) and stathmin. *Neuropathol Appl Neurobiol*. 2014 Jun;40(4):398-415.
14. Min H, **Wang Y**, Dong J, Wang Y, Yu Y, Shan Z, Xi Q, Teng W, Chen J*. Effects of Maternal Marginal Iodine Deficiency on Dendritic Morphology in the Hippocampal CA1 Pyramidal Neurons in Rat Offspring. *Neuromolecular Med*. 2016 Jun;18(2):203-215.
15. Wei W, **Wang Y**, Dong J, Wang Y, Min H, Song B, Shan Z, Teng W, Xi Q*, Chen J*. Hypothyroxinemia induced by maternal mild iodine deficiency impairs hippocampal myelinated growth in lactational rats. *Environ Toxicol*. 2015 Nov;30(11):1264-74.
16. Yu F, **Wang Y**, Xu H, Dong J, Wei W, Wang Y, Shan Z, Teng W, Xi Q, Chen J*. Developmental iodine deficiency delays the maturation of newborn granule neurons associated with downregulation of p35 in postnatal rat hippocampus. *Environ Toxicol*. 2014 Aug;29(8):847-55.
17. Wang Y, **Wang Y**, Dong J, Wei W, Song B, Min H, Yu Y, Lei X, Zhao M, Teng W*, Chen J*. Developmental hypothyroxinemia and hypothyroidism reduce proliferation of cerebellar granule neuron precursors in rat offspring by downregulation of the sonic hedgehog signaling pathway. *Mol Neurobiol*. 2014 Jun;49(3):1143-52.
18. Wei W, **Wang Y**, Wang Y, Dong J, Min H, Song B, Teng W, Xi Q, Chen J*. Developmental hypothyroxinaemia induced by maternal mild iodine deficiency delays hippocampal axonal growth in the rat offspring. *J Neuroendocrinol*. 2013 Sep;25(9):852-62.
19. Wei W, **Wang Y**, Dong J, Wang Y, Min H, Song B, Shan Z, Teng W, Xi Q, Chen J*. Hypothyroxinemia induced by mild iodine deficiency deregulates thyroid proteins during gestation and lactation in dams. *Int J Environ Res Public Health*. 2013 Aug 2;10(8):3233-45.
20. Min H, Dong J, **Wang Y**, Wang Y, Yu Y, Shan Z, Xi Q, Teng W, Chen J*. Marginal Iodine Deficiency Affects Dendritic Spine Development by Disturbing the Function of Rac1 Signaling Pathway on Cytoskeleton. *Mol Neurobiol*. 2016 Jan 7.
21. Wang Y, Dong J, **Wang Y**, Wei W, Song B, Shan Z, Teng W, Chen J*. Developmental Hypothyroxinemia and Hypothyroidism Reduce Parallel Fiber-Purkinje Cell Synapses in Rat Offspring by Downregulation of Neurexin1/Cbln1/GluD2 Tripartite Complex. *Biol Trace Elem Res*. 2016 Oct;173(2):465-474.
22. Dong J, Lei X, **Wang Y**, Wang Y, Song H, Li M, Min H, Yu Y, Xi Q, Teng W*, Chen J*. Different Degrees of Iodine Deficiency Inhibit Differentiation of Cerebellar Granular Cells in Rat Offspring, via BMP-Smad1/5/8 Signaling. *Mol Neurobiol*. 2016 Sep;53(7):4606-4617.
23. Min H, Dong J, **Wang Y**, Wang Y, Teng W, Xi Q*, Chen J*. Maternal Hypothyroxinemia-Induced Neurodevelopmental Impairments in the Progeny. *Mol Neurobiol*. 2016 Apr;53(3):1613-1624.
24. Dong J, Wang Y, **Wang Y**, Wei W, Min H, Song B, Xi Q, Teng W*, Chen J*. Iodine deficiency increases apoptosis and decreases synaptotagmin-1 and PSD-95 in rat hippocampus. *Nutr Neurosci*. 2013 May;16(3):135-41.
25. Dong J, Liu W, **Wang Y**, Hou Y, Xu H, Gong J, Xi Q, Chen J*. Developmental iodine deficiency and hypothyroidism impair spatial memory in adolescent rat hippocampus: involvement of CaMKII, calmodulin and calcineurin. *Neurotox Res*. 2011 Jan;19(1):81-93.
26. Dong J, Liu W, **Wang Y**, Xi Q, Chen J*. Hypothyroidism following developmental iodine deficiency reduces hippocampal neurogranin, CaMK II and calmodulin and elevates calcineurin in lactational rats. *Int J Dev Neurosci*. 2010 Nov;28(7):589-96.
27. Gong J, Dong J, **Wang Y**, Xu H, Wei W, Zhong J, Liu W, Xi Q, Chen J*. Developmental iodine deficiency and hypothyroidism impair neural development, up-regulate caveolin-1 and down-regulate synaptophysin in rat hippocampus. *J Neuroendocrinol*. 2010 Feb;22(2):129-39.

28. Dong J, Liu W, **Wang Y**, Hou Y, Xi Q, Chen J*. Developmental iodine deficiency resulting in hypothyroidism reduces hippocampal ERK1/2 and CREB in lactational and adolescent rats. BMC Neurosci. 2009 Dec 18;10:149.
29. Liu W, Dong J, **Wang Y**, Xi Q, Chen, J*. Developmental iodine deficiency and hypothyroidism impaired in vivo synaptic plasticity and altered PKC activity and GAP-43 expression in rat hippocampus. Nutritional Neuroscience, 2010, 13(5): 213-221
30. **Wang Y**, Xu Y, Wang H, Xue P, Li X, Li B, Zheng Q, Sun G*. Arsenic induces mitochondria-dependent apoptosis by reactive oxygen species generation rather than glutathione depletion in Chang human hepatocytes. Arch Toxicol. 2009 Oct;83(10):899-908.
31. Xu Y, **Wang Y**, Li X, He M, Xue P, Fu J, Wang H, Sun G*. Variations in arsenic methylation capacity and oxidative DNA lesions over a 2-year period in a high arsenic-exposed population. Int Arch Occup Environ Health. 2009Jan;82(2):251-8.
32. Xu Y, **Wang Y**, Zheng Q, Li X, Li B, Jin Y, Sun X, Sun G*. Association of oxidative stress with arsenic methylation in chronic arsenic-exposed children and adults. Toxicol Appl Pharmacol. 2008 Oct 1;232(1):142-9.
33. Xu Y, **Wang Y**, Zheng Q, Li B, Li X, Jin Y, Lv X, Qu G, Sun G*. Clinical manifestations and arsenic methylation after a rare subacute arsenic poisoning accident. Toxicol Sci. 2008 Jun;103(2):278-84.
34. Xu Y, Wang H, **Wang Y**, Zheng Y, Sun G*. Effects of folate on arsenic toxicity in Chang human hepatocytes: involvement of folate antioxidant properties. Toxicol Lett. 2010 May 19;195(1):44-50.

八、研究生培养情况

硕士招生：2011年开始，共招收24人，14人已毕业。

博士招生：2016年开始，共招收4人。

九、教材编写和期刊编委情况

教材：

人民卫生出版社《公共卫生执业医师和公共卫生执业助理医师资格考试习题集及模拟试题系列》第一版、第二版 编委

十、获得奖励及荣誉称号情况

2020：中国医科大学优秀教师

2019：辽宁省优秀硕士学位论文指导教师

2016：辽宁省科学技术进步奖，三等奖

2011：中华预防医学会科学技术奖，三等奖

2011：辽宁省科学技术科技进步奖，二等奖

2010：教育部高等学校科学研究优秀成果奖，二等奖



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