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簡要學經歷及重要榮譽

國立成功大學生物系學士 (1990.9 ~ 1994.6)

國立台灣大學醫學院解剖所碩士 (1994.9 ~ 1996.6)

國立台灣大學醫學院解剖所博士 (1998.9 ~ 2003.6)

工作經歷

國立台灣大學醫學院解剖所助教(2000.8 ~ 2003.7)

私立中山醫學大學助理教授(2003.8 ~ 2004.1)

國立中興大學獸醫系助理教授 (2004.2 ~2010.7)

國立中興大學獸醫系副教授 (2010.8 ~2014.1)

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研究興趣或成果簡述

實驗室主要著重於中樞神經細胞在正常或疾病模式（性荷爾蒙缺乏、肝腦症、水腦、老化、腦中風及胎兒酒精綜合症）下的可塑性變化，尤其是大腦皮質錐體細胞，它是大腦認知功能的主要調控者。目前我們的研究重點是探討雌激素治療對認知功能和神經元形態變化的影響。我們使用透明質酸結合 17β -雌二醇來減緩雌激素缺乏引起的停經後大鼠認知缺陷。這項研究發現在透明質酸結合 17β -雌二醇可改善海馬迴神經元的膽鹼性支配和突觸的傳輸，它呈現對認知障礙的治療潛力。我們也利用蝦青素的額外補充來對抗氧化壓力和神經炎症進而改善胎兒酒精譜系障礙和阿爾茨海默病大鼠模型的認知功能。

代表著作

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3. **Chen JR***, Tseng GF, Wang YJ, Wang TJ* (2014) Exogenous dehydroisoandrosterone sulfate reverses the dendritic changes of the central neurons in aging male rats. *Experimental Gerontology* doi:10.1016/j.exger.2014.06.010 (SCI)
4. Chen LJ, Wang, YJ, **Chen JR**, Tseng GF (2015) NMDA receptor triggered molecular cascade underlies compression-induced rapid dendritic spine plasticity in cortical neurons. *Experimental neurology* 266:86-98 (SCI)
5. Chen LJ, Wang, YJ, **Chen JR**, Tseng GF (2016) Hydrocephalus compacted cortex and hippocampus and altered their output neurons in association with spatial learning and memory deficits in rats. *Brain pathology* 2017:419-436 (SCI)
6. **Chen JR**, Lim SH, Chung SC, Lee YF, Wang YJ, Tseng GF, Wang TJ (2017) Reproductive experience modified dendritic spines on cortical pyramidal neurons to enhance sensory perception and spatial learning in rats. *Experimental animals*. 66:59-72 (SCI)
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8. Chu SC, Chen PN, **Chen JR**, Yu CH, Hsieh YS, Kuo DY (2018) Role of hypothalamic leptin-LepRb signaling in NPY-CART-mediated appetite suppression in amphetamine-treated rats. *Hormones and Behavior* 98(2):173-182 (SCI)
9. Chen MH, Wang TJ, Chen LJ, Jiang MY, Wang YJ, Tseng GF, **Chen JR** (2021) The effects of astaxanthin treatment on a rat model of Alzheimer's disease. *Brain Research Bulletin* 172: 151-163 (SCI)
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11. Chen LJ, **Chen JR**, Tseng GF* (2022) Modulation of striatal glutamatergic, dopaminergic and cholinergic neurotransmission pathways concomitant with motor disturbance in rats with kaolin-induced hydrocephalus. *Fluids and Barriers of the CNS* 19:95 <https://doi.org/10.1186/s12987-022-00393-1>
12. Chen MH, Lin HC, Chao T, Lee Viola SY, Hou CL, Wang TJ*, **Chen JR*** (2023) Hyaluronic Acid Conjugated with 17 β -Estradiol Effectively Alleviates Estropause-Induced Cognitive Deficits in Rats. *International Journal of Molecular Sciences* 24(21):15569 <https://doi.org/10.3390/ijms242115569>