

花蓮慈濟醫院研究部

行為與分子遺傳實驗室

(Laboratory of Behavior and Molecular Genetics)

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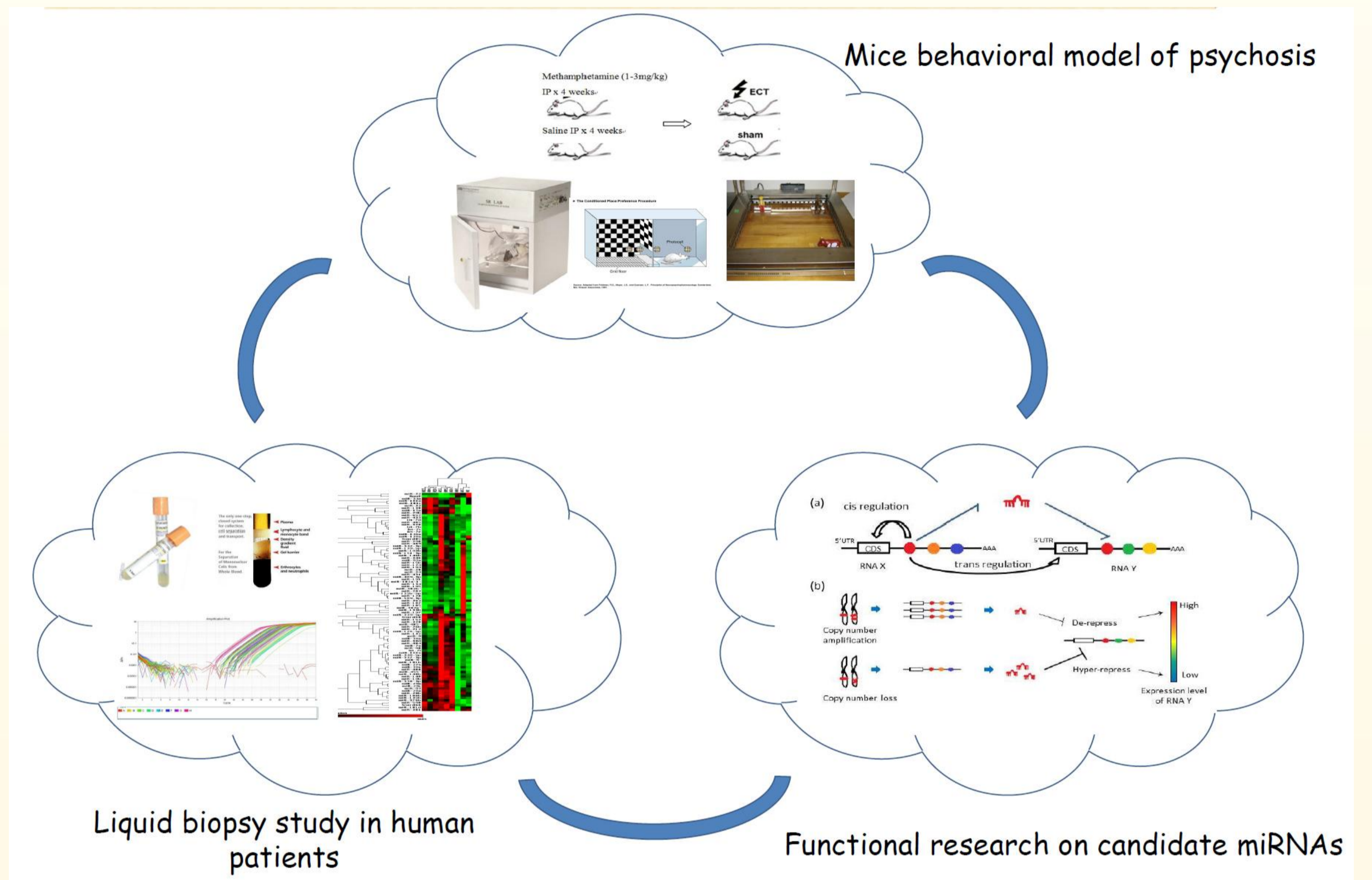
研究簡介

Research areas of interest:

➢ Animal behavioral model of psychosis

➢ microRNAs regulations and potential therapeutic effects in neuropsychiatric disorders

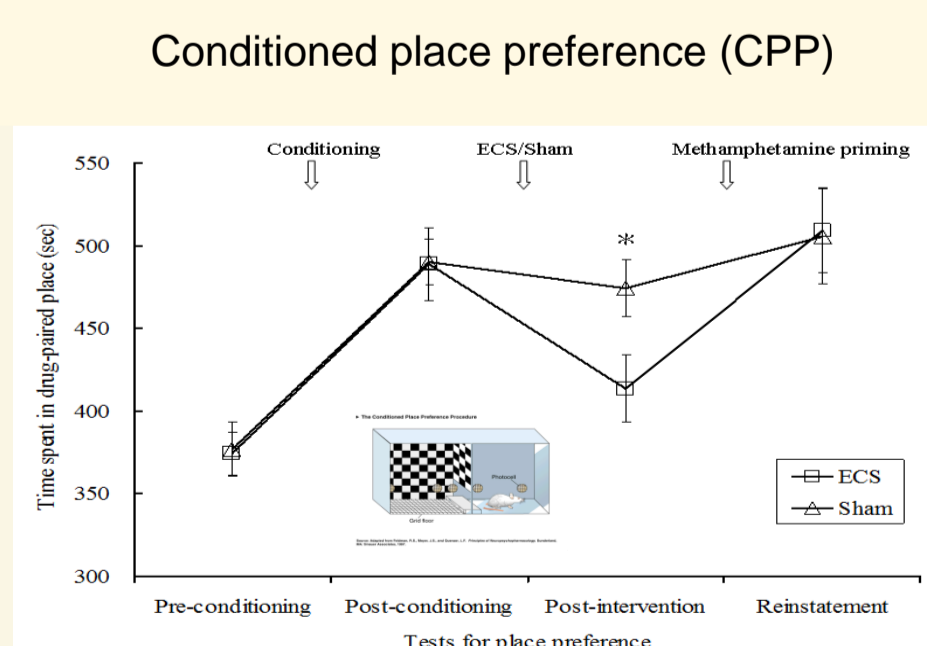
➢ To develop Liquid biopsy with serum exosomal microRNAs in human patients as relevant status or trait markers for mental disorders



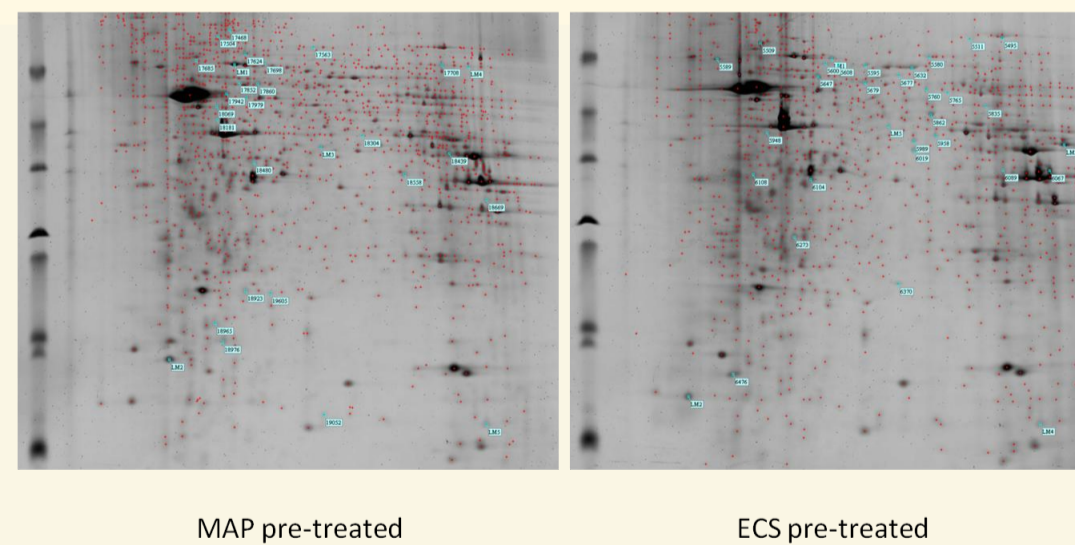
計畫與經費來源

經費來源	計畫編號	計畫名稱	執行期間	總經費(NT\$)
院內	TCRD104-20	由動物行為模式尋找精神症的外泌體微核糖核酸生物標記	2015.01.01~2015.12.31	200000
科技部	NSC 101-2314-B-303-019-MY3	由精神病動物模式中具差異表現之微核糖核酸探索疾病發展與復原的分子機轉	2012.08.01~2015.07.31	3300000
國科會	NSC 100-2314-B-303-007	利用精神病動物模式接受電痙攣刺激探討微核糖核酸在電痙攣治療中的角色	2011.08.01~2012.07.31	900000
院內	TCRD99-41	電痙攣治療分子機制的代謝體學研究	2010.01.01~2010.12.31	100000

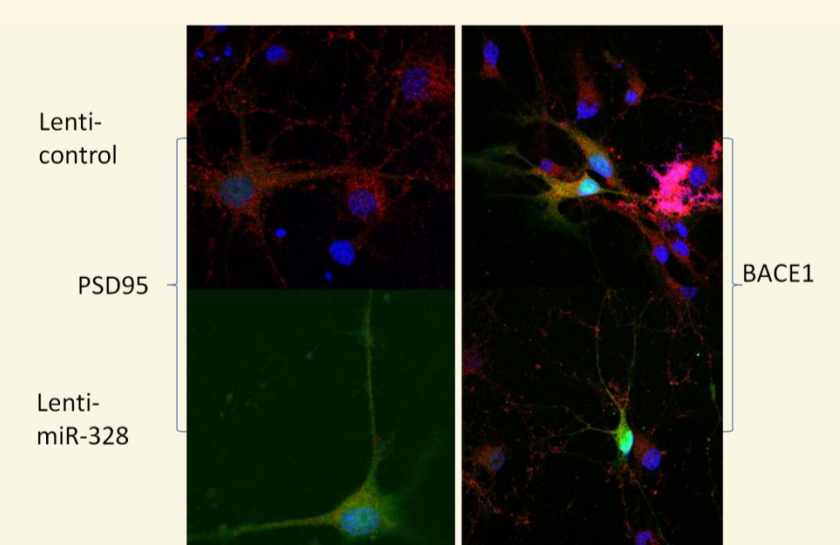
研究成果



The expression profiles of the mouse hippocampal proteome after MAP or ECS



In vitro transduction in primary hippocampal neurons and immunocytochemistry



Selected publications:

- Chao YL, Chen HH, Chen CH. Effects of repeated electroconvulsive shock on methamphetamine-induced behavioral abnormalities in mice. *Brain Stimulation*. 2012 Jul;5(3):393-401.
- Chien YL, Wu YY, Chen CH, Gau SS, Huang YS, Chien WH, Hu FC, Chao YL. Association of HLA-DRB1 alleles and neuropsychological function in autism. *Psychiatric Genetics*. 2012 Feb;22(1):46-9.
- Chen SJ, Chao YL, Chen CY, Chang CM, Wu Erin CH, Wu CS, Yeh HH, Wang LC, Chen CH, Tsai HJ. Prevalence of autoimmune diseases in hospitalized schizophrenic patients: a nationwide population-based study. *The British Journal of Psychiatry*. 2012 May;200(5):374-80.
- Liao HM, Chao YL, Huang AL, Cheng MC, Chen YJ, Lee KF, Fang JS, Hsu CH, Chen CH. Identification and characterization of three inherited genomic copy number variations associated with familial schizophrenia. *Schizophrenia Res*. 2012 Aug;139(1-3):229-36.
- Chao YL, Chien WH, Liao HM, Fang JS, Chen CH. Copy Number Variations and Psychiatric Disorders. *TZU CHI MED J*, September 2009, Vol 21 No 3, 197-203.
- Chao YL, Chen CH. MicroRNA dysregulation in Neuropsychiatric Disorders. *TZU CHI MED J*, Jan 2013, Vol 25 No 1, 1-7.