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研究室：中草藥研究中心/細胞功能評估平台/神經炎症研究室

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研究專長：神經生理病理學、細胞訊號傳遞、藥物效用評估與開發

研究概要：

本實驗室研究之目標在探討腦部發炎相關細胞病變之致病原因及其訊號機轉，以中樞神經系統(腦部)細胞如腦星狀細胞(astrocytes)、小神經膠細胞(microglia)及神經細胞(neurons)等為材料，陸續發現許多發炎因子如緩激肽(bradykinin)、內毒素(LPS)及高血糖等可藉由誘發腦星狀細胞之胞內訊號活化致使發炎反應生成，最終導致神經細胞死亡，其中發現活性氧分子(ROS)及基質金屬蛋白酶(MMPs)扮演著極重要的角色，此亦是導致神經退化或死亡之重要因素。為進一步了解此部分，實驗室與臨床醫師合作探討失智症相關之腦部神經病變，期能結合實驗室研究成果與臨床案例，解開在臨床相關腦病變之原因，作為保健或治療之依據。此外，實驗室近幾年陸續發現許多中草藥及天然物具有抗氧化或抗神經發炎之潛力，期能開發其具神經保護功效之成分。迄今，實驗室研究成果已在各相關領域之國際期刊發表 85 篇研究論文。

研究方向：

- (1) 中樞神經系統炎症/病變發生之機轉
- (2) 糖尿病併發中樞神經系統病變之機轉
- (3) 神經發炎退化及老化機轉之探討
- (4) 天然藥物活性成分對中樞神經系統保護作用之評估與開發

學會或專業認證或得獎事蹟:

一、學會

- 1、台灣自由基學會 理事
- 2、中華天然藥物學會 永久會員
- 3、台灣藥理學會 會員
- 4、中國生理學會 會員

二、得獎事蹟

- 1、99 年度長庚技術學院優良教師
- 2、99 年度台灣藥理學會-杜聰明年輕學者獎
- 3、101 年度長科技大學優良教師研究類獎
- 4、教育部 102 年獎勵科技大學及技術學院教學卓越計畫補助經費支給特殊優秀人才彈性薪資
- 5、103 年度長科技大學產學合作技術研發績優獎(優良教師研究獎)
- 6、104 學年度長科技大學產學合作技術研發績優獎(優良教師研究獎)
- 7、107 年度長科技大學產學合作技術研發績優獎(優良教師研究獎)
- 8、108 學年度長科技大學產學合作技術研發績優銀獎
- 9、110 學年度長科技大學產學合作技術研發績優銀獎
- 10、112 學年度長科技大學產學合作技術研發績優金獎

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