

生化科技學系教師個人資料

職稱	助理教授	
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最高學歷	美國普渡大學化學系生物化學組博士	
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個人學經歷

學歷

美國普渡大學化學系生物化學組博士

經歷

嘉義大學生化科技系(2001-迄今)

衛生署疾病管制局(1995-2000)

研究領域及專長

生物化學、分子生物學、分子毒物

研究室簡介(Main subjects in my lab):

1. ACP1 gene and enzymology studies
2. Molecular biology methodology and improvement.

研究成果

1. Lu, K.T., Y.W. Wang, Y.Y. P. Wo and Y.L. Yang*. Extracellular signal-regulated kinase mediated the IL-1 induced cortical neuron damage during traumatic brain injury. *Neurosci. Lett.* 386: 40-45, 2005.
2. Lu, K.T., C.Y. Wu, N.C. Cheng, Y.Y.P. Wo, J.T. Yang, H.H. Yen, and Y.L. Yang*. Inhibition of the Na⁺-K⁺-2Cl⁻-cotransporter in choroid plexus attenuates traumatic brain injury-induced brain edema and neuronal damage. *Eur. J. Pharmacol.* 548: 99-105, 2006.
3. Wo YY, Peng SH, Pan FM*. Enrichment of circularized target DNA by inverse polymerase chain reaction. *Anal Biochem.* 1;358:149-51. 2006.
4. Yang, Y.L., P.K. Chao, L.S. Ro, Y.Y.P. Wo and K.T. Lu*. Glutamate NMDA receptors

研究成果

- in rats. *Neuropsychopharmacology*, 32: 1042-1051, 2007.
5. Wo YY, Chaung FL, Wang CL, Pan FM*. Improvement of inverse polymerase chain reaction by optimal dilution and acidic polypeptides. *Anal Biochem.* 15;364:219-21. 2007.
 6. Yang, YL., C.W. Hsieh, Y.Y. P. Wo, Y.C. Yang, and K.T. Lu*. Intra-amygdaloid infusion of *Ginkgo biloba* leaf extract (EGb761) facilitates fear-potentiated startle in rats. *Psychopharmacology*, 202: 187-196, 2009.
 7. Lu KT, C.L. Sun, Y.Y.P. Wo, H.H. Yen, T.H. Tang, M.C. Ng, M.L. Huang and Y.L. Yang*. Hippocampal neurogenesis following traumatic brain Injury was mediated by vascular endothelial growth factor receptor 2 and Raf/MEK/ERK cascade. *Journal of Neurotrauma*, 28: 441-450, 2011.
 8. Huang TC, K.T. Lu, Y.Y. P. Wo, Y.J. Wu, and Y.L. Yang*. Resveratrol protects rats from A β -induced neurotoxicity by the reduction of iNOS expression and lipid peroxidation. *PLoS One*, 6(12): e29102, 2011.
 9. Chao PK, Lu KT, Jhu JY, Wo YYP, Huang TC, Yang YL*. Indomethacin protects rats from traumatic brain injury-induced neuronal damage and suppresses hippocampal IL-1 β release through the inhibition of NOGO-A expression. *Journal of Neuroinflammation*, 2012 7;9:121.
 10. Lu KT, Huang TC, Wang JY, You YS, Chou JL, Chan MW, Wo P. Y.Y., Amstislavskaya TG, Tikhonova MA, Yang YL. NKCC1 mediates traumatic brain injury-induced hippocampal neurogenesis through CREB phosphorylation and HIF-1 α expression. *Pflugers Arch.* 2015 Aug;467(8):1651-61. doi: 10.1007/s00424-014-1588-x. Epub 2014 Sep 9.

專書出版

1. 吳游源 等 (2016) **分子生物學概論** 2nd ed. 華格納出版社 (ISBN 978-986-362-205-5)
2. 吳游源 (2020) **PCR之原理與應用** 初版 五南圖書出版有限公司 (ISBN 978-957-763-821-2)