

花蓮慈濟醫院研究部

貴重儀器中心 蛋白質體實驗室

Proteomics Core Facility

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實驗室及設備簡介

- 本實驗室主要利用蛋白質體學方法，尋找影響疾病成因、進程及癒後之可用生物性蛋白質標記，以期在新藥開發以及臨床檢測上能有所應用。
- 本實驗室提供技術服務及設備平台包括有：快速蛋白質液相層析系統(Fast protein liquid chromatography)、一維及二維蛋白質電泳 (1D and 2D electrophoresis)、胰蛋白酵素水解 (Trypsin digestion) 以及液相層析儀加四極桿飛行式串聯式質譜儀(LC/MS/MS)之蛋白質分析等。



計畫與經費來源

近五年計畫名稱	執行起訖	經費來源
	年度預算	
研究部貴重儀器中心 結構、屏蔽及凋亡相關蛋白質和K他命化學性膀胱癌良床表徵的關連	2016/08/07至2017/07/31	科技部
高分子薄膜與催化金屬材料固定技術於電化學化妝品篩檢技術 間質性膀胱癌及K他命化學性膀胱癌之蛋白質體研究	2015/08/01至2016/07/31	科技部
穆勒氏管發育之正常/癌症幹細胞與卵巢間質細胞之交互作用： 卵巢上皮癌外源學說之細胞生物學研究	2013/08/01至2015/07/31	科技部
	2010/08/01至2013/07/31	科技部

近三年研究成果

- Liu, S.-Y.; Liao, C.-K.; Lo, C.-T.; Yang, H.-H.; Lin, K.-C.*; Peng, K.-C.* "Chrysophanol is Involved in the Biofertilization and Biocontrol Activities of Trichoderma" Physiol. Mol. Plant Pathol. 2016, 96, 1-7.
- Yang, H.-H.*; Ting, H.-H.; Shih, Y.* "Self-Validated Detection of Hydroquinone in Medicated Cosmetic Products Using a Preanodized Screen-Printed Ring Disk Carbon Electrode" Anal. Methods 2016, 8, 5495-5502.
- Yu, M.-H.; Yang, H.-H.; Naziruddin, A.-R.; Kanne, S.; Wang, B.-H.; Liu, F.-C.*; Lin, I. J. B.*; Lee, G.-H. "Formation of NH,NR N-Heterocyclic Carbene Complexes through Mercuration of Mono-N-substituted Benzimidazoles" Eur. J. Inorg. Chem. 2016, 29, 4829-4834.
- Shu, H.-Y.; Lin, L.-C.; Lin, T.-K.; Chen, H.-P.; Yang, H.-H.; Peng, K.-C.; Lin, G.-H.* "Transcriptional regulation of the iac locus from Acinetobacter baumannii by the phytohormone indole-3-acetic acid" Antonie van Leeuwenhoek 2015, 107, 1237-1247.
- Chen, P.-Y.; Yang, H.-H.; Huang, C.-C.; Chen, Y.-H.; Shih, Y.* "Involvement of Cu(II) in the Electrocatalytic Reduction of Bromate on a Disposable Nano-Copper Oxide Modified Screen-Printed Carbon Electrode: Hair Waving Products as an Example" Electrochim Acta 2015, 161, 100-107.
- Chen, Y.-R.; Chang, K.-T.; Tsai, M.-J.; Lee, C.-H.; Huang, K.-J.; Cheng, H.; Ho, Y.-P.; Chen, J.-C.; Yang, H.-H.; Weng, C.-F.* "Antrodia Cinnamomea Profoundly Exalted the Reversion of Activated Hepatic Stellate Cells by the Alteration of Cellular Proteins" Food Chem. Toxicol. 2014, 69, 150-162.
- Yang, H.-H.; Chen, P.-Y.; Ho, P.-H.; Shih, Y.* "Direct Analysis of Mercury in Cosmetics Using Screen-Printed Silver Electrodes and Flow Injection Analysis" J. Electrochem. Soc. 2014, 161, 137-142.
- Marthandam, A. S.; Yang, H.-H.; Lo, C.-T.; Lin, H.-S.; Liu, S.-Y.*; Peng, K.-C.* "Characterization of a Novel Resistance-Related Deoxycytidine Deaminase from Brassica oleracea var. capitata" J. Agric. Food Chem. 2014, 62, 1796-1801.
- Pang, C.-Y.; Chiu, S.-C.; Harn, H.-J.; Zhai, W.-J.; Lin, S.-Z.; Yang, H.-H.* "Proteomic-Based Identification of Multiple Pathways underlying n-Butylidene-phthalide-Induced Apoptosis in LNCaP Human Prostate Cancer Cells" Food Chem. Toxicol. 2013, 59, 281-288.
- Yang, H.-H.*; Lu, K.-H.; Lin, Y.-F.; Tsai, S.-H.; Chakraborty, S.; Zhai, W.-J.; Tai, D.-F.* "Depletion of Albumin and Immunoglobulin G from Human Serum Using Epitope-Imprinted Polymers as Artificial Antibodies" J. Biomed. Mater. Res. A 2013, 101, 1935-1942.
- Yang, H.-H.; Chien, C.-H.; Yang, C.-C.; Liu, F.-C.; Chang, A. H. H.; Lee, G.-H.; Peng, S.-M. "Syntheses and Structures of Zr₄ Tetrahedral Clusters Containing Direct Zr-Zr Bonds: the Missing Cluster in the Series Zrn (n = 2-6)" Dalton Trans. 2013, 42, 1168-1173.

服務項目與作業流程

- 詳情請參見花蓮慈濟醫學中心研究部網站貴重儀器中心管理辦法
(文件編號E9B0021008-02、E9B0021009-02以及E9B0021011-01)