

*Lu Chi-Yu*

**Present position**

Associate Professor (Current)

Department of Biochemistry, Kaohsiung Medical University

**Work Experience**

Postdoctoral Research Fellow in Proteomics Research Center, National Yang-Ming University

Assistant Professor, Department of Biochemistry, Kaohsiung Medical University

**Degree**

Graduate Institute of Pharmaceutical Sciences, Kaohsiung Medical University Ph.D.

School of Pharmacy, Kaohsiung Medical University Bachelor

**Research Fields**

Pharmaceutical and Biomedical analysis, Micro-scale analysis, Proteomics, Metabolite analysis, Mass spectrometry, Biomarker analysis

**Publications (2007 ~)**

1. C. H. Chou, L. Y. Chuang, W. L. Tseng, C. Y. Lu\*, Characterization of Protein Adducts Formed by Toxic Alkaloids by Nano-scale Liquid Chromatography with Mass Spectrometry. *J. Mass Spectrom.* 2012, 47, 1303-1312. (SCI, 5-Y IF: 3.301) (NSC 100-2113-M-037-004-MY2)
2. M. H. Yang, S. B. Jong, C. Y. Lu, Y. F. Lin, P. W. Chiang, Y. C. Tyan\* and T. W. Chung, Assessing the Responses of Cellular Proteins Induced by Hyaluronic Acid-Modified Surfaces Utilizing a Mass Spectrometry-Based Profiling System: Over-Expression of CD36, CD44, CDK9, and PP2A. *Analyst* 2012, 137, 4921-4933. (SCI, 5-Y IF: 4.119)
3. L. C. Chen, J. C. Chen, J. C. Shu, C. Y. Chen, S. C. Chen, S.H.

- Chen, C. Y. Lin, C. Y. Lu, C. C. Chen\*, Interplay of RsbM and RsbK Controls the  $\sigma(B)$  Activity of *Bacillus cereus*. Environ. Microbiol. 2012, 14, 2788-2799. (SCI, 5-Y IF: 6.151)
4. M. H. Yang, Y. H. Yang, C. Y. Lu, S. B. Jong, L. J. Chen, Y. F. Lin, S. J. Wu, P. Y. Chu, T. W. Chung, Y. C. Tyan\*, Activity-Dependent Neuroprotector Homeobox Protein: A Candidate Protein Identified in Serum as Diagnostic Biomarker for Alzheimer's Disease. J. Proteomics, 2012, 75, 3617-3629. (SCI, 5-Y IF: 4.906)
  5. Y. C. Du, T. Y. Wu, F. R. Chang, W. Y. Lin, Y. M. Hsu, F. T. Cheng, C. Y. Lu, M. H. Yen, Y. T. Tsui, H. L. Chen, M. F. Hou, M. C. Lu\* and Y. C. Wu\*, Chemical Profiling of the Cytotoxic Triterpenoid-Concentrating Fraction and Characterization of Ergostane Stereo-Isomer Ingredients from *Antrodia camphorata*. J. Pharm. Biomed. Anal., 2012, 58, 182-192. (SCI, 5-Y IF: 2.723) (NSC 98-2324-B-037-001 and 98-2321-B-037-060)
  6. C. Y. Lu, F. T. Liu and C. H. Feng\*, Quantitation of Quinapril in Human Plasma by Matrix-Assisted Laser Desorption Ionization Time-of-Flight Mass Spectrometry with Quinolone Matrix Additives. J. Chromatogr. B 2011, 879, 2688-2694. (SCI, 5-Y IF: 3.000) (NSC 97-2113-M-037-008-MY2 and NSC 98-2113-M-037-010)
  7. S. E. Peng, W. N. Chen, H. K. Chen, C. Y. Lu, A. B. Mayfield, L. S. Fang and C. S. Chen\*, Lipid bodies in coral-dinoflagellate endosymbiosis: proteomic and ultrastructural studies. Proteomics 2011, 11, 3540-3555. (SCI, 5-Y IF: 4.940) (NSC 98-2311-B-291-001-MY3 and NSC 98-2311-291-002-MY3)
  8. Z. Y. Tsai, C. H. Chou, C. Y. Lu, S. Singh, S. L. Yu and S. S. Li\*, Proteomic comparison of human embryonic stem cells with their differentiated fibroblasts: Identification of 206 genes targeted by hES cell-specific microRNAs. Kaohsiung J. Med. Sci., 2011, 27, 299-306. (SCI, 5-Y IF: 0.474) (NSC-98-2314-B-037-024-MY3)
  9. C. L. Kao\*, Y. H. Tang, Y. C. Lin, L. T. Chiu, H. T. Chen, S. C. Hsu, K. C. Hsieh, C. Y. Lu and Y. L. Chen, Copper Complex of a Pyridine-Modified Poly(amidoamine) Dendrimer as a Chemical Nuclease: Synthetic and Catalytic Study. Nanomedicine, 2011, 7, 273-276. (SCI, 5-Y IF: 7.675) (NSC 98-2113-M-037-004)
  10. A. M. Huang\*, Y. T. Kao, S. Toh, P. Y. Lin, C. H. Chou, H. T. Hu, C. Y. Lu, J. Y. Liou, S. Y. Chao, T. C. Hour and Y. S. Pu,

- UBE2M-mediated p27(Kip1) Degradation in Gemcitabine Cytotoxicity. *Biochem. Pharmacol.*, 2011, 82, 35-42. (SCI, 5-Y IF: 4.559) (NSC97-2320-B-037-018-MY3)
11. S. F. Cho, T. C. Liu, C.Y. Lu and C. S. Chang\*, Epidural Leukemic Involvement and Intracranial Hemorrhage as Initial Manifestations in a Newly Diagnosed Chronic Myeloid Leukemia Patient. *Ann. Hematol.*, 2011, 90, 607-609. (SCI, 5-Y IF: 2.471)
  12. C. H. Feng, H. Y. Huang and C. Y. Lu\*, Quantitation of the Glutathione in Human Peripheral Blood by Matrix-Assisted Laser Desorption Ionization Time-of-Flight Mass Spectrometry Coupled with Micro-scale Derivatization. *Anal. Chim. Acta*, 2011, 690, 209-214. (SCI, 5-Y IF: 3.480) (NSC 99-2113-M-037-002 and 99-2113-M-037-004)
  13. C. H. Feng and C. Y. Lu\*, Modification of Major Plasma Proteins by Acrylamide and Glycidamide: Preliminary Screening by Nano Liquid Chromatography with Tandem Mass Spectrometry. *Anal. Chim. Acta*, 2011, 684, 80-86. (SCI, 5-Y IF: 3.480) (NSC 99-2113-M-037-002 and 99-2113-M-037-004)
  14. C. Y. Lu and C. H. Feng\*, Quantitation of Irbesartan and Major Proteins in Human Plasma by Mass Spectrometry with Time-of-Flight Analyzer. *J. Pharm. Biomed. Anal.*, 2011, 54, 100-105. (SCI, 5-Y IF: 2.723) (NSC 97-2113-M-037-008-MY2 and NSC 98-2113-M-037-010)
  15. C. H. Feng, C. H. Chou, L. Y. Chuang and C. Y. Lu\*, Identification of the Metabolites of Angiotensin II (1-8) in MES-13 Cells by a Simple NanoLC-MS-MS System: a Preliminary Platform. *Anal. Lett.*, 2011, 44, 1187-1196. (SCI, 5-Y IF: 1.091) (NSC 98-2113-M-037-010 and 97-2113-M-037-008-MY2)
  16. C. H. Feng, C. H. Chou, L. Y. Chuang and C. Y. Lu\*, Protein Identification from Two-Dimensional Gel Electrophoresis by Connecting ZipTip with a Home-Assembled Nanoflow System. *Microchim. Acta* 2010, 170, 179-185. (SCI, 5-Y IF: 2.275) (NSC 98-2113-M-037-010 and 97-2113-M-037-008-MY2)
  17. H. L. Cheng, S. S. Chiou, Y. M. Liao, C. Y. Lu, Y. L. Chen and S. M. Wu\*, Analysis of Methotrexate and Its Eight Metabolites in Cerebrospinal Fluid by Solid-Phase Extraction and Triple-Stacking Capillary Electrophoresis. *Anal. Bioanal. Chem.* 2010, 398, 2183-2190. (SCI, 5-Y IF: 3.667)

18. Y. P. Lin, M. E. Hsu, Y. Y. Chiou, H. Y. Hsu, H. C. Tsai, Y. J. Peng, C. Y. Lu, C. Y. Pan, W. C. Yu, C. H. Chen, C. W. Chi and C. H. Lin\*, Comparative Proteomic Analysis of Rat Aorta in a Subtotal Nephrectomy Model. *Proteomics* 2010, 10, 2429-2443. (SCI, 5-Y IF: 4.940) (NSC 93-2314-B-075-044, NSC 95-2627-M-007-002 and NSC 97-2317-B-010-001)
19. H. H. Yeh, H. L. Wu, C. Y. Lu, and S. H. Chen\*, Simultaneous Determination of Regular Insulin and Insulin Aspart by Capillary Zone Electrophoresis and Application in Drug Formulations. *J. Pharm. Biomed. Anal.*, 2010, 53, 145-150. (SCI, 5-Y IF: 2.723) (NSC 96-2113-M-037-010-MY3)
20. C. H. Feng and C. Y. Lu\*, A Micro-Scale Model to Monitor the Major Proteins in Human Urine before and after Medication with Angiotensin-Converting Enzyme Inhibitor: a Preliminary Study. *Anal. Lett.*, 2010, 43, 2705-2715. (SCI, 5-Y IF: 1.091) (NSC 98-2113-M-037-010 and 97-2113-M-037-008-MY2)
21. C. Y. Lu, Y. R. Wang, S. H. and Chen C. H. Feng\*, Analysis of Quinapril by Two Solvent Saving Methods: Application of Capillary Liquid Chromatography and LDI-TOF MS. *J. AOAC Int.*, 2010, 93, 1201-1206. (SCI, 1.512) (97-2113-M-037-008-MY2)
22. S. E. Peng, Y. B. Wang, L. H. Wang, W. N. U. Chen, C. Y. Lu, L. S. Fang and C. S. Chen\*, Proteomic Analysis of Symbiosome Membranes in Cnidaria-Dinoflagellate Endosymbiosis. *Proteomics* 2010, 10, 1002-1016. (SCI, 5-Y IF: 4.940) (NSC 98-2311-B-291-001-MY3 and NSC 98-2311-B-291-002-MY3)
23. C. H. Feng, C. M. Yang and C. Y. Lu\*, Trace Analysis of Glyclazide in Human Plasma at Micro-Scale Level by Mass Spectrometry. *J. Sep. Sci.*, 2009, 32, 3411-3417. (SCI, 5-Y IF: 2.624) (NSC 97-2113-M-037-009, NSC 98-2113-M-037-010 and 97-2113-M-037-008-MY2)
24. C. H. Feng and C. Y. Lu\*, A New Matrix for Analyzing Low Molecular Mass Compounds and Its Application for Determination of Carcinogenic Areca Alkaloids by Matrix-Assisted Laser Desorption Ionization Time-of-Flight Mass Spectrometry. *Anal. Chim. Acta*, 2009, 649, 230-235. (SCI, 5-Y IF: 3.480) (NSC 96-2113 M037-015, NSC 97-2113-M-037-009, NSC 96-2113-M-037-016 and 97-2113-M-037-008-MY2)
25. K. C. Hsien, H. T. Chen, Y. C. Chen, Y. L. Chen, C. Y. Lu and C. L.

- Kao\*, Pyridoxal 5'-Phosphate Binding in Lysine-Modified PAMAM Dendrimers: A Biomimetic Approach. *Org. Lett.*, 2009, 11, 3526-3529. (SCI, 5-Y IF: 4.962) (NSC 96-2113-M-037-007-MY2 and NSC 96-2323-B-037-003)
26. C. Y. Lu, Y. M. Chang, W.L. Tseng C. H. Feng\* and C. Y. Lu, Analysis of Angiotensin II Receptor Antagonist and Protein Markers at Microliter Level Plasma by LC-MS/MS. *J. Pharm. Biomed. Anal.*, 2009, 49, 123-128. (SCI, 5-Y IF: 2.723) (NSC 96-2113-M-037-015 and NSC 96-2113-M-037-016)
27. S. F. Wu, P. W. Hsieh, C. C. Wu, C. L. Lee, S. L. Chen, C. Y. Lu, T. S. Wu, F. R. Chang and Y. C. Wu, Camptothecinoids from the Seeds of Taiwanese *Nothapodytes foetida*. *Molecules*, 2008, 13, 1361-1371. (SCI, 5-Y IF: 1.974)
28. C. Y. Lu and C. H. Feng\*, Determination of Clinically Very Basic Compounds by Nanoscale Liquid Chromatography with Tandem Mass Spectrometry. *J. Liq. Chromatogr. Relat. Technol.*, 2008, 31, 54-63. (SCI, 5-Y IF: 0.984) (NSC 95-2113-M-166-002)
29. C. Y. Lu, C. Y. Wu and C. H. Lin\*, Protein Identification by a Syringe Pump-driven Reversed-phase LC-MS/MS. *Anal. Biochem.*, 2007, 368, 123-129. (SCI, 3.343) (NSC 94-2627-M-007-002 and NSC 94-2120-M-010-002)
30. W. J. Chung, H. Y. Shu, C. Y. Lu, C. Y. Wu, Y. H. Tseng, S. F. Tsai and C. H. Lin\*, Qualitative and Comparative Proteomic Analysis of *Xanthomonas campestris* pv. *Campestris* 17. *Proteomics*, 2007, 7, 2047-2058. (SCI, 5-Y IF: 4.940) (NSC 91-B-FA05-1-4, NSC 95-2120-M-010-002, and NSC 95-2627-M-007-002)
31. C. Y. Lu and C. H. Feng\*, Micro-scale Analysis of Aminoglycoside Antibiotics in Human Plasma by Capillary Liquid Chromatography and Nanospray Tandem Mass Spectrometry with Column Switching. *J. Chromatogr. A*, 2007, 1156, 249-253. (SCI, 5-Y IF: 4.069) (NSC 94-2113-M-166-001, NSC 94-2113-M-166-002 and NSC 95-2113-M-166-002)
32. C. Y. Lu and C. H. Feng\*, Identification of Dimer Impurities in Ampicillin and Amoxicillin by Capillary LC and Tandem Mass Spectrometry. *J. Sep. Sci.*, 2007, 30, 329-332. (SCI, 5-Y IF: 2.624) (NSC 94-2113-M-166-002 and NSC 95-2113-M-166-002)