
BIOGRAPHICAL SKETCH

NAME in English Yi-Ting Chen	POSITION TITLE Assistant Professor		
NAME in Chinese 陳怡婷			
EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
National Tsing Hua University, Taiwan	B.S.	06/96	Chemistry
National Tsing Hua University, Taiwan	Ph.D.	12/01	Chemistry

A. Positions and Honors

Positions and Employment

02/2001-08/ 2001	Research assistant, Department of chemistry, University of Alberta, Edmonton, Canada.
02/2002-07/2007	Research scientist, Industrial Technology Research Institute, Hsinchu, Taiwan
02/2007-07/2007	Adjunct Assistant Professor, National Taipei University of Education, Taipei, Taiwan
07/2007-10/2007	Consultant, Industrial Technology Research Institute, Hsinchu, Taiwan
09/2007-07/2013	Associate research fellow, Molecular medicine research center, Chang Gung University
08/2013-Present	Assistant Professor, Department of Biomedical Sciences, Chang Gung University

Other Experience and Professional Memberships

2004--Present	Member, Taiwan Proteomics Society
2004--2009	Member, Taiwan Society for Mass Spectrometry
2005--Present	Member, American Society for Mass Spectrometry

B. Selected Peer-reviewed Publications (2012-2017) (in chronological order)

Referred papers (*first/equal contribution or corresponding author)

- (1) **Yi-Ting Chen**, Hsiao-Wei Chen, Derek Smith, Kung-Hao Liang, Ting Chung, Chien-Lun Chen, Yu-Sun Chang, Christoph Borchers,* Jau-Song Yu.* Multiplexed quantification of 63 proteins in human urine by multiple reaction monitoring-based mass spectrometry for discovery of potential bladder cancer biomarkers. *J. Proteomics*. 75, 3529-3545, 2012 (SCI).
- (2) **Yi-Ting Chen***, Fu-Shing Wang, Zhendong Li, Liang Li*, Yong-Chien Ling*. Development of a Matrix-assisted Laser Desorption Ionization Mass Spectrometric Method for Rapid Process-Monitoring of Phthalocyanine Compounds. *Analytica Chimica Acta*. 736, 69–77, 2012. (SCI)
- (3) Chien-Lun Chen, Yue-Fan Lai', Kun-Yi Chien, Jau-Song Yu, Hsiao-Wei Chen, Petrus Tang, Chia-Wei Hsu, Chi-De Chen, Yu-Sun Chang, Phei-Lang Chang, **Yi-Ting Chen***, Comparative and Targeted Proteomic Analyses of Urinary Exosomes from Bladder Cancer and Hernia Patients. *J. Proteome Research*. 11, 5611–5629, 2012. (SCI)
- (4) Yen-Heng Lin*, Ying-Ju Chen, Chao-Sung Lai*, **Yi-Ting Chen**, Chien-Lun Chen, Jau-Song Yu, and Yu-Sun Chang, A negative-pressure-driven microfluidic chip for the rapid detection of a bladder cancer biomarker in urine using bead-based enzyme-linked immunosorbent assay. *Biomicrofluidics* 7, 024103, 2013. (SCI)

- (5) Chien-Lun Chen, Tsung-Shih, Lin, Cheng-Han, Tsai, Chih-Ching Wu, Ting Chung, Kun-Yi Chien, Maureen Wu, Yu-Sun Chang, Jau-Song Yu*, **Yi-Ting Chen***, Identification of Potential Bladder Cancer Markers in Urine by Abundant-Protein Depletion Coupled with Quantitative Proteomics. *J. Proteomics*. 85, 28-43, 2013. (SCI)
- (6) Chi-De Chen, Chih-Liang Wang, Chia-Jung Yu, Kun-Yi Chien, **Yi-Ting Chen**, Min-Chi Chen, Yu-Sun Chang, Chin-Ching Wu*, Jau-Song Yu*. Targeted Proteomics Pipeline Reveals Potential Biomarkers for the Diagnosis of Metastatic Lung Cancer in Pleural Effusion. *J. Proteome Research*. 13(6):2818-29, 2014.
- (7) Jun Peng, **Yi-Ting Chen**, Chien-Lun Chen and Liang Li, Development of a Universal Metabolome-Standard Method for Long-term LC-MS Metabolome Profiling and Its Application for Bladder Cancer Urine-Metabolite-Biomarker Discovery. *Anal. Chem.* 86(13):6540-7, 2014.
- (8) Chiun-Gung Juo*, Chien-Lun Chen, Shiang-Ting Lin, Shu-Hsuan Fu, **Yi-Ting Chen**, Yu-Sun Chang and Jau-Song Yu. Mass accuracy improvement of ESI-RPLC-MS based urinary metabolomic analysis by post-run calibration using sodium formate cluster ions. *Rapid Commun. Mass Spectrom.* 28, 1813-1820, 2014.
- (9) Hsiao-Chien Chen, **Yi-Ting Chen**, Rung-Ywan Tsai, Min-Cheng Chen, Shi-Liang Chen, Min-Cong Xiao, Chien-Lun Chen, Mu-Yi Hua*. A sensitive and selective magnetic graphene composite-modified polycrystalline-silicon nanowire field-effect transistor for bladder cancer diagnosis. *Biosensors and Bioelectronics*. 66, 198–207, 2015 . (Co-first author)
- (10) **Yi-Ting Chen**, Li-Ping Tuan, Hsiao-Wei Chen, I-An Wei, Min-Yuan Chou, Han-Min Chen, Yu-Chang Tyan, Sung-Fang Chen*. Quantitative analysis of prostate specific antigen isoforms using immunoprecipitation and isotope dilution mass spectrometry. *Anal. Chem.* 2015, 87(1):545-53. (Co-first author)
- (11) Chien-Lun Chen, Ting Chung, Chih-Ching Wu, Kwai-Fong Ng, Jau-Song Yu, Cheng-Han Tsai, Yu-Sun Chang, Ying Liang, **Yi-Ting Chen***. Comparative tissue proteomics of microdissected specimens reveals novel biomarkers of bladder cancer. *Mol. Cell Proteomics*. 2015. 14(9), 2466-2478. (Co-first and corresponding author)
- (12) Chih-Hsiang Chang, Chia-Hung Yang, Huang-Yu Yang, Tien-Hsing Chen, Chan-Yu Lin, Su-Wei Chang, **Yi-Ting Chen**, Cheng-Chieh Hung, Ji-Tseng Fang, Chih-Wei Yang, Yung-Chang Chen*. Urinary Biomarkers Improve the Diagnosis of Intrinsic Acute Kidney Injury in Coronary Care units. *Medicine*. 2015 Oct;94(40):e1703.
- (13) Chih-Hsiang Chang, Pei-Chun Fan, Chan-Yu Lin, Chia-Hung Yang, Yi-Ting Chen, Su-Wei Chang, Huang-Yu Yang, Chang-Chyi Jenq, Cheng-Chieh Hung, Chih-Wei Yang, and Yung-Chang Chen. Elevation of Interleukin-18 Correlates with Cardiovascular, Cerebrovascular, and Peripheral Vascular Events: A Cohort Study of Hemodialysis Patients. *Medicine*. 2015 Oct;94(42):e1836.
- (14) Cheng-Hung Lee , Kuo-Sheng Liu , Shang-Hung Chang , Wei-Jan Chen , Kuo-Chun Hung , Shih-Jung Liu* , Jong-Hwei S. Pang , Jyuhn-Huarng Juang , Chou Chung-Chuan , Po-Cheng Chang , **Yi-Ting Chen** , Fu-Shing Wang. Promoting Diabetic Wound Therapy Using Biodegradable rhPDGF-loaded Nanofibrous Membranes: CONSORT-Compliant Article. *Medicine*. 2015 Nov;94(47):e1873.
- (15) Chia-Hung Yang, Chih-Hsiang Chang, Tien-Hsing Chen, Pei-Chun Fan, Su-Wei Chang, Chun-Chi Chen, Pao-Hsien Chu, Yi-Ting Chen, Huang-Yu Yang, Chih-Wei Yang, Yung-Chang Chen. Combination of Urinary Biomarkers Improve Early Detection of Acute Kidney Injury in Patients with Heart Failure. *Circulation Journal*, 2016, 25;80(4):1017-23.
- (16) Cheng-Hung Lee, Yin-Kai Chao, Shang-Hung Chang, Wei-Jan Chen, Kuo-Chun Hung, Shih-Jung Liu,* Jyuhn-Huarng Juang, **Yi-Ting Chen** and Fu-Shing Wang. *RSC Adv.*, 2016, 6, 6276–6284.
- (17) Jau-Song Yu, **Yi-Ting Chen**, Wei-Fang Chiang, Yung-Chin Hsiao, Lichieh Julie Chu, Lai-Chu See, Chi-Sheng Wu, Hui-Tzu Tu, Hsiao-Wei Chen, Chia-Chun Chen, Wei-Chao Liao, Ya-Ting Chang, Chih-Ching Wu, Che-Yi Lin, Shyun-Yeu Liu, Shu-Ti Chiou, Shu-Li Cha, Kai-Ping Chang, Chih-Yen Chien, Chee-Jen Chang, John D. Young, Chia C. Pao, Yu-Sun Chang*, Leland H. Hartwell*, Saliva protein biomarkers to detect oral squamous cell carcinoma in a high-risk population in Taiwan, *PNAS*, 2016, 113, 11549–11554. (Co-first author).

- (18) **Yi-Ting Chen***, Hsiao-Wei Chen, Chun-Feng Wu, Lichieh Julie Chu, Wei-Fang Chiang, Chih-Ching Wu, Jau-Song Yu, Cheng-Han Tsai, Kung-Hao Liang, Yu-Sun Chang, Maureen Wu, Wei-Ting Ou Yang, Development of a multiplexed LC-MRM/MS method for evaluation of salivary proteins as oral cancer biomarkers. *Mol. Cell Proteomics*. 16, 799-811. 2017.
- (19) **Chi-hung Shao**, **Chien-Lun Chen**, Chao-Jung Chen, Shu-Hsuan Fu, **Yi-Ting Chen**, Yu-Sun Chang, Jau-Song Yu, Chiun-Gung Juo*, Kun-Pin Wu*, Metabolite marker discovery for the detection of bladder cancer by comparative metabolomics. *Oncotarget*, 2017 Jun 13;8(24):38802-38810. 2017.
- (20) **Yung-Chin Hsiao**, **Lang-Ming Chi**, **Kun-Yi Chien**, Wei-Fan Chiang, Szu-Fan Chen, Yao-Ning Chuang, Shih-Yu Lin, Chia-Chun Wu, Ya-Ting Chang, Lichieh Julie Chu, **Yi-Ting Chen**, Shu-Li Chia, Chih-Yen Chien, Kai-Ping Chang, Yu-Sun Chang, and Jau-Song Yu, Development of a multiplexed assay for oral cancer candidate biomarkers using peptide immunoaffinity enrichment and targeted mass spectrometry. Accepted, *Mol. Cell Proteomics*. 2017.
- (21) **Cheng-Han Tsai**, **Yi-Ting Chen***, Clinical proteomics of genitourinary cancer for the development of biomarkers. *Clinics in Oncology*, 2017, 2, 1326-1327.
- (22) **Ting-Wen Chen**, **Chi-Ching Lee**, **Hsuan Liu**, **Chi-Sheng Wu**, **Curtis R. Pickering**, Po-Jung Huang, Jing Wang, Ian Yi-Feng Chang, Yuan-Ming Yeh, Chih-De Chen, Hsin-Pai Li, Ji-Dung Luo, Bertrand Chin-Ming Tan, Timothy En Haw Chan, Chuen Hsueh, Lichieh Julie Chu, **Yi-Ting Chen**, Bing Zhang, Chia-Yu Yang, Chih-Ching Wu, Chia-Wei Hsu, Lai-Chu See, Petrus Tang, Jau-Song Yu, Wei-Chao Liao, Wei-Fan Chiang, Henry Rodriguez, Jeffrey N. Myers, **Kai-Ping Chang*** & **Yu-Sun Chang***. NATURE COMMUNICATIONS. 2017, 8: 465.

Book chapters

- (1) **Yi-Ting Chen**, Carol E. Parker, Hsiao-Wei Chen, Chien-Lun Chen, Dominik Domanski, Derek S. Smith, Chih-Ching Wu, Ting Chung, Kung-Hao Liang, Min-Chi Chen, Yu-Sun Chang, Christoph H. Borchers, and Jau-Song Yu. "Comprehensive Biomarker Discovery and Validation for Clinical Application- A Pipeline that Integrates the Discovery and Verification Studies of Urinary Protein Biomarkers Reveals Candidate Markers for Bladder Cancer". Royal Society of Chemistry (RSC). 2013, 0, 271-314. ISBN: 978-1-84973-422-6.

C. Research Support

Ongoing Research Support

	計畫名稱	計畫工作職掌	執行期限	補助或委託機構
陳怡婷	發展以質譜為基礎之多重體學技術於腎臟癌能量代謝途徑之研究及其臨床醫學應用 (104-2113-M-182 -001 -MY2)	主持人	2015.8.1~2017.7.31	科技部
陳怡婷	多級反應監測質譜用於第一型心腎症候群病患與大鼠的蛋白質體分析 (MOST 104-2314-B-182A-066 -MY3)	共同主持人	2015.8.1~2018.7.31	科技部
陳怡婷	慢性腎病急速惡化相關之生物標記-生物標記導向之研究 (CMRPG2C0341)	共同主持人	2016.11.18~2021.10.17	長庚醫院
陳怡婷	長庚體系生物標識研究：急性腎損傷 (CIRPG3B0043)	共同主持人	2016.12.1~2018-11-30	長庚醫院
陳怡婷	整合型泌尿上皮癌之毒物與生物識別特徵之子計畫三：以蛋白質體技術研究重金屬暴露對於泌尿上皮癌之機制及臨床相	子計畫主持人	2015.2.1-2018.1.31	長庚醫院

	關性 (CMRPD3E0031, CMRPD3E0032, CMRPD3E0033)			
陳怡婷	整合蛋白質體及代謝體學以找尋驗證腎臟癌之生物標誌及機轉研究 (CMRPD1G0131)	主持人	2017.1.1~2019.12.31	長庚醫院
陳怡婷	開發化學標定代謝體技術及穩定同位素標準品結合抗胜肽抗體捕集搭配標靶質譜法量測膀胱癌相關之微量生物標誌分子(106-2113-M-182-001-MY2)	主持人	2017.8.1~2019.7.31	科技部
陳怡婷	生物標記應用於心衰竭病患合併急性腎損傷之診斷及預後預測(106-2314-B-182A-118 -MY3)	共同主持人	2017.8.1~2020.7.1	科技部

Completed Research Support (2006-2016)

	計畫名稱	計畫工作職掌	執行期限	補助或委託機構
陳怡婷	科技專案四年計畫-蛋白體技術之組織工程應用研發四年計畫: I.蛋白體圖譜整合技術開發 II.胚幹細胞蛋白體研發 III.組織發育及修復再生蛋白體研發-肝組織發育的蛋白體圖譜資料庫建立	計畫執行	91.1.1~94.12.31	經濟部
陳怡婷	紅麴菌生產polyketide相關蛋白質之質譜與序列分析	計畫執行、代理計畫主持人	92.4.1~92.11.30	食品工業發展研究所
陳怡婷	肝硬化尿液生物標記之檢測	計畫主持人	94.1.1.~94.12.31	工業技術研究院前瞻計畫
陳怡婷	科技專案四年計畫-蛋白體臨床應用研發四年計畫 子計畫：高通量尿液生物標記技術平台	子項計畫主持人	95.1.1-98.12.31	經濟部
陳怡婷	Clinical application of proteomics	子計畫主持人	2006.1.1-2010.12.31	經濟部
陳怡婷	Development of analytical methods based on MALDI and ESI MS for differential proteome analysis in urine (EMRPD160631)methods based on MALDI and ESI MS for differential proteome analysis in urine (EMRPD160631)	計畫執行	2007.9.1 – 2007.12.31	教育部
陳怡婷	1.長庚大學蛋白質體 Core Lab (EMRPD170191,EMRPD190041) 2.教育部「邁向頂尖大學計畫」蛋白質體核心實驗室 (EMRPD1A0381, EMRPD1B0051)	計畫執行	97.1.1~101.12.31	教育部
陳怡婷	教育部「轉譯醫學及農學人才培育先導型計畫」 (EMRPD1A0291, EMRPD1B0011)	計畫執行	99.1.1~102.12.31	教育部

陳怡婷	以蛋白質體技術尋找尿液及膀胱組織中潛藏之膀胱癌生物標誌(CMRPG371251, CMRPG371252, CMRPG371251)	共同主持人 (計劃構思、撰寫及申請)	97.12.01~100.11.30	長庚醫院
陳怡婷	以標靶定量蛋白質體技術驗證膀胱癌生物標誌 (CMRPD190601, CMRPD190602)	共同主持人 (計劃構思、撰寫及申請)	99.12.01~102.11.30	長庚醫院
陳怡婷	利用定量蛋白質質學尋找及驗證腎臟癌生物標誌 (NHRI-EX100-10015BI) (NHRI-EX101-10015BI)	共同主持人 (計劃構思、撰寫及申請)	100.1.1~102.12.30	國家衛生研究院
陳怡婷	戈舍瑞林新合成路徑及製程技術開發 (GCRPD1A0011)	共同主持人 (計劃撰寫、申請及執行)	100.5.1~101.4.30	科學工業園區
陳怡婷	生物標誌計劃 Bioinformatics, technology and model term (CMRPD1B0531)	計畫執行	2012-2013	長庚醫院
陳怡婷	以質譜技術建構泌尿道疾病病人之疾病相關尿液蛋白質之個人化定量圖譜及應用於生物標記之找尋及驗證 (NSC 102-2113-M-182 -001 -MY2; NMRPD1C1371)	主持人	2013.12.1-2015.07.31	國科會/科技部
陳怡婷	心腎症候群I、II中尿液微型核糖核酸及蛋白質體表現 (MOST 103-2314-B-182A-018 -MY3)	共同主持人	2014/08/01 ~ 2017/07/31	科技部
陳怡婷	連結基因體、蛋白質體、代謝體之分子改變探討口腔癌致病機轉與轉譯醫學應用 (MOST 103 - 2632 - B - 182 - 001)-子計劃三	共同主持人/子計畫主持人	2014.8.1~2017.07.31	科技部
陳怡婷	慢性腎病急速惡化相關之生物標記-生物標誌導向之研究	共同主持人	2014.10.22-2016.12.31	長庚醫院
陳怡婷	應用iTRAQ蛋白質體找出無法恢復之生物指標(CMRPG3E0111)	共同主持人	2015.1.1~2016.6.30	長庚醫院
陳怡婷	以標靶定量質譜法分析疾病相關蛋白質及代謝物分子以驗證泌尿及腎臟疾病相關生物標記及轉譯醫學應用 (CMRPD3E251)	主持人	2015.1.1-2016.12.30	長庚醫院