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## BIOGRAPHICAL SKETCH

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

#### Other Experience and Professional Memberships

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

### B. Selected Peer-reviewed Publications (2005-2014) (in chronological order)

- (1) **Y. T Chen**, C. Y. Tsao, J. M Li, C. Y. Tsai, S. F. Chiu, T. L. Tseng\*, " Large-scale Protein Identification of Human Urine Proteome by Multi-dimensional Liquid Chromatography and Tandem Mass Spectrometry ", *Proteomics Clin. Appl.* 1, 577-587, 2007 (SCI).
- (2) Hui-Chu Hsieh, **Yi-Ting Chen**, Jen-Ming Li, Ting-Yu Chou, Ming-Fong Chang, See-Chang Huang, Tzu-Ling Tseng, Chung-Cheng Liu, and Sung-Fang Chen\*, "Protein Profiling in Mouse Liver Regeneration after Partial Hepatectomy using iTRAQ Technology". *J. Proteome Res.* 8, 1004-1043, 2009 (SCI).
- (3) **Yi-Ting Chen\***, Chien-Lun Chen, Hsiao-Wei Chen, Ting Chung, Chih-Ching Wu, Chi-De Chen, Chia-Wei Hsu, Meng-Chieh Chen, Ke-Hung Tsui, Phei-Lang Chang, Yu-Sun Chang, Jau-Song Yu, " Discovery of Novel Bladder Cancer Biomarkers by Comparative Urine Proteomics Using iTRAQ Technology ", *J. Proteome Research.* 9, 5803-5815, 2010 (SCI).
- (4) Shih-Yuan Chen, **Yi-Ting Chen**, Jey-Jau Lee, Soofin Cheng\*, Tuning Pore Diameter of Platelet SBA-15 Materials for Enzyme Adsorption, *J. Mater. Chem.* 21, 5693-5703. 2011 (SCI).
- (5) **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).

- (6) **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)
- (7) 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)
- (8) 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)
- (9) 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)
- (10) Chi-De Chen, Chih-Liang Wang, Chia-Jung Yu, Kun-Yi Chien, **Yi-Ting Chen**, Min-Chi Chen, Yu-Sun Chang, Chih-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.
- (11) 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.
- (12) 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.
- (13) 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*. In revision.

## C. Research Support

### Ongoing Research Support

- NSC 102-2113-M-182 -001 -MY2; NMRPD1C1371 12/01/13-07/31/15  
 A Personalized Mass Spectrometric-Map of the Disease-Associated Urinary Proteins for Biomarker Discovery and Verification of Urological Diseases  
 In this project, we plan to optimize the pre-analytical sample preparation, and development of a multiplexed-protein-quantitation assay using a MRM-mass spectrometric method. We will evaluate this targeted protein quantitation technology for urinary biomarker verification. The data contains concentration, biological variation, sensitivity, and specificity of these 106 targeted urine proteins in multiple diseases. The protein concentrations will be used to construct a personalized mass spectrometric-map of the 106 disease-associated urinary proteins and disease marker panels. The result will provide benchmarks for individual laboratories to evaluate the performance of non-invasive biomarkers in body fluids.  
 Role: PI
- MOST 103-2314-B-182A-018 -MY3 08/01/14-07/31/17  
 Urine miRNA and protein presentation in cardiosyndrome type I & type 2  
 Role: Co-PI
- MOST 103 - 2632 - B - 182 – 001 08/01/14-07/31/17  
 Connecting alterations in genome, proteome and metabolomics to explore OSCC pathogenesis and translational medicine potential  
 Role: Co-PI

### Completed Research Support (2006-2010)

- CMRPG371251-3 12/01/08-11/30/11  
 Mining the hidden urine and bladder proteome for bladder cancer biomarker discovery  
 Role: Co-PI

CMRPD190601-3 Verification of bladder cancer related markers by targeted quantitative proteomics Role: Co-PI	12/01/10-11/30/13
NHRI-EX100-10015BI Discovery of Novel Kidney Cancer Biomarkers by Quantitative Proteomic Approaches Role: Co-PI	01/01/11-12/30/13
GCRPD1A0011 Goserelin New Synthetic Route and Process Role: Co-PI	05/01/11-04/30/12