BIOGRAPHICAL SKETCH

NAME in English **Lang-Ming Chi** NAME in Chinese 紀 朗 明	POSITION TITLE Associate Research Fellow, Clinical Proteomics Core Laboratory, Chang Gung Memorial Hospital at Linko, Chang Gung Medical Foundation.

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE *(if applicable)*	MM/YY	FIELD OF STUDY
Taipei Medical College	B.S.	06/85	Nutrition and Medicine
National Tsing Hua University	Ph.D.	06/90	Biophysics
National Tsing Hua University	Postdoctoral	07/90	Protein Engineering
Chang Gung University	Postdoctoral	08/96	Biochemistry & Molecular Biology

A. Positions and Honors

Positions and Employment

1998-2005 Assistant Professor, Department of Medical Technology, Yuanpei Technology College, Hsinchu, Taiwan

2005-2012 Assistant Research Fellow, Department of Medical Research and Development Linko Branch, Chang Gung Memorial Hospital, Taiwan

2012-present Associate Research Fellow, Clinical Proteomics Core Laboratory, Department of Medical Research and Development Linko Branch, Chang Gung Medical Foundation, Taiwan

Other Experience and Professional Memberships

2005- Member, Human Proteome Organization (HUPO)

2005-2009 Member, Taiwan Society for Mass Spectrometry (TSMS)

2007- Member, Taiwan Proteomics Society (TPS)

2008-2010 Member, American Society for Biochemistry and Molecular Biology (ASBMB)

2012- Approved Signatory, Accredited Laboratory of Taiwan Accreditation Foundation (TAF)

Honors

2007- Poster Silver Award, Taiwan Proteomics Society International Conference, 2007, Taiwan

2009 Poster Award, The 2nd CGMH International Symposium on Disease Proteomics, Taiwan

2010- Poster Award, 2010 Disease Biomarker and TPS International Conference, Taiwan

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

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

1. Hsieh Y-J, Chien K-Y, Lin S-Y, Sabu S, Hsu R-M, **Chi L-M**, Lyu P-C, and **Yu J-S***. 2012 July 12, Photofrin binds to procaspase-3 and mediates photodynamic treatment–triggered methionine oxidation and inactivation of procaspase-3. *Cell Death Dis.* 3: e347; (SCI, IF: 6.044, 35/185 in Cell Biology)
2. Chen CY, **Chi LM**, Chi HC, Tsai MM, Tsai CY, Tseng YH, Lin YH, Chen WJ, Huang YH, Lin KH. Stable isotope labeling with amino acids in cell culture (SILAC)-based quantitative proteomics study of a

thyroid hormone-regulated secretome in human hepatoma cells. *Molecular & Cellular Proteomics.* 2012 Apr;11(4):M111.0112 (SCI, IF: 7.251, 5/75 in Biochemical Research Methods)

3. Lin SJ, Chang KP, Hsu CW, **Chi LM**, Chien KY, Liang Y, Tsai MH, Lin YT, Yu JS. 2013 Dec 6, Low-molecular-mass secretome profiling identifies C-C motif chemokine 5 as a potential plasma biomarker and therapeutic target for nasopharyngeal carcinoma. *J Proteomics.* 94C:186-201. (SCI, IF: 4.088, 15/75 in Biochemical Research Methods)
4. Chang KP, Wang CL, Kao HK, Liang Y, Liu SC, Huang LL, Hseuh C, Hsieh YJ, Chien KY, Chang YS, Yu JS, **Chi LM*.** 2013 Nov 15, Overexpression of caldesmon is associated with lymph node metastasis and poorer prognosis in patients with oral cavity squamous cell carcinoma. *Cancer.*;119(22):4003-11 (IF: 5.201, 32/197 in Oncology)
5. Chen JT, Ho CW, **Chi LM**, Chien KY, Hsieh YJ, Lin SJ, Yu JS. 2013 Jul 19. Identification of the lamin A/C phosphoepitope recognized by the antibody P-STM in mitotic HeLa S3 cells. *BMC Biochemistry* ;14:18. (IF: 1.776, 225/290 in Biochemistry & Molecular Biology)
6. Chung PJ, **Chi LM**, Chen CL, Liang CL, Lin CT, Chang YX, Chen CH, Chang YS., 2014 Sep, MicroRNA-205 Targets Tight Junction-related Proteins during Urothelial Cellular Differentiation, *Molecular & Cellular Proteomics,* 13, 2321-2336. (IF: 7.251, 5/75 in Biochemical Research Methods)
7. Fang KH, Kao HK, **Chi LM**, Liang Y, Liu SC, Hseuh C, Liao CT, Yen TC, Yu JS, Chang KP. 2014 Apr 5.Overexpression of BST2 is associated with nodal metastasis and poorer prognosis in oral cavity cancer. *Laryngoscope.* doi: 10.1002/lary.24700 (IF: 1.979, 7/44 in Otorhinolaryngology)
8. Chang KP, Lin SJ, Liu SC, Yi JS, Chien KY, **Chi LM**, Kao HK, Liang Y, Lin YT, Chang YS, Yu JS. Low-molecular-mass secretome profiling identifies HMGA2 and MIF as prognostic biomarkers for oral cavity squamous cell carcinoma, *Scientific Reports* 2015 Jul 3;5:11689 (IF: 5.578, R/C=5/57, Multidisciplinary Sciences)
9. Cheng ML, **Chi LM**, Wu PR, Ho HY. Dehydroepiandrosterone-induced changes in mitochondrial proteins contribute to phenotypic alterations in hepatoma cells. *Biochemical Pharmacology* 2016 Oct 1;117:20-34 (IF: 5.091, R/C=18/253 (7.1%), Pharmacology & Pharmacy)
10. Chen YC*, **Chi LM***, Chow KC, Chiou SH, Fan YH, Ho SP, Hsu YC, Hwang YC, Wu MX, Lee WM, Lin SL, Tsang CL, Mao FC. Association of anticardiolipin, antiphosphatidylserine, anti-β2 glycoprotein I, and antiphosphatidylcholine autoantibodies with canine immune thrombocytopenia. *BMC Veterinary Research*. 2016 Jun 13;12(1):106 (IF: 1.643, R/C=27/138 (19.6%), Veterinary Sciences)
11. Hsiao Y-C*, **Chi L-M***, Chien K-Y*, Chiang W-F, Chen S-F, Chuang Y-N, Lin S-Y, Wu C-C, Chu LJ, Chen Y-T, Chia S-L, Chien C-Y, Chang K-P, Chang Y-S, and Yu J-S*. (2017) Development of a multiplexed assay for oral cancer candidate biomarkers using peptide immunoaffinity enrichment and targeted mass spectrometry. *Molecular & Cellular Proteomics* 2017 Aug 18. doi: 10.1074/mcp.RA117.000147. (IF: 5.912, R/C=6/77, Biochemical Research Methods)

C. Research Support

Ongoing Research Support

CMRPG3G0501 Chi, Lang-Ming (PI) 01/01/2017-12/31/2017
Mining the surface proteome and phosphoproteome profiles of the malignant isogenic oral epithelial cell lines for oral cancer biomarker and regulatory signaling discovery
Role: PI

CLRPG3E0053 Chi, Lang-Ming (PI) 08/01/2017-07/31/2018
Operation and Maintenance of Clinical Proteomics Core Laboratory
Role: PI

Completed Research Support (2012-2017)

NSC 99-2320-B-182A-004-MY3 Chi, Lang-Ming (PI) 08/01/2010-07/31/2013
A systematic approach to the roles of interferon-stimulated gene 15 and its conjugates in oral cancer.
The goal of this study is to establish a qualitative and quantitative ISGylation proteome (ISCPomics) profile to explore the cancer diagnostic and prognostic values of ISG15 and its conjugates.
Role: PI

NSC 103-2320-B-182A-014 Chi, Lang-Ming (PI) 08/01/2014-07/31/2015
A systematic approach to the nteraction network and malignancy regulation of CAD in head-and-neck cancer cells
Role: PI

CMRPG3C1611-3 Chi, Lang-Ming (PI) 10/01/2013-09/30/2016
Proteome-wide evaluation and quantification of protein candidates in body fluid for oral cancer metastasis biomarkers discovery.
Role: PI

CMRPG3E1131-2 Chi, Lang-Ming (PI) 01/01/2014-12/31/2016
Explore the interactome and phosphoproteome of CDK1 complex in oral cancer cell lines
Role: PI

CLRPG3E0052 Chi, Lang-Ming (PI) 08/01/2016-07/31/2017
Operation and Maintenance of Clinical Proteomics Core Laboratory
Role: PI