
BIOGRAPHICAL SKETCH

NAME in English Jau-song Yu	POSITION TITLE Professor, Graduate Institute of Biomedical Sciences		
NAME in Chinese 余光松			
EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
Dept. of Chemistry, National Chen Kong University, Taiwan, R.O.C.	B.S.	06/84	Chemistry
Institute of Life Sciences, National Tsing Hua University, Taiwan, R.O.C.	Ph.D.	06/89	Biochemistry
Institute of Biomedical Sciences, National Tsing Hua University, Taiwan, R.O.C.	Postdoctoral	01/94	Protein kinase-mediated signal transduction

A. Positions and Honors

Positions and Employment

2016/08~ present	Director, Molecular Medicine Research Center, Chang Gung University, Tao-Yuan, Taiwan, R.O.C.
2003/01~present	Director, Proteomics Core Laboratory, Chang Gung University, Tao-Yuan, Taiwan, R.O.C.
2001/08~present	Professor, Department of Cell and Molecular Biology, College of Medicine, Chang Gung University, Tao-Yuan, Taiwan, R.O.C.
2001/08~2016/07	Director, Core Instrument Center, Chang Gung University, Tao-Yuan, Taiwan, R.O.C.
1994/08~2001/07	Associate Professor, Department of Cell and Molecular Biology, College of Medicine, Chang Gung University, Tao-Yuan, Taiwan, R.O.C.
1991/02~1994/08	Postdoctoral Fellow, Institute of Biomedical Sciences, National Tsing Hua University, Hsinchu, Taiwan, R.O.C.

Other Experience and Professional Memberships

2002-now	Committee member for Chang Gung Medical Research Program, Chia-Yi Division.
2006-2009	Committee member for Chang Gung Medical Research Program, Lin-Kuo Division.
2003~present	Council member of Taiwan Proteomics Society

Editor for Journals

Chang Gung Medical Journal (since 2004/4~2013, as Editorial Board Member)

Biomedical Journal (since 2014, as Editorial Board Member)

Scientific Reports (since 2017/2, as Editorial Board Member)

Honors

1. 1995, 1997-2001 National Science Council Grade A Research Award
2. 2011 Chang Gung University Research Award
3. 2017 Chang Gung University Industry-Academy Collaboration Award

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

(* , corresponding author)

1. 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. **Mol. Cell. Proteomics** 2017 Aug 18. pii: mcp.000147.2017. doi: 10.1074/mcp.RA117.000147. [Epub ahead of print] (IF 6.54, BIOCHEMICAL RESEARCH METHODS, 5/77) (number of citations: 0)
2. Chen TW#, Lee CC#, Liu H#, Wu CS#, Pickering CR#, Huang PJ, Wang J, Chang IYF, Yeh YM, Chen CD, Li HP, Luo JD, Tan BCM, Chan TEH, Hsueh C, Chu LJ, Chen YT, Zhang B, Yang CY, Wu CC, Hsu CW, See LC, Tang P, **Yu JS**, Liao WC, Chiang KWF, Rodriguez H, Cheng MH, Myers J, Chang KP*, Chang YS*. (2017) Integrated omics analyses identify APOBEC3A as an oral cancer prognostic biomarker in carriers of an APOBEC deletion polymorphism. **Nature Communications**. 2017 Sep 6;8(1):465. (IF 12.124, MULTIDISCIPLINARY SCIENCES, 3/64) (number of citations: 0)
3. Hsiao YC#, Chu LJ#, Chen JT, Yeh TS and **Yu JS***. (2017) Proteomic profiling of the cancer cell secretome: informing clinical research. **Expert Review of Proteomics** (Invited review article) 2017 Aug 8:1-20. (IF 3.849, BIOCHEMICAL RESEARCH METHODS, 18/77) (number of citations: 0)
4. Peng Y#, Zhang M#, Zheng L#, Liang Q#, Li H#, Chen J-T, Guo H, Yoshina S, Chen Y-Z, Zhao X, Wu X, Liu B, Mitani S, **Yu J-S**, Ding Xue*. (2017) Cysteine protease cathepsin B mediates radiation-induced bystander effects. **Nature** 547, 458–462 (27 July 2017) (IF 40.137, MULTIDISCIPLINARY SCIENCES, 1/64) (number of citations: 0)
5. Cheng JC*, Tseng CP, Liao MH, Peng CY, **Yu JS**, Chuang PH, Huang JT, Chen JJW. (2017) Activation of hepatic stellate cells by the ubiquitin C-terminal hydrolase 1 protein secreted from hepatitis C virus-infected hepatocytes. **Scientific Reports**. 2017 June 30;7:4448. (IF 4.259, MULTIDISCIPLINARY SCIENCES, 10/64) (number of citations: 0)
6. Hsieh Y-J#, Chien K-Y#, Yang I-F, Lee I-N, Wu C-C, Huang T-Y, and **Yu J-S*** (2017) Oxidation of protein-bound methionine in Photofrin-photodynamic therapy-treated human tumor cells explored by methionine-containing peptide enrichment and quantitative proteomics approach. **Scientific Reports** 2017 May 2;7(1):1370. (IF 4.259, MULTIDISCIPLINARY SCIENCES, 10/64) (number of citations: 0)
7. Shao CH, Chen CL, Lin JY, Chen CJ, Fu SH, Chen YT, Chang YS, **Yu JS**, Tsui KH, Juo CG*, Wu KP*. (2017) Metabolite marker discovery for the detection of bladder cancer by comparative metabolomics. **Oncotarget**. 2017 Mar 21. 2017; 8:38802-38810 doi: 10.18632/oncotarget.16393. (IF 5.168, ONCOLOGY, 44/217) (number of citations: 0)
8. Chen Y-T*, Chen H-W, Wu C-F, Chu L-J, Chiang W-F, Wu C-C, **Yu J-S**, Tsai C-H, Liang K-H, Chang Y-S, Wu M, Ou Yang W-T. (2017) Development of a multiplexed LC-MRM/MS method for evaluation of salivary proteins as oral cancer biomarkers. **Mol. Cell. Proteomics** 2017 May;16(5):799-811. (IF 6.54, BIOCHEMICAL RESEARCH METHODS, 5/77) (number of citations: 0)
9. Lin YT, Chien KY, Wu CC, Chang WY, Chu LJ, Yeh CT*, **Yu JS***. (2017) Super-SILAC mix coupled with SIM/AIMS assays for targeted verification of phosphopeptides discovered in a large-scale phosphoproteome analysis of hepatocellular carcinoma. **J. Proteomics**. 2017 Mar 22;157:40-51. (IF 3.914, BIOCHEMICAL RESEARCH METHODS, 17/77) (number of citations: 0)
10. Chung I-C, OuYang C-N, Yuan S-N, Li H-P, Chen J-T, Shieh H-R, Chen Y-J, Ojcius DM, **Yu J-S**, Chang Y-S, Chen L-C*. (2016) Pyk2 activates the NLRP3 inflammasome by directly phosphorylating ASC and contributes to inflammasome-dependent peritonitis. **Scientific Reports** 2016 Oct 31;6:36214. (IF 5.228, MULTIDISCIPLINARY SCIENCES, 7/62) (number of citations: 0)
11. **Yu JS***, Chen YT#, Chiang WF#, Hsiao YC#, Chu LJ#, See LC, Wu CS, Tu HT, Chen HW, Chen CC, Liao WC, Chang YT, Wu CC, Lin CY, Liu SY, Chiou ST, Cha SL, Chang KP, Chien CY, Chang SW, Chang CJ, Young JD, Pao CC, Chang YS*, Hartwell LH* (2016) Saliva Protein Biomarkers to Detect Oral Squamous Cell Carcinoma in a High-Risk Population in Taiwan. **Proc Natl Acad Sci USA**. 2016 Oct 11;113(41):11549-11554. (IF 9.423, MULTIDISCIPLINARY SCIENCES 4/62) (number of citations: 2)
12. Hsu CH, Hsu CW, Hsueh C, Wang CL, Wu YC, Wu CC, Liu CC, **Yu JS**, Chang YS, Yu CJ.* (2016) Identification and characterization of potential biomarkers by quantitative tissue proteomics of primary lung adenocarcinoma. **Mol. Cell. Proteomics** 2016 Jul;15(7):2396-410. (IF 5.912, BIOCHEMICAL RESEARCH METHODS 6/77) (number of citations: 5)

13. Chen H#, Hsiao Y-C#, Chiang S-F, Wu C-C, Lin Y-T, Liu H, Zhao H, Chen J-S, Chang Y-S, and **Yu J-S***. (2016) Quantitative analysis of wild-type and V600E mutant BRAF proteins in colorectal carcinoma using immunoenrichment and targeted mass spectrometry. **Anal. Chim. Acta** 2016 Aug 24; 933:144-55. (IF 4.712, CHEMISTRY, ANALYTICAL 8/75) (number of citations: 0)
14. Wang C-I, Chan Y-Y, Wang C-L, **Yu J-S**, Chang Y-S, and Yu C-J*. (2016) mTOR regulates proteasomal degradation and Dp1/E2F1-mediated transcription of KPNA2 in lung cancer cells. **Oncotarget** 2016 May 3;7(18):25432-42. (IF 6.359, ONCOLOGY, 20/211) (number of citations: 3)
15. Wu C-P*, Hsieh Y-J, Hsiao S-H, Su C-Y, Li Y-Q, Huang Y-H, Huang C-W, Hsieh C-H, **Yu J-S** and Wu Y-S*. (2016) Human ATP-Binding Cassette transporter ABCG2 confers resistance to CUDC-907, a dual inhibitor of histone deacetylase and phosphatidylinositol 3-kinase. **Mol. Pharm.** 2016 Mar 7;13(3):784-94. (IF 4.384, PHARMACOLOGY & PHARMACY 29/255) (number of citations: 6)
16. Chiang S-F, Kan C-Y, Hsiao Y-C, Tang R, Hsieh L-L, Chiang J-M, Tsai W-S, Yeh C-Y, Hsieh P-S, Liang Y, Chen J-S, **Yu J-S*** (2015) Bone marrow stromal antigen 2 is a novel plasma biomarker and prognosticator for colorectal carcinoma — A secretome-based verification study. **Disease Markers** 2015; 2015:874054. (IF 1.562, MEDICINE, RESEARCH & EXPERIMENTAL 86/123) (number of citations: 2)
17. Chen C-L, Chung T, Wu C-C, Ng K-F, **Yu J-S**, Tsai C-H, Chang Y-S, Liang Y, Chen Y-T* (2015) Comparative tissue proteomics of microdissected specimens reveals novel candidate biomarkers of bladder cancer. **Mol Cell Proteomics.** 2015 Sep;14(9):2466-78. (IF 6.564, BIOCHEMICAL RESEARCH METHODS 5/79) (number of citations: 9)
18. Lee C-W, Chang K-P, Chen Y-Y, Liang Y, Hsueh C, **Yu J-S**, Chang Y-S, and Yu C-J*. (2015) Overexpressed tryptophanyl-tRNA synthetase, an angiostatic protein, enhances oral cancer cell invasiveness. **Oncotarget** 2015 Sep 8;6(26):21979-92. (IF 6.359, ONCOLOGY, 20/211) (number of citations: 2)
19. Chang K-P, Lin S-J, Liu S-C, Yi J-S, Chien K-Y, Chi L-M, Kao H-K, Liang Y, Lin Y-T, Chang Y-S, **Yu J-S*** (2015) 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, MULTIDISCIPLINARY SCIENCES, 7/62) (number of citations: 10)
20. Kuo R-L*, Lin Y-H, Robert Wang R.Y-L, Hsu C-W, Chiu Y-T, Huang H-I, Kao L-T, **Yu J-S**, Shih S-R, and Wu C-C* (2015) Proteomics analysis for EV71-infected cells reveals the involvement of host protein NEDD4L in EV71 replication. **J. Proteome Res.** 2015 Apr 3;14(4):1818-30. (IF 4.245, BIOCHEMICAL RESEARCH METHODS 14/79) (number of citations: 3)
21. Wang C-I, Wang C-L, Wu Y-C, Feng H-P, Liu P-J, Chang Y-S, **Yu J-S**, and Yu C-J* (2015) Quantitative proteomics reveals a novel role of karyopherin alpha 2 (KPNA2) in cell migration through the regulation of vimentin-pErk protein complex levels in lung cancer. **J. Proteome Res.** 2015 Apr 3;14(4):1739-51. (IF 4.245, BIOCHEMICAL RESEARCH METHODS 14/79) (number of citations: 10)
22. Wu H, Wei L, Fan F, Ji S, Zhang S, Geng J, Hong L, Fan X, Chen Q, Tian J, Jiang M, Sun X, Jin C, Yin YZ, Liu Q, Zhang J, Qin F, Lin KH, **Yu JS**, Deng X, Wang HR, Zhao B, Johnson RL, Chen L*, Zhou D* (2015) Integration of Hippo signaling and the unfolded protein response to restrain liver overgrowth and tumorigenesis. **Nat. Commun.** 2015 Feb 19; 6:6239. (IF10.742, MULTIDISCIPLINARY SCIENCES 3/55) (number of citations: 19)
23. Liu PJ, Chen CD, Wang CL, Wu YC, Hsu CW, Lee CW, Huang LH, **Yu JS**, Chang YS, Wu CC*, Yu CJ.* (2015) In-depth proteomic analysis of six types of exudative pleural effusions for non-small cell lung cancer biomarker discovery. **Mol. Cell Proteomics.** 2015 Apr;14(4):917-32. (IF 6.564, BIOCHEMICAL RESEARCH METHODS 5/79) (number of citations: 15)
24. Chao M*, Wang HN, Lu YJ, Chang YS, **Yu JS** (2015) A V-val subtype Epstein-Barr virus nuclear antigen 1 promotes cell survival after serum withdrawal. **Oncol. Rep.** 33(2):958-66. (IF 2.191, ONCOLOGY 127/203) (number of citations: 4)
25. Gopinath RK[†], You ST[†], Chien KY[†], Swamy KB, **Yu JS**, Schuyler SC*, Leu JY* (2014) The Hsp90-dependent proteome is conserved and enriched for hub proteins with high levels of protein-protein connectivity. **Genome Biol. Evol.** 6(10):2851–2865. (IF 4.532, GENETICS and HEREDITY, 33/164) (number of citations: 6)
26. Chiang S-F, Tsai M-H, Tang R, Hsieh L-L, Chiang J-M, Yeh C-Y, Hsieh P-S, Tsai W-S, Liu Y-P, Liang Y, Chen J-S* and **Yu J-S*** (2014) Membrane proteins as potential colon cancer biomarkers: verification of 4 candidates from a secretome dataset. **Surgical Science** 5(10), 418-438.
27. Hsu R-M, Hsieh Y-J, Yang T-H, Chiang Y-C, Kan C-Y, Lin Y-T, Chen J-T, and **Yu J-S***. (2014) Binding

- of the extreme carboxyl-terminus of PAK-interacting exchange factor β (β PIX) to myosin 18A (MYO18A) is required for epithelial cell migration. **BBA-Mol Cell Res.** 1843 (11), 2513-2527. (IF 5.297, Cell Biology 47/185) (number of citations: 5)
28. Juo C-G*, Chen C-L, Fu S-H, Lin S-T, Chen Y-T, Chang Y-S, and **Yu J-S**. (2014) Mass accuracy improvement of reversed-phase liquid chromatography/electrospray ionization mass spectrometry based urinary metabolomic analysis by post-run calibration using sodium formate cluster ions. **Rapid Commun Mass Spectrom** 28(16), 1813–1820. (IF 2.509, Spectroscopy, 13/43) (number of citations: 3)
 29. Wu C-C[#], Chang Y-T[#], Chang K-P, Liu Y-L, Liu H-P, Lee I-L, Yu J-S, and Chiang W-F*. (2014) Salivary auto-antibodies as noninvasive diagnostic markers of oral cavity squamous cell carcinoma. **Cancer Epidemiol Biomarkers Prev** 2014 Aug;23(8):1569-78. (IF 4.324, Public, Environmental and Occupational Health 12/160) (number of citations: 4)
 30. Fang K-H, Kao H-K, Chi L-M, Liang Y, Liu S-C, Hseuh C, Liao C-T, Yen T-C, **Yu J-S**, Chang K-P*. (2014) Overexpression of BST2 is associated with nodal metastasis and poorer prognosis in oral cavity cancer. **Laryngoscope** 2014 Sep;124(9):E354-60. (IF 2.032, OTORHINOLARYNGOLOGY 9/43) (number of citations: 10)
 31. Chen C-D, Wang C-L, Yu C-J, Chien K-Y, Chen Y-T, Chen M-C, Chang Y-S, Wu C-C*, and **Yu J-S*** (2014) Targeted proteomic pipeline reveals diagnostic biomarkers for malignant pleural effusion of lung cancer. **J. Proteome Res.** 2014 Jun 6; 13(6):2818-29. (IF 5.001, BIOCHEMICAL RESEARCH METHODS 9/78) (number of citations: 13)
 32. Hsu C-W, **Yu J-S**, Peng P-H, Liu S-C, Chang Y-S, Chang K-P*, and Wu C-C* (2014) Secretomic profiling of primary cells reveals THBS2 as a salivary biomarker of oral cavity squamous cell carcinoma. **J. Proteome Res.** 2014 Nov 7;13(11):4796-807. (IF 5.001, BIOCHEMICAL RESEARCH METHODS 9/78) (number of citations: 16)
 33. Wang H-J, Hsieh Y-J, Cheng W-C, Lin C-P, Lin Y, Yang S-F, Chen C-C, Izumiya Y, **Yu J-S**, Kung H-J*, Wang W-C*. (2014) JMJD5 regulates PKM2 nuclear translocation and reprograms HIF-1 α -mediated glucose metabolism. **Proc Natl Acad Sci USA** 2014 Jan 7; 111(1):279-84. (IF 9.809, MULTIDISCIPLINARY SCIENCES 4/55) (number of citations: 63)
 34. Tseng S-P, Teng S-H, Lee P-S, Wang C-F, **Yu J-S**, Lu P-L*. (2013) Rapid identification of *M. abscessus* and *M. massiliense* by MALDI-TOF mass spectrometry with a comparison to sequencing methods and antimicrobial susceptibility patterns. **Future Microbiol.** 2013 Nov; 8:1381-9. (IF 4.018, MICROBIOLOGY 28/116) (number of citations: 8)
 35. Lin S-J, Chang K-P, Hsu C-W, Chi L-M, Chien K-Y, Liang Y, Tsai M-H, Lin Y-T, **Yu J-S***. (2013) Low-molecular-mass secretome profiling identifies C-C motif chemokine 5 as a potential plasma biomarker and therapeutic target for nasopharyngeal carcinoma. **J. Proteomics** 2013 Dec 6; 94, 186-201. (IF 3.929, BIOCHEMICAL RESEARCH METHODS 16/78) (number of citations: 6)
 36. Chen J-T, Ho C-W, Chi L-M, Chien K-Y, Hsieh Y-J, Lin S-J, **Yu J-S***. (2013) Identification of the lamins A/C phosphoepitope recognized by P-STM antibody in mitotic HeLa S3 cells. **BMC Biochem.** 2013 Jul 19;14(1):18. (IF 1.776, BIOCHEMISTRY & MOLECULAR BIOLOGY 225/290) (number of citations: 4)
 37. Chang K-P, Wang C-L, Kao H-K, Liang Y, Liu S-C, Huang L-L, Hseuh C, Hsieh Y-J, Chien K-Y, Chang Y-S, **Yu J-S**, Chi L-M*. (2013) Overexpression of caldesmon is associated with nodal metastasis and poorer prognosis in oral cavity squamous cell carcinomas. **Cancer** 119, 4003-11. 2013 Aug 20. (IF 5.201, ONCOLOGY 32/196) (number of citations: 10)
 38. Wang RY*, Kuo R-L, Ma W-C, Huang H-I, **Yu J-S**, Yen S-M, and Huang C-R, Shih S-R (2013) Heat shock protein-90-beta facilitates enterovirus 71 viral particles assembly. **Virology** 2013 Sep 1;443(2):236-47. (IF 3.367, VIROLOGY 9/34) (number of citations: 11)
 39. Chen C-L, Lin T-S, Tsai C-H, Wu C-C, Chung T, Chien K-Y, Wu M, Chang Y-S, **Yu J-S***, and Chen Y-T* (2013) Identification of potential bladder cancer markers in urine by abundant-protein depletion coupled with quantitative proteomics. **J. Proteomics** 2013 Jun 24; 85:28-43. (IF 4.088, BIOCHEMICAL RESEARCH METHODS 15/75) (number of citations: 42)
 40. Lin Y-H*, Chen Y-J, Lai C-S*, Chen Y-T, Chen C-L, **Yu J-S**, and Chang Y-S (2013) A negative-pressure-driven microfluidic chip for the rapid detection of a bladder cancer biomarker in urine using bead-based ELISA. **Biomicrofluidics** 2013 Mar 7; 7(2):24103; (IF 3.385, PHYSICS, FLUIDS & PLASMAS 3/31) (number of citations: 18)
 41. Dong Y-M, Chien K-Y, Chen J-T, Wang TCV, Lin S-J, **Yu J-S*** (2013) Site-specific separation and detection of phosphopeptide isomers with pH-mediated stacking capillary zone electrophoresis-coupled

- electrospray ionization-tandem mass spectrometry. **J. Sep. Sci.** 36(9-10):1582-9. (IF 2.591, CHEMISTRY, ANALYTICAL 25/75) (number of citations: 13)
42. Hsuuw Y-D, Chan W-H*, **Yu J-S** (2013) Ochratoxin A inhibits mouse embryonic development by activating a mitochondrion-dependent apoptotic signaling pathway. **Int. J. Mol. Sci.** 2013 Jan 7;14(1):935-53. (IF 2.464, CHEMISTRY, MULTIDISCIPLINARY 48/152) (number of citations: 15)
 43. Chen L-C, Liu M-Y, Hsiao Y-C, Choong W-K, Wu H-Y, Hsu W-L, Liao P-C*, Sung T-Y*, Tsai S-F*, **Yu J-S***, Chen Y-J* (2013) Decoding the disease-associated proteins encoded in the human Chromosome 4. **J Proteome Res.** 2013 Jan 4;12(1):33-44. (IF 5.056, BIOCHEMICAL RESEARCH METHODS 10/75) (number of citations: 4)
 44. Chang Y-F#, **Yu J-S#**, Chang Y-T, Su L-C, Li Y-C, Wu C-C, Chang Y-S, Lai C-S, Chou C* (2013). The utility of a high-throughput scanning biosensor in the detection of the pancreatic cancer marker ULBP2. **Biosens. Bioelectron.** 2013 Mar 15; 41, 232-237. #Equal contributions to this research (IF 6.451, Chemistry, Analytical 3/76) (number of citations: 12)
 45. Hsueh C*, Lin J-D, Chang Y-S, Hsueh S, Chao T-C, **Yu J-S**, Jung S-M, Tseng N-M, Sun J-H, Kuo S-Y, Ueng H-S. (2013) Prognostic significance of expression of pituitary tumor-transforming gene-binding factor (PBF) in papillary thyroid carcinoma. **Clin. Endocrinol. (Oxf)** 2013 Feb;78(2):303-9. (IF 3.396 ENDOCRINOLOGY & METABOLISM, 46/121) (number of citations: 10)
 46. Chen C-L, Lai Y-F, Tang P, Chien K-Y, **Yu J-S**, Tsai C-H, Chen H-W, Wu C-C, Chung T, Hsu C-W, Chen C-D, Chang Y-S, Chang P-L, Chen Y-T* (2012) Comparative and targeted proteomic analyses of urinary microparticles from bladder cancer and hernia patients. **J. Proteome Res.** 2012 Dec 7; 11(12):5611-29. (IF 5.056, BIOCHEMICAL RESEARCH METHODS 10/75) (number of citations: 58)
 47. Wang C-I, Chien K-Y, Wang C-L, Liu H-P, Cheng C-C, Chang Y-S, **Yu J-S**, Yu C-J* (2012) Quantitative proteomics reveals regulation of KPNA2 and its potential novel cargo proteins in non-small cell lung cancer. **Mol. Cell. Proteomics** 2012 Nov; 11(11):1105-22. (IF 7.251, BIOCHEMICAL RESEARCH METHODS 5/75) (number of citations: 37)
 48. Pan T-L*, Wang P-W, Huang C-C, Yeh C-T, Hu T-H, **Yu J-S** (2012) Network analysis and proteomic identification of vimentin as a key regulator associated with the invasiveness and metastasis of human hepatocellular carcinoma cells. **J. Proteomics** 2012 Aug 3; 75(15):4676-92. (IF 4.878, BIOCHEMICAL RESEARCH METHODS 12/72) (number of citations: 28)
 49. Tsai M-H, Wu C-C, Peng P-H, Liang Y, Shiao Y-C, Chien K-Y, Chen J-T, Lin S-J, Tang R-P, Hsieh L-L*, **Yu J-S*** (2012) Identification of secretory gelsolin as a plasma biomarker associated with distant organ metastasis of colorectal cancer. **J. Mol. Med. (Berl)** 90(2), 187-200. (IF 5.192/4.668, MEDICINE, RESEARCH & EXPERIMENTAL 13/106, 15/111) (number of citations: 13)
 50. Chen Y-T, Chen H-W, Domanski D, Smith DS, Liang K-H, Wu C-C, Chen C-L, Chung T, Chen M-C, Chang Y-S, Borchers CH*, **Yu J-S*** (2012) Multiplexed quantification of 63 proteins by multiple reaction monitoring-based mass spectrometry in human urine for discovery of potential bladder cancer biomarkers. **J. Proteomics** 75(12):3529-45. 2012 Jan 3. (IF 5.074/4.878, BIOCHEMICAL RESEARCH METHODS 10/71, 12/72) (number of citations: 71)
 51. Hsieh Y-J, Chien K-Y, Lin S-Y, Sabu S, Hsu R-M, Chi L-M, Lyu P-C, **Yu J-S***. (2012) Photofrin binds to procaspase-3 and mediates photodynamic treatment-triggered methionine oxidation and inactivation of procaspase-3. **Cell Death Dis.** 3: e347; doi:10.1038/cddis.2012.85. July 12 2012 (IF 5.177, CELL BIOLOGY 35/184) (number of citations: 2)

Book chapters

1. Wen-Chuan Huang, Yann-Lii Leu, **Jau-Song Yu***. (2011). Cancer and treatment with seeds of Chinese Fan Palm (*Livistona chinensis* R. Brown). In V. R. Preedy, R. R. Watson, V. B. Patel (Editors), *Nuts & Seeds in Health and Disease Prevention* (1st ed.) (pp 325-331). London, Burlington, San Diego: Academic Press.
2. 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**. (2013) Chapter 10 "A Pipeline that Integrates the Discovery and Verification Studies of Urinary Protein Biomarkers Reveals Candidate Markers for Bladder Cancer". In *Comprehensive Biomarker Discovery and Validation for Clinical Application*. Peter Horvatovich, Rainer Bischoff, David E. Thurston (Editors), Royal Society of Chemistry (RSC).

Patents

1. **Jau-Song Yu**, Kai-Ping Chang. (2012) Method of detecting malignancy of nasopharyngeal carcinoma and a nasopharyngeal carcinoma malignancy biomarker. United States Patent, US8,148,059B2, Apr. 3, 2012. Patent period 2012/4/3~2029/10/30
2. Yi-Ting Chen, **Jau-Song Yu**, Chien-Lun Chen, Yu-Sun Chang (2013) Urine markers for detecting bladder cancer and a method for using the urine markers. Republic of China patent, I390204. Patent period: 2013/03/21-2030/2/10
3. **Jau-Song Yu**, Ya-Ting Chang, Chih-Ching Wu, Yi-Ming Shyr, Yu-Sun Chang (2013) A serological marker for detecting pancreatic cancer and a method for using the serological marker. Republic of China patent, I408370. Patent period: 2013/9/11~2031/5/18
4. **Jau-Song Yu**, Ming-Hung Tsai, Ling-Ling Hsieh (2014) Plasma Marker for Distal Metastasis in Colorectal Cancer. Republic of China patent, I444386. Patent period: 2014/7/11~2032/4/9
5. Yi-Ting Chen, **Jau-Song Yu**, Chien-Lun Chen, Yu-Sun Chang (2016) Urine markers for detecting bladder cancer and kidney cancer. Republic of China patent, I522367. Patent period: 2016/2/21~2033/4/11
6. **Jau-Song Yu**, Yi-Ting Chen, Wei-Fan Chiang, Yu-Sun Chang, Lai-Chu See, Yung Chin Hsiao, Kai-Ping Chang. (2016) Apparatus and methods for detecting oral squamous cell carcinoma. US provisional application. No. 62309766 (application date: 2016/03/17)
7. **Jau-Song Yu**, Yi-Ting Chen, Wei-Fan Chiang, Yu-Sun Chang, Lai-Chu See, Yung Chin Hsiao, Kai-Ping Chang. (2017) Methods for cancer diagnosis and prognosis. International application (PCT) No. PCT/US17/22853 (application date: 2017/03/17)
8. **Jau-Song Yu**, Yi-Ting Chen, Wei-Fan Chiang, Yu-Sun Chang, Lai-Chu See, Yung Chin Hsiao, Kai-Ping Chang. (2017) Methods for cancer diagnosis and prognosis. Republic of China patent application No. 106108654 (application date: 2017/03/16)

Technology transfer and industry-university collaboration

1. The technology entitled “Method for cancer diagnosis and prognosis” has been transferred to See & Treatment LTD. (世延生醫股份有限公司), time period: 2017/1/23-2023/1/22, royalty free: 10,000,000 NTD. Industry-university collaboration project entitled “Development of immunoassay kits for detecting oral cancer biomarkers”, time period: 2017/6/1-2019/5/31, program budget: 6,300,000 NTD.

C. Research Support

Ongoing Research Support

Project name	Funding or commissioning organization	Y/M of project start and end	Role in the project	Total funding (NTD)
利用定量醣化蛋白質體學策略研發新穎口腔癌唾液生物標記(106-2320-B-182-029-MY3)	Ministry of Science and Technology	2017/8/1~2020/7/31	PI	6,315,000
利用整合循環腫瘤細胞、胞外囊泡與免疫組庫研究開發大腸直腸癌檢測與治療之血液生物標記(106-2632-B-182-002-)	Ministry of Science and Technology	2017/8/1~2018/7/31	PI	4,050,000
使用機器學習及訊號處理理論整合感染症病患的生理訊號、自律神經失衡、傳統及新穎的炎症生物標記、來發展及驗證早期預估治療效果的臨床預測模型：一個敗血症生物標誌在急診	Ministry of Science and Technology	2017/08/01~2018/07/31	Co-PI	980,000

的醫院世代研究(106-2314-B-182-028-)				
以低分子量蛋白質體學策略找尋口腔癌新穎生物標記(105-2628-B-182A-008-MY3)	Ministry of Science and Technology	2016/08/01~2019/07/31	Co-PI	3,750,000
蛋白質樣品前處理微流體晶片應用於蛋白質體學研究及癌症快速偵測(105-2221-E-182-036-MY3)	Ministry of Science and Technology	2016/08/01~2019/07/31	Co-PI	2,971,000
心腎症候群I、II中尿液微型核糖核酸及蛋白質體的表現(103-2314-B-182A-018-MY3)	Ministry of Science and Technology	2014/08/01~2017/10/31	Co-PI	3,300,000

Completed Research Support (2010-2017)

Project name	Funding or commissioning organization	Y/M of project start~end	Role in the project	Total funding (NTD)
開發口腔癌唾液生物標誌OCBM1快速免疫篩檢試劑(2/2) (MOST 105-2325-B-182-001)	Ministry of Science and Technology	2016/06/01~2017/05/31	PI	2,100,000
開發口腔癌唾液生物標誌OCBM1快速免疫篩檢試劑(1/2) (MOST 104-2325-B-182-003)	Ministry of Science and Technology	2015/06/01~2016/05/31	PI	2,000,000
以定量磷酸化蛋白質體學技術找尋GSK-3新穎受質及探討受質生物功能與調節機制(102-2628-B-182-013-MY3)	Ministry of Science and Technology	2013/08/01~2016/07/31	PI	6,000,000
利用高通量多重生物標的分析技術平台快速有效驗證癌症體液生物標誌－(總計畫與子計畫一) 建立高通量多重蛋白質標的分析技術平台快速有效驗證癌症體液蛋白質生物標誌(3/3)(103-2325-B-182-003-)	Ministry of Science and Technology	2014/05/01~2015/04/30	PI	2,400,000
利用高通量多重生物標的分析技術平台快速有效驗證癌症體液生物標誌－(總計畫與子計畫一) 建立高通量多重蛋白質標的分析技術平台快速有效驗證癌症體液蛋白質生物標誌(2/3)(102-2325-B-182-010-)	Ministry of Science and Technology	2013/05/01~2014/04/30	PI	2,603,000
利用高通量多重生物標的分析技術平台快速有效驗證癌症體液生物標誌－(總計畫與子計畫一) 建立高通量多重蛋白質標的分析技術平台快速有效驗證癌症體液蛋白質生物標誌(1/3)(101-	Ministry of Science and Technology	2012/05/01~2013/04/30	PI	2,500,000

2325-B-182-011-)				
以MRM多重反應監測蛋白質體學技術定量分析人類第18號染色體之特定蛋白質(99-2923-B-182-002-MY2)	Ministry of Science and Technology	2010/08/01~2012/07/31	PI	1,998,000
早期偵測胰臟癌之血液生物標誌組合：研發與前瞻性研究(99-2320-B-182-017-MY3)	Ministry of Science and Technology	2010/08/01~2013/07/31	PI	5,460,000
可攜式高靈敏唾液口腔癌快篩螢光檢測儀開發(104-2622-B-492-001-CC3)	Ministry of Science and Technology	2015/11/01~2016/10/31	Co-PI	950,000
心腎症候群I、II中尿液微型核糖核酸及蛋白質體的表現(103-2314-B-182A-018-MY3)	Ministry of Science and Technology	2014/08/01~2017/07/31	Co-PI	3,300,000
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(102-2113-M-182-001-MY2)	Ministry of Science and Technology	2013/12/01~2015/07/31	Co-PI	3,098,000
以已建立之分泌與組織蛋白質體資料庫為基礎，尋找口腔癌病患體液與組織中有效之偵測與轉移生物標誌(102-2628-B-182A-012-MY3)	Ministry of Science and Technology	2013/08/01~2016/07/31	Co-PI	3,600,000
赭?毒素A的小鼠胚胎毒性及機轉研究(101-2311-B-033-001-MY3)	Ministry of Science and Technology	2012/08/01~2015/10/31	Co-PI	3,750,000
開發抗體群組及抗體微陣列用於子宮內膜癌及其癌前病變的篩檢(3/3)(102-2325-B-182A-013-)	Ministry of Science and Technology	2013/05/01~2014/07/31	Co-PI	4,000,000
開發抗體群組及抗體微陣列用於子宮內膜癌及其癌前病變的篩檢(2/3)(101-2325-B-182-007-)	Ministry of Science and Technology	2012/05/01~2013/04/30	Co-PI	3,400,000
開發抗體群組及抗體微陣列用於子宮內膜癌及其癌前病變的篩檢(1/3)(100-2325-B-182-008-)	Ministry of Science and Technology	2011/05/01~2012/04/30	Co-PI	4,000,000
評估血液中微小RNA作為口腔癌新穎生物標誌之可能性(99-2314-B-182-051-MY3)	Ministry of Science and Technology	2010/08/01~2013/07/31	Co-PI	3,000,000
腫瘤微環境在癌症治療上之意義：系統性分析腫瘤細胞與凝血系統的交互作用－腫瘤微環境在癌症治療上之意義：系統性分析腫瘤細胞與凝血系統的交互作用(99-2632-B-182-001-MY3)	Ministry of Science and Technology	2010/08/01~2013/10/31	Co-PI	16,500,000
研究化學預防藥物(COX-2選擇性抑制劑)對口腔	Ministry of	2009/08/01~	Co-PI	4,134,000

癌前病變臨床表徵及生物指標之變化(98-2628-B-341-001-MY3)	Science and Technology	2012/07/31		
---	------------------------	------------	--	--