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## EDUCATION

- 1973-77 **B.S. in Pharmacy** at Kaohsiung Medical College at Taiwan  
1977-79 **M.S. in Biochemical Sciences** at National Taiwan University, with Dr. Kung-Tsung Wang, Dissertation entitled "**Enzyme-catalyzed peptide bond formation**"  
1983-89 **Ph.D. in Biological Chemistry** at University of Michigan, with Dr. G. Robert Greenberg, Dissertation entitled "**Expression of genes encoding bacteriophage T4 ribonucleoside diphosphate reductase**"

## PROFESSIONAL EXPERIENCE

- 2006-09 **Chairperson**, Department of Life Science and Institute of Molecular Biology and Institute of Biomedicine, National Chung Cheng University  
2004- **Associate Professor**, Department of Life Science and Institute of Molecular Biology, National Chung Cheng University  
1998-2004 **Associate Professor**, Graduate Institute of Cell and Molecular Biology, Taipei Medical University  
1997-98 **Sr. Postdoctoral Fellow**, Institute of Biological Chemistry, Academia Sinica  
1991-97 **Sr. Research Fellow** with Dr. Craig D. Logsdon, Department of Physiology, University of Michigan  
1989-91 **Research Fellow** with Professor G. Robert Greenberg, Department of Biological Chemistry, University of Michigan  
1981-83 **Assistant Researcher** with Professor Kung-Tsung Wang, Institute of Biological Chemistry, Academia Sinica, Taiwan  
1979-81 2nd Lieutenant Medical Officer, Army, Military Service, Taiwan

## GRANTS, HONORS, PATENTS AND AWARDS

- 2015-17 MOST 104-2221-E-194-038-MY2 from Ministry of Science and Technology, R.O.C. Project entitled "**Develop efficient antibodies to detect carbapenem-resistant gene products for quick diagnosis of resistant infectious bacteria using double-sided grating waveguide detection system**"  
2014 **Japanese patent** 特許第 5583105 號, Patent entitled "耐鹼性芽胞桿菌製造可控制組成之木寡糖製造方法", Co-inventor: 李文乾, 曾智彬, 林佑生。登錄日: July 25, 2014.  
2014-15 NSC103-2221-E-194-058 from National Science Council (國科會), Project entitled "**Develop efficient antibodies to detect carbapenem-resistant gene products for quick diagnosis of resistant infectious bacteria using double-sided grating waveguide detection system**"  
2014-31 **中華民國專利** 發明第 I442934 號, Patent entitled "組蛋白H4抗體的用途", Co-inventor: 夏靜吾, 鄭可大, 林俊茂。 Patent period: Jul.1, 2014 -Mar. 10, 2031  
2013-31 **中華民國專利** 發明第 I418634 號, Patent entitled "耐鹼性芽胞桿菌製造可控制組成之木寡糖製造方法", Co-inventor: 李文乾, 曾智彬, 林佑生。 Patent period: Dec.11, 2013 - Jan. 27, 2031  
2012-13 NSC101-2311-B-194-002 from National Science Council (國科會), Project entitled "**Delineate the diverse effects of different Notch receptors in the differentiation of 3T3-L1 preadipocytes**"  
2011-12 NSC100-2221-E-194-065 from National Science Council (國科會), Project entitled "**Screening of high affinity aptamers for efficient detection probe of small biomolecules**"  
2011-12 國立中正大學理學院100年度跨領域特色研究計畫, Project entitled "活體生醫檢測系統以篩選去甲基化藥物" Co-investigators: 謝進見, 蕭淑惠, 呂昱璋  
2010-11 國立中正大學理學院跨領域特色研究計畫, Project entitled "活體生醫檢測系統以篩選去甲基化藥物及發展光動力療法" Co-investigators: 朱延和, 魏台揮, 蕭淑惠, 呂昱璋  
2010-11 NSC 99-2815-C-194-004-B from National Science Council (國科會), 九十九年度大專學生參與專題研究計畫, Project entitled "探討薑黃素、銀杏等中草藥對prion diseases 的影響" student: 游昆樺

- 2009-12 98-EC-17-A-13-S1-116 from Ministry of Economic Affairs (Taiwan), Project entitled “生質酒精關鍵技術研發三年計畫。子計畫F:纖維質之最佳分解酵素組合及輔助酵素基因重組” 總主持人: 李文前
- 2008-09 NSC97-2815-C-194-015-B from National Science Council (國科會),九十七年度大專學生參與專題研究計畫, Project entitled “尋找 Notch3 intracellular domain(ICD) 相關蛋白質和闡述它們的功能” student: 呂學霖
- 2006-09 NSC95-2314-B-194-001-MY3 from National Science Council (國科會), Project entitled “**Subproject 2: Investigation of the signaling of RET-GDNF-GFR $\alpha$ 1 pathway on kidney development**”
- 2006-07 NSC95-2311-B-194-002 from National Science Council (國科會), Project entitled “**Study on the molecular mechanisms of the tumor suppressive effect of constitutively active Notch1 using a 293 HEK fibroblast model**”
- 2006 Referee for international journal “**Bioorganic & Medicinal Chemistry**”
- 2005-06 NSC93-2311-B-194-005 from National Science Council (國科會), Project entitled “**Search for regulatory factors associate with activated Notch complex and study their physiological functions on Notch signaling pathway**”
- 2005 Referee for international journal “**Research in Microbiology**”
- 2004-05 NSC93-2311-B-194-003 from National Science Council (國科會), Project entitled “**Proteomic and genomic studies on Notch signaling pathway (II)**”
- 2004 SKH-TMU-93-44, 九十三學年度「財團法人新光吳火獅紀念醫院暨臺北醫學大學學術合作專題研究計畫」, Project entitled “**Is there a role for Notch signaling in human breast cancer?**”
- 2003-04 NSC92-2311-B-038-004 from National Science Council (國科會), Project entitled “**Proteomic and genomic studies on Notch signaling pathway**”
- 2003-04 NSC92-2815-C-038-B from National Science Council (國科會),九十二年度大專學生參與專題研究計畫, Project entitled “**Cloning of zinc finger protein 264 and characterize its function in hematopoietic cells**” student: 陳昭銘
- 2003-05 Referee for international journal “**Enzyme and Microbial Technology**”
- 2000-20 U.S. patent 6,146,859; Patent entitled “**Facile synthesis of L-homophenylalanine by equilibrium shift enzymatic reaction using tyrosine aminotransferase**”, Co-inventor: 陳水田, 蘇芳雅。 Patent period: Nov.14, 2000 -Nov. 14, 2020
- 2000-03 NSC89-2311-B-038-002 from National Science Council (國科會), Project entitled “**Functional cloning, mutagenesis and characterization of xylanases genes from alkaliphilic *Bacillus firmus***”
- 1999-2000 NSC89-2311-B-038-001 from National Science Council (國科會), Project entitled “**Characterization and molecular cloning of xylanases from alkaliphilic *Bacillus sp. strain K-1***”
- 1998-99 TMC 87-Y05-A128 from Taipei Medical University, Project entitled “**Preparation and practical application of endothelin receptor**”
- 1992-93 Pilot Feasibility Project from the Michigan Gastrointestinal Peptide Research Center, Project entitled “**Molecular characterization of the pancreatic bombesin receptor**”
- 1988 Lee Murphy Award for best-published paper by a graduate student in the Department of Biological Chemistry, University of Michigan.
- 1983-85 Teaching Assistantship, Department of Biological Chemistry, University of Michigan
- 1985-88 Research Assistantship, Department of Biological Chemistry, University of Michigan
- 1986 University Fellowship, Rackham Graduate School, University of Michigan
- 1978-79 Graduate Fellowship, National Taiwan University
- 1977 First Prize for Highest Academic Record, Department of Pharmacy, Kaohsiung Medical College

## BIBLIOGRAPHY

### Publications

- Hsia, C.-W., Ho, M.-Y., Shui, H.-A., Tsai, C.-B.\* & Tseng, M.-J.\* (2015) Analysis of dermal papilla cell interactome using STRING database to profile the *ex Vivo* hair growth inhibition effect of a vinca alkaloid drug, colchicine. *Int. J. Mol. Sci.* 16: 3579-98. (Feb 5, 2015)
- Chiang, P.-J.,\* Tseng, M.-J., He Z.-S., Li, C.-H. (2015) Automated counting of bacterial colonies by image analysis. *J. Microbiol. Methods* 108: 74–82. (Jan 2015)
- Atla, S. B., Wu, M.-N., Pan, W., Hsiao, Y. T., Sun, A.-C., Tseng, M.-J., Chen, Y.-J., & Chen, C.-Y.\* (2014) Characterization of CeO<sub>2</sub> crystals synthesized with different amino acids. *Mater. Charact.* 98: 202-208. (Oct 2014)
- Lai, P.-Y., Hsu, C.-T., Wang, S.-H., Lee, J.-C., Tseng, M.-J., Hwang, J., Ji, W.-T., & Chen, H.-R.\* (2014) Production of a neutralizing antibody against envelope protein of dengue virus type 2 using linear array epitope (LAE) technique. *J. Gen. Virol.* 95: 2155-2165. (Oct 2014)

5. Majumder, D., Maity, J. P., **Tseng, M.-J.**, Nimje, V. R., Chen, H.-R., Chen, C.-C., Chang, Y.-F., Yang, T.-C., & Chen, C.-Y.\* (2014) Electricity Generation and Wastewater Treatment of Oil Refinery in Microbial Fuel Cells Using *Pseudomonas putida*. *Int. J. Mol. Sci.* 15: 16772-16786. (Sep 22, 2014)
6. Tseng, F.-J., Chia, W.-T., Shyu, J.-F., Gou, G.-H., Sytwu, H.-K., Hsia, C.-W., **Tseng, M.-J.**, & Pan, R.-U.\* (2014) Interactomics profiling of the negative regulatory function of carbon monoxide on RANKL-treated RAW 264.7 cells during osteoclastogenesis. *BMC Syst. Biol.* 8:57. (May 18, 2014)
7. Tseng, M.-C.,<sup>#</sup> Lai, P.-Y.,<sup>#</sup> Shi, L., Li, H.-Y., **Tseng, M.-J.**, & Chu, Y.-H.\* (2014) Synthesis of batracylin and its *N*-sulfonamide analogues in [b-3C-im][NTf<sub>2</sub>] ionic liquid. *Tetrahedron* 70: 2629-2633. (<sup>#</sup>contributed equally to this work) (Apr 22, 2014)
8. Tsai, K.-D., Chen, W., Wang, S.-H., Hsiao, Y.-W., Chi, J.-Y., Wu, H.-Y., Lee, Y.-J., Wong, H.-Y., **Tseng, M.-J.**, & Lin, T.-H.\* (2014) Downregulation of connective tissue growth factor by LPS/IFN- $\gamma$ -induced nitric oxide is reversed by aristolochic acid treatment in glomerular mesangial cells via STAT-1 $\alpha$  and NF- $\kappa$ B signaling. *Chem. Biol. Interact.* 210: 86-95. (Mar 5, 2014)
9. Lai, P.-Y., Tsai, C.-B. & **Tseng, M.-J.**\* (2013) Active form Notch4 promotes the proliferation and differentiation of 3T3-L1 preadipocytes. *Biochem. Biophys. Res. Commun.* 430: 1132-1139. (Jan 18, 2013)
10. Tseng, Y.-C.,<sup>#</sup> Tsai, Y.-H.,<sup>#</sup> **Tseng, M.-J.**,<sup>#</sup> Hsu, K.-W., Yang, M.-C., Hsieh, R.-H., Ku, H.-H., & Yeh, T.-S.\* (2012) Notch2-induced COX-2 expression enhancing gastric cancer progression. *Mol. Carcinog.* 51: 939-951. (<sup>#</sup> contributed equally to this work)
11. Tsai, K.-D., Lin, J.-C., Yang, S.-M., **Tseng, M.-J.**, Hsu, J.-D., Lee, Y.-J. & Cherng, J.-M. (2012) Curcumin protects against UVB-induced skin cancers in SKH-1 hairless mouse: analysis of early molecular markers in carcinogenesis. *Evid Based Complement Alternat Med.* 2012: 593952.
12. Hsu, K.-W., Hsieh, R.-H., Wu, C.-W., Li, A. F.-Y., Chi, C.-W., Wang, T.-Y., **Tseng, M.-J.**, Wu, K.-J., & Yeh, T.-S.\* (2012) Activation of the Notch1/STAT3/ Twist signaling axis promotes gastric cancer progression. *Carcinogenesis* 33: 1459-1467.
13. Shi, Y., Liu, Y.-L., Lai, P.-Y., Tseng, M.-C., **Tseng, M.-J.**, Li, Y. & Chu, Y.-H.\* (2012) Ionic liquids promote PCR amplification of DNA. *Chem. Commun.*, 48:5325-5327.
14. Nimje, V. R., Chen, C.-C., Chen, H.-R., Chen, C.-Y.,\* **Tseng, M.-J.**, Cheng, K.-C., Shih, R.-C. & Chang, Y.-F. (2012) A single-chamber microbial fuel cell without an air cathode. *Int. J. Mol. Sci.* 13:3943-3948.
15. Nimje, V. R., Chen, C.-Y.,\* Chen, H.-R.,\* Chen, C.-C., Huang, Y.-M., **Tseng, M.-J.**, Cheng, K.-C., & Chang, Y.-F. (2012) Comparative bioelectricity production from various wastewaters in microbial fuel cells using mixed cultures and a pure strain of *Shewanella oneidensis*. *Bioresour. Technol.* 104:315-323.
16. Chen, H.-R., Chen, C.-C., Reddy, A. S., Chen, C.-Y.,\* Li, W. R., **Tseng, M.-J.**, Liu, H.-T., Pan, W., Maity, J.P. & Atla, S.B. (2011) Removal of mercury by foam fractionation using surfactin, a biosurfactant. *Int. J. Mol. Sci.* 12:8245-8258.
17. Chen, P.-H., Wang, C.-Y., Hsia, C.-W., Ho, M.-Y., Chen, A., **Tseng, M.-J.**, Wu, Y.-F., Chen, H.-M., Huang, T.-H., Liu, H.-T., Shui, H.-A.\* (2011) Impact of taxol on dermal papilla cells-A proteomics and bioinformatics analysis. *J. Proteomics* 74:2760-7373.
18. Lin, Y.-S., **Tseng, M.-J.**, & Lee, W.-C.\* (2011) Production of xylooligosaccharides using immobilized endo-xyylanase of *Bacillus halodurans*. *Process Biochem.* 46:2117-2121.
19. Teng, I.-W., Hou, P.-C., Lee, K.-D., Chu, P.-Y., Yeh, K.-T., Jin, V., **Tseng, M.-J.**, Tsai, S.-J., Chang, Y.-S., Wu, C.-S., Sun, H.-S., Tsai, K.-D., Jeng, L.-B., Nephew, K., Huang, T. H., Hsiao, S.-H.,\* & Leu, Y.-W.\* (2011) Targeted methylation of two tumor suppressor genes is sufficient to transform mesenchymal stem cells into cancer stem/initiating cells. *Can. Res.* 71: 4653-4663.
20. Hsia, C.-W., Shui, H.-A., Wang, C.-Y., Yu, H.-M., Ho, M.-Y., Cheng, K.-T.\* & **Tseng, M.-J.**\* (2011) Proteomics demonstration that histone H4 is a colchicine-induced retro-modulator of growth and alkaline phosphatase activity in hair follicle dermal papilla culture. *J. Proteomics*. May 16; 74:805-816.
21. Hsu, C.-C., Leu, Y.-W., **Tseng, M.-J.**, Lee, K.-D., Kuo, T.-Y., Yen, J.-Y., Lai, Y.-L., Hung, Y.-C., Sun, W.-S., Chen, C.-M., Chu, P.-Y., Yeh, K.-T., Yan, P. S., Chang, Y.-S., Huang, T. H., Hsiao, S.-H.\* (2011) Functional characterization of Trip10 in cancer cell growth and survival. *J. Biomed. Sci.* Feb 7; 18: 12.
22. Tsai, K.-D., Yang, S.-M., Lee, J.-C., Wong, H.-Y., Shih, C.-M., Lin, T.-H., **Tseng, M.-J.** & Chen, W.\* (2011) Panax notoginseng Attenuates Bleomycin-induced Pulmonary Fibrosis in Mice. *Evid Based Complement Alternat Med.* 2011: 404761. Epub 2011 Mar 6.
23. Lin, Y.-S., Shaw, A. Y., Wang, S.-G., Hsu, C.-C., Teng, I.-W., **Tseng, M.-J.**, Huang, T. H.-M., Chen, C.-S., Leu, Y.-W.\* & Hsiao, S.-H.\* (2011) Identification of novel DNA methylation inhibitors via a two-component reporter gene system. *J. Biomed. Sci.* Jan 10; 18: 3.
24. Nimje, V. R., Chen, C.-Y.,\* Chen, C.-C., Chen, H.-R., **Tseng, M.-J.**, Jean, J.-S. & Chang, Y.-F. (2011) Glycerol degradation in single-chamber microbial fuel cells. *Bioresour. Technol.* Feb; 102, 2629-2634.
25. Lin, C.-L., Wang, F.-S., Hsu, Y.-C., Chen, C.-N., **Tseng, M.-J.**, Saleem, M. A., Chang, P.-J.,\* & Wang, J.-Y. (2010) Modulation of Notch-1 signaling alleviates VEGF-mediated diabetic nephropathy. *Diabetes* Aug;59, 1915-1925.

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31. Chang, Y.-P., **Tseng, M.-J.** & Chu, Y.-H.\* (2006) Using surface plasmon resonance to directly measure slow binding of low-molecular mass inhibitors to a VanX chip. *Anal. Biochem.* 359, 63-71.
32. Lin, Y.-F., **Tseng, M.-J.**, Hsu, H.-L., Wu, Y.-W., Lee, Y.H. & Tsai, Y.-H.\* (2006) A novel FSH-induced G $\alpha$ h/PLC- $\delta$ 1 signaling pathway mediating rat Sertoli cell Ca<sup>2+</sup>-influx. *Mol Endocrinol.* 20, 2514-2527.
33. Hsieh, M.-L., **Tseng, M.-J.**, Tseng, M.-C., & Chu, Y.-H.\* (2006) Identification of a new chromophoric substrate in the library of amino acid *p*-nitroanilides for continuous assay of VanX, a D,D-dipeptidase essential for vancomycin resistance. *Anal. Biochem.* 354, 104-110.
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35. Yeh, T.-S.,\* Hsieh, R.-H., Shen, S.-C., Wang, S.-H., **Tseng, M.-J.**, Shih, C.-M. & Lin, J.-J. (2004) Nuclear  $\beta$ -tubulin associates with the activated Notch receptor to modulate Notch signaling. *Cancer Res.* 64, 8334-8340.
36. Chang, P., Tsai, W.-S., Tsai, C.-L. & **Tseng, M.-J.**\* (2004) Cloning and characterization of two thermostable xylanases from an alkaliphilic *Bacillus firmus*. *Biochem. Biophys. Res. Commun.* 319, 1017-1025.
37. Yu, H.-M., **Tseng, M.-J.**, Fang, J.-M., Phutrakul, S. & Chen, S.-T.\* (2004) Capillary electrophoresis using immobilized whole cells with overexpressed endothelin receptor for specific ligand screening. *Electrophoresis*, 25, 1034-1041.
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43. Yu, H.-M., Lin, H.-L., Wu, C.-Y., **Tseng, M.-J.**, Chen, S.-T.,\* Jeyashoke N. & Krisangkura, K. (1999) Enzymatic reaction in supercritical fluid carbon dioxide using dry-ice. *J. Chin. Chem. Soc.*, 46, 647-650.
44. Yu, H.-M., Chen, S.-T., **Tseng, M.-J.**, Chen, S.-T. & Wang, K.-T.\* (1999) Microwave-assisted heterogeneous benzil-benzilic acid rearrangement. *J. Chem. Res. (S)* 62-63.
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46. Nicke, B., **Tseng, M.-J.**, Fenrich, M. & Logsdon, C.D.\* (1999) Adenovirus-mediated gene transfer of Ras<sup>N17</sup> inhibits specific CCK actions on pancreatic acinar cells. *Am. J. Physiol.*, 276, (*Gastrointest. Liver Physiol.* 39) G499-506.
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58. Wu, S.-H., Chen, C.-J., **Tseng, M.-J.** & Wang, K.-T.\* (1983) The modification of bungarotoxin by digestion with trypsin. *Arch. Biochem. Biophys.* 227, 111-117.
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### Presentations

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#### Technique Reports (技術報告)

1. 曾智彬、曾銘仁 (2010) 快速功能性篩選分泌木聚糖分解酶和蛋白質分解酶的微生物。經濟部九十九年度在地型產業加值學界科專計畫，生質酒精關鍵技術研發三年計畫技術報告。
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#### Sequence Data on GenBank

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