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**Education :**

B.Sc. (Pharmacology), Taipei Medical College, Taipei, Taiwan 1986

Ph.D. (Biotechnology), Faculty of Science, Chiang Mai University, Chiang Mai, Thailand 2004

**Experiential work**

Associate Engineer, Institute of Biological Chemistry, Academia Sinica, 1986–2005

Peptides Synthesis Supporting Team Manager, Institute of Biological Chemistry, Academia Sinica, 2001–2005

Assistant Research Specialist, Genomics Research Center, Academia Sinica, 2006-present

**Published papers :**

1. **Yu, H.M.**, Chen, S.T., Chen, S.W., Ko, J.L. and Wang, K.T. (1987) The synthesis of dermorphin derivatives. *J. Chinses Biochem. Soc.* 16, 61-69.
2. **Yu, H.M.**, Chen, S.T., Chior, S.H. and Wang, K.T. (1988) Determination of amino acids on merrifield resin by microwave hydrolysis. *J. Chromatog.* 456, 357-362.
3. Wu, C.Y., Chen, W.C., **Yu, H.M.**, Chen, S.T. and Wang, K.T. (1992) Side reaction in peptide synthesis: failure coupling in solid phase automatic synthesis

- of a fragment (sequence 65-74) of acyl carrier protein. *J. Chinese Chem. Soc.* 39, 195-198.
4. **Yu, H.M.**, Chen, S.T. and Wang, K.T. (1992) Enhanced coupling efficiency in solid-phase peptide by microwave irradiation. *J. Org. Chem.* 57, 4780-4784.
  5. **Yu, H.M.**, Wu, T.M., Chen, S.T., Ho, C.L., Her, G.R. and Wang, K.T. (1993) Mastoparan-B, synthesis and its physical and biological properties. *Biochem. & Molecular Biolog. Intermal.* 29(2), 241-246.
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  7. Ho, C.L., Hwang, L.L., Lin, Y.L., Chen, S.T., **Yu, H.M.** and Wang, K.T. (1994) Cardiovascular effects of mastoparan-B and its structural requirements. *Eur. J. Pharmacol.* 259, 259-264.
  8. Jayaraman, G., Bhaskaran, R., Kumar, T.K.S., **Yu, H.M.**, Chen, S.T. and Yu, C. (1995) Conformational studies of a synthetic cyclic decapeptide fragment of rat transforming growth factor- $\alpha$ . *Int. J. Peptide Protein Res.* 46, 88-96.
  9. Ho, C.L., Lin, Y.L., Chen, W.C., **Yu, H.M.**, Wang, K.T., Hwang, L.L. and Chen, S.T. (1995) Immunogenicity of mastoparan-B, a cationic tetradecapeptide isolated from the hornet (*Vespa basalis*) venom, and its structural requirements. *Toxicon*, 33, 1443-1451.
  10. Chuang, C.C., Huang, W.C., **Yu, H.M.**, Wang, K.T. and Wu, S.H. (1996) Conformation of vespa basalis mastoparan-B in trifluoroethanol-containing aqueous solution. *Biochimica. Biophys. Acta* 1292, 1-8.
  11. Chuang, L.C., **Yu, H.M.**, Chen, C., Huang, T.H., Wu, S.H. and Wang, K.T. (1996) Determination of three-dimensional solution structure of waglerin I, a toxin from *Trimeresurus wagleri*, using 2D-NMR and molecular dynamics simulation. *Biochim. Biophys. Acta* 1292, 145-155.
  12. Ho, C.L., Lin, Y.L., Chen, W.C., Hwang, L.L., **Yu, H.M.** and Wang K.T. (1996) Structural requirements for the edema-inducing and hemolytic activities of mastoparan B isolated from the hornet (*Vespa Basalis*) Venom. *Toxicon*, 34, 1027-1035.

13. Hsiao, Y.M., Chuang, C.C., Chuang, L.C., **Yu, H.M.**, Wang, K.T., Chior, S.H. and Wu, S.H. (1996) Protein engineering of vemon toxins by synthetic approach and NMR dynamic simulation: status of basic amino acid residues in waglerin I. *Biochem. Biophys. Res. Comm.* 227, 59-63.
14. **Yu, H.M.**, Chen, S.T., Phutrakul, S., Rakariyatham, N. and Wang, K.T. (1996) The effect of microwave irradiation on acid-catalyzed hydrolysis of starch. *J. Org.Chem.* 61, 9608-9610.
15. Chen, S.T., Tseng, P.H., **Yu, H.M.**, Wu, C.Y., Hsiao, K.F., Wu, S.H. and Wang, K.T. (1997) The studies of microwave effects on the chemical reactions. *J. Chin. Chem. Soc.* 44, 169-182.
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18. Chen, S.T., **Yu, H.M.**, and Wang, K.T. (1999) Microwave-assisted solid reaction: Reduction of ketones using sodium borohydride. *J. Chin. Chem. Soc.* 46, 509-511.
19. **Yu, H.M.**, Lin, H.L., Wu, C.Y., Tseng, M.J. and Chen, S.T. (1999) Enzymatic reaction in supercritical fluid carbon dioxide using dry-ice. *J. Chin. Chem. Soc.* 46, 647-650.
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22. Wang, I., Wu, S.H., Chang, H.K., Shieh, R.C., **Yu, H.M.** and Chen, C. (2002) Solution Structure of a K-Channel Blocker from the Scorpion *Tityus cambridgei*. *Protein Sci.* 11(2), 389-400.

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24. **Yu, H.M.**, Tseng, M.J., Fang, J.M., Phutrakul, S. and Chen, S.T. (2004) Capillary electrophoresis using immobilized whole cells with overexpressed endothelin receptor for specific ligand screening. *Electrophoresis* 25, 1034-1041.
25. Hsu, C.H., Ko, T.P., **Yu, H.M.**, Tang, T.K., Chen, S.T. and Wang, A.H.J. (2004) Immunological, structural, and preliminary X-ray diffraction characterizations of the fusion core of the SARS-coronavirus spike protein. *Biochem Biophys Res Commun.*, 324(2), 761-767.
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27. Cheng, M.F., **Yu, H.M.**, Ko, B.W., Chang, Y., Ho, T.I., Tsai., Y.M. and Fang J.M.(2006) Practical synthesis of potential endothelin receptor antagonists of 1,4-Benzodiazepine-2,5-dione derivatives bearing substituent at the C3-, N1-, and N4-positions. *Organic & Biomolecular Chemistry*. 4, 510-518.
28. Shengjiang Tu, Esther M. M. Bulloch, Yang Lanhao, Chen Ren, Hsu, P.H., Huang, W.C., Lo, W.S., Chen, C.H., Liao, C.L., **Yu, H.M.**, Michael A. Freitas, Tsai, M.D., (2007) Identification of Histone Demethylases in *Saccharomyces cerevisiae*. *J. Biol Chem.* 11; 282(19):14262-71. Epub
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32. Chang, H. J., Hsu, H. J., Chang, C. F., Peng, H. P., Sun, Y. K., **Yu, H. M.**, Shih, H. C., Song, C. Y., Lin, Y. T., Chen, C. C., Wang, C. H., Yang, A.S., (2009) Molecular evolution of cystine-stabilized miniproteins as stable proteinaceous binders. *Structure*, 17, 620-31.
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35. Sorkin, L. S., Otto, M., Baldwin, W. M., Vail, E., Gillies, S. D., Handgretinger, R., Barfield, R. C., **Yu, H. M.**, Yu, A. L., (2010) Anti-GD2 with an FC point

mutation reduces complement fixation and decreases antibody induced allodynia.

*PAIN*, (accepted)

36. Ni, C. L., Shi, H. P., Lin, K. G., **Yu, H. M.**, Chen, Y. R. Conformational Stability of Amyloid- $\beta$  Monomer Predominantly Determines the Nucleation Phase in

Fibrillization, (submitted)

37. Hsia, C. W., **Yu, H. M.**, Cheng, K. T., Tseng, M. J. Histone H4 is Revealed as a Colchicine-Induced Modulator in Hair Follicle Dermal Papilla Cell Growth. (2010)

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38. Hsia, C. W., **Yu, H. M.**, Cheng, K. T., Tseng, M. J. Proteomic and Secretomic Profiling Reveals The Effect of A *Vinca* Alkaloid Drug, Colchicine, on Rat Hair

Follicle Dermal Papilla Cells. (2010) *BBRC*, (submitted)

#### **Conference papers :**

1. Wang, K.T., **Yu, H.M.**, Chen, S.T. and Ho, C.L. (1994) Isolation of a hypoglycaemic factor from wheat green. First APSB International Symposium and Workshop, Singapore, Aug. 15-18.
2. **Yu, H.M.**, Chen, S.T., Ho, C.L. and Wang, K.T. (1995) Isolation of a hypoglycaemic factor from wheat green. Czech-Taiwan Symposium on Biotechnology, Prague, June 5-8.
3. **Yu, H.M.**, Hsiao, K.F., Chen, S.T. and Wang, K.T. (1996) Rate-enhanced of enzyme-catalysis by microwave irradiation. International Symposium Organic Reactions-Sendai, Sendai, Japan, April 6-9.

4. **Yu, H.M.**, Chen, S.T., Phutrakul, S., Rakariyatham, N. and Wang, K. T. (1996) Effects of microwave irradiation on the acid-catalyzed hydrolysis of starch. International Conference in Glycobiology, Taipei, Taiwan, November 15-16.
5. **Yu, H.M.**, Tseng, P.H., Wu, C.Y., Hsiao, K.F., Wu, S.H., Chen, S.T. and Wang, K.T. (1998) Microwave enhanced chemical reactions. International Conference on Microwave Chemistry, Prague, Czech Republic, September 6-11.

**Patents :**

1. “核醫藥物3-酪氨酸奧克許生肽新穎製造方法”  
張湘戎、李德偉、蘇昌信、陳水田、余惠敏、王光燦 (1999)  
發明第110091號
2. "Composition and Methods for Treating inflammation and inflammation-related disorders by *plextranthus ambonicus* extracts"  
Wong, Chi-Huey, Cheng, Yih-Shyun E., **Yu, Hui-Ming**, Cheng , Ting-Jen R.,  
Wu, Chung-Yi, Fang, Jim-Min (2008)-US patent  
Docket No.073950.010503, Customer No. 33717

**Provisional Patents :**

1. "Composition and Methods for Treating cancer by Fermented SoybeanExtract"  
**Hui-Ming Yu** and Chi-Huey Wong (2007)  
Matter number 010300, Application number 60973161
2. "Composition and methods for treating cancer derived from native Taiwanese Actinomycetes"

**Hui-Ming Yu** and Chi-Huey Wong (2007)

Matter number 010700, Application number 60973168

3. "Composition and methods for treating liver cancer by *Plectranthus amboinicus* extract":

**Hui-Ming Yu** and Chi-Huey Wong (2007)

Matter number 010400, Application number 60973162

4. "Composition and methods for treating inflammation and inflammation-related disorders by *Plectranthus amboinicus* extract":

Chi-Huey Wong, Yih-Shyun E. Cheng, **Hui-Ming Yu**, and Ting-Jen R. Cheng  
(2007)

Matter number 010500, Application number 60973164