五年內學術論文及著作

(A) 期刊論文

01. Huang G.-J., Sheu M.-J., **Chen, H.-J.**, Chang Y.-S., Lin, Y.-H. **2007.** Growth inhibition and induction of apoptosis in NB4 promyelocytic leukemia cells by trypsin inhibitor from sweet potato storage roots. ***Journal of Agricultural and Food Chemistry*** **55: 2548-2553. (03/2007; SCI)** (IF: 2.823, Agriculture multidisciplinary, 3/57 = 5.26%)

02. Huang, G.-J., **Chen, H.-J.**, Chang, Y.-S., Shue, M.-J., Lin, Y.-H. **2007**. Recombinant sporamin and its synthesized peptides with antioxidant activities *in vitro*. ***Botanical Studies*** **48 (2): 133-140. (04/2007; SCI)** (IF: 1.103, Plant Sciences, 108/190 = 56.84%)

03. Huang, G.-J., Sheu, M.-J., **Chen, H.-J.**, Chang, Y.-S., Lin, Y.-H. **2007.** Inhibition of reactive nitrogen species in vitro and ex vivo by trypsin inhibitor from sweet potato 'Tainong 57' storage roots. ***Journal of Agricultural and Food Chemistry*** **55: 6000-6006**. (**07/2007; SCI**) (IF: 2.823, Agriculture multidisciplinary, 3/57 = 5.26%)

04. Huang, G.-J., **Chen, H.-J.**, Chang, Y.-S., Lu, T.-L., Lin, Y.-H. **2008.** Sweet potato storage root thioredoxin *h2* with both dehydroascorbate reductase and monodehydroascorbate reductase activities. ***Botanical Studies*** **49: 1-7.** (**01/2008; SCI**) (IF: 1.103, Plant Sciences, 108/190 = 56.84%)

05. Huang, G.-J., Ho, Y.-L., **Chen, H.-J.**, Chang, Y.-S., Huang, S.-S., Hung, H.-J., Lin, Y.-H. **2008.** Sweet potato storage root trypsin inhibitor and their peptic hydrolysates exhibited angiotensin converting enzyme inhibitory activity in vitro. ***Botanical Studies*** **49: 101-108. (04/2008; SCI)** (IF: 1.103, Plant Sciences, 108/190 = 56.84%)

06. **Chen, H.-J.**, Wen, I-C., Huang, G.-J., Hou, W.-C., Lin, Y.-H. **2008.** Expression of sweet potato asparaginyl endopeptidase caused altered phenotypic characteristics in transgenic *Arabidopsis*. ***Botanical Studies*** **49: 109-117.** (**04/2008; SCI**) (IF: 1.103, Plant Sciences, 108/190 = 56.84%)

07. Huang, G.–J., Chang, H.–Y., **Chen, H.–J.**, Lu, T.–L., Chang, Y.-S., Sheu, M.-J., Lin, Y.–H. **2008**. Effects of Trypsin inhibitor on Plasma Antioxidant Activity and Lipid levels in mice from sweet potato roots. ***Journal of the Science of Food and Agriculture*** **88: 2556–2562. (09/2008; SCI**) (IF: 1.36, Agriculture multidisciplinary, 10/57 = 17.54%)

08. Huang, G.-J., Huang, S.-S., **Chen, H.-J.**, Chang, Y.-S., Chang, S. J., Chnag, H.-Y., Hsien, P.-C., Chang, M.-J., Lin, Y.-C., Lin, Y.-H. **2009.** Cloning and expression of aspartic proteinase cDNA from sweet potato storage roots. ***Botanical Studies*** **50: 149-158.**

(04/2009; SCI) (IF: 1.103, Plant Sciences, 108/190 = 56.84%)

09. **Chen, H.-J.**, Huang, G.-J., Chen, W.-S., Su, C.-T., Hou, W.-C., Lin, Y.-H. **2009.** Molecular cloning and expression of a sweet potato cysteine protease SPCP1 from senescent leaves. ***Botanical Studies*** **50: 159-170.** (**04/2009; SCI**) (IF: 1.103, Plant Sciences, 108/190 = 56.84%)

10. Huang, S.-S., Hung H.-J., Chiu C.-S., **Chen, H.-J.**, Lin, S.-S., Lin, Y.-C., Chang, H.-Y., Huang, G.-J., Lin, Y.-H. **2009**. Sweet potato trypsin inhibitor with thioltransferase-like and glutathione S-transferase-like activities. ***Botanical Studies*** **50: 443-450. (10/2009; SCI)** (IF: 1.103, Plant Sciences, 108/190 = 56.84%)

11. **Chen, H.-J.**, Tsai, Y.-J., Chen, W.-S., Huang, G.-J., Huang S.-S., Lin, Y.-H. **2010**. Ethephon-mediated effects on leaf senescence are affected by reduced glutathione and EGTA in sweet potato detached leaves. ***Botanical Studies*** **51: 171-181. (04/2010; SCI**) (IF: 1.103, Plant Sciences, 108/190 = 56.84%)

12. **Chen, H.-J.**, Su, C.-T, Lin, C.-H., Huang G.-J., Lin, Y.-H. **2010.** Expression of sweet potato cysteine protease SPCP2 altered developmental characteristics and stress responses in transgenic *Arabidopsis* plants. ***Journal of Plant Physiology*** **167: 838-847.** (**07/2010; SCI**) (IF: 2.791, Plant Sciences, 43/190 = 22.63%)

13. Huang, G.-J., **Chen, H.-J.**, Susumu, K., Wu, J.-B., Hou, W.-C., Wu, C-H, Shen, M.-J., Huang, S.-S., Lin, Y.-H. **2011.** Sweet potato storage root thioredoxin *h2* and their peptic hydrolysates exhibited angiotensin converting enzyme inhibitory activity in *vitro*. ***Botanical Studies*** **52: 15-22.** (**Equal contribution** of Huang, G.-J. and **Chen, H.-J.**) (**01/2011; SCI**) (IF: 1.103, Plant Sciences, 108/190 = 56.84%)

14. Huang, S.-S., Chiu, C.-S., **Chen, H.-J.**, Hou, W.-C., Sheu, M.-J., Lin, Y.-C., Shie, P.-H., Huang, G.-J. **2011**. Antinociceptive activities and the mechanisms of anti-inflammation of asiatic acid in mice. ***Evidence-Based Complementary and Alternative Medicine*** **2011**, **Article ID 895857, 10 pages.** (**Equal contribution** of Chiu, C.-S. and **Chen, H.-J.**) (**05/2011; SCI**) (IF: 4.774, Integrative & Complementary Medicine, 1/22 = 4.55%)

15. Huang, G.-J., Lu, T.-L., Chiu, C.-S., **Chen, H.-J.**, Wu, C.-H., Lin, Y.-C., Hsieh, W.-T., Liao, J.-C., Sheu, M.-J., Lin, Y.-H. **2011**. Sweet potato storage root defensin and their tryptic hydrolysates exhibited angiotensin converting enzyme inhibitory activity *in vitro*. ***Botanical Studies*** **52: 257-264.** (**07/2011; SCI**) (IF: 1.103, Plant Sciences, 108/190 = 56.84%)

16. **Chen, H.-J.**, Afiyanti, M., Huang, G.-J., Huang, S.-S., Lin, Y.-H. **2011**. Characterization of a leaf-type catalase in sweet potato (*Ipomoea batatas* Lam. (L.)). ***Botanical Studies*** **52: 417-426.** (**10/2011; SCI**) (IF: 1.103, Plant Sciences, 108/190 = 56.84%)

17. **Chen, H.-J.,** Wu, S.-D., Huang, G.-J., Shen, C.-Y., Afiyanti, M., Li, W.-J., Lin, Y.-H. **2012**.

Expression of a cloned sweet potato catalase *SPCAT1* alleviates ethephon-mediated leaf senescence and H_2O_2 elevation. ***Journal of Plant Physiology*** **169: 86-97.** (**01/2012; SCI**) (IF: 2.791, Plant Sciences, 43/190 = 22.63%)

18. Huang, G.-J., Deng J.-S., **Chen, H.-J.**, Huang, S.-S., Wu, C.-H, Liao, J.-C., Chang, S.-J., Lin, Y.-H. **2012**. Inhibition of reactive nitrogen species *in vitro* and *ex vivo* by thioredoxin *h*2 from sweet potato 'Tainong 57' storage roots. ***Food Chemistry*** **131: 552-557.** (**03/2012; SCI**) (IF: 3.655, Chemistry applied, 3/71 = 4.23%)

19. **Chen, H.-J.**, Wu, S.-D.**,** Lin, Z.-W., Huang, G.-J., Lin, Y.-H. **2012**. Cloning and characterization of a sweet potato calmodulin *SPCAM* that participates in ethephon-mediated leaf senescence, H_2O_2 elevation and senescence-associated gene expression. ***Journal of Plant Physiology*** **169: 529-541.** (**03/2012; SCI**) (IF: 2.791, Plant Sciences, 43/190 = 22.63%)

20. Huang, G.-J., Lin, Y.-C., Deng, J.-S., **Chen, H.-J.**, Liao, J.-C., Huang, S.-S., Lin, Y.-H. **2012**. A novel trypsin inhibitor from sweet potato (*Ipomoea batatas Lam.*) leaves and its synthesized peptides with antioxidant activities *in vitro*. ***Botanical Studies*** **53: 215-222.** (**04/2012; SCI**) (IF: 1.103, Plant Sciences, 108/190 = 56.84%)

21. Liao, J.-C., Chih, C.-S., **Chen, H.-J.**, Huang, S.-S., Hou, W.-C., Lin, W.-C., Lin, Y.-H., Huang, G.-J. **2012**. Characterization of a novel Cyclophilin-type peptidylprolyl isomerase protein from sweet potato storage roots. ***Botanical Studies*** **53: 315-323** (**07/2012; SCI**) (IF: 1.103, Plant Sciences, 108/190 = 56.84%)

22. **Chen, H.-J.**, Tsai, Y.-J., Shen, C.-Y., Tsai, T.-N., Huang, G.-J., Lin, Y.-H. 2012. Ectopic expression of sweet potato granulin-containing cysteine protease *SPCP3* alters phenotypic traits and drought stress sensitivity in transgenic *Arabidopsis* plants. ***Journal of Plant Growth Regulation*** **DOI: 10.1007/s00344-012-9281-9 (accepted 04/24/2012; SCI)** (IF: 2.859, Plant Sciences, 36/190 = 18.95%)

23. Huang, G.-J., Deng J.-S., **Chen, H.-J.**, Huang, S.-S., Liao, J.-C., Wu, C.-H, Lin, Y.-H. **2012**. Defensin Protein from sweet potato (*Ipomoea batatas* [L.] Lam. 'Tainong 57') storage roots exhibits antioxidant activities *in vitro* and *ex vivo*. ***Food Chemistry*** **135: 861-867. (12/2012; SCI)** (IF: 3.655, Chemistry applied, 3/71 = 4.23%)

24. **Chen, H.-J.**, Lin, Z.-W., Huang, G.-J., Lin, Y.-H. 2012. Sweet potato calmodulin *SPCAM* is involved in salt stress-mediated leaf senescence, H_2O_2 elevation and senescence-associated gene expression. ***Journal of Plant Physiology*** (**accepted 08/04/2012; SCI**) (IF: 2.791, Plant Sciences, 43/190 = 22.63%)

(B) 專書/專章 (Book/Book Chapter)

01. **Chen, H.-J.**, Huang, G.-J., Lin, C.-H., Tsai, Y.-J., Lin, Z.-W., Liang, S.-H., Lin, Y.-H. **2012**. Expression of sweet potato senescence-associated cysteine proteases affect seed and silique development and stress tolerance in transgenic *Arabidopsis*. In "**Transgenic Plants - Advances and Limitations**" **Chapter 12**, **Page 237-256, InTech, Croatia** (**02/2012, ISBN 978-953-51-0181-9**).