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研究專長：分離技術、有機光譜學

研究室：天然藥物研究室

研究室成員：博士班研究生 0 人  
碩士班研究生 4 人  
專任研究助理 1 人  
博士後研究員 0 人



### 最近研究之主題：

1. 延長壽命藥物之研發
2. 中草藥標準品之製備

### 論文著作 (2011-迄今)：

\*, corresponding author

1. Li-Shian Shi, Chih-Hua Chao, De-Yang Shen, Hsiu-Hui Chan, Chou-Hsiung Chen, Yu-Ren Liao, Shwu-Jen Wu, **Yann-Lii Leu**, Yuh-Chiang Shen, Yao-Haur Kuo, E-Jian Lee, Keduo Qian, Tian-Shung Wu\*, Kuo-Hsiung Lee. Biologically active constituents from the fruiting body of *Taiwanofungus camphoratus*. *Bioorganic & Medicinal Chemistry*, 2011, **19**, 677-683. (SCI) (I.F.: 2.923; R/C=18/59 in CHEMISTRY, ORGANIC)
2. Jyh-Ping Chen, **Yann-Lii Leu**, Chia-Lang Fang, Chao-Huang Chen, Jia-You Fang. Thermosensitive Hydrogels Composed of Hyaluronic Acid and Gelatin as Carriers for the Intravesical Administration of Cisplatin. *Journal of Pharmaceutical Sciences*, 2011, **100**, 655-666. (SCI) (I.F.: 2.641; R/C=59/163 in CHEMISTRY, MULTIDISCIPLINARY)

3. Yu-Ming Chung, Yu-Hsuan Lan, Tsong-Long Hwang and **Yann-Lii Leu** \*. Anti- Inflammatory and Antioxidant Components from *Hygroryza aristata*. *Molecules*, 2011, **16**, 1917-1927. (SCI) (***I.F.:* 2.465; *R/C=24/59* in CHEMISTRY, ORGANIC**)
4. Mu-Yi Hua, Hsiao-Chien Chen, Rung-Ywan Tsai, **Yann-Lii Leu**, Yin-Chih Liua and Jinn-Tsyy Lai. Synthesis and characterization of carboxylated polybenzimidazole and its use as a highly sensitive and selective enzyme-free H<sub>2</sub>O<sub>2</sub> sensor. *Journal of Materials Chemistry A*, 2011, **21**, 7254–7262. (SCI) (***I.F.:* 8.262; *R/C=4/88* in ENERGY & FUELS**)
5. **Yann-Lii Leu**, Chih-Lung Lin, Ping-Chung Kuo. Constituents from *Senecio scandens* and their antioxidant bioactivity. *Archives of Pharmacal Research*, 2011, **34**, 377-382. (SCI) (***I.F.:* 2.490; *R/C=113/255* in PHARMACOLOGY & PHARMACY**)
6. Jiann-Jong Shen, Ming-Shan Chiang, Ming-Ling Kuo, **Yann-Lii Leu**, Tsong-Long Hwang, Chian-Jiun Liou, Wen-Chung Huang. Partially purified extract and viscolin from *Viscum coloratum* attenuate airway inflammation and eosinophil infiltration in ovalbumin-sensitized mice. *Journal of Ethnopharmacology*, 2011, 135, 646-653. (SCI) (***I.F.:* 3.055; *R/C=2/24* in INTEGRATIVE & COMPLEMENTARY MEDICINE**)
7. Ping-Chung Kuo, Tsong-Long Hwang, Ying-Ting Lin, Yuh-Chi Kuo, **Yann-Lii Leu** \*. Chemical constituents from *Lobelia chinensis* and their anti-virus and anti-inflammatory bioactivities. *Archives of Pharmacal Research*, 2011, **34**, 715-722. (SCI) (***I.F.:* 2.490; *R/C=113/255* in PHARMACOLOGY & PHARMACY**)
8. M. Vijaya Bhaskar Reddy, Tsong-Long Hwang, **Yann-Lii Leu**, Wen-Fei Chiou, Tian-Shung Wu. Inhibitory effects of Mannich bases of heterocyclic chalcones on NO production by activated RAW 264.7 macrophages and superoxide anion generation and elastase release by activated human neutrophils. *Bioorganic & Medicinal Chemistry*, 2011, 19, 2751-2756. (SCI) (***I.F.:* 2.923; *R/C=18/59* in CHEMISTRY, ORGANIC**)
9. Chih-Chieh Chen, Chia-Lang Fang, Saleh A. Al-Suwayeh, **Yann-Lii Leu**, Jia-You Fang. Transdermal delivery of selegiline from alginate – Pluronic composite thermogels. *International Journal of Pharmaceutics*, 2011, **415**, 119-128. (SCI) (***I.F.:* 3.994; *R/C=44/255* in PHARMACOLOGY & PHARMACY**)
10. Yu-Ming Chung, Hui-Chun Wang, Mohamed El-Shazly, **Yann-Lii Leu**, Ming-Ching Cheng, Chia-Lin Lee, Fang-Rong Chang, and Yang-Chang Wu. Antioxidant and tyrosinase inhibitory constituents from a desugared sugar cane extract, a byproduct of sugar production. *Journal of Agricultural and Food Chemistry*, 2011, **59**, 9219-9225. (SCI) (***I.F.:* 2.857; *R/C=3/57* in AGRICULTURE, MULTIDISCIPLINARY**)
11. **Yann-Lii Leu**, Po-Hsiang Wang, Ming-Shi Shiao, Wael Ismail, Yin-Ru Chiang\*. A novel testosterone catabolic pathway in bacteria. *Journal of Bacteriology*, 2011, **193**, 4447–4455. (SCI) (***I.F.:* 3.198; *R/C=44/123* in MICROBIOLOGY**)
12. Chan-Jung Liang, Shu-Huei Wang, Yung-Hsiang Chen, Shih-Sheng Chang, Tong-Long Hwang,

- Yann-Lii Leu**, Ying-Chih Tseng, Chi-Yuan Li, Yuh-Lien Chen. Viscolin reduces VCAM-1 expression in TNF- $\alpha$ -treated endothelial cells via the JNK/NF- $\kappa$ B and ROS pathway. *Free Radical Biology and Medicine*, 2011, **51**, 1337-1346. (SCI) (***I.F.*: 5.784; R/C=14/133 in ENDOCRINOLOGY & METABOLISM**)
13. Yu-Hsuan Lan, **Yann-Lii Leu**, Yi-Ting Peng, Tran-Dinh Thang, Chia-Chen Lin, Bo-Ying Bao. **The first bis-retrochalcone from *Fissistigma latifolium***. *Planta Medica*, 2011, **77**, 2019-2022. (SCI) (***I.F.*: 1.990; R/C=70/207 in PLANT SCIENCES**)
14. Yin-Ku Lin, Lai-Chu See, Ya-Ching Chang, Yu-Huei Huang, Jiun-Liang Chen, Teng-Cheng Tsou, **Yann-Lii Leu**, Yu-Ming Shen. Treatment of psoriatic nails with *Indigo naturalis* oils extract : a non-controlled pilot study. *Dermatology*, 2011, **223**, 239-243. (SCI) (***I.F.*: 1.449; R/C=35/61 in DERMATOLOGY**)
15. Rong-Jia Su, Hong-Wei Yang, **Yann-Lii Leu**, Mu-Yi Hua, Ren-Shen Lee. Synthesis and characterization of amphiphilic functional polyesters by ring-opening polymerization and click reaction. *Reactive & Functional Polymers*, 2012, **72**, 36-44. (SCI) (***I.F.*: 2.725; R/C=29/135 in ENGINEERING, CHEMICAL**)
16. Tai-Long Pan, Pei-Wen Wang, **Yann-Lii Leu**, Tung-Ho Wu, Tian-Shung Wu. Inhibitory effects of *Scutellaria baicalensis* extract on hepatic stellate cells through inducing G2/M cell cycle arrest and activating ERK-dependent apoptosis via Bax and caspase pathway. *Journal of Ethnopharmacology*, 2012, **139**, 823-837. (SCI) (***I.F.*: 3.055; R/C=2/24 in INTEGRATIVE & COMPLEMENTARY MEDICINE**)
17. Yin-Ku Lin, Chen HW, Yang SH, **Yann-Lii Leu**, Huang YH, Yen HC\*. Protective effect of indigo naturalis extract against oxidative stress in cultured human keratinocytes. *Journal of Ethnopharmacology*, 2012, **139**, 893-896. (SCI) (***I.F.*: 3.055; R/C=2/24 in INTEGRATIVE & COMPLEMENTARY MEDICINE**)
18. Guan-Jhong Huang<sup>1</sup>, M. Vijaya Bhaskar Reddy<sup>1</sup>, Ping-Chung Kuo, Chieh-Hung Huang, Hung-Cheng Shih, E-Jian Lee, Mei-Lin Yang, **Yann-Lii Leu**<sup>1</sup>, Tian-Shung Wu\*. A concise synthesis of viscolin, and its anti-inflammatory effects through the suppression of iNOS, COX-2, ERK phosphorylation and proinflammatory cytokines expressions. *European Journal of Medicinal Chemistry*, 2012, **48**, 371-378. (SCI) (***I.F.*: 3.902; R/C=6/59 in CHEMISTRY, MEDICINAL**)
19. Yu-Hsuan Lan, Yi-Ting Peng, Tran-Dinh Thang, Tsong-Long Hwang, Do-Ngoc Dai, **Yann-Lii Leu**, Wan-Chun Lai, and Yang-Chang Wu. New Flavan and Benzil Isolated from *Fissistigma latifolium*. *Chemical & Pharmaceutical Bulletin*, 2012, **60**, 280 -282. (SCI) (***I.F.*: 1.228; R/C=102/163 in CHEMISTRY, MULTIDISCIPLINARY**)
20. Yin-Ku Lin, Lai-Chu See, Yu-Huei Huang, Ya-Ching Chang, Teng-Cheng Tsou, **Yann-Lii Leu**, Yu-Ming Shen. Comparison of Refined and Crude Indigo Naturalis Ointment in Treating Psoriasis: Randomized, Observer-Blind, Controlled, Inpatient Trial. *JAMA Dermatology*, 2012, **148**, 397-400. (SCI) (***I.F.*: 5.097; R/C=4/61 in DERMATOLOGY**)
21. Chia-Wen Chang<sup>†</sup>, **Yann-Lii Leu**<sup>†</sup> and Jim-Tong Horng. *Daphne Genkwa* Sieb. et Zucc.

- Water-Soluble Extracts Act on Enterovirus 71 by Inhibiting Viral Entry. *Viruses-BASEL*, 2012, **4**, 539-556. (SCI) (*I.F.*: 3.042; *R/C*=14/33 in VIROLOGY)
22. Ping-Chung Kuo, Yi-Hsien Chen, Yann-Lii Leu, Chieh-Hung Huang, Yu-Ren Liao, E-Jian Lee, Mei-Lin Yang and Tian-Shung Wu. An Efficient Synthesis of a Potent Anti-inflammatory Agent, Viscolin, and Its Inducible Nitric Oxide Synthesis Inhibitory Activity. *Chemical & Pharmaceutical Bulletin*, 2012, **60**, 557-561. (SCI) (*I.F.*: 1.228; *R/C*=102/163 in CHEMISTRY, MULTIDISCIPLINARY)
23. Chwan-Fwu Lin, Yann-Lii Leu, Saleh A. Al-Suwayeh, Ming-Chuan Ku, Tsong-Long Hwang, Jia-You Fang. Anti-inflammatory activity and percutaneous absorption of quercetin3 and its polymethoxylated compound and glycosides: The relationships to chemical structures. *European Journal of Pharmaceutical Sciences*, 2012, **47**, 857-864. (SCI) (*I.F.*: 3.773; *R/C*=53/255 in PHARMACOLOGY & PHARMACY)
24. Szu-Ying Wu, Yann-Lii Leu, Ya-Ling Chang, Tian-Shung Wu, Ping-Chung Kuo, Yu-Ren Liao, Che-Ming Teng, Shioh-Lin Pan. Physalin F induces cell apoptosis in human renal carcinoma cells by targeting NF-kappaB and generating reactive oxygen species. *PLoS ONE*, 2012, **7**, e40727. (SCI) (*I.F.*: 3.057; *R/C*=11/63 in MULTIDISCIPLINARY SCIENCES)
- 25 Yu-Ren Liao, Yann-Lii Leu, Yu-Yi Chan, Ping-Chung Kuo, Tian-Shung Wu. Anti-Platelet Aggregation and Vasorelaxing Effects of the Constituents of the Rhizomes of *Zingiber officinale*. *Molecules*, 2012, **17**, 8928-8937. (SCI) (*I.F.*: 2.465; *R/C*=24/59 in CHEMISTRY, ORGANIC)
26. Yann-Lii Leu, Tsong-Long Hwang, Ping-Chung Kuo\*, Kun-Pei Liou, Bow-Shin Huang, Guo-Feng Chen. Constituents from *Vigna vexillata* and their anti-inflammatory activity. *International Journal of Molecular Sciences*, 2012, **13**, 9754-9768. (SCI) (*I.F.*: 3.257; *R/C*=49/163 in CHEMISTRY, MULTIDISCIPLINARY)
27. Yi-Jen Hsieh, Ming-Yeh Yang, Yann-Lii Leu, Chin-Piao Chen, Chin-Feng Wan, Meng-Ya Chang, Chih-Jui Chan. *Kalanchoe tubiflora* extract inhibits cell proliferation by affecting the mitotic apparatus. *BMC Complementary and Alternative Medicine*, 2012, **12**, 149. (SCI) (*I.F.*: 1.987; *R/C*=5/24 in INTEGRATIVE & COMPLEMENTARY MEDICINE)
28. Yi-Jen Hsieh†, Chih-Jui Chang†, Chin-Feng Wan, Chin-Piao Chen, Yi-Han Chiu, Yann-Lii Leu\*, Kou-Cheng Peng \*, *Euphorbia formosana* root extract induces apoptosis by caspase-dependent cell death via Fas and mitochondrial pathway in THP-1 human leukemic cells. *Molecules*, 2013, **18**, 1949-1962. (SCI) (*I.F.*: 2.465; *R/C*=24/59 in CHEMISTRY, ORGANIC)
29. Hsiu-Hui Chan, Tsong-Long Hwang, Tran Dinh Thang, Yann-Lii Leu, Ping-Chung Kuo, Bui Thi Minh Nguyet, Do Ngoc Dai, Tian-Shung Wu. Isolation and synthesis of melodamide A, a new anti-inflammatory phenolic amide from the leaves of *Melodorum fruticosum*. *Planta Medica*, 2013, **79**, 288-294. (SCI) (*I.F.*: 1.990; *R/C*=70/207 in PLANT SCIENCES)
30. Yin-Ku Lin, Saleh A. Al-Suwayeh, Yann-Lii Leu, Feng-Ming Shen, Jia-You Fang. Squalene-containing nanostructured lipid carriers promote percutaneous absorption and hair

- follicle targeting of diphencyprone for treating alopecia areata. *Pharmaceutical Research*, 2013, **30**, 435–446. (SCI) (*I.F.*: **3.260**; *R/C*=66/255 in PHARMACOLOGY & PHARMACY)
31. Yin-Ku Lin, Hsiao-Wen Chen, Yann-Lii Leu, Yueh-Lung Yang, Yu Fang, Jong-Hwei Su Pang, Tsong-Long Hwang. Indigo naturalis preulates claudin-1 expression in human keratinocytes and psoriatic lesions. *Journal of Ethnopharmacology*, 2013, **145**, 614-620. (SCI) (*I.F.*: **3.055**; *R/C*=2/24 in INTEGRATIVE & COMPLEMENTARY MEDICINE)
32. Po-Hsiang Wang<sup>1</sup>, Yann-Lii Leu<sup>1</sup>, Wael Ismail, Sen-Lin Tang, Ching-Yen Tsai, Hsing-Ju Chen, Ann-Tee Kao, Yin-Ru Chiang. The Anaerobic and Aerobic Cleavage of the Steroid Core Ring Structure by *Steroidobacter denitrificans*. *Journal of Lipid Research*, 2013, **54**, 1493-1504. (SCI) (*I.F.*: **4.368**; *R/C*=67/289 in BIOCHEMISTRY & MOLECULAR BIOLOGY)
33. Yi-Jen Hsieh, Yann-Lii Leu, Chih-Jui Chang. The anti-cancer activity of *Kalanchoe tubiflora*. *OA Alternative Medicine*, 2013, **1**, 18-21.
34. Yin-Ru Chiang, Ann Li, Yann-Lii Leu, Jia-You Fang and Yin-Ku Lin. An *in vitro* Study of the Antimicrobial Effects of Indigo Naturalis Prepared from *Strobilanthes formosanus* Moore. *Molecules*, 2013, **18**, 14381-14396. (SCI) (*I.F.*: **2.465**; *R/C*=24/59 in CHEMISTRY, ORGANIC)
35. Tai-Long Pan, Tung-Ho Wu, Pei-Wen Wang, Yann-Lii Leu, Nardsisa Sintupisut, Chun-Hsun Huang, Fang-Rong Chang, Yang-Chang Wu. Functional proteomics reveals the protective effects of saffron ethanolic extract on hepatic ischemia-reperfusion injury. *Proteomics*, 2013, **13**, 2297-2311. (SCI) (*I.F.*: **4.079**; *R/C*=13/77 in BIOCHEMICAL RESEARCH METHODS)
36. Yi-Ching Lu, Pei-Chun Luo, Chun-Wan Huang, Yann-Lii Leu, Tzu-Hao Wang, Kuo-Chen Wei, Hsin-El Wang and Yunn-Hwa Ma. Augmented cellular uptake of nanoparticles using tea catechins: effect of surface modification on nanoparticle–cell interaction. *Nanoscale*, 2014, **6**, 10297-10306. (SCI) (*I.F.*: **7.760**; *R/C*=12/145 in PHYSICS, APPLIED)
37. Tai-Long Pan, Pei-Wen Wang, Ibrahim A. Aljuffali, Yann-Lii Leu, Yi-Yun Hung, Jia-You Fang. Coumarin derivatives, but not coumarin itself, cause skin irritation via topical delivery. *Toxicology Letters*, 2014, **226**, 173-181. (SCI) (*I.F.*: **3.522**; *R/C*=18/90 in TOXICOLOGY)
38. Yu-Kuo Liu, Kuan-Hsing Chen, Yann-Lii Leu, Tzong-Der Way, Ling-Wei Wang, Yu-Jen Chen, Yu-Ming Liu. Ethanol extracts of *Cinnamomum kanehirai* Hayata leaves induce apoptosis in human hepatoma cell through caspase-3 cascade. *OncoTargets and Therapy*, 2015, **8**, 99-109. (SCI) (*I.F.*: **2.272**; *R/C*=70/161 in BIOTECHNOLOGY & APPLIED MICROBIOLOGY)
39. Yi-Jen Hsieh, Hsuan-Shun Huang, Yann-Lii Leu, Kou-Cheng Peng, Chih-Jui Chang, Meng-Ya Chang. Anticancer activity of *Kalanchoe tubiflora* extract against human lung cancer cells in vitro and in vivo. *Environmental Toxicology*, 2015, DOI: 10.1002/tox.22170. (SCI) (*I.F.*: **2.868**; *R/C*=7/85 in WATER RESOURCES)
40. Tai-Long Pan, Pei-Wen Wang, Chun-Hsun Huang, Yann-Lii Leu, Tung-Ho Wu, Yun-Ru Wu, Jyh-Sheng You. Herbal formula, Scutellariae radix and Rhei rhizoma attenuate

dimethylnitrosamine-induced liver fibrosis in a rat model. *Scientific Reports*, 2015, DOI: 10.1038/srep11734. (SCI) (*I.F.*: 5.228; *R/C*=7/63 in MULTIDISCIPLINARY SCIENCES)

41. Chia-Jen Chang, Ru-Yu Dai, **Yann-Lii Leu**, Tsung-Yu Tsai. Effects of the melanogenic inhibitor, uracil, derived from *Lactobacillus plantarum* TWK10- fermented soy milk on anti-melanogenesis in B16F0 mouse melanoma cells. *Journal of Functional Foods*, 2015, **17**, 314-327. (SCI) (*I.F.*: 3.973; *R/C*=8/125 in FOOD SCIENCE & TECHNOLOGY)
42. Yi-Yen Liu, Shih-Yu Zeng, **Yann-Lii Leu** and Tsung-Yu Tsai. Antihypertensive effect of a combination of uracil and glycerol derived from *Lactobacillus plantarum* strain TWK10- fermented soy milk. *Journal of Agricultural and Food Chemistry*, 2015, **63**, 7333-7342. (SCI) (*I.F.*: 2.857; *R/C*=3/57 in AGRICULTURE, MULTIDISCIPLINARY)
43. Chun-Yu Chen, **Yann-Lii Leu**, Yu Fang, Chwan-Fwu Lin, Liang-Mou Kuo, Wei-Che Sung, Yung-Fong Tsai, Pei-Jen Chung, Ming-Chung Lee, Yu-Ting Kuo, Hsuan-Wu Yang, Tsong-Long Hwang. Anti-inflammatory effects of *Perilla frutescens* in activated human neutrophils through two independent pathways: Src family kinases and Calcium. *Scientific Reports*, 2015, DOI: 10.1038/srep18204. (SCI) (*I.F.*: 5.228; *R/C*=7/63 in MULTIDISCIPLINARY SCIENCES)
44. Yung-Fong Tsai, Huang-Ping Yu, Pei-Jen Chung, **Yann-Lii Leu**, Liang-Mou Kuo, Chun-Yu Chen, Tsong-Long Hwang. Osthol attenuates neutrophilic oxidative stress and hemorrhagic shock-induced lung injury via inhibition of phosphodiesterase 4. *Free Radical Biology and Medicine*, 2015, **89**, 387-400. (SCI) (*I.F.*: 5.784; *R/C*=14/133 in ENDOCRINOLOGY & METABOLISM)

#### 專利:

1. 王瑞瑜, 陳君侃, **呂彥禮**, 專利名稱: 一種美白皮膚之組合物, 中華民國專利 I302102 號, 專利期限: 2008.10.21-2026.03.05。
2. 柯雲飛, 馬奕安, 廖建清, 簡瑋廷, 張義德, 邱振堯, **呂彥禮**, 吳宗儒, 黃宗騰, 陸嘉真, 歐大衛, 賴信志, 楊定一, 從牛樟菇中分離的化合物、其製備方法及用途, 中華民國專利 I538671 號, 專利期限: 2016.06.21-2034.07.13。

#### 指導研究生論文:

姓名	學位	論文題目
郭佳誠	碩士	棘蟻化學成分之研究
洪寶雲	碩士	槲寄生之化學成分及生物活性研究
周德榕	碩士	李棟山桑寄生之活性成分研究
黃士敬	碩士	台灣蒲公英與刺芒野古草成分研究
王禹力	碩士	忍冬葉桑寄生之化學成分與生物活性研究
鄭依萍	碩士	海南島產五蕊寄生及廣寄生之成分研究
郭世明	碩士	大葉桑寄生之化學成分與其生物活性之研究
陳嘉禧	碩士	芒穗鴨嘴草之化學成分研究
張藍文	碩士	異柄鄧伯花之化學成分
鐘鈺旻	碩士	水禾之化學成分與生物活性研究
林冠宏	碩士	濱當歸之化學成分與生物活性研究
林穎婷	碩士	半邊蓮之化學成分與生物活性研究
莊傳年	碩士	檜葉寄生之化學成分與生物活性研究
張鳳吟	碩士	蓮華池寄生之化學成分與生物活性研究
陳嘉緯	碩士	高式柴胡之化學成分與生物活性研究
呂蕙怡	碩士	指型軟珊瑚之化學成分與生物活性研究
魏嘉虹	碩士	桑寄生之化學成分與生物活性研究
王澤民	碩士	洋吊鐘之化學成分與生物活性研究
羅盛鈿	碩士	芫花之化學成分與生物活性研究
楊孟穎	碩士	蜈蚣草之化學成分與生物活性研究
劉佳怡	碩士	栗毛鈍果寄生之抗流感活性成分研究
郭亭君	碩士	台灣大戟跟部之化學成分與生物活性研究
林哲緯	碩士	洋耆草之化學成分與抗胰島素阻抗活性研究
陳沁宜	碩士	高山紅景天之化學成分與保肝活性研究

王玉柔	碩士	台灣梭羅木之化學成分與生物活性研究
賴佳吟	碩士	牛樟葉之化學成分與生物活性研究
呂昕鴻	碩士	麒麟花與台灣大戟之化學成分與生物活性研究
劉一新	碩士	長柄菊之化學成分與生物活性研究
顏嘉宏	碩士	台灣大戟地上部之化學成分與生物活性研究
陳心恬	碩士	牛樟葉甲醇萃取物之化學成分研究
邱華皓	碩士	紫背萬年青之化學成分與生物活性研究
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