

# 吳永昌 (Yang-Chang Wu) 簡歷

## 現職：

高雄醫學大學 天然藥物研究所講座教授  
高雄醫學大學天然藥物暨新藥開發研究中心主任  
高雄醫學大學附設中和紀念醫院臨床醫研部 研究員  
經濟部標準檢驗局 食品國家技術委員會委員  
中華民國農業科學園區 產學協會常務理事  
中華民國南部科學園區 產學協會理事  
台灣牛樟芝產業協會 常務理事兼國家標準技術委員會召集人  
財團法人台灣經濟研究院 顧問



## 學歷：

美國北卡羅萊納大學藥學院博士後研究  
日本名城大學藥學部研修  
中華民國高雄醫學大學醫學研究所(基礎醫學)博士  
中華民國高雄醫學大學醫學研究所(基礎醫學)碩士  
中華民國高雄醫學大學藥學系學士

## 經歷：

2014/08-2017/01 中國醫藥大學 藥學系講座教授兼副校長  
2014/01-2016/12 科技部生科司 藥學暨中醫藥學門召集人  
2013/01-2015/12 美國藥典委員會 東亞中草藥專家委員會委員  
2013/01-2015/12 國家新創獎評審委員會 委員  
2012/02-2014/07 中國醫藥大學 藥學系講座教授兼藥學院院長、副校長  
2011/02-2012/01 中國醫藥大學 中醫系講座教授兼副校長  
2010/08-2011/01 中國醫藥大學 中西醫結合研究所講座教授兼副校長  
2010/08-2014/07 高雄醫學大學 天然藥物研究所合聘講座教授  
2009/08-2010/07 高雄醫學大學 天然藥物研究所講座教授  
2008/01-2009/12 經濟部工業局及技術處技術審查委員會 委員  
2006/08-2009/07 高雄醫學大學 研究發展處研發長  
2002/01-2004/12 國家科學委員會 生物處藥學暨中醫藥學門召集人  
1996/11-2010/10 行政院衛生署 中醫藥委員會委員  
1992/08-2006/07 高雄醫學大學 天然藥物研究所教授兼所長  
1990/08-1992/07 高雄醫學大學 藥學系所教授  
1986/08-1990/07 高雄醫學大學 藥學系副教授

## 專長：

中草藥新藥開發、天然藥物學、中醫藥學、藥物化學

## 榮譽與獎勵：

2017 科技部創新創業激勵計畫-創業傑出獎  
2015 第 12 屆國家新創獎-學研新創獎 2012 第 9 屆國家新創獎-學生團隊組第一名  
2010 第 5 屆李天德卓越醫藥科技獎 2008 國家科學委員會 97 年度傑出研究獎

## 簡介：

於 1986 年取得高雄醫學院(現高雄醫學大學) 博士學位，隨即前往日本名城大學藥學部與美國北卡羅來納大學藥學院從事博士後研修。隔年回國後投入台灣本土植物藥開發三十載，與國內、外諸多研究室，如北卡羅來納大學李國雄院士等傑出的學者相互合作，以中草藥為本，研究為器，致力推動台灣本土植物藥研究現代化。迄今，以活性導引分離法鎖定方向探索台灣植物藥做為開發利基，萃取、純化近三千餘個天然化合物，並整合天然物化學、藥物化學、分子模擬計算、生化及藥理學技術與知識，由先導化合物之探索、鑑定、製備到衍生應用發展進行系統性研究。針對台灣植物藥於心血管、癌症、病毒及糖尿病等疾病之藥物開發，迄今發表於相關領域國際期刊論文 577 篇、6 篇專書 Chapter，被引用數萬餘次。相關研發成果擁有歐、美、日與台灣等國四十餘項專利及六項技術轉移；同時受聘擔任國際三十餘種 SCI 期刊之編輯與評審委員，國內相關領域之召集人、委員會委員及顧問，協助國內中草藥研究、藥物開發及生技食品之推展，貢獻於台灣本土植物藥研究，具體提升台灣該領域之國際能見度，而獲得諸多獎項，如科技部(國科會)傑出研究獎、王民寧醫藥研究傑出貢獻獎、李天德卓越醫藥科技獎、國家新創獎等之肯定。伴隨全球健康與植物天然產品市場需求提升，以新科技與新應用不斷推陳出新也致使植物與天然物產業市場快速增長。近年積極從事天然物產業化應用與轉譯研究，包含天然物衍生小分子藥物、中草藥臨床研究、植物保健產品開發、台灣特有植物商品開發。目前極力結合學校與附設醫院、產業界、研究與法人研發機構、園區等單位推動「天然藥物加值農業生技醫藥產學研鏈結」以提升南台灣區域產學研合作互動，並以：1. 新技術研發與產業技術提升；2. 研發商化推動以提升教育產業連結性；3. 強化 5+2 產業開發能量，克服研發製造開發缺口之三大目標為主軸，期望貢獻並推廣台灣中草藥產業於國際舞台。

## CURRICULUM VITAE

Name : Yang-Chang Wu(吳永昌)

### Current Positions:

- Chair Professor, Graduate Institute of Natural Products, Kaohsiung Medical University (KMU), Taiwan
- Director, Research Center for Natural Products and Drug Development, KMU, Taiwan
- Researcher, Department of Medical Research, Kaohsiung Medical University Hospital, Taiwan
- Member, National Standards Technology Committee, Bureau of Standards, Metrology and Inspection, Ministry of Economic Affairs, Taiwan
- Executive director (常務理事), Academia-Industry Consortium for Agricultural Biotechnology Park, Taiwan
- Director (理事), Academia-Industry Consortium for Southern Taiwan Science Park, Taiwan
- Executive director (常務理事), Niu-Chang-Chih (牛樟芝) Industry Association, Taiwan
- Chairman, National Standards Technical Committee, Niu-Chang-Chih Industry Association, Taiwan
- Consultant, Taiwan Institute of Economic Research

**Education:**

- Postdoctoral Fellow, Prof. Kuo-Hsiung Lee, University of North Carolina, U.S.A.
- Postdoctoral Fellow, Prof. Yoshimasa Hirata, Meijo University, Japan
- Doctor of Philosophy, Graduate Institute of Medicine (Basic Medical Science), KMU, Taiwan
- Master of Science, Graduate Institute of Medicine (Basic Medical Science), KMU, Taiwan
- Bachelor of Science in Pharmacy, KMU, Taiwan

**Professional Experiences:**

- 2010/08-2017/01 Vice-President, China Medical University (CMU), Taiwan
- 2014/08-2017/01 Chair Professor, School of Pharmacy, College of Pharmacy, CMU, Taiwan
- 2014/01-2016/12 Chairman, Division of Pharmacy and Chinese medicine, Department of Life Science, Ministry of Science and Technology, Taiwan
- 2013/01-2015/12 Member, Experts on East Asian Herbal Medicine of the United States Pharmacopoeia Committee, USA
- 2013/01-2015/12 Member, National Innovation Award Committee, Taiwan
- 2012/02-2014/07 Chair Professor & Dean, School of Pharmacy, College of Pharmacy, CMU, Taiwan
- 2011/02-2012/01 Chair Professor, School of Chinese Medicine, College of Chinese Medicine, CMU, Taiwan
- 2010/08-2011/01 Chair Professor, Graduate Institute of Integrated Medicine, College of Chinese Medicine, CMU, Taiwan
- 2010/08-2014/07 Chair Professor(Joint Appointment), Graduate Institute of Natural Products, College of Pharmacy, KMU, Taiwan
- 2009/08-2010/07 Chair Professor, Graduate Institute of Natural Products, College of Pharmacy, KMU, Taiwan
- 2008/01-2009/12 Member, National Standards Technology Committee, Bureau of Standards, Metrology and Inspection, Ministry of Economic Affairs, Taiwan
- 2006/08-2009/07 Provost, Department of Research and Development, KMU, Taiwan
- 2002/01-2004/12 Chairman, Division of Pharmacy and Traditional Chinese Medicine, Department of Biological and Medicine, National Science Council, Taiwan
- 1996/11-2010/10 Member, Committee on Chinese Medicine and Pharmacy, Department of Health, Executive Yuan, Taiwan
- 1992/08-2006/07 Professor & Director, Graduate Institute of Natural Products, College of Pharmacy, KMU, Taiwan
- 1990/08-1992/07 Professor, College of Pharmacy, KMU, Taiwan
- 1986/08-1990/07 Associate Professor, College of Pharmacy, KMU, Taiwan

**Specialties:** Translational Research on Chinese Herbal Medicine and Natural Medicinal Products -  
Functional Food and New Drug Development

## Awards and Honors:

- ◆ Member of the American Society of Pharmacognosy (ASP) and 10 more other association members.  
The member of 6 editorial board and ca. 30 referee member of journals
  - ◆ 2017 Outstanding Venturing Award- Innovation and Startups Program
  - ◆ 2015 12<sup>th</sup> National Innovation Award
  - ◆ 2012 9<sup>th</sup> National Innovation Award-PhD Student (first prize)
  - ◆ 2010 Outstanding Medical and Pharmaceutical Technology award of TienTe Lee Biomedical Foundation, Taiwan
  - ◆ 2009 Outstanding research award of National Science Council, Taiwan
  - ◆ 2007 Outstanding merit and high scholastic achievement to medical and pharmaceutical research award of Wang Ming-Ning Foundation
- ※ More than 571 research articles in SCI refereed journals and authorships of several book chapters.  
More than 40 patents granted or in application. More than 20 industry-academic cooperation. More than 6 patent/tech transfer practices (including one new drug R&D tech transfer).

## A. 期刊論文：

### 學術著作(1983年迄今)：

1. Seng-Teh Lu and **Yang-Chang Wu**, 1983, "A new Aporphine Alkaloid, Fissoldine from *Fissistigma oldhamii* (Hemsl.) Merr.", *Heterocycles*, 20, 813-815.(SCI)
2. Sheng-Teh Lu, **Yang-Chang Wu** and Shiow-Piaw Leiu ,1985, "Alkaloids of Formosan *Fissistigma* and *Goniothalamus* Species.", *Phytochemistry*, 24,1829-1834.(SCI)
3. Sheng-Teh Lu and **Yang-Chang Wu** ,1985, "Transformation from Aporphine N-Oxides to 1-(N-Methyl-N-hydroxylaminoethyl) Phenanthrene Derivatives.", *Heterocycles*, 23, 3085-3094.(SCI)
4. **Yang-Chang Wu**, Sheng-Teh Lu, Tian-Shung Wu and Kuo-Hsiung Lee ,1987, "Kuafumine, A Novel Cytotoxic Oxoaporphine Alkaloid from *Fissistigma glaucescens*.", *Heterocycles*, 26, 9-12.
5. Sheng-Teh Lu, **Yang-Chang Wu** and Shiow-Piaw Leou ,1987, "The Oxidation of Isoquinoline Alkaloids with m-Chloroperbenzoic Acid.", *Journal of the Chinese Chemical Society*, 34, 33-42.
6. **Yang-Chang Wu\***, Tian-Shung Wu, Masatake Niwa, Sheng-Teh Lu and Yoshimasa Hirata ,1987, "A New C20-Diterpenoid Alkaloid From *Thalictrum sessile* Hayata.", *Heterocycles*, 26, 943-946.
7. Tian-Shung Wu, Shiow-Chyn Huanh, Sheng-Teh Lu and **Yang-Chang Wu** 1987, "Isoochotensine, A New Spirobenzylisoquinoline Alkaloid from *Corydalis ochotensis* Turcz.", *Journal of the Chinese Chemical Society*, 34, 157-160.
8. Masatake Niwa, Yasuhiko Iwadare, **Yang-Chang Wu** and Yoshimasa Hirata , 1988, "Two New Phenylpropanoid Glycosides from *Wikstroemia sikokiana*.", *Chemical and Pharmaceutical Bulletin*, 36, 1158-1161.

9. **Yang-Chang Wu**, Sheng-Teh Lu, Jer-Jang Chang and Kuo-Hsiung Lee ,1988, "Cytotoxic Aporphinoid Alkaloids From *Thalictrum sessile.*.", *Phytochemistry*, 27, 1563-1564.
10. **Yang-Chang Wu\***, Yei-Fei Liou and Sheng-Teh Lu ,1988, "Antimicrobial Activity of Isoquinoline Alkaloids and Their N-Oxides Derivatives.", *Kaohsiung Journal of Medical Sciences*, 4336-4344.
11. Tian-Shung Wu, Shiow-Chyn Huang, Sheng-Teh Lu, **Yang-Chang Wu**, Donald R. McPhail, Andrew T. Mcphail, and Kuo-Hsiung Lee ,1988, "Structure and Stereochemistry of Corytensine, A new Phthalideisoquinoline Alkaloid from *Cyrdalis ochotensis.*.", *Heterocycles*, 27, 1565-1558.
12. **Yang-Chang Wu\***, Tian-Shung Wu, Masatake Niwa, Sheng-Teh Lu,Yoshimasa Hirata, Donald R. Mcphail, Andrew T. Mcphail and Kuo-Hsiung Lee ,1988, "Structure and Stereochemistry of Thaliciline, "A New Antiinflammatory C20-Diterpenoid Alkaloid from *Thalictrum sessile.*.", *Heterocycles*, 27, 1813-1816.
13. **Yang-Chang Wu\***, Tian-Shung Wu, Masatake Niwa, Sheng-Teh Lu and Yoshimasa Hirata, 1988, "Alkaloids of Formosan *Thalictrum sessile.*.", *Phytchemistry*, 27, 3949-3953.
14. **Yang-Chang Wu\***, 1989, "Azafluorene and Aporphine Alkaloids from *Polyalthia longifolia.*.", *Heterocycles*, 29, 463-475.
15. Feng-Nien Ko, Tian-Shung Wu, **Yang-Chang Wu**, Tur-Fu Huang and Che-Ming Teng , 1989, "Antiplatelet Effects of Protopine Isolated from *Corydalis tubers.*.", *Thrombosis Research*, 56, 289-298.
16. **Yang-Chang Wu**, Yei-Fei Liou, Sheng-Teh Lu, Chung-Hsiung Chen, Jer-Jang Chang and Kuo-Hsiung Lee, 1989, "Cytotoxicity of Isoquinoline Alksloids and Their N- Oxides.", *Planta Medica*, 55, 163-166.
17. **Yang-Chang Wu**, Takashi Yamagshi and Kuo-Hsiung Lee, 1989, "Cytotoxic Isoquinoline Alkaloids from *Xanthorhiza simplicissima.*.", *Kaohsiung Journal of Medical Sciences*, 5, 409-411.
18. **Yang-Chang Wu**, Chung-Hsiung Chen, Tsang-Hsiung Yang, Sheng-Teh Lu, Donald. McPhail, Andrew T. McPhail, and Kuo-Hsiung Lee, 1989, "Cytotoxic Aporphines from *Artabotrys uncinatus* and the Structure and Stereochemistry of Artacinatine.", *Phytochemistry*, 28, 2191-2195.
19. Cherng-Chyi Tzeng, **Yang-Chang Wu**, Tsan-Long Su, Kyoichi A Watanabe, Sheng-Teh Lu and Ting-Chao Chou, 1990, "Inhibitory Effects of Isoquinoline-type Alkaloids on Leukemic Cell Growth and Macromolecule Biosynthesis.", *Kaohsiung Journal of Medical Sciences*, 6, 58-65.
20. Chang-Yih Duh, Shang-Kwei Wang and **Yang-Chang Wu**, 1990, "New Cytotoxic Pyridone Alkaloids from *Piper aborescens.*.", *Planta Medica*, 56, 524.

21. Chang-Yih Duh, **Yang-Chang Wu** and Shang-Kwei Wang, 1990, "Cytotoxic Pyridone Alkaloids from the Leaves of *Piper abrescens*.", *Journal of Natural Products*, 53, 1575-1577.
22. **Yang-Chang Wu\***, Shu-Ching Kao, Jeng-Fen Hwung, Chang-Yih Duh and Sheng-The Lu , 1990, "Two Phenanthrene Alkaloids from *Fissistigma glaucescens*.", *Phytochemistry*, 29, 2387-2388.
23. Chang-Yih Duh, **Yang-Chang Wu** and Shang-Kwei Wang, 1990, "Cytotoxic Pyridone Alkaloids from *Piper aborescens*.", *Phytochemistry*, 29, 2689-2691.
24. **Yang-Chang Wu\***, Chang-Yih Duh, Keh-Shaw Chen, Shang-Kwei Wang, and Tsang-Hsiugn Yang, 1990, "Two New Natural Azafluorene Alkaloids and a Cytotoxic Aporphine Alkaloid from *Polyalthia longifolia*.", *Journal of Natural Products*, 53, 1327-1331.
25. **Yang-Chang Wu\***, Jin-Yuan Liou, Chang-Yih Duh, Shoei-Sheng Lee, Sheng-Teh Lu, 1990, "Litebamine, A Novel Phenanthrene Alkaloid from *Litsea cubeba*.", *Tetrahedron Letters*, 32, 4169-4170.
26. **Yang-Chang Wu\***, Chang-Yih Duh, Fang-Rong Chang, Gwo-Yuan Chang, Shang-Kwei Wang, Jer-Jang Chang, Donald R. McPhail, Andrew T. McPhail and Kuo-Hsiung Lee ,1991, "The Crystal Structure and Cytotoxicity of Goniodiol-7- Monoacetate from *Goniothalamus amuyon*.", *Journal of Natural Products*, 54, 1077-1081.
27. Chang-Yih Duh, Shang-Kwei Wang and **Yang-Chang Wu**, 1991, "Cytotoxic Pyranocoumarins from the Arial Parts of *Peucedanum japonicum*.", *Phytochemistry*, 30, 2812-2814.
28. Masatake Niwa, Hidetoshi Sugino, Shigeki Takashima, Tatsuko Sakai, **Yang-Chang Wu**, Tian-Shung Wu, and Chan-Sheng Kuoh ,1991, "A Novel Coumarin Glucoside from *Daphne arisanensis*.", *Chemical and Pharmaceutical Bulletin*, 39, 2422-2424.
29. Feng-Nien Ko, Tian-Shung Wu, Sheng-Teh Lu, **Yang-Chang Wu**, Tur-Fu Huang and Che-Ming Teng ,1992, " $\text{Ca}^{+2}$ -Channel Blockade in Rat Thoracic Aorta by Protopine Isolated from *Corydalis tubers*.", *Japanese Journal of Pharmacology*, 58, 1-9.
30. **Yang-Chang Wu\***, Fang-Rong Chang, Chang-Yih Duh, Shang-Kwei Wang , 1992, "Annoreticuin and Isoannoreticuin: Two New Cytotoxic Acetogenins from *Annona reticulata*.", *Heterocycles*, 34, 667-674.
31. **Yang-Chang Wu\***, Pei-Wen Hsieh, Chang-Yih Duh, Shang-Kwei Wang, Keryea Soong, and Lee-Shing Fang ,1992, "Studies on the Formosan Soft Corals 1- Cytotoxic Cembrane Diterpenes from *Sarcophyton trocheliophorum*.", *Journal of the Chinese Chemical Society*, 39, 355-357.

32. Chang-Yih Duh, Shang-Kwei Wang and **Yang-Chang Wu**, 1992, "Cytotoxic Pyranocoumarins from Roots of *Peucedanum japonicum*.", *Phytochemistry*, 31, 1829-1830.
33. Chien-Huang Lin, **Yang-Chang Wu**, Sheng-Teh Lu, Teh-Fu Huang, Che-Ming Teng, 1992, "Platelet-Activating Factor Antagonism in Rabbit Platelets by the Derivative of Ochotensimine isolated from *Corydalis ochotensis*.", *Asia Pacific Journal of Pharmacology*, 7,121-127.
34. **Yang-Chang Wu\***, Fang-Rang Chang, Chang-Yih Duh, Shang-Kwei Wang and Tian-Shung Wu,1992, "Cytotoxic Styrylpyrones of *Goniothalamus amuyon*.", *Phytochemistry*, 31, 2851-2853.
35. Shang-Kwei Wang, Chang-Yih Duh, **Yang-Chang Wu**, Yu Wang, Ming-Chu Cheng, Keryea Soong and Lee-Shing Fang, 1992, "Studies on Foromosan Soft Corals, 2. Cytotoxic Cembranolides from the Soft Coral *Lobophytum michaelae*.", *Journal of Natural Products*, 55, 1430-1435.
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37. **Yang-Chang Wu\***, Gwo-Yuan Chang, Chang-Yih Duh, and Shang-Kwei Wang, 1993, " Cytotoxic Alkaloids of *Annona montana*", *Phytochemistry*, 33, 497-500.
38. Chang-Yih Duh, Shang-Kwei Wang, Rei-Sheu Hou, **Yang-Chang Wu**, Yu Wang, Ming-Chu Cheng, and Tai-Tsung Chang, 1993, Dehydroodorin, A Cytotoxic Diamide from the Leaves fo *Aglai formosan*", *Phytochemistry*, 34, 857-858.
39. Feng-Nien Ko, Sheu-Meei Yu, Ming-Jai Su, **Yang-Chang Wu** and Che-Ming Teng, 1993, "Pharmacological Activity of (-)-Discretamine, A Novel Vascular  $\alpha$ -Adrenoceptor and 5-Hydroxytryptamine receptor antagonist, isolated from *Fissistigma glaucescens*", *British Journal of Pharmacology*, 110, 882-888.
40. Chien-Huang Lin, Feng-Nien Ko, **Yang-Chang Wu**, Sheng-Teh Lu, and Che-Ming Teng, 1993, "The Relaxant Actions on Guinea-Pig Trachealis of Atherosperminine Isolated from *Fissistigma glaucescens*", *European Journal of Pharmacology*, 237, 109-116.
41. Feng-Nien Ko, **Yang-Chang Wu**, Sheng-Teh Lu and Che-Ming Teng, 1993, " $\text{Ca}^{+2}$  Channel Blockade in Rat Thoracic Arota By Crychine Isolated from *Cryptocarya chinensis* Hemsl", *Journal of Pharmacy and Pharmacology*, 45, 707-710.
42. Fang-Rong Chang, **Yang-Chang Wu\***, Chang-Yih Duh, and Shang-Kwei Wang, 1993, "Studies on the Acetogenins of Formosan *Annona reticulata*", *Journal of Natural Products*, 56, 1688-1694.

43. Feng-Nien Ko, Jih-Hwa Guh, Sheuy-Meei Yu, **Yang-Chang Wu** and Che-Ming Teng, 1994, “(-)-Discretamine, A Selective  $\beta$  1D-Adrenoceptor Antagonist, Isolated from *Fissistigma glaucescens*”, *British Journal of Pharmacology*, 112, 1174-1180.
44. Chao-Ming Li, Qing Mu, Xiaojun Jiang Hao, Han-Dong Sun, Hui-Lan Zheng and **Yang-Chang Wu**, 1994, “There New Annonaceous Acetogenins from *Annona muricata*”, *Chinese Chemical Letters*, 5, 747-750.(SCI)
45. Wen-Ying Chen, Feng-Nien Ko, **Yang-Chang Wu** and Che-Ming Teng, 1994, “Vasorelaxing Effect in Rat Thoracic Aorta Caused By Laurotetanine Isolated from *Litsea cubeba Persoon*”, *Journal of Pharmacy and Pharmacology*, 46, 380-382.
46. Chien-Huang Lin, Gwo-Jyh Chang, **Yang-Chang Wu**, Che-Ming Teng and Feng-Nien Ko, 1994, “Pharmacological Characteristics of Liriodenine, Isolated from *Fissistigma glaucescens*, A Novel Muscarinic Receptor antagonist in Guinea-Pigs”, *British Journal of Pharmacology*, 113, 275-281.
47. **Yang-Chang Wu\***, Fang-Rong Chang, Keh-Shaw Chen, Feng-Nien Ko and Che-Ming Teng, 1994, “Bioactive Alkaloids from *Annona squamosa*”, *Chinese Pharmaceutical Journal*, 46, 439-446.
48. **Yang-Chang Wu\***, Fang-Rong Chang, Sz-Chi Liang, and Maw-Rong Lee, 1994, “Diepoxymontin, A Novel Acetogenin from *Annona montana*”, *Heterocycles*, 38, 1475-1478.
49. Chien-Huang Lin, Chuen-Mao Yang, Feng-Nien Ko, **Yang-Chang Wu** and Che-Ming Teng, 1994, “Antimuscarinic Action of Liriodenine, Isolated from *Fissistigma glaucescens*, in Canine Tracheal Smooth Muscle” , *British Journal of Pharmacology*, 113, 1464-1170.
50. **Yang-Chang Wu\***, Gwo-Yuan Chang, Feng-Nien Ko and Che-Ming Teng, 1995, “Bioactive Constituents from the Stems of *Annona Montana*”, *Planta Medica*, 61, 146-149.
51. Jih-Hwa Guh, Feng-Nien Ko, Sheu-Meei Yu, **Yang-Chang Wu\***, Keh-Shaw Chen and Che-Ming Teng, 1995, “Pharmacologic Evaluation N-Methyl-actinodaphnine, A Novel Vascular  $\beta$ -Adrenocptor Antagonist, Isolated from *Illigera luzonensis*.”, *European Journal of Pharmacology*, 279, 33-41.
52. Tian-Shung Wu, Yang-Li Leu, Hua-Chun Hsu, Li-Fei Ou, Chien-Chih Chen, Chieh-Fu Chen, Jun-Chin Ou, **Yang-Chang Wu\***, 1995, “Constituents and Cytotoxic of *Nothapodytes foetid*.”, *Phytochemistry*, 39, 383-385.
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87. **Yang-Chang Wu**, 2014, "Recent Research and Development of *Antrodia cinnamomea*", 40th Anniversary of ISOM, Nov. 01-03, Taipei. Taiwan
88. **Yang-Chang Wu**, 2014, "Medicinal and Functional Foods (Med Fun Food) I", 10th International Symposium on Biocatalysis and Agricultural Biotechnology (ISBAB), Oct. 28-31, Kaohsiung. Taiwan
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## C. 專利、技術移轉

### I 專利

Title	CYTOTOXIC ANNONACEOUS ACETOGENINS FROM <i>ANNONA MURICATA</i>		
Inventors	<b>Yang-Chang Wu</b>		
Country	Patent type	Patent number	Date of Patent
Taiwan	Utility Patent	I247009	Jan. 11, 2006
USA	Utility Patent	US 7,223,792 B2	May 29, 2007

Patent family 2 (5 patents)

Title	COMPOSITION FOR TREATING CANCER CELLS AND PREPARATION METHOD THEREOF		
Inventors	<b>Yang-Chang Wu</b> , An-Shen Lin, Fang-Rong Chang, Chin-Chung Wu		
Country	Patent type	Patent number	Date of Patent
Taiwan	Utility Patent	I321052	Jan. 03, 2010
USA	Utility Patent	US 7,550,160	Jun. 23, 2009
USA	Utility Patent	US 7,670,630	Mar. 02, 2010
USA	Utility Patent	US 7,785,639	Aug. 31, 2010
USA	Utility Patent	US 7,887,856	Feb. 15, 2011

Patent family 3 (6 patents)

Title	COMPOSITION FOR TREATING CANCER CELLS AND SYNTHESIS METHOD THEREOF		
Inventors	<b>Yang-Chang Wu</b> , An-Shen Lin, Kuo-Hsiung Lee, Fang-Rong Chang		
Country	Patent type	Patent number	Date of Patent
Taiwan	Utility Patent	I324062	May 01, 2010
USA	Utility Patent	US 7,842,721	Nov 30, 2010
Japan	Utility Patent	JP 5021549	Sep 12, 2012
Country	Patent type	Application number	Date of filing
Korean	Utility Patent	KR10-2008-0031721	Apr. 04, 2008

Australia	Utility Patent	AU 2008201553	Apr. 04, 2008
European union	Utility Patent	EP 08006865.3	Apr. 04, 2008

Patent family 4 (2 patents)

Title	PHARMACEUTICAL COMPOSITION FOR TREATING CANCER AND THE SIGNALING PATHWAY THEREOF		
Inventors	Shyng-Shiou Yuan, <b>Yang-Chang Wu</b> , Hsueh-Ling Chang, Fang-Rong Chang		
Country	Patent type	Patent number	Date of Patent
Taiwan	Utility Patent	I394568	May 01, 2013
Country	Patent type	Application number	Date of filing
USA	Utility Patent	US 12/399,155	Mar. 06, 2009

Patent family 5 (6 patents)

Title	COMPOUND FOR INHIBITING GLUTATHIONE S-TRANSFERASE OMEGA 1 ACTIVITY, PHARMACEUTICAL COMPOSITION CONTAINING THEREOF, AND METHOD FOR SYNTHESIZING THE SAME		
Inventors	<b>Yang-Chang Wu</b> , Kuo-Hsiung Lee, Fang-Rong Chang, Da-Wei Chuang, Juan-Cheng Yang		
Country	Patent type	Patent number	Date of Patent
Taiwan	Utility Patent	I503315	Aug. 16, 2014
USA	Utility Patent	8,969,406	Aug. 07, 2014
China	Utility Patent	1944383	Aug. 13, 2014
Japan	Utility Patent	5778301	Aug. 25, 2014
Country	Patent type	Application number	Date of filing
European union	Utility Patent	13899167.4	Jun. 08, 2014
PCT	Utility Patent	PCT/CN2013/088871	Dec. 09, 2013

Patent family 6 (2 patents)

Title	COMPOSITION FOR TREATING CANCER CELLS AND PREPARATION METHOD THEREOF		
Inventors	<b>Yang-Chang Wu</b> , Fang-Rong Chang		
Country	Patent type	Patent number	Date of Patent
Country	Patent type	Application number	Date of filing
Taiwan	Utility Patent	TW 200916465	Apr. 16, 2009
USA	Utility Patent	US 2009/0088412	Apr. 02, 2009

Patent family 7 (2 patents)

Title	COMPOSITION FOR TREATING INFLUENZA A (H1N1) VIRUS AND A PREPARATION METHOD THEREOF		
Inventors	<b>Yang-Chang Wu</b> , Fang-Rong Chang, Lien-Chai Chiang		
Country	Patent type	Patent number	Date of Patent
USA	Utility Patent	US 8,476,311	Jul. 02, 2013
Country	Patent type	Application number	Date of filing
Taiwan	Utility Patent	TW 099104501	Feb. 11, 2010

Patent family 8 (2 patents)

Title	ETHANOL EXTRACT OF <i>ANTRODIA CAMPHORATA</i> FOR INDUCING APOPTOSIS AND PREPARATION METHOD THEREOF		
Inventors	<b>Yang-Chang Wu</b> , Mei-Chin Lu, Fang-Rong Chang, Ying-Chi Du, Tung-Ying Wu		
Country	Patent type	Patent number	Date of Patent
Taiwan	Utility Patent	I389699	Mar. 21, 2013
US	Utility Paten	8883167	Nov. 11, 2014

Patent family 9 (2 patents)

Title	WATER EXTRACT OF <i>ANTRODIA CAMPHORATA</i> FOR IMMUNOSTIMULATORY EFFECT AND PREPARATION METHOD THEREOF		
Inventors	<b>Yang-Chang Wu</b> , Mei-Chin Lu, Fang-Rong Chang, Ying-Chi Du, Tung-Ying Wu		
Country	Patent type	Patent number	Date of Patent
Taiwan	Utility Patent	I448294	Aug 11, 2014
Country	Patent type	Application number	Date of filing
USA	Utility Patent	US 12/552,115	Sep 01, 2009

Patent family 10 (3 patents)

Title	BENZENOID COMPOUNDS OF <i>ANTRODIA CINNAMOMEA</i> , PREPARATION AND ANALYSIS METHOD THEREOF		
Inventors	<b>Yang-Chang Wu</b> , Mei-Chin Lu, Fang-Rong Chang, Ying-Chi Du, Tung-Ying Wu, Yu-Ming Hsu		
Country	Patent type	Patent number	Date of Patent
USA	Utility Patent	US 8,716,499	May 06, 2014
Country	Patent type	Application number	Date of filing
Taiwan	Utility Patent	TW 100100874	Jul 16, 2012
China	Utility Patent	CN201110078772	Jul 18, 2012

Patent family 11 (3 patents)

Title	TRITERPENOID COMPOSITION OF <i>ANTRODIA CINNAMOMEA</i> , PREPARATION AND ANALYSIS METHOD THEREOF. Assignee: KAOHSIUNG MEDICAL UNIVERSITY		
Inventors	<b>Yang-Chang Wu</b> , Mei-Chin Lu, Fang-Rong Chang, Ying-Chi Du, Tung-Ying Wu, Yu-Ming		

	Hsu		
Country	Patent type	Patent number	Date of Patent
Country	Patent type	Application number	Date of filing
Taiwan	Utility Patent	TW 1001029	Oct 09, 2010
China	Utility Patent	CN201110092150	Aug 01, 2011
USA	Utility Patent	US 13/351,755	Jan 17, 2012

Patent family 12 (1 patents)

Title	DROPPING PILL OF ANTRODIA CINNAMOMEA		
Inventors	Tong-Rong Tsai、Yang-Chang Wu、Fang-Rong Chang、Mei-Chin Lu、Ying-Chi Du、Tung-Ying Wu、Yu-Ming Hsu、Kuei-Hung Lai、You-Cheng Lin、Yen-Chi Chen		
Country	Patent type	Patent number	Date of Patent
Taiwan	Utility Patent	M468314	Dec 21, 2013

Patent family 13 (1 patents)

Title	DRINK CONTAINER OF ANTRODIA CINNAMOMEA FOR REDUCING ALCOHOL LEVEL AFTER ALCOHOL CONSUMPTION AND AWAKENING CONSCIOUSNESS		
Inventors	Tong-Rong Tsai、Yang-Chang Wu、Fang-Rong Chang、Mei-Chin Lu、Ying-Chi Du、Tung-Ying Wu、Yu-Ming Hsu、Kuei-Hung Lai、You-Cheng Lin、Yen-Chi Chen、Ching-Peng Chiu、Shu-Fen Tu		
Country	Patent type	Patent number	Date of Patent
Taiwan	Utility Patent	M467624	Dec 11, 2013

Patent family 14(2 patent)

Title	COMPOSITION FOR TREATING DIABETES AND METABOLIC DISEASES AND A PREPARATION METHOD THEREOF		
Inventors	Yang-Chang Wu、Fang-Rong Chang、Tusty-Jiuan Hsieh、Ying-Chi Du、Yi-Hong Tsai、Chi-Ting Hsieh		
Country	Patent type	Patent number	Date of Patent
Taiwan	Utility Patent	I417088	Dec 01, 2013
Country	Patent type	Application number	Date of filing
PCT	Utility Patent	PCT/US2012/49968	Aug 08, 2012

Patent family 15(1 patent)

Title	COMPOSITION FOR TREATING ATHEROSCLEROSIS AND A PREPARATION METHOD THEREOF		
Inventors	Yang-Chang Wu、Fang-Rong Chang、Tusty-Jiuan Hsieh、Suh-Hang Juo、An-Shen Lin、Ying-Chi Du		
Country	Patent type	Patent number	Date of Patent

Taiwan	Utility Patent	I415600	Nov 21, 2013
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Patent family 16 (3 patent)

Title	EXTRACT OF TOONA SINENSIS FROM SUPERCRITICAL FLUID EXTRACTION FOR TREATING DIABETES AND METABOLIC DISEASES, THE PREPARATION METHOD AND THE USE THEREOF		
Inventors	Pei-Jung Lien、Chuan-Chia Sun、Tzu-Chen Kuo、Sheng-Chung Yang、Yu-Ting Deng、 <b>Yang-Chang Wu</b> 、Fang-Rong Chang、Tusty-Jiuan Hsieh、I-Hung Tsai、Ying-Chi Du		
Country	Patent type	Patent number	Date of filing
Taiwan	Utility Patent	TW201121559	July 01, 2011
USA	Utility Patent	US20110159127	June 30, 2011
WIPO (PCT)	Utility Patent	WO/2011/082148	July 07, 2011

Patent family 17 (3 patent)

Title	CHEMICAL PROFILE OF DETECTING BIOACTIVE COMPONENTS OF QUINONES, STILBENES, FLAVONES AND ALKALOIDS		
Inventors	<b>Fang-Rong Chang</b> 、 <b>Tung-Ting Wu</b> 、 <b>Yang-Chang Wu</b>		
Country	Patent type	Patent number	Date of Patent
Taiwan	Utility Patent	I426266	Feb 11, 2014
Country	Patent type	Application number	Date of filing
USA	Utility Patent	US 13/528,131	Jan 03, 2013
China	Utility Patent	CN201110278881	Jan 02, 2013

Patent family 18 (1 patent)

Title	BENZENOID COMPOUNDS OF ANTRODIA CINNAMOMEA, PREPARATION AND ANALYSIS METHOD THEREOF		
Inventors	<b>Yang-Chang Wu</b> 、 <b>Fang-Rong Chang</b> 、 <b>Mei-Chin Lu</b> 、 <b>Ying-Chi Du</b> 、 <b>Tung-Ying Wu</b> 、 <b>Yu-Ming Hsu</b>		
Country	Patent type	Patent number	Date of Patent
Taiwan	Utility Patent	I454301	Oct 01, 2014
China	Utility Patent	CN 102584777 B	Jul 06, 2016

## II 技術移轉

技術名稱	專利名稱	授權單位	被授權單位	合約期間
樟芝子實體活性組合物之製備與分析		高雄醫學大學	雲鵬生物科技股份有限公司	201009~203009
各種極性萃取物與組合物之製備與分析方法		高雄醫學大學	玉富生物科技股份有限公司	201206~201206

樟芝子實體活性組合物之製備與分析		高雄醫學大學	雲鵬生物科技股份有限公司	201206~201206
三黃瀉心湯化學成分及其 HPLC 圖資之建立		高雄醫學大學	莊松榮製藥廠有限公司	201206~201206
商標授權	婦女更年期黑糖新產品之開發研究	台灣糖業股份有限公司	吳永昌	201010~201010

#### D. 著作專書

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2. 吳永昌等編譯，教育部公告，國立編譯館主編：化學名詞，2003。
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