Ho-Cheng Wu (吳和澄)

Assistant Professor,
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EDUCATION AND TRAINING

2015/09~2020/06 **Ph.D. in Graduate Institute of Natural Products**
Kaohsiung Medical University, Kaohsiung, Taiwan

2009/09~2011/06 **Master in School of Pharmacy**
Kaohsiung Medical University, Kaohsiung, Taiwan

2005/09~2009/06 **Bachelor in School of Pharmacy**
Kaohsiung Medical University, Kaohsiung, Taiwan

Personal Experiences

2024/08~present **Assistant Professor**
School of Pharmacy, College of Pharmacy, Kaohsiung Medical University, Kaohsiung, Taiwan

2022/02~ 2024/07 **Assistant Professor**
Graduate Institute of Pharmacognosy, College of Pharmacy, Taipei Medical University, Taipei, Taiwan

2022/09~ 2024/07 **Joint-Appointment Assistant Professor**
Ph. D. Program in the Clinical Drug Development of Herbal Medicine, College of Pharmacy, Taipei Medical University, Taipei, Taiwan

2020/09~2021/09 **Postdoctoral Research Fellow**
Institute of Fisher Science, College of Life Science, National Taiwan University, Taipei, Taiwan

2020/09~2022/02 **Adjunct Lecturer**
School of Pharmacy, College of Pharmacy, Kaohsiung Medical University, Kaohsiung, Taiwan

2019/06~2019/09 **Visiting Scholar**
Department of Pharmacognosy and Pharmaceutical Botany, Faculty of

Pharmaceutical Sciences, Chulalongkorn University, Bangkok, Thailand

2012/08~2015/04 **Pharmacist**

Department of Pharmacy, Chiayi Chang Gung Memorial Hospital

RESEARCH AREA

- Investigation into Chemical Constituents from Natural Products and their Bioactivities (Plants, Fungi, Traditional Chinese Medicine, and Herbal Medicine)
- Isolation of Endophytes from Formosan Plants and Optimization of Endophytes Fermentation Process
- Medicinal Botany, Pharmacognosy, Natural Product Chemistry, MS/MS Molecular Networking, Hyphenated HPTLC Techniques
- Research and Development of Functional Foods and Dietary Supplements

RESEARCH INTERESTS

- Professor Wu's laboratory specializes in researching bioactive secondary metabolites from natural products, focusing on developing botanical or single-compound new drugs. Our research encompasses Formosan plants and endophytic fungi. Formosan plants are gathered through field surveys, identified, and undergo small-scale extractions to establish an extraction database. Bioactivity screening identifies promising plants for further investigation. Moreover, we are exploring active compounds of endophytic fungi using the "one strain many compounds" (OSMAC) approach to optimize fermentation conditions, linking academic research with industrial applications. Once our research targets are identified, we use "bioassay-guided fractionation" and "bioactive coupled MS/MS molecular networking" to isolate the active compounds.
- **Techniques for extraction and isolation of natural products**: Utilizing thin-layer chromatography and column chromatography (open column chromatography, medium-pressure liquid chromatography, high-performance liquid chromatography) along with various separation materials (silica gel, C-18 silica gel, Sephadex LH-20, Diaion HP-20, phenyl, etc.), for the rapid and large-scale preparation of natural product chemical compounds.
- **Structure identification of natural compounds**: Utilizing nuclear magnetic resonance spectroscopy (NMR), infrared spectroscopy (IR), ultraviolet spectroscopy (UV), circular dichroism spectroscopy (CD), and optical rotation, combined with *in silico* structure and physicochemical data analysis, to determine the structures of compounds.

- **Exploration of plant endophytes**: Conduct isolation and purification of Formosan plant endophytes in a sterile environment, utilizing fermentation techniques and metabolic regulation methods to develop potential endophytes. Establish endophytes and their fermentation databases, leveraging the diversity of fermentation products from endophyte strains to enhance their medicinal and health value.

QUALIFICATIONS

2009 Professional Pharmacist License
National Professional and Technical Examination for Pharmacists, Taiwan

2009 Certificate of Chinese Herbal Medicine
Kaohsiung Medical University, Kaohsiung, Taiwan

HONORS & AWARDS

2021 **Award 3rd place**, The 36th Symposium of Natural Products, Kaohsiung, Taiwan

2020 **Honorable Mention Award**, The 35th Symposium of Natural Products, Taipei, Taiwan

2019 **Poster Presentation Award**, The 34th Symposium of Natural Products, Taoyuan, Taiwan

2018 **Poster Presentation Award**, 33rd Symposium on Natural Products, Kaohsiung, Taiwan

2018 **Oral Presentation Award**, Annual Symposium of the Pharmaceutical Society of Taiwan, Kaohsiung, Taiwan

2018 **Travel Grant** for International Conference by National Science Council, Taiwan (NTD. 55,000)

2018 **The Honorable Mention Award,** International Cosmetic-Tech Conference & Exhibition, Kaohsiung, Taiwan

2016 **Travel Grant** for International Conference by National Science Council, Taiwan (NTD. 30,000)

RESEARCH GRANTS & FUNDING

2024	Ministry of Health and Welfare	健全中藥製劑類別評估機制 M1307266	NTD 2,000,000 (Sub-Investigator)
2024	Ministry of	探討木樨科植物萃取物透過調節視網膜上皮細	NTD 1,250,000

	Science and Technology	胞及內皮細胞治療眼後部疾病之潛力 NSTC 113-2320-B-037-020	(Co-Principal Investigator) 1 year from 2024
2023	Ministry of Science and Technology	Using Molecular Networking and Bioactive Skeleton Fermentation Approach to Develop Anti-Lymphangiogenesis Agents from Endophytes of Costal Plant NSTC112-2320-B-038-015-MY3	NTD 3,900,000 (**Principal Investigator**) 3 years from 2023
2023	Ministry of Science and Technology	探討具調節利鈉尿胜肽受器-C 之木犀科植物萃取物於治療視網膜循環疾病之潛力 NSTC 112-2320-B-037-008	NTD 1,150,000 (Co-Principal Investigator) 1 year from 2023
2023~ 2024	Ministry of Education	大學社會責任實踐計畫-「以街區經濟為根基之中草藥文化復振與創新」	NTD 3,025,000 (Sub-Investigator)
2023	Ministry of Health and Welfare	處方中之藥材對指標成分移行率之影響因子探討 M1207187	NTD 2,000,000 (Sub-Investigator)
2022	Taipei Medical University	TMU Research Grant TMU110-AE1-B30	NTD 1,000,000 (**Principal Investigator**)

Publications

1. **Ho-Chen Wu**, Ming-Jen Cheng, Chien-Fang Peng, Shyh-Chyun Yang, Hsun-Shuo Chang, Chu-Hung Lin, Chyi-Jia Wang, Ih-Sheng Chen*. Secondary metabolites from the stems of *Engelhardia roxburghiana* and their antitubercular activities. Phytochemistry 2012; 82: 118-127. (SCI) (July)
2. Hsun-Shuo Chang, Chu-Hung Lin, Yi-Shuan Chen, Hui-Chun Wang, Hing-Yuen Chan, Sung-Yuan Hsieh, **Ho-Cheng Wu**, Ming-Jen Cheng*, Gwo-Fang Yuan, Shan-Yu Lin, Yue-Jin Lin, Ih-Sheng Chen*. Secondary metabolites of the endophytic fungus *Lachnum abnorme* from *Ardisia cornudentata*. Int J Mol Sci 2016; 17: 1512. (SCI) (Sep.)

3. Shuen-Shin Yang, Ming-Jen Cheng*, Hing-Yuen Chan, Sung-Yuan Hsieh, **Ho-Cheng Wu**, Gwo-Fang Yuan, Chu-Hung Lin, Hsun-Shuo Chang*, Ih-Sheng Chen*. New secondary metabolites from an endophytic fungus in *Porodaedalea pini*. Rec Nat Prod 2017; 11: 251-257. (SCI) (Feb.)
4. Hsun-Shuo Chang, Yi-Shuan Chen, Ming-Jen Cheng*, **Ho-Cheng Wu**, Hing-Yuen Chan, Sung-Yuan Hsieh, Shuen-Shin Yang, Ih-Sheng Chen, Jih-Jung Chen*. Chemical constituents of the fungus *Mycoleptodiscus* sp. 09F0149. Chem Nat Compd 2018; 54: 396-398. (SCI) (Mar.)
5. Hsun-Shuo Chang*, Chien-Jou Peng, Ming-Jen Cheng*, **Ho-Cheng Wu**, Hing-Yuen Chan, Sung-Yuan Hsieh, Tai-Wei Liu, Gwo-Fang Yuan, Ih-Sheng Chen. Chemical constituents of the endophytic fungus *Phomopsis asparagi* isolated from the plant *Peperomia sui*. Chem Nat Compd 2018; 54: 504-508. (SCI) (May)
6. Chia-Hung Yen*, Hsun-Shuo Chang, Tsai-Hsun Yang, Sheng-Fan Wang, **Ho-Cheng Wu**, Yu-Chang Chen, Kai-Jay Lin, Sheena Wang. High-content screening of a Taiwanese indigenous plant extract library identifies *Syzygium simile* leaf extract as an inhibitor of fatty acid uptake. Int J Mol Sci 2018; 19: 2130; doi:10.3390/ijms19072130. (SCI) (July)
7. Ming-Der Wu*, Ming-Jen Cheng*, Yen-Lin Chen, Hsun-Shuo Chang, Yueh-Hsiung Kuo, Chih-Chuan Lin, **Ho-Cheng Wu**. Chemical constituents from the fungus *Antrodia cinnamomea*. Nat Prod Commun 2019; 1: 129-130. (SCI) (Jan.)
8. Yu-Hsuan Wu, Chin-Kai Tseng, **Ho-Cheng Wu**, Chih-Ku Wei, Chun-Kuang Lin, Ih-Sheng Chen, Hsun-Shuo Chang*, Jin-Ching Lee*. Avocado (*Persea americana*) fruit extract (2*R*,4*R*)-1,2,4-trihydroxyheptadec-16-yne inhibits dengue virus replication via upregulation of NF-κB–dependent induction of antiviral interferon responses. Sci Rep 2019; 9: 423. DOI:10.1038/s41598-018-36714-4. (SCI) (Jan.)
9. Ming-Jen Cheng*, Ming-Der Wu, Hing-Yuen Chan, Hsun-Shuo Chang, **Ho-Cheng Wu**, Jih-Jung Chen*, Gwo-Fang Yuan, Jing-Ru Weng, Chiao-Tang Chang, Hsin-Chuan Lin*. A new azaphilone derivative from the *Monascus kaoliang* fermented rice. Chem Nat Compd 2019; 55: 79-81. (SCI) (Jan.)
10. **Ho-Cheng Wu**, Ming-Jen Cheng*, Ming-Der Wu, Jih-Jung Chen, Yen-Lin Chen, Hsun-Shuo Chang*. Three new constituents from the fungus of *Monascus purpureus* and their anti-inflammatory activity. Phytochem Lett 2019; 31: 242-248. (SCI) (May)
11. Ming-Jen Cheng*, Ming-Der Wu, **Ho-Cheng Wu**, Hing-Yuen Chan, Yen-Lin Chen, Hsun-Shuo Chang, Jih-Jung Chen*, Yueh-Hsiung Kuo*. Benzenoid derivatives and amide constituents of

the *Monascus* sp.-fermented rice. Chem Nat Compd 2019; 55: 787-789. (SCI) (July)

12. Ming-Jen Cheng*, Shuen-Shin Yang, Ming-Der Wu, Hsun-Shuo Chang*, Yueh-Hsiung Kuo, Sung-Yuan Hsieh, Jih-Jung Chen, **Ho-Cheng Wu**. Isolation and structure elucidation of secondary metabolites from an endophytic fungus *Annulohypoxylon ilanense*. Nat Prod Commun 2019: 1-4. (SCI) (Sep.), IF = 0.554, Ranking = 90.4 % (Food Science & Technology)
13. **Ho-Cheng Wu**, Ming-Jen Cheng*, Ming-Der Wu*, Jih-Jung Chen, Yen-Lin Chen, Hsun-Shuo Chang*, Kai-Ping Chen. Secondary metabolites from the fermented rice of the fungus *Monascus purpureus* and their bioactivities. Nat Prod Res 2019; 33: 3541-3550. (SCI) (Online: 2018, Dec.), IF = 1.999, Ranking = 42.3 % (Chemistry, Applied)
14. Ming-Jen Cheng*, **Ho-Cheng Wu**, Ming-Der Wu, Hsun-Shuo Chang*. A new compound from *Monascus floridanus*. Chem Nat Compd 2020; 286-288. (SCI) (Mar.), IF = 0.653, Ranking = 91.2 % (Chemistry, Organic)
15. **Ho-Cheng Wu**, Ming-Jen Cheng, Chia-Hung Yen, Yi-Ming Arthur Chen, Yi-Siao Chen, Ih-Sheng Chen, Hsun-Shuo Chang*. Chemical constituents with GNMT-promoter enhancing and NRF2-reduction activities from Taiwan agarwood *Excoecaria formosana*. Molecules 2020; 25: 1476. (SCI) (Apr.), IF = 3.27, Ranking = 47.8 % (Biochemistry & Molecular Biology)
16. **Ho-Cheng Wu**, Jih-Jung Chen, Ming-Der Wu, Ming-Jen Cheng*, Hsun-Shuo Chang*. Identification of new pigments produced by the fermented rice of the fungus *Monascus pilosus* and their anti-inflammatory activity. Phytochem Lett 2020; 40: 181-187. (SCI)(Apr.), IF = 1.459, Ranking = 53.4 % (Plant Science)
17. Chi-Lung Yang#, **Ho-Cheng Wu**#, Tsong-Long Hwang, Chu-Hung Lin, Yin-Hua Cheng, Chia-Chi Wang, Hung-Lin Kan, Yueh-Hsiung Kuo, Ih-Sheng Chen, Hsun-Shuo Chang*, Ying-Chi Lin*. Anti-inflammatory and antibacterial activity constituents from the stem of *Cinnamomum validinerve*. Molecules 2020; 25: 3382. (SCI) (July) (#**equal contribution**), IF = 3.27, 70/177=39.55% (Chemistry, Multidisciplinary)
18. Shiou-Ling Li, **Ho-Cheng Wu**, Tsong-Long Hwang, Chu-Hung Lin, Shuen-Shin Yang, Hsun-Shuo Chang*. Phytochemical investigation and anti-inflammatory activity of the leaves of *Machilus japonica* var. *kusanoi*. Molecules 2020; 25: 4149. (SCI) (Sep.), IF = 3.27, 70/177=39.55% (Chemistry, Multidisciplinary)
19. Ming-Jen Cheng*, Ming-Der Wu, Jih-Jung Chen*, Chung-Yi Chen, Thanda Aung, **Ho-Cheng Wu**, Hsun-Shuo Chang, Ming-Hung Lai. Compounds from *Monascus sanguineus*. Chem Nat Compd

2021; 57: 545-547. (SCI) (May), IF = 0.809, Ranking = 91.2 % (Chemistry, Organic)

20. **Ho-Cheng Wu**, Yih-Fung Chen, Ming-Jen Cheng, Ming-Der Wu, Yen-Lin Chen, Hsun-Shuo Chang*. Different types of components obtained from *Monascus purpureus* with neuroprotective and anti-inflammatory potentials. Food Funct 2021; 12: 8694-8703 (SCI) (July)

21. **Ho-Cheng Wu,** Yih-Fung Chen, Ming-Jen Cheng, Ming-Der Wu, Yen-Lin Chen, Hsun-Shuo Chang*. Investigations into chemical components from *Monascus purpureus* with photoprotective and anti-melanogenic activities. J Fungi 2021; 7: 619 (SCI) (July)

22. Tzong-Huei Lee, Chin-Lin Hsieh, **Ho-Cheng Wu**, Shih-Wei Wang, Chen-Lin Yu, George Hsiao, Ming-Jen Chen, Wen-Tsong Hsieh, Yueh-Hsiung Kuo*. Anti-lymphangiogenic diterpenes from the bark of *Calocedrus macrolepis*. J Food Drug Anal 2021; 29: 606-621. (SCI) (Dec.) IF = 6.079, Ranking = 8.3 % (Food Science & Technology)

23. Yih-Fung Chen, **Ho-Cheng Wu**, Jia-Min Chang, Horng-Huey Ko, Chu-Hung Lin, Hsun-Shuo Chang*. Chemical investigations and cytotoxic effects of metabolites from *Antrodia camphorata* against human hepatocellular carcinoma cells. Nat Prod Res 2022; 18: 1-11. (SCI) (May), IF = 2.488, Ranking = 52.1 % (Chemistry, applied)

24. Shuen-Shin Yang, Yih-Fung Chen, Horng-Huey Ko, **Ho-Cheng Wu**, Sung-Yuan Hsieh, Ming-Der Wu, Ming-Jen Cheng, Hsun-Shuo Chang*. Undescribed alkyne-geranylcyclohexenetriols from the endophyte *Diaporthe caulivora* 09F0132 and their anti-melanogenic activity. Phytochemistry 2022; 202: 113312. (SCI) (Oct.), IF = 4.004, Ranking = 22.2 % (Plant science)

25. **Ho-Cheng Wu**, Yu-Chang Chen, Chin-Lin Hsieh, George Hsiao, Shih-Wei Wang, Ming-Jen Cheng, Che-Yi Chao, Tzong-Huei Lee, Yueh-Hsiung Kuo*. Chemical constituents and their anti-neuroinflammatory activities from the bark of Taiwan incense cedar, *Calocedrus formosana*. Phytochemistry 2022; 204: 113347 (SCI) (Dec.), IF = 4.004, Ranking = 22.2 % (Plant science)

26. Vo, Thi Thuy Tien, Thao Duy Huynh, Ching-Shuen Wang, Kuei-Hung Lai, Zih-Chan Lin, Wei-Ning Lin, Yuh-Lien Chen, Tzu-Yu Peng, **Ho-Cheng Wu**, I-Ta Lee*. The potential implications of hydrogen sulfide in aging and age-related diseases through the lens of mitohormesis. Antioxidants 2022; 11: 1619. (SCI) (Aug.) (*review*), IF = 7.675, Ranking = 6.3 % (Chemistry, medicinal)

27. Shih-Han Wang, Yi-Siao Chen, Kuei-Hung Lai, Chung-Kuang Lu, Hsun-Shuo Chang, **Ho-Cheng Wu**, Feng-Lin Yen, Lo-Yun Chen, Jin-Ching Lee, Chia-Hung Yen*. Prinsepiae Nux extract

activates NRF2 activity and protects UVB-induced damage in keratinocyte. Antioxidants 2022; 11: 1755. (SCI) (Sep.), IF = 7.675, Ranking = 6.3 % (Chemistry, medicinal)

28. Shuen-Shin Yang, **Ho-Cheng Wu**, Tsong-Long Hwang, Ih-Sheng Chen, Chien-Jung Lin, Ming-Jen Cheng, Hsun-Shuo Chang*. Anti-inflammatory butanolides and lignanoids from the root of *Machilus zuihoensis* var. *mushaensis*. Bioorg Chem 2022; 129: 106166. (SCI) (Dec.), IF = 5.307, Ranking = 14.3 % (Chemistry, organic)

29. Ngoc Bao An Nguyen, Lo-Yun Chen, Mohamed El-Shazly, Bo-Rong Peng, Jui-Hsin Su, **Ho-Cheng Wu**, I-Ta Lee, Kuei-Hung Lai*. Towards sustainable medicinal resources through marine soft coral aquaculture: Insights into the chemical diversity and the biological potential. Mar Drugs 2022; 20: 640. (SCI) (Oct.) (*Review article*), IF = 6.085, Ranking = 15.9 % (Chemistry, medicinal)

30. Mu-Fong Chang, Jia-Lin Chang*, Chih-Yang Cheng, **Ho-Cheng Wu**, Hsun-Shuo Chang, Ming-Jen Cheng*. Structures and absolute configurations of excoecoumarins A and B studied by experimental and theoretical NMR and circular dichroism spectra. J Phys Org Chem 2023; 36: e4465. (SCI) (Nov.), IF = 2.155, Ranking = 60.7 % (Chemistry, orgainc)

31. **Ho-Cheng Wu**, Hsiao-Yang His, George Hsiao, Chia-Hung Yen, Jyh-Yih Leu, Chin-Chung Wu, Szu-Hsing Chang, Shu-Jung Huang, Tzong-Huei Lee*. Chemical constituents and bioactive principles from the Mexican truffle and fermented products of the derived fungus *Ustilago maydis* MZ496986. J Agric Food Chem 2023; 71: 1122-1131. (SCI) (Jan.), IF = 5.895, Ranking = 10.2 % (Agriculture, Multidisciplinary)

32. Nonthaneth Nalinratana, Utid Suriya, Chanyanuch Laprasert, Nakuntwalai Wisidsri, Preeyaporn Poldorn, Thanyada Rungrotmongkol, Wacharee Limpanasitthikul, **Ho-Cheng Wu**, Hsun-Shuo Chang, Chaisak Chansriniyom*. In vitro and in silico studies of 7'',8''-buddlenol D anti-inflammatory lignans from *Carallia brachiata* as p38 MAP kinase inhibitors. Sci Rep 2023; 13: 3558. (SCI) (Mar.) , IF = 4.997, Ranking = 25.7 % (Multidisciplinary Sciences)

33. Ju-Hsin Cheng, **Ho-Cheng Wu**, Chia-Hung Yen, Tsong-Long Hwang, Horng-Huey Ko, Hsun-Shuo Chang*. Chemical constituents with anti-lipid droplet accumulation and anti-inflammatory activity from *Elaeagnus glabra*. Plants 2023; 12: 2943. (SCI) (Aug.)

34. **Ho-Cheng Wu**, Lung-Lin Shiu, Shih-Wei Wang, Chia-Ying Huang, Tzong-Huei Lee, Ping-Jyun Sung, Yueh-Hsiung Kuo*. Anti-lymphangiogenic terpenoids from the heartwood of Taiwan juniper, *Juniperus chinensis* var. *tsukusiensis*. Plants 2023; 12: 3828. (SCI) (Nov.), IF = 4.5,

Ranking = 43/239 (18.0 %; Plant Science)

35. Yuen-Sing Lee, **Ho-Cheng Wu**, Shu-Jung Huang, George Hsiao, Wei-Chiung Chi, Tzong-Huei Lee. Anti-inflammatory constituents from a sea anemone-derived fungus *Arthrinium arundinis* MA30. Phytochemistry 2024; 219: 113998. (SCI) (Mar.), IF = 3.2, Ranking = 78/265 (29.3 %; Plant Science))

COMMUNICATION & PRESENTATION

1. **Poster**, **Ho-Cheng Wu**, Chia-Hung Yen, Yi-Ming Chen, Ya-Han Chang, Hsun-Shuo Chang*. Development of chemopreventive agents for hepatocellular carcinoma from *Excoecaria formosana* by a glycine *N*-methyltransferase (GNMT) gene expression-oriented screen platform. (2016) 9th Joint Natural Product Conference 2016, Copenhagen, Denmark.
2. **Poster**, **Ho-Cheng Wu**, Chia-Hung Yen, Yi-Ming Chen, Hsun-Shuo Chang*. Development of chemopreventive agents for hepatocellular carcinoma from *Excoecaria formosana*. (2016) Annual Conference of the Pharmatheuical Society of Taiwan 2016, Taipei, Taiwan.
3. **Poster**, **Ho-Cheng Wu**, Jhih-Ting Chen, Yu-Hsuan Fan, Chia-Hung Yen, Yi-Ming Chen, Hsun-Shuo Chang*. Secondary metabolites from *Excoecaria formosana* and their anti-hepatocellular carcinoma activity. (2017) 65th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research 2017, Basel, Switzerland.
4. **Poster**, **Ho-Cheng Wu**, Yu-Han Chang Chien, Chia-Hung Yen, Yi-Ming Chen, Hsun-Shuo Chang*. Chemical constituents and bioactivity from the whole plant of *Excoecaria formosana*. (2017) The First Joint of Pharmaceutical Science 2017, Tainan, Taiwan.
5. **Poster**, Hsun-Shuo Chang*, Hsien-Kai Huang, Kim-Hong Gan, Tian-Lu Cheng, Chu-Hung Lin, **Ho-Cheng Wu**, Ih-Sheng Chen. Chemical constituents of anti-*Escherichia coli* β-glucuronidase activity from the root of *Neolitsea konishii.* (2018) TPST Medicinal Chemistry Symposium 2018, Nantou, Taiwan.
6. **Poster**, **Ho-Cheng Wu**, Ming-Jen Cheng, Chia-Hung Yen, Yi-Ming Chen, Horng-Huey Ko, Ih-Sheng Chen, Hsun-Shuo Chang*. The GNMT promoter for chemoprevention from *Excoecaria formosana*. (2018) International Cosmetic-Tech Conference & Exhibition, Kaohsiung, Taiwan. (**The Honorable Mention Award**)
7. **Poster**, Tsai-Hsun Yang, Hsun-Shuo Chang, **Ho-Cheng Wu**, Yu-Chang Chen, Kai-Jay Lin, Sheena Wang, Chia-Hung Yen*. Identification of *Syzygium simile* leaves extract with anti-hepatic accumulation activity by high-content screening of a Taiwanese indigenous plant extract library. (2018) 33rd Symposium on Natural Products, Kaohsiung, Taiwan.

8. **Oral Presentation, Ho-Cheng Wu**, Ming-Jen Cheng*, Hsun-Shuo Chang*. Chemical constituents and anti-inflammatory activity from *Monascus* sp.-fermented rice. (2018) Annual Symposium of the Pharmaceutical Society of Taiwan, Kaohsiung, Taiwan. (**Oral Presentation Award**)
9. **Poster**, **Ho-Cheng Wu**, Ming-Der Wu*, Ih-Sheng Chen, Gwo-Fang Yuan, Hsun-Shuo Chang*, Ming-Jen Cheng*. Constituents from *Monascus pilosus* BCRC 38072 (V). (2018) 33rd Symposium on Natural Products, Kaohsiung, Taiwan. (**Poster Presentation Award**)
10. **Poster**, **Ho-Cheng Wu**, Tsong-Long Hwang, Ming-Der Wu, Ming-Jen Cheng*, Hsun-Shuo Chang*. Secondary metabolites and anti-inflammatory activity from *Monascus* sp.-fermented rice. (2018) TPST Medicinal Chemistry Symposium, Nantou, Taiwan.
11. **Poster**, **Ho-Cheng Wu**, Chia-Hung Yen, Ming-Der Wu, Ming-Jen Cheng*, Hsun-Shuo Chang*. Azaphilones and monacolins from *Monascus pilosus* BCRC 38144. (2019) The 34th Symposium of Natural Products, Taoyuan, Taiwan. (**Poster Presentation Award**)
12. **Poster**, **Ho-Cheng Wu**, Yih-Fung Chen, Ming-Der Wu, Ming-Jen Cheng*, Hsun-Shuo Chang*. Chemical constituents and their bioactivities from *Monascus purpureus* BCRC 38110. (2020) The 35th Symposium of Natural Products, Taipei, Taiwan. (**Honorable Mention Award**)
13. **Poster**, Shiou-Ling Li, **Ho-Cheng Wu**, Tsong-Long Hwang, Chu-Hung Lin, Shuen-Shin Yang, Hsun-Shuo Chang*. Secondary metabolites from the leaves of *Machilus japonica* var. *kusanoi* and their anti-inflammatory activity. (2021) The 69th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA), online
14. **Poster**, **Ho-Cheng Wu**, Hsiao-Yang Hsi, George Hsiao, Yu-Liang Yang, Ming-Jen Cheng, Jyh-Yih Leu* and Tzong-Huei Lee*. Chemical constituents and their anti-neuroinflammatory activities from an edible corn smut fungus *Ustilago maydis*. (2021) The 36th Symposium of Natural Products, Kaohsiung, Taiwan. (**Award 3rd place**)
15. **Poster**, **Ho-Cheng Wu**, Yih-Fung Chen, Ming-Jen Cheng, Ming-Der Wu, Yen-Lin Chen, Hsun-Shuo Chang. The neuroprotective and anti-inflammatory properties of *Monascus purpureus* BCRC 38110. (2021) The 14th Meeting of the Asia Pacific Federation of Pharmacologists (APFP), Taipei, Taiwan.
16. **Poster**, **Ho-Cheng Wu**, Yih-Fung Chen, Ming-Jen Cheng, Ming-Der Wu, Yen-Lin Chen, Hsun-Shuo Chang. Photoprotective and anti-Melanogenic components from *Monascus purpureus*. (2021) The 14th Meeting of the Asia Pacific Federation of Pharmacologists (APFP), Taipei, Taiwan.

17. **Invited Talk (online)**, From TLC to HPTLC. Summer Program Organized by College Pharmacy, Taipei Medical University, Taipei, Taiwan, July 2022.
18. **Invited Talk**, The role of NMR in drug discovery. NMR Training Course Invited by Agilent, Taipei, Taiwan, November 2022.
19. **Invited Talk (online)**, Discovery of Bioactive Constituents from Natural Products. International Webinar Organized by Politeknik Tiara Bunda, Herbal Medicine, Indonesia, August 2023.
20. **Poster**, Yuan-Wu Shao, Andrea Gu, Tzu-Yu Chiu, **Ho-Cheng Wu**, Fan-Li Lin. Screening of Oleaceae extractant for targeting retinal pigmented epitheliums' pathologic activities. (2023) 112 學年度高雄醫學大學醫學院大專生研究成果展示及口頭發表競賽, Kaohsiung, Taiwan. Sep. 2023.
21. **Poster**, Tzu-Yu Chiu, **Ho-Cheng Wu**, Yuan-Wu Shao, Andrea Gu, Fan-Li Lin. Discovery of Oleaceae extractant in retinal inflammation. (2023) 112 學年度高雄醫學大學醫學院大專生研究成果展示及口頭發表競賽, Kaohsiung, Taiwan. Sep. 2023. (佳作)
22. **Poster**, Andrea Gu, Yih-Fung Chen, Tz-Wei Yeh, Kuei-Hung Lai, **Ho-Cheng Wu***, Tzong-Huei Lee*. Characterization of secondary metabolites from a marine algicolous fungus *Trichoderma harzianum* NTU2180 fermentates by molecular networking approach. (2023) The 38th Symposium of Natural Products, New Taipei City, Taiwan.
23. **Poster**, Wan-Chen Hsu, Ju-Hsin Cheng, **Ho-Cheng Wu**, Horng-Huey Ko*, Hsun-Shuo Chang*. Chemical constituents from the stem of *Plinia cauliflora*. (2023) The 38th Symposium of Natural Products, New Taipei City, Taiwan.
24. **Poster**, Yuan-Wu Shao, Tzu-Yu Chiu, Ho-Cheng Wu, Andrea Gu, Yu-Fan Chuang, Chien-Hsing Lee, Yi-Ching Lo, George Hsiao, Fan-Li Lind*. The extracts of Oleaceae family affect retinal pigment epithelial cell activities. The 38th Symposium of Natural Products, New Taipei City, Taiwan.
25. **Invited Talk**, Exploring the bioactive constituents from medicinal and edible fungi. Invited by The 38th Symposium of Natural Products, New Taipei City, Taiwan, October 2023.
26. **Poster**, Hung-Yi Chen, Shih-Wei Wang, Andrea Gu, **Ho-Cheng Wu***. Molecular networking-driven discovery of OSMAC approach fermentation products of anti-lymphangiogenic eendophytes *Aspergillus niger* ST17. 2024 Teachers and Students Joint Academic Research Symposium in TMU, Taipei, Taiwan.