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Hsun-Shuo Chang Associate Professor
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- **Teaching Courses**

1. Medicinal Botany
2. Experiment of Medicinal Botany
3. Pharmacognosy
4. Experiment of Pharmacognosy
5. Natural Product Chemistry
6. Special Topic of Natural Product Chemistry
7. Special Topic of Medicinal Botany

- **Education**

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|-------------------|--|
| 2009.09 ~ 2011.01 | —Ph.D. in Graduate Institute of Natural Products,
Kaohsiung Medical University |
| 2003.09 ~ 2005.06 | —Master in Graduate Institute of Natural Products,
Kaohsiung Medical University |
| 1999.09 ~ 2003.06 | —Bachelor in School of Pharmacy, Kaohsiung
Medical University |

- **Personal Experiences**

- 2017.08 ~ present —Associate Professor, School of Pharmacy,
Kaohsiung Medical University
- 2014.02 ~ 2017.07 —Assistant Professor, School of Pharmacy, Kaohsiung
Medical University
- 2012.04 ~ 2013.05 —Postdoctoral Fellow, Graduate School of
Pharmaceutical Science, Chiba University, Japan
- 2005.10 ~ 2008.08 —Teaching assistant, School of Pharmacy, Kaohsiung
Medical University

- **Association**

1. The Society of Chinese Natural Medicine
2. The Pharmaceutical Society of Taiwan

- **Research Area**

1. Investigation of chemical constituents and bioactivities from Formosan plants (Bioactivities including antitubercular activity, anticancer, anti-HIV, anti-dengue virus, anti-inflammatory, antioxidant, anti-lipid droplets, Anti-hyperglycemic activity, Anti-b-glucuronidase activity...etc.)
2. Investigation of bioactive constituents from fungi (Antrodia camphorata, Ophiocordyceps sobolifera, Monascus sp. etc. and endophytic fungi from Formosan endemic plant)
3. Analysis of Traditional Chinese Medicine (TCM) and herbal medicine
4. Research and development of herbal health food and food supplement

- **Award**

2016 Excellent Mentor Award in Kaohsiung Medical University (KMU)

2017 Excellent Teaching Award in KMU

Excellent Award of Cooperation with Industry in KMU

Award of Patent Approval

2018 Excellent Teaching Award in KMU

Award of Cooperation with Industry in KMU

Award of Patent Approval

- **Publications**

1. Mohamed H. Abd El-Razeka*, **Hsun-Shuo Chang**, Shiow-Ju Lee, Ian-Lih Tsai, Ih-Sheng Chen. Biphenyls from *Pourthiae lucida*. Biochem. Syst. Ecol. 2007; 35: 248-250.
2. Su-Yen Chang, Ming-Jen Cheng, Yueh-Hsiung Kuo, Shiow-Ju Lee, **Hsun-Shuo Chang**, Ih-Sheng Chen*. Secondary metabolites from the stem bark of *Litsea akoensis* and their cytotoxic activity. Helv. Chim. Acta 2008; 91: 1156-1165.
3. Tzu-Ann Wang, Ming-Jen Cheng, Shiow-Ju Lee, Cheng-Wei Yang, **Hsun-Shuo Chang**, Ih-Sheng Chen*. Secondary metabolites from the leaves of *Litsea lii* var. *nunkao-tahangensis*. Helv. Chim. Acta 2008; 91: 1036-1044.
4. Ming-Jen Cheng, Chuan-Fang Lin, **Hsun-Shuo Chang**, Ih-Sheng Chen*. Chemical constituents from the stem bark of *Zanthoxylum scandens*. J. Chil. Chem. Soc. 2008; 53: 1631-1634.
5. Su-Yen Chang, Ming-Jen Cheng*, Chien-Fang Peng, **Hsun-Shuo Chang**, Ih-Sheng Chen*. Antimycobacterial butanolides from the root of *Lindera akoensis*. Chem. Biodivers. 2008; 5: 2690-2698.
6. Cheng-Hui Yang, Ming-Jen Cheng*, Shiow-Ju Lee, Cheng-Wei Yang, **Hsun-Shuo Chang**, Ih-Sheng Chen*. Secondary metabolites and cytotoxic activities from the stem bark of *Zanthoxylum nitidum*. Chem. Biodivers. 2009; 6: 846-857.
7. Tsao-Jun Su#, **Hsun-Shuo Chang**#, Chien-Fang Peng, Shiow-Ju Lee, Ih-Sheng Chen*. Antitubercular resorcinols and cytotoxic alkyl benzoquinones from *Ardisia kusukuensis*. Taiwan Pharm. J. 2009; 61: 89-105.
8. **Hsun-Shuo Chang**, Yi-Ju Lin, Shiow-Ju Lee, Cheng-Wei Yang, Wei-Yu Lin, Ian-Lih Tsai, Ih-Sheng Chen*. Cytotoxic alkyl benzoquinones and alkyl phenols from *Ardisia virens*. Phytochemistry 2009; 70: 2064-2071.
9. Chun-Ching Chiang, Ming-Jen Cheng, Hung-Yi Huang, **Hsun-Shuo Chang**, Chyi-Jia Wang, Ih-Sheng Chen*. Prenyl coumarins from *Fatoua pilosa*. J. Nat. Prod. 2010; 73: 1718-1722.
10. Chu-Hung Lin, **Hsun-Shuo Chang**, Chang-Hui Liao, Tai-Hsin Ou, Ih-Sheng Chen, Ian-Lih Tsai*. Anti-inflammatory biphenyls and dibenzofurans from *Rhaphiolepis indica*. J. Nat. Prod. 2010; 73: 1628-1631.
11. **Hsun-Shuo Chang**, Shiow-Ju Lee, Cheng-Wei Yang, Ih-Sheng Chen*. Cytotoxic sesquiterpenes from *Magnolia kachirachirai*. Chem. Biodivers. 2010; 7: 2737-2747.

12. Chun-Po Chang, **Hsun-Shuo Chang**, Chien-Fang Peng, Shiow-Ju Lee, Ih-Sheng Chen*. Antitubercular resorcinol analogs and benzenoid C-glucoside from the roots of *Ardisia cornudentata*. *Planta Med.* 2011; 77: 60-65.
13. **Hsun-Shuo Chang**, Ming-Jen Cheng, Ih-Sheng Chen*. Secondary metabolites from *Magnolia kachirachirai*. *Helv. Chim. Acta* 2011; 94: 703-710.
14. Bi-Jiuan Liou, **Hsun-Shuo Chang**, Guei-Jane Wang, Michael Y. Chiang, Chang-Hui Liao, Chu-Hung Lin, Ih-Sheng Chen*. Secondary metabolites from the leaves of *Neolitsea hiranensis* and the anti-inflammatory activity of some of them. *Phytochemistry* 2011; 72: 415-422.
15. Chia-Yuan Liu, **Hsun-Shuo Chang**, Ih-Sheng Chen, Chih-Jen Chen, Ming-Ling Hsu, Shu-Ling Fu*, Yu-Jen Chen*. Costunolide causes mitotic arrest and enhances radiosensitivity in human hepatocellular carcinoma cells. *Radiat. Oncol.* 2011; 6: 56-63.
16. Yun-Ting Huang, **Hsun-Shuo Chang**, Guei-Jane Wang, Ming-Jen Cheng, Chu-Huang Chen, Yi-Jen Yang, Ih-Sheng Chen*. Anti-inflammatory endiandric acid analogues from the roots of *Beilschmiedia tsangii*. *J. Nat. Prod.* 2011; 74: 1875-1880.
17. Su-Ling Wong, **Hsun-Shuo Chang**, Guei-Jane Wang, Michael Y. Chiang, Hung-Yi Huang, Chu-Huang Chen, Shiow-Chwen Tsai, Chu-Hung Lin, Ih-Sheng Chen*. Secondary metabolites from the roots of *Neolitsea daibuensis* and their antiinflammatory activity. *J. Nat. Prod.* 2011; 74: 2489-2496.
18. Yu-Chieh Chien, Chu-Hung Lin, Michael Y. Chiang, **Hsun-Shuo Chang**, Chang-Hui Liao, Ih-Sheng Chen, Chien-Fang Peng, Ian-Lih Tsai*. Secondary metabolites from the root of *Ehretia longiflora* and their biological activities. *Phytochemistry* 2012; 80: 50-57.
19. 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.
20. Yun-Ting Huang[#], **Hsun-Shuo Chang**[#], Guei-Jane Wang, Chu-Hung Lin, Ih-Sheng Chen*. Secondary metabolites from the roots of *Beilschmiedia tsangii* and their anti-inflammatory activities. *Int. J. Mol. Sci.* 2012; 13: 16430-16443.
21. Ying-Chen Lu[#], **Hsun-Shuo Chang**[#], Chien-Fang Peng, Chu-Hung Lin, Ih-Sheng Chen*. Secondary metabolites from the unripe pulp of *Persea americana* and their antimycobacterial activities. *Food Chem.* 2012; 135: 2904-2909.

22. Chia-Chun Yu, Ping-Jung Wu, Jui-Ling Hsu, Yunn-Fang Ho, Lih-Ching Hsu, Yu-Jia Chang, **Hsun-Shuo Chang**, Ih-Sheng Chen, Jih-Hwa Guh*. Ardisianone, a natural benzoquinone, efficiently induces apoptosis in human hormone-refractory prostate cancers through mitochondrial damage stress and survivin downregulation. *Prostate* 2013; 73: 133-145.
23. Min Tseng, Yung-Shun Su*, Ming-Jen Cheng*, Ta-Wei Liu, Ih-Sheng Chen, Ming-Der Wu, **Hsun-Shuo Chang**, Gwo-Fang Yuan*. Chemical constituents from a soil-derived actinomycete *Actinomadura miaoliensis* BCRC 16873, and their inhibitory activities on lipopolysaccharide-induced tumor necrosis factor production. *Chem. Biodivers.* 2013; 10: 303-312.
24. Ming-Der Wu, Ming-Jen Cheng*, Ih-Sheng Chen*, Yung-Shun Su, Sung-Yuan Hsieh, **Hsun-Shuo Chang**, Chun-Wei Chang, Gwo-Fang Yuan*. Phytochemical investigation of *Annulohypoxylon ilanense*, an endophytic fungus derived from *Cinnamomum* species. *Chem. Biodivers.* 2013; 10: 493-505.
25. **Hsun-Shuo Chang**, Michael Y. Chiang, Hsing-Yu Hsu, Cheng-Wei Yang, Chu-Hung Lin, Shiow-Ju Lee*, Ih-Sheng Chen*. Cytotoxic cardenolide glycosides from the root of *Reevesia formosana*. *Phytochemistry* 2013; 87: 86-95.
26. Chung-Ping Yang, Guan-Jhong Huang, Hui-Chi Huang, Yu-Chang Chen, Chi-I Chang, Sheng-Yang Wang, **Hsun-Shuo Chang**, Yen-Hsueh Tseng, Shih-Chang Chien*, Yueh-Hsiung Kuo*. The effect of the aerial part of *Lindera akoensis* on lipopolysaccharides (LPS)-induced nitric oxide production in RAW264.7 cells. *Int. J. Mol. Sci.* 2013; 14: 9168-9181.
27. Chu-Hung Lin, **Hsun-Shuo Chang**, Hsiang-Ruei Liao, Ih-Sheng Chen, Ian-Lih Tsai*. Triterpenoids from the roots of *Rhaphiolepis indica* var. *tashiroi* and their anti-inflammatory activity. *Int. J. Mol. Sci.* 2013; 14: 8890-8898.
28. Tzong-Huei Lee, Yu-Chang Chen, Ching-Kuo Lee, **Hsun-Shuo Chang**, Ching-Chuan Kuo, Che-Yi Chao, Jing-Jer Lin, Lee-Chiang Lo, Yueh-Hsiung Kuo*. Aconitamide, a novel alkaloid from the roots of *Aconitum carmichaelii*. *Nat. Prod. Commun.* 2013; 8: 827-828.
29. Chi-I Chang, Yen-Cheng Li, Ching-Chuan Kuo, Che-Yi Chao, **Hsun-Shuo Chang**, Jyh-Horng Wu, Sheng-Yang Wang, Yueh-Hsiung Kuo*. Two new lignans from the wood of *Cunninghamia konishii*. *Nat. Prod. Commun.* 2013; 8: 805-806.
30. Si Chen, Hung-Yi Huang, Ming-Jen Cheng, Chin-Chung Wu, Tsutomu Ishikawa, Chien-Fang Peng, **Hsun-Shuo Chang**, Chyi-Jia Wang, Su-Ling Wong, Ih-Sheng

- Chen*. Neolignans and phenylpropanoids from the roots of *Piper taiwanense* and their antiplatelet and antitubercular activities. *Phytochemistry* 2013; 93: 203-209.
31. She-Hung Chan, Wohn-Jenn Leu, Lih-Ching Hsu, **Hsun-Shuo Chang**, Tsong-Long Hwang, Ih-Sheng Chen, Ching-Shih Chen, Jih-Hwa Guh*. Reevesioside F induces potent and efficient anti-proliferative and apoptotic activities through Na+/K+-ATPase α3 subunit-involved mitochondrial stress and amplification of caspase cascades. *Biochem. Pharmacol.* 2013; 86: 1564-1575.
32. Wohn-Jenn Leu, **Hsun-Shuo Chang**, She-Hung Chan, Jui-Ling Hsu, Chia-Chun Yu, Lih-Ching Hsu, Ih-Sheng Chen, Jih-Hwa Guh*. Reevesioside A, a cardenolide glycoside, induces anticancer activity against human hormone-refractory prostate cancers through suppression of c-myc expression and induction of G1 arrest of the cell cycle. *PLoS One* 2014; 9 (1): e87323.
33. Si Chen, Ming-Jen Cheng*, Chin-Chung Wu, Chien-Fang Peng, Hung-Yi Huang, **Hsun-Shuo Chang**, Chyi-Jia Wang, Ih-Sheng Chen*. Three new phenylpropanoids from the roots of *Piper taiwanense* and their inhibitory activities on platelet aggregation and *Mycobacterium tuberculosis*. *Chem. Biodivers.* 2014; 11: 792-799.
34. Chun-Wei Chang, **Hsun-Shuo Chang**, Ming-Jen Cheng*, Ta-Wei Liu, Sung-Yuan Hsieh, Gwo-Fang Yuan, Ih-Sheng Chen*. Inhibitory effects of constituents of an endophytic fungus *Hypoxyylon investiens* on nitric oxide and interleukin-6 production in RAW264.7 macrophages. *Chem. Biodivers.* 2014; 11: 949-961.
35. Chun-Wei Tung*, Ying-Chi Lin, **Hsun-Shuo Chang**, Chia-Chi Wang, Ih-Sheng Chen, Jhao-Liang Jheng, Jih-Heng Li. TIPdb-3D: the three-dimensional structure database of phytochemicals from Taiwan indigenous plants. *Database* 2014: 1-5.
36. Yue-Zhi Lee, Cheng-Wei Yang, Hsin-Yu Chang, Hsing-Yu Hsu, Ih-Sheng Chen, **Hsun-Shuo Chang**, Chih-Hao Lee, Jinq-chyi Lee, Chidambaram Ramesh Kumar, Ya-Qi Qiu, Yu-Sheng Chao, Shiow-Ju Lee*. Discovery of selective inhibitors of glutaminase-2, which inhibit mTORC1, activate autophagy and inhibit proliferation in cancer cells. *Oncotarget* 2014; 5: 6087-6101.
37. Ya-Chih Ting, Horng-Huey Ko, Hui-Chun Wang, Chien-Fang Peng, **Hsun-Shuo Chang**, Pei-Chen Hsieh, Ih-Sheng Chen*. Biological evaluation of secondary metabolites from the roots of *Myrica adenophora*. *Phytochemistry* 2014; 103: 89-98.
38. H. Abd. Mohamed, Chin-Lin Hsieh, Chin Hsu, Ching-Chuan Kuo, **Hsun-Shuo Chang**, Ching-Kuo Lee, Tzon-Huei Lee, Jin-Bin Wu, Chi-I Chang*, Yueh-Hsiung Kuo*. Two new acidic diterpenoids from the heartwood of *Pinus massoniana* Lamb. *Helv. Chim.*

Acta. 2014; 97: 1146-1151.

39. Chi-I Chang, Yen-Cheng Li, Che-Yi Chao, Sheng-Yang Wang, **Hsun-Shuo Chang**, Louis Kuoping Chao, Chang Syun Yang, Yueh-Hsiung Kuo*. Two new labdane-type diterpenes from the wood of *Cunninghamia konishii*. Nat. Prod. Commun. 2014; 9: 1127-1128.
40. Ming-Jen Cheng*, Yen-Chen Cheng, Ming-Tsuen Hsieh, Ih-Sheng Chen, Min Tseng, Gwo-Fang Yuan, **Hsun-Shuo Chang**. Chemical constituents of metabolites produced by the Actinomycete *Acrocarpospora punica*. Chem. Nat. Compd. 2014; 50: 606-610.
41. Hurng-Wern Huang, Yi-An Chung, **Hsun-Shuo Chang**, Jen-Yang Tang, Ih-Sheng Chen, Hsueh-Wei Chang*. Antiproliferative effects of methanolic extracts of *Cryptocarya concinna* Hance roots on oral cancer Ca9-22 and CAL 27 cell lines involving apoptosis, ROS induction, and mitochondrial depolarization. Sci. World J. 2014; 180462. (10 pages)
42. Masato Takahashi, Noriyuki Suzuki, Tsutomu Ishikawa*, Hung-Yi Huang, **Hsun-Shuo Chang**, Ih-Sheng Chen*. Unprecedented 8,9'-neolignans: enantioselective synthesis of possible stereoisomers for structural determination. J. Nat. Prod. 2014; 77: 2585-2589.
43. Nai-Wen Fan, **Hsun-Shuo Chang**, Ming-Jen Cheng, Sung-Yuan Hsieh, Ta-Wei Liu, Gwo-Fang Yuan*, Ih-Sheng Chen*. Secondary metabolites from the endophytic fungus *Xylaria cubensis*. Helv. Chim. Acta. 2014; 97(12): 1689-1699.
44. Tzong-Huei Lee, Chien-Chih Chen, Jih-Jung Chen, Hui-Fen Liao, **Hsun-Shuo Chang**, Ping-Jyun Sung, Mei-Hwei Tseng, Sheng-Yang Wang, Horng-Huey Ko, Yueh-Hsiung Kuo*. New and cytotoxic components from *Antrodia camphorata*. Molecules 2014; 19: 21378-21385.
45. Chi-I Chang, Yen-Cheng Li, Chang-Syan Yang, Che-Yi Chao, Yi-Jen Li, **Hsun-Shuo Chang**, Ching-Jeng Huang, Ching-Chuan Kuo, Yueh-Hsiung Kuo*. Two new labdane-type diterpene acids from the wood of *Cunninghamia konishii*. Helv. Chim. Acta 2015; 98(1): 123-127.
46. Chun-Wei Chang, **Hsun-Shuo Chang**, Ming-Jen Cheng*, Chien-Fang Peng, Ih-Sheng Chen*. Identification of five new minor constituents from the whole plant of *Amischotolype hispida*. Helv. Chim. Acta 2015; 98(3): 347-358.
47. Ya-Ling Hou, **Hsun-Shuo Chang**, Hui-Chun Wang, Sheng-Yang Wang, Tze-Ying Chen, Chu-Hung Lin, Ih-Sheng Chen*. Sassarandainol: a new neolignan and anti-inflammatory constituents from the stem of *Sassafras randaiense*. Nat. Prod. Res. 2015; 29(9): 827-832.

48. Tzong-Huei Lee, Ming-Shian Lee, Horng-Huey Ko, Jih-Jung Chen, **Hsun-Shuo Chang**, Mei-Hwei Tseng, Sheng-Yang Wang, Chien-Chih Chen, Yueh-Hsiung Kuo*. New furanone and sesquiterpene from the pericarp of *Calocedrus formosana*. *Nat. Prod. Commun.* 2015; 10: 845-846.
49. Jui-Ling Hsu, Fan-Lun Liu, Lih-Ching Hsu, **Hsun-Shuo Chang**, Wohn-Jenn Leu, Chia-Chun Yu, Wei-Ling Chang, Ih-Sheng Chen, Fan-Lu Kung*, Jih-Hwa Guh*. *Epi*-reevesioside F inhibits Na+/K+-ATPase, causing cytosolic acidification, Bak activation and apoptosis in glioblastoma. *Oncotarget* 2015; 6: 24032-24046.
50. Shan-Yu Lin, Horng-Huey Ko, Shiow-Ju Lee, **Hsun-Shuo Chang***, Chu-Hung Lin, Ih-Sheng Chen*. Biological evaluation of secondary metabolites from the root of *Machilus obovatifolia*. *Chem. Biodivers.* 2015; 12: 1057-1067.
51. Yi-Shuan Chen, Ming-Jen Cheng*, Yi Hsiao, Hing-Yuen Chan, Sung-Yuan Hsieh, Chun-Wei Chang, Ta-Wei Liu, **Hsun-Shuo Chang***, Ih-Sheng Chen*. Chemical constituents of the endophytic fungus *Hypoxylon* sp. 12F0687. Isolated from Taiwanese *Ilex formosana*. *Helv. Chim. Acta* 2015; 98(8): 1167–1176.
52. Yi Hsiao, Ming-Jen Cheng*, **Hsun-Shuo Chang***, Ming-Der Wu, Sung-Yuan Hsieh, Ta-Wei Liu, Chu-Hung Lin, Gwo-Fang Yuan, Ih-Sheng Chen*. Six new metabolites produced by *Colletotrichum aotearoa* 09F0161, an endophytic fungus isolated from *Bredia oldhamii*. *Nat. Prod. Res.* 2016; 30(3): 251-258.
53. Yi Hsiao, **Hsun-Shuo Chang**, Ta-Wei Liu, Sung-Yuan Hsieh, Gwo-Fang Yuan, Ming-Jen Cheng*, Ih-Sheng Chen*. Secondary metabolites and bioactivity of the endophytic fungus *Phomopsis theicola* from Taiwanese endemic plant. *Rec. Nat. Prod.* 2016; 10: 189-194.
54. **Hsun-Shuo Chang**[#], Jen-Yang Tang[#], Ching-Yu Yen, Hurng-Wern Huang, Chang-Yi, Wu, Yi-An Chung, Ih-Sheng Chen, Ming-Yii Huang*, Hsueh-Wei Chang*. Antiproliferation of *Cryptocarya concinna*-derived cryptocaryone against oral cancer cells involving apoptosis, oxidative stress, and DNA damage. *BMC Complement. Altern. Med.* 2016; 16(1): 94. 10 pages.
55. **Hsun-Shuo Chang**, Ih-Sheng Chen*. Chemical constituents and bioactivities of Formosan lauraceous plants. *J. Food Drug Anal.* 2016; 24: 247-263.
56. Chi-I Chang, Chien-Chih Chen, Che-Yi Chao, Sheng-Yang Wang, **Hsun-Shuo Chang**, Ping-Jyun Sung, Guan-Jhong Huang, Yen-Cheng Li, Yueh-Hsiung Kuo*. Sesquiterpenoids and diterpenoids from the wood of *Cunninghamia konishii* and their inhibitory activities against NO production. *Molecules* 2016; 21(4): 490.

57. Cheng-I Huang, **Hsun-Shuo Chang**, Chu-Hung Lin, Ih-Sheng Chen*. Terpene alkaloid glucosides and apocarotenoids from *Symplocos anomala*. *Chem. Nat. Compd.* 2016; 52(3): 560-563.
58. Hsueh-Wei Chang, Jen-Yang Tang, Ching-Yu Yen, **Hsun-Shuo Chang**, Hurng-Wern Huang, Yi-An Chung, Ih-Sheng Chen, Ming-Yii Huang*. Synergistic anti-oral cancer effects of UVC and methanolic extracts of *Cryptocarya concinna* roots via apoptosis, oxidative stress and DNA damage. *Int. J. Radiat. Biol.* 2016; 92(5): 263-272.
59. Nai-Wen Fan, **Hsun-Shuo Chang**, Ming-Jen Cheng*, Hing-Yuen Chan, Sung-Yuan Hsieh, Ta-Wei Liu, Sheng-Wen Chen, Gwo-Fang Yuan, Ih-Sheng Chen*. New metabolites from the endophytic fungus *Mollisia* sp.. *Chem. Nat. Compd.* 2016; 52(4): 585-590.
60. **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(9): 1512. (12 pages)
61. Pei-Yu Hsiao, Shiow-Ju Lee, Ih-Sheng Chen, Hsing-Yu Hsu, **Hsun-Shuo Chang***. Cytotoxic cardenolides and sesquiterpenoids from the fruits of *Reevesia formosana*. *Phytochemistry* 2016; 130: 282-290.
62. Yi-Shuan Chen, **Hsun-Shuo Chang***, Ming-Jen Cheng*, Hing-Yuen Chan, Ming-Der Wu, Sung-Yuan Hsieh, Hui-Chun Wang, Ih-Sheng Chen*. New chemical constituents from the endophytic fungus *Xylaria papulicola* cultivated on Taiwanese *Lepidagathis stenophylla*. *Rec. Nat. Prod.* 2016; 10(6): 735-743.
63. Yin-Hua Cheng, Ih-Sheng Chen, Ying-Chi Lin, Chun-Wei Tung, **Hsun-Shuo Chang**, Chia-Chi Wang*. Attenuation of antigen-specific T helper 1 immunity by *Neolitsea hiiranensis* and its derived terpenoids. *PeerJ* 2016; 4: e2758. (27 pages)
64. Chi-I Chang, Chien-Chih Chen, Sheng-Yang Wang, **Hsun-Shuo Chang**, Louis Kuoping Chao, Jih-Jung Chen, Cheng-Chi Chen, Yueh-Hsiung Kuo*. Three new abietane-type diterpenes from the bark of *Cryptomeria japonica*. *Phytochem. Lett.* 2017; 19; 46-49.
65. **Hsun-Shuo Chang**, Chu-Hung Lin, Pei-Yu Hsiao, Hung-Ti Peng, Shiow-Ju Lee, Ming-Jen Cheng, Ih-Sheng Chen*. Bioactive composition of *Reevesia formosana* root and stem with cytotoxic activity potential. *RSC Adv.* 2017; 7: 27040-27047.
66. 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(3): 251-257.
67. Ming-Jen Cheng*, Ming-Der Wu, Yen-Chen Cheng, Jih-Jung Chen*, Hing-Yuen Chan, **Hsun-Shuo Chang**, Yueh-Hsiung Kuo, Gwo-Fang Yuan. Secondary metabolite from the fungal strain *Monascus pilosus*. Chem. Nat. Compd. 2017; 53(5): 874-876.
68. Cheng-Wei Yang, Hsin-Yu Chang, Hsing-Yu Hsu, Yue-Zhi Lee, **Hsun-Shuo Chang**, Ih-Sheng Chen, Shiow-Ju Lee*. Identification of anti-viral activity of the cardenolides, Na⁺/K⁺-ATPase inhibitors, against porcine transmissible gastroenteritis virus. Toxicol. Appl. Pharmacol. 2017; 332: 129-137.
69. Chi-I Chang, Chien-Chih Chen, Che-Yi Chao, Horng-Huey Ko, **Hsun-Shuo Chang**, Sheng-Yang Wang, Jih-Jung Chen, Cheng-Chi Chen, Yueh-Hsiung Kuo*. Two new abietane-type diterpenes from the bark of *Cryptomeria japonica*. Nat. Prod. Commun. 2017; 12(10): 1553-1555.
70. Chi-I Chang, Sheng-Yang Wang, Ming-Der Wu, Ming-Jen Cheng, Horng-Huey Ko, **Hsun-Shuo Chang**, Jih-Jung Chen, Cheng-Chi Chen, Yueh-Hsiung Kuo*. Two new sesquarterpenoids from the bark of *Cryptomeria japonica*. Phytochem. Lett. 2017; 22: 56-60.
71. **Hsun-Shuo Chang**, Ming-Jen Cheng*, Ming-Der Wu, Hing-Yuen Chan, Sung-Yuan Hsieh, Chu-Hung Lin, Yi-Jen Yech, Ih-Sheng Chen*. Secondary metabolites produced by an endophytic fungus *Cordyceps ninchukispora* from the seeds of *Beilschmiedia erythrophloia* Hayata. Phytochem. Lett. 2017; 22: 179-184.
72. **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(2): 396-398.
73. 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(7): 2130.
74. **Hsun-Shuo Chang**, Chien-Jou Peng, Ming-Jen Cheng*, Ho-Cheng Wu, Hing-Yuen Chan, Sung-Yuan Hsieh, 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(3): 504-508.

75. Ming-Jen Cheng*, Ming-Der Wu, Hing-Yuen Chan, Sung-Yuan Hsieh, Jih-Jung Chen*,
Hsun-Shuo Chang, Yueh-Hsiung Kuo, Gwo-Fang Yuan, Ih-Sheng Chen. A new
benzenoid derivative from an endophytic fungus in *Peperomia sui*. Chem. Nat. Compd.
2018; 54(4): 625-627.