

CMU Faculty Profile

Chi-Rei WU

Associate Professor, Department of Chinese Pharmaceutical Sciences and Chinese Medicine Resources, China Medical University

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Research Interests: Medicinal herbs, Behavioral Pharmacology, Neurodegeneration, Neurotransmitters, Neuroscience, Diabetes, Inflammation

Appointments:

- 1997-2000: Postdoctoral fellow: Graduate Institute of Chinese Pharmaceutical Sciences, China Medical University
- 2000-2011: Assistant Professor: Graduate Institute of Chinese Pharmaceutical Sciences, China Medical University
- 2011-present: Associate Professor: Department of Chinese Pharmaceutical Sciences and Chinese Medicine Resources, China Medical University

Research Interests:

The research themes in my lab are in neurodegenerative disorders such as Alzheimer's disease, Parkinson's disease and stroke.

Representative Publications:

[Antitussive, anti-pyretic and toxicological evaluation of Ma-Xing-Gan-Shi-Tang in rodents.](#) Lin YC, Chang CW, **Wu CR***. BMC Complementary and Alternative Medicines 2016; 16(1):456.

[Lupeol and Its Role in Chronic Diseases.](#) Tsai FS, Lin LW, **Wu CR***. Advances in Experimental Medicine and Biology 2016; 929: 145-175.

[p-Hydroxybenzyl alcohol, an active phenolic ingredient of Gastrodia elata, reverses the cycloheximide-induced memory deficit through activating adrenal gland in rats.](#) Wu LY, Chen WC, Tsai FS, Tsai CC, **Wu CR***, Lin LW*. The American Journal of Chinese Medicine 2015; 43(8):1593-604.

[Ferulic acid reverses the cognitive dysfunction caused by amyloid \$\beta\$ peptide 1-40 through antioxidant activity and cholinergic activation in rats.](#) Tsai FS, Wu LY, Yang SE, Cheng HY, Tsai CC, **Wu CR***, Lin LW*. The American Journal of Chinese Medicine 2015; 43(2): 319-335.

[Anti-nociceptive, anti-inflammatory and toxicological evaluation of Fang-Ji-Huang-Qi-Tang in rodents.](#) Lin YC, Chang CW, **Wu CR***. BMC Complementary and Alternative Medicines. 2015; 15:10.

[Carnosic acid protects against 6-hydroxydopamine-induced neurotoxicity in in vivo and in vitro model of Parkinson's disease: Involvement of antioxidative enzymes induction.](#) **Wu CR***, Tsai CW, Chang SW, Lin CY, Huang LC, Tsai CW. Chemo-Biological Interactions. 2015; 225:40-46.

[Protective effects of Drynaria fortunei against 6-hydroxydopamine-induced oxidative damage in B35 cells via the PI3K/AKT pathway.](#) Kuo HC, Chang HC, Lan WC, Tsai FS, Liao JC, **Wu CR***. Food & Function 2014; 5:1956-1965.

[Reversal by Cistanche tubulosa from behavioral deficits in Alzheimer's disease-like rat model: relevance for amyloid deposition and central neurotransmitter function.](#) **Wu CR***, Su MH, Lin HC. BMC Complementary and Alternative Medicines 2014; 14:202.

Associate Professor: Department of Chinese Pharmaceutical Science and Chinese Medicine Resources, CMU

Ph.D., Graduate Institute of Biotechnology, National Chung Hsing University (Taiwan), 2004

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Research Interests: Authentication of medicinal herbs, Molecular identification, Bio-process development, Discovery of medicinal herbs on anti-virus & anti-parasite, Plant-microbe interaction.

Academic Distinctions:

Distinguished Teaching Professor, Department of Chinese Pharmaceutical Science and Chinese Medicine Resources, CMU (2016)

Appointments:

2004-2005: Senior Scientist: R&D of Biotechnology, Vedan Company (Taiwan)

2005-2007: Assistant Professor: Department of Biological Science, Meiho University of Science and Technology, Taiwan.

2007-2012: Assistant Professor: Department of Chinese Medicine Resources, CMU

2012- present: Associate Professor: Department of Chinese Pharmaceutical Science and Chinese Medicine Resources, CMU

Research Interests:

The research themes in my lab aim are to establish the molecular assays, for instance, PCR and loop-mediated isothermal amplification (LAMP), for rapid authentication of medicinal herbs on quality control. Other topics such as specific processing development of medicinal herbs, discovery of chemical compound with antiviral and anti-parasite activities from herbs are also be focused. We have combined the in vivo and in vitro biochemical approaches to address the relevant action mechanism during the treatment of medicinal herbs. Several related areas of the research are actively studied in my lab.

Representative Publications:

1. Meng-Shiou Lee*, Ting-Ying Su, Yi-Yang Lien, Shyang-Chwen Sheu* (2017). The development of loop-mediated isothermal amplification (LAMP) assays for the rapid authentication of five forbidden vegetables in strict vegetarian diets. *Scientific Reports* 7:44238.
2. Jung Chao, Yuntao Dai, Hao-Yuan Cheng, Wing Lam, Yung-Chi Cheng, Ke Li, Wen-Huang Peng, Li-Heng Pao, Ming-Tsuen Hsieh, Xue-Mei Qin*, and Meng-Shiou Lee* (2017). Improving the Concentrations of the Active Components in the Herbal Tea Ingredient, *Uraria crinita*: The Effect of Post-harvest Ovendrying Processing. *Scientific Reports* 7:38763.
3. Hsin-Chun Chen, Wen-Te Chang, You-Cheng Hseu, Hsing-Yu Chen, Cheng Hsuan Chuang, Chi-Chen Lin, Meng-Shiou Lee*, and Ming-Kuem Lin* (2016). Immunosuppressive Effect of *Litsea cubeba* L. Essential Oil on Dendritic Cell and Contact Hypersensitivity Responses. *International Journal of Molecular Sciences* 17(8), 1319.
4. Jai-Hong Cheng, Chia-Ling Tsai, Yi-Yang Lien, Meng-Shiou Lee* and Shyang-Chwen Sheu* (2016). High molecular weight of polysaccharides from *Hericium erinaceus* against amyloid beta-induced neurotoxicity. *BMC Complementary and Alternative Medicine* 16:170.

Ming-Kuem Lin

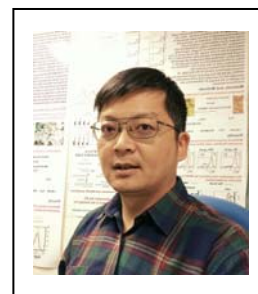
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Research Interests: Immunomodulatory Components. Bioactive compounds in Medicinal Plants

Appointments:

2004-2005: Postdoctoral fellow: Institute of Plant and Microbial Biology, Academia Sinica

2005-2008: Postdoctoral research in Plant Biology of UC Davis, CA, USA

2008-present: Associate Professor of Department of Chinese Pharmaceutical Sciences and Chinese Medicine Resources, CMU

Research Interests:

The major interest of my laboratory is to discover the immunomodulators in Chinese medicinal materials and herbs. As dendritic cells (DCs) act as a key mediator to link innate and adaptive immunity, using DCs as a platform, we attempt to discover novel and effective immunomodulators. Substances which promote DC activation can potentially be applied to cancer immunotherapy; such as the DC-based vaccine, while substances which inhibit DC activation can potentially be used in therapy of chronic inflammation, hypersensitivity response, autoimmunity, and transplantation. Agarwood has high economic value and contains many useful secondary metabolites. The formation of agarwood usually should take several years and the underlying mechanism of the formation still remains unclear. To solve these problems, my laboratory use *Aquilaria agallocha* tissue suspension cells as a platform and systemic biology methods to discover the potential stimulation methods and elucidate the biosynthetic pathways responsible for the volatile compounds production.

Representative Publications:

Hepatoprotective Effect of *Cuscuta campestris* Yunck. Whole Plant on Carbon Tetrachloride Induced Chronic Liver Injury in Mice. WH Peng, YW Chen, MS Lee, WT Chang, JC Tsai, YC Lin, **MK Lin***. *Int. J. Mol. Sci.* 2016 Dec; 17(12), 2056-2067.

Inhibitory Effect of Clove Methanolic Extract and Eugenol on Dendritic Cell Functions. CH Lin, SH Lin, CC Lin, YC Liu, CJ Chen, CL Chu, HC Huang, **MK Lin***. *J. Funct. Foods* 2016 Oct;27(2016):439-447.

Immunosuppressive Effect of *Litsea cubeba* L. Essential Oil on Dendritic Cell and Contact Hypersensitivity Responses. HC Chen, WT Chang, YC Hseu, HY Chen, CH Chuang, CC Lin, MS Lee, **MK Lin***. *Int. J. Mol. Sci.* 2016 Aug;17(8):1319-1330.

Kaempferol from Semen Cuscutae Attenuates the Immune Function of Dendritic Cells. **MK Lin**, YL Yu, KC Chen, WT Chang, MS Lee, MJ Yang, HC Cheng, CH Liu, D Chen, CL Chu*. *Immunobiology* 2011 Oct;216(10):1103-1109.

Analysis of the pumpkin phloem proteome provides functional insights into angiosperm sieve tube function. **MK Lin**, YJ Lee, TJ Lough, BS Phinney, WJ Lucas*. *Mol. Cell. Proteomics* 2009 Feb;8:343-356.

Professor, Department of Chinese Pharmaceutical Sciences and Chinese Medicine Resources, College of Chinese Medicine

Ph.D., Institute of Agricultural Chemistry, National Taiwan University (Taiwan), (1990)

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Specialty:

Pharmacognosy, Natural Products Chemistry, Organic Spectroscopy, Bioorganic Chemistry.

Appointments:

1984-1989: Associate Research Fellow: National Research Institute of Chinese Medicine, Taipei

1989-2015: Research Fellow: National Research Institute of Chinese Medicine, Taipei

1994-1995: Guest Researcher: Department of Chemistry, The Scripps Research Institute, CA, USA

1997-1999: Chief: Division of Chinese Medicinal Chemistry, National Research Institute of Chinese Medicine, Taipei

1999-2003: Chief: Division of Basic Chinese Medicine, National Research Institute of Chinese Medicine, Taipei.

2003-2011: Deputy Director: National Research Institute of Chinese Medicine, Taipei

2004-now : Adjunct Professor, School of Pharmacy, National Taiwan University.

2012-2012: Visiting Scholar, Royal Botanic Gardens (Kew), UK

2015-present: Professor, Department of Chinese Pharmaceutical Sciences and Chinese Medicine Resources, College of Chinese Medicine, CMU

Research Interests:

Three interrelated projects are our current focus: 1) Exploration of bioactive compounds for neurodegenerative diseases and liver fibrosis from Chinese herbs; 2) Development and establishment of standardized quality control platform for Chinese herbs and species discrimination of herbal drugs by metabolomics study; 3) Body constitution and the therapeutic effect of Chinese herbal remedies by metabolomics and proteomics approaches.

Representative Publications:

1. H.J. Chen, C.P. Chung, W. Chiang*, Y.L. Lin*. 2011. Anti-inflammatory effect and chemical study on flavonoids-enriched combination from adlay bran. *Food Chem.* 126(4):1741-1748.
2. T.F. Lee, Y.L. Lin*, Y.T. Huang. 2011. Kaerophyllin inhibits hepatic stellate cell activation by apoptotic bodies from hepatocytes. *Liver International.* 31(5): 618-629.
3. H.J. Chen, Y.C. Shen, C.Y. Lin, K.C. Tsai, C. K. Lu, C. C. Shen, Y. L. Lin*. 2012. Metabolomics study of Buyang Huanwu Decoction in ischemic stroke mice by 1H NMR. *Metabolomics* 8(5): 974-984.
4. H.J. Chen, Y.J. Shiao, K.T. Liou, P. H. Hsieh, C.Y. Lee, Y.R. Chen*, Y.L. Lin*. 2015. Multiplex brain proteomic analysis revealed the difference in molecular therapeutic effects of Buyang Huanwu Decoction on cerebral ischemic stroke mice. *PLoS One.* 2015 Oct 22;10(10):e0140823.
5. I.J. Lee, C.P. Chung, S.J. Chang, Y/L/ Lin*. 2017. Morphological and chemical analyses of Eriocauli Flos sold in Taiwan markets. *J Food Drug Anal.* 25(2): 1-7.

Professor, Department of Chinese Pharmaceutical Sciences and Medicine Resources,
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Consultant, Chinese Crude Drug Pharmacy, China Medical University Hospital

Ph.D. in Pharmacognosy, University of Illinois at Chicago (U.S.A), 1989

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Research Interests: Medicinal Botany, Pharmacognosy, Chinese Materia Medica, Phytochemistry, Quality Control of Crude Drugs, Pharmacology

Appointments:

- 1990-2001: Director: Extension Program Center, China Medical College
- 1993-1999: Head: Chinese Crude Drug Pharmacy, College Hospital, China Medical College
- 1999-2002: Chief Secretary: China Medical College
- 2000-present: Consultant: Chinese Crude Drug Pharmacy, China Medical University Hospital
- 2001-2007: Director: Institute of Chinese Pharmaceutical Sciences, CMU
- 2002-2010: Member: Committee on Chinese Medicine and Pharmacy, Department of Health, Executive Yuan, Taiwan, Republic of China
- 2010-present: Professor: School of Chinese Pharmaceutical Sciences and Medicine Resources, College of Chinese Medicine, CMU
- 2012-present: Member: Scientific Committee of Hong Kong Chinese Materia Medica Standards
- 2014-present: Co-chair: Quality Control Interest Group of GP-TCM RA
- 2015-2016: Dean: International and Public Affairs, CMU
- 2015-2020: Member: USP Herbal Medicine Compendium, East Asia Expert Panel
- 2017-present: Member: EDQM TCM Working Party

Research Interests:

The research areas in my lab aim at the quality control analysis of TCM herbs and herbal preparations including microscopic identification, TLC analysis, HPLC analysis, chemical specification, sulfur dioxide residue, pesticide residue and aflatoxin content. We are actively engaged in the methods development of related analysis in Taiwan Herbal Pharmacopeia, Hong Kong Chinese Materia Medica Standards, USP and European Pharmacopeia.

Representative Publications:

Yang Zhao, Chun-Pin Kao, Chi-Ren Liao, Kun-Chang Wu, Xin Zhou, Yu-Ling Ho and **Yuan-Shiun Chang***: Chemical Compositions, Chromatographic Fingerprints and Antioxidant Activities of Citri Exocarpium Rubrum (Juhong). *BioMed Central Journals*: 12(6), 1-15, 2017. DOI: 10.1186/s13020-017-0127-z

Sheng-Kang Huang, Yu-Ling Ho and **Yuan-Shiun Chang***: Prescriptions of Traditional Chinese Medicine, Western Medicine, and Integrated Chinese-Western Medicine for Allergic Rhinitis under the National Health Insurance in Taiwan. *Journal of Ethnopharmacology*: 173(2015), 212–216, 2015.

Kun-Cheng Li, Yu-Ling Ho, Guan-Jhong Huang and **Yuan-Shiun Chang***: Anti-Oxidative and Anti-Inflammatory Effects of *Lobelia chinensis* in Vitro and in Vivo. *The American Journal of Chinese Medicine*: 43(2), 269–287, 2015.

Chi-Ren Liao, Yueh-Hsiung Kuo, Yu-Ling Ho, Ching-Ying Wang, Chang-Syun Yang, Cheng-Wen Lin and **Yuan-Shiun Chang***: Studies on Cytotoxic Constituents from the Leaves of *Elaeagnus oldhamii* Maxim. in Non-Small Cell Lung Cancer A549 Cells, *Molecules*, 19: 9515-9534, 2014.

Yang Zhao, Chun-Pin Kao, Kun-Chang Wu, Chi-Ren Liao, Yu-Ling Ho* and **Yuan Shiun Chang***: Chemical Compositions, Chromatographic Fingerprints and Antioxidant Activities of Andrographis Herba, *Molecules*, 19(11):18332-18350, 2014.

Guan-Jhong Huang, Jeng-Shyan Deng, Shyh-Shyun Huang, Sheng-Yang Wang, **Yuan-Shiun Chang*** and Yueh-Hsiung Kuo*: Bioassay Guided Isolation and Identification of Anti-inflammatory Active Compounds from the Root of *Ficus formosana*, *Journal of Agricultural And Food Chemistry*, 61(46):11008-11015, 2013.

CMU Faculty Profile

BANG-JAU YOU

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Research Interests: Secondary metabolites biosynthesis, Secondary metabolites production, Signal transduction, Apoptosis, Fungal genetics

Appointments:

2005-2006: Postdoctoral fellow: Department of Plant Pathology, National Chung-Hsing University, Taiwan.

2006-2007: Postdoctoral fellow: Department of Plant Pathology, University of Florida, USA

2007-2013: Assistant Professor: Department of Chinese Pharmaceutical Sciences and Chinese Medicine Resources, CMU

2013-present: Associate Professor: Department of Chinese Pharmaceutical Sciences and Chinese Medicine Resources, CMU

Research Interests:

The major research in my lab focus on identification of important genes and signal molecules which regulate secondary metabolites biosynthesis. The regulatory molecules of secondary metabolites biosynthesis are further applied for secondary metabolites production. We also studied the apoptosis mechanism in fungal and mammalian cell by genetic and pharmacological approach.

Representative Publications:

[Induction of apoptosis and ganoderic acid biosynthesis by cAMP signaling in *Ganoderma lucidum*](#). Bang-Jau You*, Ni Tien, Miin-Huey Lee, Bo-Ying Bao, Yih-Shyuan Wu, Tsung-Chi Hu, and Hong-Zin Lee*. **Scientific Reports** 2017 (accepted).

[The Roles of 4 \$\beta\$ -Hydroxywithanolide E from *Physalis peruviana* on the Nrf2-Anti-Oxidant System and the Cell Cycle in Breast Cancer Cells](#). Peng CY#, You BJ#, Lee CL, Wu YC, Lin WH, Lu TL, Chang FC, Lee HZ* **The American Journal of Chinese Medicine**. 2016 44(3):617-36. doi: 10.1142/S0192415X16500348. (# Equal contribution).

[Non-homologous end joining pathway is the major route of protection against 4b-hydroxywithanolide E-induced DNA damage in MCF-7 cells](#). You BJ, Wu YC, Lee CL, Lee HZ* **Food and Chemical Toxicology**. 2014 65:205-12.

[A novel approach to enhancing ganoderic acid production by *Ganoderma lucidum* using apoptosis induction](#). **PLoS One**. 8(1):e53616. (SCI). Bang-Jau You*, Miin-Huey Lee, Ni Tien, Meng-Shiou Lee, Hui-Chuan Hsieh, Lin-Hsien Tseng, Yu-Lin Chung, and Hong-Zin Lee* **PLoS One**. 2013 8(1):e53616.

[Effect of solid-medium coupled with reactive oxygen species on ganoderic acid biosynthesis and MAP kinase phosphorylation in *Ganoderma lucidum*](#). Bang-Jau You*, Wen-Te Chang, Kuang-Ren Chung, Yueh-Hsiung Kuo, Chang-Syun Yang, Ni Tien, Hui-Chuan Hsieh, Chun-Chien Lai, Hong-Zin Lee* **Food Research International**. 2012 49: 634-640.

Guan-Jhong Huang

Associate Professor, School of Chinese Pharmaceutical Sciences and Chinese
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Research Interests: Anti-inflammation, Cancer and Cell Signaling

Academic Distinctions:

Distinguished Teaching Professor, College of Medicine, CMU (2009)

National Science Council Junior College Student Research Program Research Award (2011)

Technology transfer Award, CMU (2012)

Textbook Award, CMU (2013)

Appointments:

2000-2006: Postdoctoral fellow: Academia Sinica

2006-2009: Assistant Professor: Graduate of Chinese Pharmaceutical Sciences and Chinese
Medicine Resources, CMU

2009-present: Associate Professor: School of Chinese Pharmaceutical Sciences and Chinese
Medicine Resources, CMU

Research Interests:

We have established various disease-relevant biological systems, in vitro, ex vivo, and in vivo, to evaluate the effects of plant extracts and/or phytochemicals by using animal disease models and to investigate potential medical applications. For example, we have established inflammatory cell-based in vivo and in vitro assay systems as well as animal models for inflammatory related disorders, lung cancer, and liver cancer.

Representative Publications:

Evaluation of Antioxidant, Anti-inflammatory and Anti-proliferative activities of ethanol extracts from different varieties of Sanghuang species. W.C. Lin, J.S. Deng, S.S. Huang, S.H. Wu, H.Y., Lin, G.J. Huang. RSC Advances. 2017. 2017, 7, 7780 – 7788..

lobeline improve acute lung injury via Nuclear Factor- κ B-signaling Pathway and Oxidative stress. K.C Li, Y.L. Ho, C.Y. Chen, W.T. Hsieh, Y. S. Chang, G.J. Huang. Respiratory Physiology & Neurobiology 2016, 225:19-30.

Spiranthes sinensis (Pers.) Ames. suppress production of pro-inflammatory mediators through the down-regulation of NF- κ B signaling pathway and up-regulation of HO-1/Nrf2 antioxidant protein. P.H. Shie, S.S. Huang, J.S. Deng, and G.J. Huang. American Journal of Chinese Medicine. 2015, 43(5): 969-987.

G.J. Huang, J.S. Deng, C.C. Chen, C.J. Huang, P.J. Sung, S.S. Huang, Y.H. Kuo. Methanol extract of *Antrodia camphorata* protects against lipopolysaccharide-induced acute lung injury by suppressing NF- κ B and MAPK pathways in mice. *J Agric Food Chem.* 2014, 62, 5321-5329.

Antioxidant and anti-inflammatory properties of Taiwanese Yam (*Dioscorea japonica* Thunb. var. *pseudojaponica* (Hayata) Yamam.) and its reference compounds. C.S. Chiu, J.S. Deng, H.Y. Chang, Y.C. Chen, M.M. Lee, W.C. Hou, C.Y. Lee, S.S. Huang, G.J. Huang. 2013. *Food Chem.* 141, 1087–1096.

HUI-CHI HUANG

Associate Professor, Department of Chinese Pharmaceutical Sciences and
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China Medical University, Taiwan
Ph.D., Kaohsiung Medical University (Taiwan), 2006



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Research Interests:

1. Natural Products Chemistry.
2. Bioactive components of Traditional Chinese Medicine.
3. Isolation, purification, and structural elucidation of natural compounds

Appointments:

2006-2007: Postdoctoral Fellow, National Research Institute of Chinese Medicine, CMU.

2007-2008: Postdoctoral Fellow, Tsuzuki Institute of Traditional medicine, CMU.

2008-2013: Assistant Professor, Department of Chinese Pharmaceutical Sciences and Chinese
Medicine Resources, CMU.

2013-present: Associate Professor, Department of Chinese Pharmaceutical Sciences and Chinese
Medicine Resources, CMU.

Representative Publications:

Huang, H.C., CL Chao, CC Liaw, SY Hwang, YH Kuo, TC Chang, CH Chao, CJ Chen, YH Kuo, Hypoglycemic constituents isolated from *Trapa natans* L. pericarps, *J. Agric. Food Chem.*, 2016;64, 3794-3803

Huang, H.C., SH Chuang, YC Wu, PM Chao, Hypolipidemic function of Hsian-tso tea (*Mesona procumbens* Hemsl.): working mechanisms and active components, *J. Func. Foods.* 2016; 26, 217-277.

Huang, H.C., MK Lin, SL Yang, YC Hseu, CC Liaw, YH Tseng, M Tsuzuki, YH Kuo, Cardenolides and Bufadienolide Glycosides from *Kalanchoe tubiflora* and Evaluation of Cytotoxicity, *Planta Med.*, 2013;79, 1-8.

Huang, H.C., CC Liaw, HL Yang, YC Hseu, HT Kuo, YC Tsai, SC Chien, S Amagaya, YC Chen, YH Kuo, Lanostane triterpenoids and sterols from *Anrodia camphorate*, *Phytochemistry*, 2012, 84, 177-183. S)

Huang, H.C., Wu, M.D., Tsai, W.J., Liao, S.C., Liaw, C.C., Hsu, L.C., Wu, Y.C., Kuo, Y.H., 2008, Triterpenoid saponins from the fruits and galls of *Sapindus mukorossi*, *Phytochemistry*, 69, 1609-1616. (SCI)

Kuo, Y.H., Huang, H.C., Kuo Yang, L.M., Hsu, Y.W., Lee, K.H., Chang, F.R., Wu, Y.C., 2005, New dammarane-type saponins from the galls of *Sapindus mukorossi*, *J. Agric. Food. Chem.*, 53, 4722-4727 (SCI)

Huang, H.C., Liao, S.C., Chang, F.R., Kuo, Y.H., Wu, Y.C., 2003, Molluscicidal saponins from *Sapindus mukorossi*, inhibitory agents of golden apple snails, *Pomacea canaliculata*, *J. Agric. Food. Chem.*, 51, 4916-4919 (SCI)