

Associate Professor, Department of Cosmeceutics, China Medical University

Ph.D., Kaohsiung Medical University (Taiwan), 2009

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**Research Interests:** New drug development of Chinese medicines, Natural products chemistry, NMR, MS and relevant spectra elucidations

**Appointments:**

- 2007-2008: Visiting scholar: Natural Products Research Laboratories, University of North Carolina at Chapel Hill (USA)
- 2009-2010: Postdoctoral fellow: Graduate Institute of Natural Products, Kaohsiung Medical University
- 2010-present: Postdoctoral fellow: Chinese Medicine Research and Development Center, CMUH
- 2011-2012: Assistant Professor: Graduate Institute of Integrated Medicine, CMU
- 2012-2013: Assistant Professor: School of Chinese Medicine, CMU
- 2013-2014: Assistant Professor: School of Pharmacy, CMU
- 2014-2016: Assistant Professor: Department of Cosmeceutics, CMU
- 2017-present: Associate Professor: Department of Cosmeceutics, CMU

**Representative Publications:**

Synthesis and biological evaluation of phenanthrene derivatives as cytotoxic agents with pharmacophore modeling and ChemGPS-NP prediction as topo II inhibitors. **CL Lee**, YT Lin, FR Chang\*, GY Chen, A Backlund, JC Yang, SL Chen, YC Wu\*. *PLoS One* 2012, 7 (5): e37897, page 1–14.

Anti-neutrophilic inflammatory secondary metabolites from the traditional Chinese medicine, Tiankuizi. **CL Lee**, TL Hwang, CY Peng, CJ Chen, YS Chang, YC Wu\*. *Nat. Prod. Commun.* 2012, 7, 1623–1626.

Anti-neutrophilic inflammatory steroidal glycosides from *Solanum torvum*. **CL Lee**, TL Hwang, WJ He, YH Tsai, CT Yen, HF Yen, CJ Chen, WY Chang, YC Wu\*. *Phytochemistry* 2013, 95, 315–321.

Antiplatelet aggregation effects of phenanthrenes from *Calanthe arisanensis*. **CL Lee**, MH Yen, FR Chang, CC Wu, YC Wu\*. *Nat. Prod. Commun.* 2014, 9, 83–84.

Anti-inflammatory spirostanol and furostanol saponins from *Solanum macaonense*. **CL Lee**, TL Hwang, JC Yang, HT Cheng, WJ He, CT Yen, CL Kuo, CJ Chen, WY Chang, YC Wu\*. *J. Nat. Prod.* 2014, 77, 1770–1783.

CLL2-1, a chemical derivative of orchid 1,4-phenanthrenequinones, inhibits human platelet aggregation through thiol modification of calcium-diacylglycerol guanine nucleotide exchange factor-1 (CalDAG-GEFI). CY Liao, **CL Lee**, HC Wang, SS Liang, PH Kung, YC Wu, FR Chang, CC Wu\*. *Free Radic. Bio. Med.* 2015, 78, 101–110.

Anti-inflammatory and cytotoxic compounds from *Solanum macaonense*. **CL Lee**, TL Hwang, CY Peng, CJ Chen, CL Kou, WY Chang, YC Wu\*. *Nat. Prod. Commun.* 2015, 10, 345–348.

## CMU Faculty Profile

Anti-inflammatory and cytotoxic components from *Dichrocephala integrifolia*. **CL Lee**,\* MH Yen, TL Hwang, JC Yang, CY Peng, CJ Chen, WY Chang, YC Wu. *Phyto. Lett.* 2015, 12, 237–242.

Characterization of secondary metabolites from purple *Ipomoea batatas* leaves and their effects on glucose uptake. **CL Lee**, SL Lee, CJ Chen, HC Chen, MC Kao, CH Liu, JY Chen, YT Lai, YC Wu\*. *Molecules* 2016, 21, 745; doi:10.3390/molecules21060745.

Assistant Professor, Department of Cosmeceutics, College of Biopharmaceutical and Food Sciences

Ph.D., Department of Chemical Engineering, National Chung-Hsing University (Taiwan), 2007

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**Research Interests:** Polymer material, Functionalization of nanomaterials, Biomedical material

### Appointments:

2007-2008: Postdoctoral fellow: Department of Chemical Engineering, National Chung Hsing University

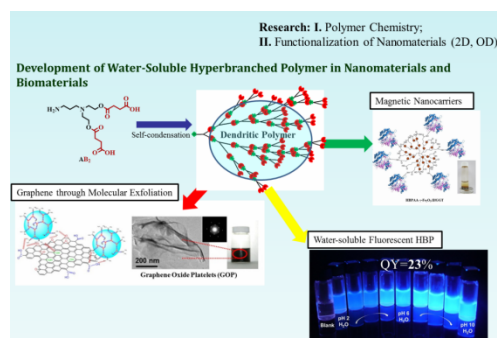
2008-2016: Assistant Professor: Department of Applied Chemistry, National Chiayi University

2016-2016: Adjunct Assistant Professor: Department of Chemical and Materials Engineering, National Yunlin University of Science and Technology

2016- present: Assistant Professor: Department of Cosmeceutics, CMU

### Research Interests:

My research interests is focused on developing water-soluble polymers including dendrimers and hyperbranched polymers, and studying their supramolecular chemistry in solution and the relationship and applications at organic/inorganic interfaces. Potential application areas such as molecular exfoliation for 2D layered graphene and natural clay, fluorescent carrier molecules for container and drug delivery for biomedical applications.



### Representative Publications:

Juang, T. Y.; Hsu, Y. C.; Jiang, B. H.; Chen, C. P., Highly Efficient Inverted Organic Photovoltaics Containing Aliphatic Hyperbranched Polymers as Cathode Modified Layers. *Macromolecules*, **2016**, *49*, 7837.

Juang, T. Y.\*; Kan, S. J.; Chen, Y. Y.; Tsai, Y. L.; Lin, M. G.; Lin, L. L.\* Surface-Functionalized Hyperbranched Poly(amido acid) Magnetic Nanocarriers for Covalent Immobilization of a Bacterial  $\gamma$ -Glutamyltranspeptidase. *Molecules* **2014**, *19*, 4997.

Shiau, S. F.; Juang, T. Y.\*; Chou, H. W.; Liang, M.\* "Synthesis and Properties of New Water-Soluble Aliphatic Hyperbranched Poly(amido acids) with High pH-Dependent Photoluminescence" *Polymer* **2013**, *54*, 623.

Shau, S. M.; Juang, T. Y.\*; Lin, H. S.; Huang, C. L.; Hsieh, C. F.; Wu, J. Y.; Jeng, R. J.\* "Individual Graphene Oxide Platelets Through Direct Molecular Exfoliation With Globular Amphiphilic Hyperbranched Polymers" *Polymer Chemistry*, **2012**, *3*, 1249.

Chen, G. L.; Shau, S. M.; Juang, T. Y.\*; Lee, R. H.\*; Chen, C. P.; Suen, S. Y.; Jeng, R. J.\* "Single-Layered Graphene Oxide Nanosheet/Polyaniline Hybrids Fabricated Through Direct Molecular Exfoliation" *Langmuir*, **2011**, *27*, 14563.

Shau, S. M.; Juang, T. Y.\*; Ting, W. H.; Wu, M. Y.; Dai, S. A.; Jeng, R. J.\* "Exfoliation of Layered Silicates through *In Situ* Controlled Free Radical Polymerization Mediated by a Silicate-Anchored Initiator" *Polymer Chemistry*, **2011**, *2*, 2341.

Juang, T. Y.\*; Chen, Y. C.; Tsai, C. C.; Dai, S. A.; Wu, T. M.; Jeng, R. J.\* "Nanoscale Organic/Inorganic Hybrids Based on Self-Organized Dendritic Macromolecules on Montmorillonites" *Applied Clay Science*, **2010**, *48*, 103.

## CMU Faculty Profile

### YOU-CHENG HSEU

Professor, Department of Cosmeceutics  
College of Biopharmaceutical and Food Sciences

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**Research Interests:** Antioxidants, Anti-inflammation, Wound healing, Herbal Cosmeceutics, UV and Photoaging, Nutritional Biochemistry, Free Radical Biology

#### Academic Distinctions:

Advisor, Department of Medical Research, CMU Hospital (2010-present)  
Visiting Scientist, University of Texas, MD Anderson Cancer Center, USA (2012-2013)  
The Excellent Research Reward of University, Ministry of Science and Technology (2007-2014)  
Dr. Hong-Yen Hsu Academic Award of Chinese Medicine (2012)  
The Outstanding Research Award, China Medical University (2008-2016)  
Outstanding Paper Award, Chinese Society of Cosmetic Surgery and Anti-aging Medicine (2016)  
International Health Professional of the Year (Intl. Biographical Center, Cambridge, England, 2007)  
Marquis Who's Who in Medicine and Healthcare (2006-2007)  
Dr. Hsu Chien-Tien Award, Taiwan (1995)

#### Appointments:

2006-2010: Associate Professor, Department of Cosmeceutics, CMU  
2007-2010: Director, Department of Cosmeceutics, CMU  
2010-present: Professor, Department of Cosmeceutics, CMU

#### Representative Publications:

Yang HL., Tsai YC., Korivi M., Chang CT., **Hseu YC\***. (2017). Lucidone promotes the cutaneous wound healing process via activation of the PI3K/AKT, Wnt/ $\beta$ -catenin and NF- $\kappa$ B signaling pathways. *BBA-Molecular Cell Research*, 1864: 151-168.

**Hseu YC.**, Thiagaraja V., Tsou HT., Lin KY., Chen HJ., Lin CM., Liao JW., Yang HL. (2016). *In vitro* and *in vivo* anti-tumor activity of CoQ0 against melanoma cells: inhibition of metastasis and induction of cell-cycle arrest and apoptosis through modulation of Wnt/ $\beta$ -catenin signaling pathways. *Oncotarget*, 7(16):22409-26.

Yang HL., Lin MW., Korivi M., Wu JJ., Liao CH., Chang CT., Liao JW., **Hseu YC\***. (2016). Coenzyme Q0 regulates NF $\kappa$ B/AP-1 activation and enhances Nrf2 stabilization in attenuation of LPS-induced inflammation and redox imbalance: Evidence from *in vitro* and *in vivo* studies. *BBA-Gene Regulatory Mechanisms*, 1859: 246-261.

**Hseu YC.**, Lo HW., Korivi M., Tsai YC., Tang MJ., Yang HL. (2015). Dermato-protective properties of ergothioneine through induction of Nrf2/ARE-mediated antioxidant genes in UVA-irradiated human keratinocytes. *Free Radical Biology and Medicine*, 86: 102-117.

Yang HL., Korivi M., Lin MW., Chen S.C., Chou C.W., **Hseu Y.C\***. (2015). Antiangiogenic properties of Coenzyme Q<sub>0</sub> through downregulation of MMP-9/NF- $\kappa$ B and upregulation of HO-1 signaling in TNF- $\alpha$ -activated human endothelial cells. *Biochemical Pharmacology*, 98: 144-156.

HL Yang, CS Chen, W H Chang, F J Lu, Y C Lai, C C Chen, T H Hseu, CT Kuo, **YC Hseu\***. (2006) Growth inhibition and induction of apoptosis in MCF-7 breast cancer cells by *Antrodia camphorata*. *Cancer Letters*, 231, 215-227.

## CMU Faculty Profile

### HSIN-CHUN CHEN

Associate Professor, Department of Cosmeceutics, College of Biopharmaceutical and Food Sciences

Ph.D., Department of Horticultural Science, National Taiwan University (Taiwan), 2006

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URL: <http://cmuscc.cmu.edu.tw/english/faculty/Hsiu-Chun%20Chen.html>



**Research Interests:** Chemistry of Flavor and Fragrance, Essential oil, Aromatherapy, Natural product and Processing of Horticultural Products

#### **Academic Distinctions:**

Distinguished Teaching Professor, College of Pharmacy, CMU (2014)

Distinguished Teaching Professor, College of Pharmacy, CMU (2015)

#### **Appointments:**

2007-2011: Assistant Professor: Department of Cosmeceutics, CMU

2014- present: Associate Professor: Department of Cosmeceutics, CMU

#### **Research Interests:**

The research themes in my lab aim to investigate the volatile constituents in different extraction methods of aromatic plants and to evaluate the effect of aromatherapy with essential oil for health care. Flavor and Fragrance Compounding were also studied in my lab.

#### **Representative Publications:**

[Immunosuppressive Effect of \*Litsea cubeba\* L. Essential Oil on Dendritic Cell and Contact Hypersensitivity Responses.](#) Chen HC, Chang WT, Hseu YC, Chen, HY, Chuang, CH, Lin, CC, Lee MS, Lin MK. Int. J. Mol. Sci. 2016, 17, 1319; doi:10.3390/ijms17081319.

[Headspace solid-phase microextraction analysis of volatile components in \*Phalaenopsis Nobby's Pacific Sunset\*.](#) Yeh, CH, Tsai, WY, Chiang, HM, Wu, CS, Lee, YI, Lin LY, Chen HC\*, Molecules 2014, 19, 14080-14093.

[Volatile compounds from roots, stems and leaves of \*Angelica acutiloba\* growing in Taiwan.](#) Chen HC\*, Tsai, YJ, Lin, LY, Wu, CS, Tai, SP, Chen YC, Chiang HM\*. Nat. Prod. Commun. 2014, 9, 1-4.

[Headspace Solid-Phase Microextraction Analysis of Volatile Components in \*Narcissus tazetta\* var. \*chinensis\* Roem.](#) Chen HC\*, Chi, HS, Lin LY, Molecules 2013, 18, 13723-13734.

[Effect of Heat treatments on the Essential Oils of Kumquat \(\*Fortunella margarita\* Swingle\).](#) Peng LW, Sheu MJ, Lin LY, Wu CT, Chiang HM, Lin, WH, Lee MC, Chen HC\*. Food Chem. 2013, 136, 532-537.

[Effects of Hot Water Treatment Effects on the Essential Oils of Calamondin.](#) Chen HC, Peng LW, Sheu MJ, Lin LY, Chiang HM, Wu CT, Wu CS, Chen YC\*. J. Food Drug Anal. 2013, 21(4):363-368.

YUEH-SHENG CHEN

Dean, College of Humanities and Sciences

Ph.D., Iowa State University, 1998

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**Research Interests:**

Biomedical Engineering; Biomaterials; Tissue Engineering; Peripheral Nerve Regeneration

**Appointments:**

- 1998-2002: Assistant professor, Graduate Institute of Chinese Medicine, CMU
- 2002-2005: Associate Professor, Graduate Institute of Chinese Medicine, CMU
- 2005-present: Professor, Graduate Institute of Chinese Medicine, CMU
- 2004-2010: Director, Department of Biomedical Imaging and Radiological Science, CMU
- 2010-2014: Director, Biotechnology Incubation Center, CMU
- 2011-2014: Vice-Dean, College of Health Care, CMU
- 2014-2017: Dean, Academic Affairs, CMU
- 2017-present: Dean, College of Humanities and Sciences, CMU

**Research Interests:**

Regenerative medicine is the process of replacing or regenerating animal cells, tissues, or organs to restore or establish normal function. This field has the potential to solve the problem of the shortage of organs available for donation and of organ transplant rejection. Recently, application of Complementary and Alternative Medicine (CAM) as a means to accelerate the process of regeneration is a new approach. The CAM therapies offer a natural and cost-effective intervention to change the course of chronic disease and may regenerate failing organ systems. The research themes in my lab aim to combine biomaterials and CAM to assist and promote organ regeneration, such as nerve, bone, and skin. Several areas of the research are actively studied in my lab.

**Representative Publications:**

- Effects of taxol on regeneration in a rat sciatic nerve transection model.** Shih-Tien Hsu, Chun-Hsu Yao, Yuan-Man Hsu, Jia-Horng Lin, Yung-Hsiang Chen, Yueh-Sheng Chen. **Sci Rep** 2017;7:42280.
- Improved peripheral nerve regeneration in streptozotocin-induced diabetic rats by oral lumbrokinase.** Han-Chung Lee, Yuan-Man Hsu, Chin-Chuan Tsai, Cherng-Jyh Ke, Chun-Hsu Yao, Yueh-Sheng Chen. **Am J Chin Med** 2015;43(2):215-30.
- Time-course effect of electrical stimulation on nerve regeneration of diabetic rats.** Yu-Ching Lin, Chia-Hong Kao, Chung-Chia Chen, Cherng-Jyh Ke, Chun-Hsu Yao, Yueh-Sheng Chen. **PLoS One** 2015;10(2):e0116711.
- Current-modulated electrical stimulation as a treatment for peripheral nerve regeneration in diabetic rats.** Yu-Ching Lin, Chia-Hong Kao, Yu-Kai Cheng, Jia-Jin J Chen, Chun-Hsu Yao, Yueh-Sheng Chen. **Restor Neurol Neurosci** 2014;32(3):437-46.
- Timing of applying electrical stimulation is an important factor deciding the success rate and maturity of regenerating rat sciatic nerves.** Chia-Chou Yeh, Yu-Ching Lin, Fuu-Jen Tsai, Chih-Yang Huang, Chun-Hsu Yao, Yueh-Sheng Chen. **Neurorehabil Neural Repair** 2010;24(8):730-5.
- An in vivo evaluation of a biodegradable genipin-cross-linked gelatin peripheral nerve guide conduit material.** Yueh-Sheng Chen, Ju-Ying Chang, Chun-Yuan Cheng, Fuu-Jen Tsai, Chun-Hsu Yao, Bai-Shuan Liu. **Biomaterials** 2005;26(18):3911-8.