

Associate Professor, School of Pharmacy, College of Pharmacy

Ph.D., Kaohsiung Medical University (Taiwan), 2002

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Research Interests: Pharmaceutical science, Dosage design, Quality control of TCM, Pharmaceutical practice (GMP)

Academic Distinctions:

Distinguished Production and research cooperation / technology transfer teacher, CMU (2010)

Distinguished Production and research cooperation / technology transfer teacher, CMU (2011)

Distinguished Production and research cooperation / technology transfer teacher, CMU (2012)

Production and research cooperation special award, CMU (2013)

Distinguished Teaching Professor, College of Pharmacy, CMU (2011)

Appointments:

2006-2012: Assistant Professor: School of Pharmacy, CMU

2012- : Associate Professor: School of Pharmacy, CMU

Representative Publications:

1. Bo P, Lien JC, Chen YY, Yu FS, Lu HF, Yu CS, Chou YC, **Yu CC***, Chung JG*. 2016, Allyl Isothiocyanate Induces Cell Toxicity by Multiple Pathways in Human Breast Cancer Cells. *Am J Chin Med.* 44(2):415-37. doi: 10.1142/S0192415X16500245. (SCI)
2. **Yu CC**, Yang MD, Lin HY, Huang AC, Lin JP, Kuo CL, Liu KC, Liu HC, Yang ST, Chung JG., 2015, Bisdemethoxycurcumin (BDMC) Alters Gene Expression-associated Cell Cycle, Cell Migration and Invasion and Tumor Progression in Human Lung Cancer NCI-H460 Cells. *In Vivo.* 29(6):711-28. (SCI)
3. **Yu CC**, Yang ST, Huang WW, Peng SF, Huang AC, Tang NY, Liu HC, Yang MD, Lai KC, Chung JG., 2015, Bisdemethoxycurcumin induces DNA damage and inhibits DNA repair associated protein expressions in NCI-H460 human lung cancer cells. *Environ Toxicol.* doi: 10.1002/tox.22187. [Epub ahead of print] (SCI)
4. **Yu CC**, Yu JH*, Wu CS, 2014, The Effect of Gel Form Eucalyptol on the Shear Bonding Force of Orthodontic Brackets. *Journal of Dental Sciences*, 9, pp. 388-393 (SCI)
5. **Yu CC**, Ko FY, Yu CS, Lin CC, Huang YP, Yang JS, Lin JP, Chung JG*. 2012, Norcantharidin triggers cell death and DNA damage through S-phase arrest and ROS-modulated apoptotic pathways in TSGH 8301 human urinary bladder carcinoma cells. *Int J Oncol.*;41(3):1050-60 (SCI)

6. Lai KC, Kuoc CL, Ho HC , Yang JS, Ma CY, Lu HF, Huang HY, Chueh FS, **Yu CC**, Chung JG*., 2012, Diallyl sulfide, diallyl disulfide and diallyl trisulfide affect drug resistant gene expression in colo 205 human colon cancer cells in vitro and in vivo. *Phytomedicine*, 19(7):625-30. (SCI)
7. Ji BC, **Yu CC**, Yang ST, Hsia TC, Yang JS, Lai KC, Ko YC, Lin JJ, Lai TY, Chung JG*., 2012, Induction of DNA damage by deguelin is mediated through reducing DNA repair genes in human non-small cell lung cancer NCI-H460 cells. *Oncol Rep.*, 27(4):959-64. doi: 10.3892/or.2012.1622. (SCI)
8. Hsu SC, **Yu CC**, Yang JS, Lai KC, Wu SH, Lin JJ, Kuo JH, Yang ST, Huang CC, Kuo SC, Chung JG*., 2012, A novel synthetic 2-(3-methoxyphenyl)-6,7-methylenedioxyquinolin-4-one arrests the G2/M phase arrest via Cdc25c and induces apoptosis through caspase- and mitochondria-dependent pathways in TSGH8301 human bladder cancer cells. *Int J Oncol.*, 40(3):731-8. (SCI)
9. Ma CY, Ji WT, Chueh FS, Yang JS, Chen PY, **Yu CC**, Chung JG*., 2011, Butein inhibits the migration and invasion of SK-HEP-1 human hepatocarcinoma cells through suppressing the ERK, JNK, p38, and uPA signaling multiple pathways. *J Agric Food Chem.* 59(16):9032-8. Epub 2011 Aug 3. (SCI)

CMU Faculty Profile

Hong-Zin Lee

Professor, School of Pharmacy, China Medical University

Ph.D., School of Pharmacy, China Medical University (Taiwan), 1998

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Email: hong@mail.cmu.edu.tw



Research Interests: Anti-Cancer Mechanisms, Cancer Cell Signalings

Appointments:

1998-2005: Associate Professor, School of Pharmacy, China Medical University

2005-present: Professor, School of Pharmacy, China Medical University

2015-2016: Dean, School of Pharmacy, China Medical University

Representative Publications:

[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. Am J Chin Med. 2016;44(3):617-36.

[Raf/ERK/Nrf2 signaling pathway and MMP-7 expression involvement in the trigonelline-mediated inhibition of hepatocarcinoma cell migration.](#) Liao JC, Lee KT, You BJ, Lee CL, Chang WT, Wu YC, Lee HZ*. Food Nutr Res. 2015 Dec 22;59:29884.

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

[Application of proteomics to identify the target molecules involved in *Lonicera japonica*-induced photokilling in human lung cancer CH27 cells.](#) Liao JC, Chang WT, Lan YH, Hour MJ, Lee HZ*. BMC Complement Altern Med. 2013 Oct 1;13:244.

[Molecular modelling, synthesis, cytotoxicity and anti-tumour mechanisms of 2-aryl-6-substituted quinazolinones as dual-targeted anti-cancer agents.](#) Hour MJ, Lee KH, Chen TL, Lee KT, Zhao Y, Lee HZ*HZ. Br J Pharmacol. 2013 Aug;169(7):1574-86.

[A novel approach to enhancing ganoderic acid production by *Ganoderma lucidum* using apoptosis induction.](#) You BJ, Lee MH, Tien N, Lee MS, Hsieh HC, Tseng LH, Chung YL, Lee HZ*. PLoS One. 2013;8(1):e53616.

[A novel antitubulin agent, DPOZ, induces cell apoptosis in human oral cancer cells through Ras/Raf inhibition and MAP kinases activation.](#) Hour MJ, Lee KT, Wu YC, Wu CY, You BJ, Chen TL, Lee HZ*. Arch Toxicol. 2013 May;87(5):835-46.

CMU Faculty Profile

WEN-CHUAN LIN



Dean, College of Pharmacy
Professor of Pharmacology, Pharmacy School

Ph.D., Chiba University (Japan), 1988

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Research Interests: Functional Food, Osteoporosis, Liver Fibrosis

Appointments:

1995-present: Professor: Department of Pharmacology, CMU

Representative Publications:

Hsiao HB, Lin WC. (2017) (-)-Epicatechin 3-O- β -D-allopyranoside prevent ovariectomy-induced bone loss in mice by suppressing RANKL-induced NF- κ B and NFATc-1 signaling pathways. *BMC Complementary and Alternative Medicine* (in press)

Yang LC, Lai CY, Lin WC. (2017) Natural killer cell-mediated cytotoxicity is increased by a type II arabinogalactan from *Anoectochilus formosanus*. *Carbohydr Polym* 155, 466-474.

Hsiao HB, Hsieh CC, Wu JB, Lin WC. (2016) Kinsenoside inhibits the inflammatory mediator release in a type-II collagen induced arthritis mouse model by regulating T cells response. *BMC Complementary and Alternative Medicine* 16,80.

Lai CY, Yang LC, Lin WC. (2015) Type II arabinogalactan from *Anoectochilus formosanus* induced dendritic cell maturation through TLR2 and TLR4. *Phytomedicine* 22, 1207-1204.

Yang LC, Hsieh CC, Lin WC. (2015) Characterization and immunomodulatory activity of rice hull polysaccharides. *Carbohydr Polym* 124, 150-156.

CMU Faculty Profile

Shiuan-Pey Lin

Assistant Professor, School of Pharmacy, College of Pharmacy

Ph.D., Graduate Institute of Pharmaceutical Chemistry (Taiwan), 2009

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Research Interests: Pharmaceutics, Pharmacokinetics

Appointments:

2009-2012: Postdoctoral fellow: School of Pharmacy, CMU

2013-present: Assistant Professor: School of Pharmacy, CMU

Research Interests:

The study categories of our lab including pharmaceutics and pharmacokinetics, *in-vitro* and *in-vivo* models are employed.

Representative Publications:

[Effects of nonsteroidal anti-inflammatory drugs on the renal excretion of indoxyl sulfate, a nephro-cardiovascular toxin, in rats.](#) Yu CP, Sweet DH, Peng YH, Hsieh YW, Chao PD, Hou YC, Lin SP*. **Eur J Pharm Sci.** 2017 Feb 7;101:66-70.

[Aloe activated P-glycoprotein and CYP 3A: a study on the serum kinetics of aloe and its interaction with cyclosporine in rats.](#) Yang MS, Yu CP, Huang CY, Chao PD, Lin SP*, Hou YC*. **Food Funct.** 2017 Jan 25;8(1):315-322.

[Analysis of the pharmacokinetics and metabolism of aloe-emodin following intravenous and oral administrations in rats.](#) Yu CP, Shia CS, Lin HJ, Hsieh YW, Lin SP*, Hou YC*. **Biomed Chromatogr.** 2016 Oct;30(10):1641-7.

[Rhubarb decreased the systemic exposure of cyclosporine, a probe substrate of P-glycoprotein and CYP 3A.](#) Yu CP, Lin HJ, Lin SP, Shia CS, Chang PH, Hou YC, Hsieh YW*. **Xenobiotica.** 2016 Aug;46(8):677-82.

[Green tea inhibited the elimination of nephro-cardiovascular toxins and deteriorated the renal function in rats with renal failure.](#) Peng YH, Sweet DH, Lin SP, Yu CP, Chao PD, Hou YC*. **Sci Rep.** 2015 Nov 10;5:16226.



Associate Professor, Department of Pharmacy, College of Pharmacy.

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Research Interests: Nuclear receptors, drug metabolizing enzymes, lipid metabolizing enzymes, gene regulation

Appointments:

2007-2010: Postdoctoral fellow: National Cheng Kung University, Taiwan.

2010-2011: Assistant Professor: Graduate Institute of Drug Safety, CMU.

2011-2013: Assistant Professor: Department of Pharmacy, CMU.

2013-present: Associate Professor: Department of Pharmacy, CMU.

2010-2016: Research Fellow: Department of Toxicology, CMUH.

2016-present: Research Fellow: Department of Medical Research, CMUH.

Research Interests:

Development of selective and potent ligands of the nuclear receptors has gained towards clinical applications for nuclear receptors modulators on drug safety and metabolic disorders. The research goals in my lab aim to explore the clinical used drugs and natural products important for modulation on nuclear receptors signaling and transcriptional control on drug metabolizing enzymes, and lipid homeostasis-related enzymes.

Representative Publications:

[Association between antiepileptic drugs and hepatocellular carcinoma in patients with epilepsy: a population-based case-control study.](#) Hung DZ, Lin CL, Li YW, Lin YN, Lee YR, Wang CN, Chen JJ, **Lim YP***. Brain Behav. 2016 Sep 12; 6(11): e00554.

[Increased risk of chronic osteomyelitis after hip replacement: a retrospective population-based cohort study in an Asian population.](#) Hung DZ, Tien N, Lin CL, Lee YR, Wang CC, Chen JJ, **Lim YP***. Eur J Clin Microbiol Infect Dis. 2016 Nov 11.

[Tamoxifen treatment and the reduced risk of hyperlipidemia in Asian patients with breast cancer: A population-based cohort study.](#) **Lim YP**, Lin CL, Lin YN, Ma WC, Hung DZ, Kao CH*. Clin Breast Cancer. 2015 Aug; 15(4): 294-300.

[Antiarrhythmic agents and the risk of malignant neoplasm of liver and intrahepatic bile ducts.](#) **Lim YP**, Lin CL, Lin YN, Ma WC, Chen WC, Hung DZ, Kao CH*. PLoS One. 2015 Jan 15; 10(1): e0116960.

[Increased risk of deep vein thrombosis and pulmonary thromboembolism in patients with organophosphate intoxication: a nationwide prospective cohort study.](#) **Lim YP**, Lin CL, Hung DZ, Ma WC, Lin YN, Kao CH*. Medicine (Baltimore). 2015 Jan; 94(1): e341.

[Anti-tuberculosis treatments and risk of hepatocellular carcinoma in tuberculosis patients with liver cirrhosis: a population-based case-control study.](#) **Lim YP**, Lin CL, Hung DZ, Lin YN, Kao CH*. Eur J Clin Microbiol Infect Dis. 2015 Mar; 34(3): 479-85.

[Inhibition of cytochrome P450 2C9 expression and activity in vitro by allyl isothiocyanate.](#) **Lim YP***, Chen WC, Cheng CH, Ma WC, Lin YH, Chen CY, Hung DZ, Chen JJ, Yokoi T, Nakajima M, Chen CJ*. Planta Med. 2014 Aug; 80(13): 1097-106.

[Allyl isothiocyanate \(AITC\) inhibits pregnane X receptor \(PXR\) and constitutive androstane receptor \(CAR\) activation and protects against acetaminophen- and amiodarone-induced cytotoxicity.](#) **Lim YP***, Cheng CH, Chen WC, Chang SY, Hung DZ, Chen JJ, Wan L, Ma WC, Lin YH, Chen CY, Yokoi T, Nakajima M, Chen CJ*. Arch Toxicol. 2015 Jan; 89(1): 57-72.

Associate Professor, School of Pharmacy, College of Pharmacy

Ph.D., Department of Applied Chemistry, National Chiao Tung University, Hsinchu (Taiwan), 1997-2001.

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Research Interests: Carbohydrate Chemistry, Organic Chemistry, Design and synthesis of novel anticancer lead compounds.

Academic Distinctions:

Who's Who in the World 2016 · Marquis Who's Who

Who's Who in the World 2015 · Marquis Who's Who

Appointments:

2002-2006: Postdoctoral fellow: Institute of Biological Chemistry, Academia Sinica, Taipei, Taiwan, R.O.C.

2006-2011: Assistant Professor: Graduate Institute of Pharmaceutical Chemistry, CMU

2011-2014: Associate Professor: Graduate Institute of Pharmaceutical Chemistry, CMU

2014-present: Associate Professor: School of Pharmacy, CMU

Research Interests:

The research themes in my lab aim to design and synthesis of novel anticancer lead compounds and develop a novel *O*- and *C*-glycosylation.

Representative Publications:

[Stereoselective Synthesis of Spiro Bis-C.C- \$\alpha\$ -arylglycosides by Tandem Heck Type C-Glycosylation and Friedel-Crafts Cyclization.](#) Yen-Bo Chen, Shi-Hao Liu, Min-Tsang Hsieh, Chih-Shiang Chang, Chun-Hung Lin, Chen-Yin Chen, Po-Yen Chen, Hui-Chang Lin.* *J. Org. Chem.* **2016**, *81*, 3007-3016.

[Stereoselective glycosylation of D-galactals by diethyl phosphorochloridite- and AlCl₃-assisted Ferrier rearrangement.](#) Yen-Bo Chen, Su-I. Wang, Zi-Ping Lin, Chun-Hung Lin, Min-Tsang Hsieh, [Hui-Chang Lin](#).* *Tetrahedron* **2015**, *71*, 350 – 358.

[Solvent- and Transition Metal Catalyst-Dependent Regioselectivity in the \[3+2\] Cyclocondensation of Trifluoromethyl- \$\alpha,\beta\$ -ynones with Hydrazines: Switchable Access to 3- and 5-Trifluoromethylpyrazoles.](#) Min-Tsang Hsieh,* Sheng-Chu Kuo, and Hui-Chang Lin. *Adv. Synth. Catal.* **2015**, *357*, 683 – 689.

[Regioselective and Reductive Cleavage of Allyl Ethers by NaBH₄-HOAc.](#) Zi-Ping Lin, Fung Fuh Wong, Yen-Bo Chen, Chun-Hung Lin, Min-Tsang Hsieh, Jin-Cherng Lien, Yin-Hsuan Chou, and Hui-Chang Lin.* *Tetrahedron* **2013**, *69*, 3991-3999.

[Synthesis of \$\alpha\$ -2-Deoxy-Ulosides by Michael Addition of Hex-1-en-3-ones.](#) Zi-Ping Lin, Fung Fuh Wong, Yen-Bo Chen, Yu-Cheng Lin, Masayuki Kimura, Kimiyoshi Kaneko, Hiroyuki Takayama, Jin Bin Wu, and Chun-Hung Lin,* and Hui-Chang Lin.* *Tetrahedron* **2013**, *69*, 2494 – 2500.

Yu-Chi Hou

Professor, School of Pharmacy, College of Pharmacy

Ph.D., Institute of Chinese Pharmaceutical Sciences, China Medical University.
(Taiwan)



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URL: <http://pharmacy.cmu.edu.tw/english/faculty.html>

Academic Distinctions:

Distinguished Teaching Professor, China Medical University (2011)

Appointments:

1999/08~2000/07: Postdoctoral Fellow, School of Pharmacy, CMU.

2000/08~2002/01: Assistant Professor, Jen-Teh Junior College of Medicine.

2002/02~2002/07: Assistant Professor, College of Medicine, Chang Gung University.

2002/08~2007/01: Assistant Professor: School of Chinese Medicine, CMU.

2007/02~2009/01: Assistant Professor: School of Pharmacy, CMU.

2009/02~2013/01: Associate Professor: School of Pharmacy, CMU.

2009/12~2010/07: Visiting Scholar: Department of Electrical and Computer Engineering, BYU,
Utah, USA.

2013/02~ present: Professor: School of Pharmacy, CMU.

Research Interests:

The study categories of my lab including Pharmacokinetics, Biopharmaceutics, Drug transporters (ABC transporters) and Drug-Herb / drug-dietary supplement interactions, *in-vitro* and *in-vivo* models are employed.

Representative Publications:

[Aloe activated P-glycoprotein and CYP 3A: a study on the serum kinetics of aloe and its interaction with cyclosporine in rats.](#) Yang MS, Yu CP, Huang CY, Chao PD, Lin SP, **Hou YC***. *Food Funct.* **2017**, 25;8(1):315-322.

[Analysis of the pharmacokinetics and metabolism of aloe-emodin following intravenous and oral administrations in rats.](#) Yu CP, Shia CS, Lin HJ, Hsieh YW, Lin SP, **Hou YC***. *Biomed Chromatogr.* **2016**, 30(10):1641-7.

[Green tea inhibited the elimination of nephro-cardiovascular toxins and deteriorated the renal function in rats with renal failure.](#) Peng YH, Sweet DH, **Lin SP**, Yu CP, Chao PD, **Hou YC***. *Sci Rep.* **2015**, 10;5:16226.

[Potential Modulation on P-glycoprotein and CYP3A by Soymilk and Miso: in vivo and ex-vivo studies.](#) Yu CP, Lin SP, Chi YC, Hariharan P, Chao PD, **Hou YC***. *Food Chemistry.* 2014, 149:25-30.

[Noni increased the systemic exposure of methotrexate in rats through inhibition on multi-drug resistance protein 2 \(MRP 2\) and breast cancer resistance protein \(BCRP\).](#) Hsu PW, Shia CS, Wu CT, Chang NW, Chao PD, **Hou YC***. *Journal of Functional Foods*, 2013, 5:1414-1420.

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Research Interests: Pharmacogenomics, Pharmacology, Multidrug-resistant proteins.

Academic Distinctions:

Distinguished Teaching Professor, College of Pharmacy, CMU (2012).

Appointments:

2008-2012: Assistant Professor: Department of Pharmacy, College of Pharmacy, CMU.

2012-present: Associate Professor: Department of Pharmacy, College of Pharmacy, CMU.

Research Interests:

Our laboratory is a translational medicine research team which connect basic research and clinical study together. The goal of our laboratory is to find the solutions for multidrug-resistant cancers.

Representative Publications:

1. Structure-activity relationship study of novel 2-aminobenzofuran derivatives as P-glycoprotein inhibitors. Chien-Yu Chen, Chin-Min Lina, Hui-Chang Lin, Chien-Fu Huang, Chih-Yu Lee, Tze-Chun Si Tou, Chin-Chuan Hung*, Chih-Shiang Chang*. *European Journal of Medicinal Chemistry* 2017;125:1023-1035.
2. Cordycepin re-sensitizes multidrug resistance cancer cells to chemotherapeutic agents through modulating P-glycoprotein expression and ATPase function. Yu-Ning Teng, Chih-Shiang Chang, Tsui-Er Lee, Chin-Chuan Hung*. *Journal of Functional Foods* 2016;26:681-690.
3. Synthesis and bioevaluation of novel benzodipyrone derivatives as P-glycoprotein inhibitors for multidrug resistance reversal agents. Chien-Yu Chen, Nai-Yu Liu, Hui-Chang Lin, Chih-Yu Lee, Chin-Chuan Hung*, Chih-Shiang Chang*. *European Journal of Medicinal Chemistry* 2016;118:219-29.
4. β -carotene reverses multidrug resistant cancer cells by selectively modulating human P-glycoprotein function. Yu-Ning Teng, Ming-Jyh Sheu, Yow-Wen Hsieh, Ruey-Yun Wang, Yao-Chang Chiang, Chin-Chuan Hung*. *Phytomedicine* 2016;23(3):316-23.
5. Demethoxycurcumin modulates human P-glycoprotein function via uncompetitive inhibition of ATPase hydrolysis activity. Yu-Ning Teng, Yow-Wen Hsieh, Chin-Chuan Hung*, Hui-Yi Lin*. *Journal of Agriculture and Food Chemistry* 2015;63:847-855.

Professor, School of Pharmacy, College of Pharmacy

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Research Interests: Organic Synthesis and Reactions, Medicinal Chemistry, Material Chemistry

Academic Distinctions: N/A

Appointments:

1998-1999: Commissioner: Nan Ya Plastics Corp.

1999-2004: Project manager and Leader Chemist: ScinoPharm, Taiwan, Ltd.

2004-2006: Assistant Researcher: Sustainable Environment Research Center, National Cheng Kung University

2006-2009: Assistant Professor: Graduate Institute of Pharmaceutical Chemistry, CMU

2009-2014: Associate Professor: Graduate Institute of Pharmaceutical Chemistry, CMU

2014-2015: Associate Professor: School of Pharmacy, CMU

2016-present: Professor: School of Pharmacy, CMU

Research Interests:

The research themes in my lab aim to evaluate the new synthetic methods and strategies, evaluate the development of process and synthesize the biologically active compounds and novel organic-materials. Recently, we have developed a series of one-pot tandem organic reactions have attracted great attentions for they can simplify the detection, isolation, and purification of intermediates in the operation procedure and also diminish the manufacture cost and environmental pollution. On the other hand, we also developed the new Vilsmeier-type reaction by studying the reactivity of amide reagents for the preparation of pyrazolone, pyrazole, dipyrazolylmethane, and fused pyrimidine derivatives. Several of products were indicated as the lead drugs. Furthermore, new methods of the 1,3-dipolar reactions to synthesis of 1,2,4-triazoles are actively studied in my lab.

Representative Publications:

Uramaru, N.; Chang, E.-C.; Yen, W.-P.; Yeh, M.-Y.; Juang, S.-H.;* **Wong, F. F.***“Synthesis and evaluation of in vitro bioactivity for polysubstituted N-arylpyrazole derivatives” *Arabian J. Chem.* **2015**, in-press.

Huang, J.-J.; Lu, S.-H.; Chung, Y. H.; **Wong, F. F.**,* “Vilsmeier–Haack reagent-promoted formyloxylation of α -chloro-N-arylacetamides by formamide” *RSC Advances* **2015**, 5, 35934–35939 (SCI Impact Factor = 3.289; Ranking: 48/163).

Lu, S.-H.; Liu, P.-L.; **Wong, F. F.**,* “Vilsmeier reagent mediated synthesis of 6-[(formyloxy)methyl]-pyrazolopyrimidines via one-pot multiple tandem reaction” *RSC Advances* **2015**, 5, 47098–47107.

Lu, S.-H.; Yen, W.-P.; Tsai, H. J.; Chen, C.-S.; **Wong, F. F.*** “Vilsmeier Reagent Initialed Sequential One-pot Multicomponent Synthesis of N,O-Disubstituted Glycolamides as Dipeptidyl peptidase 4 inhibitors;” *Tetrahedron* **2015**, 71, 6749–6758.

Yen, W.-P.; Liu, P.-L.; Uramaru, N.; **Wong, F. F.*** “Indium(III) Chloride/Silica Gel Catalyzed Synthesis of Pyrazolo[3,4-b]pyrrolo[3,4-d]pyridines;” *Tetrahedron* **2015**, 71, 8798–8803.

Yen, W.-P.; Chen, K.-L.; Yeh, M.-Y.; Uramaru, N.; **Wong, F. F.*** “Investigation of Soluble PEG-Imidazoles as the Thermal Latency Catalysts for Epoxy-Phenolic Resins,” *J. Taiwan Inst. Chem. Eng.* **2016**, 59, 98–105.

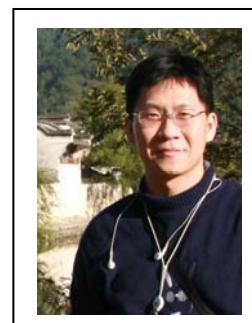
Yen, W.-P.; Kung, F.-C.; **Wong, F. F.*** “1,3-Dipolar Cycloaddition of Carbodiimides and Nitrilimines: Synthesis and Mechanistic Study of 5-Amino-1,2,4-triazoles” *Eur. J. Org. Chem.*, **2016**, 13, 2328–2335.

Associate Professor, Pharmacy School, College of Pharmacy.
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Research Interests:

Medicinal Chemistry, Computer-aided Drug Design, Drug Discovery of anti-cancer and anti-inflammatory.

Appointments:

2014-present: Associate Professor, Pharmacy School, CMU

2012-2014: Associate Professor, Institute of Pharmaceutical Chemistry, CMU

2004-2012: Assistant Professor, Institute of Pharmaceutical Chemistry, CMU

2002-2004: Postdoctoral fellow, Division of Biotechnology and Pharmaceutical Research, National Health Research Institutes.

Research Interests:

The research themes in my lab aim to drug design by computer molecular modeling and to synthesize the target compounds for the treatment of anti-cancer and anti-inflammation.

Representative Publications:

Chen, C. Y.; Lin, C. M.; Lin, H. C.; Huang, C. F.; Lee, C. Y.; Si Tou, T. C.; Hung, C. C.*; **Chang, C. S.***, [Structure-activity relationship study of novel 2-aminobenzofuran derivatives as P-glycoprotein inhibitors](#). *Eur. J. Med. Chem.* **2017**, *125*, 1023-1035.

Su, C. M.; Chen, C. Y.; Lu, T. Sun, Y.; Su, C. M.; Tang, C. H.; Chen, C. Y.; **Chang, C. S.***; Tang, C. H.* [A novel benzofuran derivative, ACDB, induces apoptosis of human chondrosarcoma cells through mitochondrial dysfunction and endoplasmic reticulum stress](#). *Oncotarget*, **2016**, *7*, 83530-83543.

Teng, Y. N.*; **Chang, C. S.***; Lee, T. E.; Hung, C. C*. [Cordycepin re-sensitizes multidrug resistance cancer cells to chemotherapeutic agents through modulating P-glycoprotein expression and ATPase function](#). *J. Funct. Foods* **2016**, *26*, 681-690.

Liu, J. F.; Chen, C. Y.; Chen, H. T.; **Chang, C. S.***; Tang, C. H.* [BL-038, a benzofuran derivative, induces cell apoptosis in human chondrosarcoma cells through reactive oxygen species/mitochondrial dysfunction and the caspases dependent pathway](#). *Int. J. Mol. Sci.* **2016**, *17*, 1490-1505.

Chen, C. Y.; Liu, N. Y.; Lin, H. C.; Lee, C. Y.; Hung, C. C.*; **Chang, C. S.*** [Synthesis and bioevaluation of novel benzodipyrone derivatives as P-glycoprotein inhibitors for multidrug resistance reversal agents](#). *Eur. J. Med. Chem.* **2016**, *118*, 219-229.

Wen, K. C.; **Chang, C. S.**; Chien, Y. C.; Wang, H. W.; Wu, W. C.; Wu, C. S.; Chiang, H. M. [Tyrosol and its analogues inhibit alpha-melanocyte-stimulating hormone induced melanogenesis](#). *Int. J. Mol. Sci.* **2013**, *14*, 23420-23440.

Chang, C. S.; Liu, J. F.; Lin, H. J.; Lin, C. D.; Tang, C. H.; Lu, D. Y.; Sing, Y. T.; Chen, L. Y.; Kao, M. C.; Kuo, S. C.; Lai, C. H.* [Synthesis and bioevaluation of novel 3,4,5-trimethoxybenzylbenzimidazole derivatives that inhibit Helicobacter pylori-induced pathogenesis in human gastric epithelial cells](#). *Eur. J. Med. Chem.* **2012**, *48*, 244-254.

Lu, D. Y.*; **Chang, C. S.**; Yeh, W. L.; Tang, C. H.; Cheung, C. W.; Leung, Y. M.; Liu, J. F.; Wong, K. L. [The novel phloroglucinol derivative BFP induces apoptosis of glioma cancer through reactive oxygen species and endoplasmic reticulum stress pathways](#). *Phytomedicine* **2012**, *19*, 1093-1100.

Liu, J. F.; Huang, Y. L.; Yang, W. H.; **Chang, C. S.***; Tang, C. H.* [1-Benzyl-2-phenylbenzimidazole \(BPB\), a benzimidazole derivative, induces cell apoptosis in human chondrosarcoma through intrinsic and extrinsic pathways](#). *Int. J. Mol. Sci.* **2012**, *13*, 16472-16488.

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Research Interests: Synthesis of Natural Products and Biologically Active Molecules

Academic Distinctions:

Scholastic Honor Member of Phi Tau Phi, NCKU (2006)

College of Pharmacy Outstanding Teaching Award, CMU (2011)

School of Pharmacy Outstanding Teaching Award, CMU (2012)

Teacher Outstanding Research Award, CMU (2012)

College of Pharmacy Outstanding Teaching Award, CMU (2013)

Appointments:

2006-2008: Postdoctoral fellow: Institute of Chemistry, Academia Sinica (Taiwan)

2008-2012: Assistant Professor: School of Pharmacy, China Medical University (Taiwan)

2012-2013: Visiting Associate Professor: Department of Chemistry, University at Buffalo (USA)

2015-2016: Associate Chairman: School of Pharmacy, China Medical University (Taiwan)

2012-present: Associate Professor: School of Pharmacy, China Medical University (Taiwan)

Research Interests:

My research interest is focused on the development of new synthetic method in natural products and some bioactive compounds. Especially, the heterocyclic compounds formed via Pericyclic reaction, such as the cycloaddition of azadienes with alkenes and the electrocyclic cyclization of ketenes and isocyanates.

Representative Publications:

[Cyano Group Removal from Cyano-Promoted Aza-Diels–Alder Adducts: Synthesis and Structure–Activity Relationship of Phenanthroindolizidines and Phenanthroquinolizidines.](#) Chang CF, Li CF, Tsai CC, **Chuang TH***. *Org Lett.* **2016** Feb 2;18(4):638-641.

[Direct Conversion of 1 \(2-Bromobenzoyl\)isoquinolines to Dibenzof\[de,g\]quinolin-7-ones via Reductive Photocyclization.](#) **Chuang TH***, Li CF, Lee HZ, Wen YC. *J Org Chem.* **2013** Apr 23;78(10):4974-4984.

[Structure-Activity Relationship of Synthetic 2-Phenyl-naphthalenes with Hydroxyl Groups that Inhibit Proliferation and Induce Apoptosis of MCF-7 Cancer Cells.](#) Chang CF*, Ke CY, Wu YC, **Chuang TH***. *PLoS One.* **2015** Oct 22;10(10):e0141184.

[A convenient synthesis of chiral 2-methylenebenzo\[e\]\[1,4\]diazepin-5-ones via a one-pot reductive cyclodehydration with retention of chirality.](#) Sorra K, Lai CH, Feng CY, Wu YC, Pusuluri S, Mukkanti K, **Chuang TH***. *Tetrahedron Lett.* **2016** Sep 19;57(43):4842-4844.

[Substituent Effects on the Iodine-Catalyzed Thermal Cyclization of 3,4-Diphenylbuta-1,3-dienyl Isocyanates: Mechanistic Studies.](#) **Chuang TH***, Chang WY, Li CF, Wen YC, Tsai CC. *J Org Chem.* **2011** Oct 19;76(23):9678-9686.

[Use of the Curtius Rearrangement of Acryloyl Azides in the Synthesis of 3,5-Disubstituted Pyridines: Mechanistic Studies.](#) **Chuang TH***, Chen YC, Pola S. *J Org Chem.* **2010** Sep 9;75(19):6625-6630.

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Academic Distinctions:

Distinguished Teaching Professor, College of Pharmacy, CMU (2012)

Distinguished Teaching Professor, College of Pharmacy, CMU (2013)

Appointments:

2010/5-present: Associate professor, School of Pharmacy, China Medical University

2008/8-2010/4: Assistant professor, School of Pharmacy, China Medical University

2002/8-2008/7: Assistant professor, School of Medicine, China Medical University

Research Interests:

Investigation the roles of endoglin on lung cancer and its potential of targeted therapy.

Investigation of demethoxycurcumin nanocrystallite-chitosan nanocarrier for controlled low dose cellular release for inhibition of the migration of lung cancer cells

Representative Publications:

1. Chen, Ying-Yi, Fon-Chang Liu, Tian-Shung Wu, Ming-Jyh Sheu, Antrodia cinnamomea Inhibits Migration in Human Hepatocellular Carcinoma Cells: The Role of ERp57 and PGK-1, American Journal of Chinese Medicine, 2015 Dec, 43(8):1671-1696
2. Pei-Chuan Li, Chun-Hsu Pan, Ming-Jyh Sheu, Chin-Ching Wu, Wei-Fen Ma, Chieh-Hsi Wu, Deep Sea Water Prevents Balloon Angioplasty-Induced Hyperplasia through MMP-2: An in Vitro and in Vivo Study, PLoS One, 2014 May, 9(5):e96927-e96927
3. Ming-Jyh Sheu, Yu-Ning Teng, Ying-Yi Chen, Chin-Chuan Hung, The functional influences of common ABCB1 genetic variants on the inhibition of P-glycoprotein by Antrodia cinnamomea extracts, PLoS One, 2014 Feb, 9(2):e89622-e89622
4. Ming-Jyh Sheu, Lin Hui-Yi, Yi-Hsuan Yang, Chia-Ju Chou, Yi-Chung Chien, Tian-Shung Wu, Chieh-Hsi Wu, Demethoxycurcumin, a major active curcuminoid from Curcuma longa, suppresses balloon injury-induced vascular smooth muscle cell migration and neointima formation: an in vitro and in vivo study, Molecular Nutrition & Food Research, 2013 Sep, 57(9):1586-1597,
5. Ming-Jyh Sheu, Pei-Yu Chou, Wen-Hsin Lin, Chun-Hsu Pan, Yi-Chung Chien, Yun-Lung Chung, Fon-Chang Liu, Chieh-Hsi Wu, Deep Sea Water Modulates Blood Pressure and Exhibits Hypolipidemic Effects via the AMPK-ACC Pathway: An in vivo Study, Marine Drugs. 2013 Jun 17;11(6):2183-202.

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Research Interests:

Medicinal chemistry involves the design and synthesis of biologically active molecules

Academic Distinctions:

Distinguished Teaching Professor, College of Pharmacy, CMU (2012)

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

Appointments:

1997-2002: Assistant Professor: Graduate Institute of Pharmaceutical Chemistry, CMU

2002-present: Associate Professor: Graduate Institute of Pharmaceutical Chemistry, CMU

Research Interests:

We have a broad range of research interests within the medicinal chemistry section. In particular there is a strong interest in the development of anti-cancer agents as well as in the study of cancer mechanisms. Other interests include the development of antithrombotic agents.

Representative Publications:

[DDA suppresses angiogenesis and tumor growth of colorectal cancer in vivo through decreasing VEGFR2 signaling.](#)

Huang SW, **Lien JC**, Kuo SC, Huang TF. Oncotarget. 2016 Sep 27;7(39):63124-63137.

[A novel thromboxane receptor antagonist, nstpbp5185, inhibits platelet aggregation and thrombus formation in animal models.](#) Huang SW, Kuo HL, Hsu MT, Tseng YJ, Lin SW, Kuo SC, Peng HC, **Lien JC**, Huang TF.

Thromb Haemost. 2016 Aug 1;116(2):285-99.

[Pculin02H, a curcumin derivative, inhibits proliferation and clinical drug resistance of HER2-overexpressing cancer cells.](#) **Lien JC**, Hung CM, Lin YJ, Lin HC, Ko TC, Tseng LC, Kuo SC, Ho CT, Lee JC, Way TD. Chem Biol Interact. 2015 Jun 25;235:17-26.

[Naphthoquinone derivative PPE8 induces endoplasmic reticulum stress in p53 null H1299 cells.](#) **Lien JC**, Huang CC, Lu TJ, Tseng CH, Sung PJ, Lee HZ, Bao BY, Kuo YH, Lu TL. Oxid Med Cell Longev. 2015;2015:453679.

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Research Interests: Analytical Chemistry, Nanomaterials

Appointments:

2011-present: Professor: School of Pharmacy, CMU

Representative Publications:

- (1) Chao, M.-R., Hu, C.-W., Chen, J.-L.* , Glass substrates crosslinked with tetracycline-imprinted polymeric silicate and CdTe quantum dots as fluorescent sensors. *Anal. Chimica. Acta* 2016, 925, 61–69. (I.F.= 4.712, 8/75 (Chemistry, Analytical), in JCR 2015)
- (2) Chao, M.-R., Hu, C.-W., Chen, J.-L.* , Fluorometric determination of copper(II) using CdTe quantum dots coated with 1-(2-thiazolylazo)-2-naphthol and an ionic liquid. *Microchim. Acta* 2016, 183, 1323–1332. (I.F.= 4.831, 6/75 (Chemistry, Analytical), in JCR 2015)
- (3) Hu, C.-W., Chen, J.-L., Hsu, Y.-W., Yen, C.-C., Chao, M.-R., Trace analysis of methylated and hydroxymethylated cytosines in DNA by isotope-dilution LC – MS/MS: first evidence of DNA methylation in *Caenorhabditis elegans*. *Biochem. J.* 2015, 465, 39 – 47. (I.F.= 4.779, 61/291 (Biochemistry & Molecular Biology), in JCR 2013)

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Research Interests: functional carbohydrates, herb polysaccharides, pharmacology, structural and bioactivity analysis of polysaccharides

Academic Distinctions:

Assistant Professor, Department of Cosmeceutics, College of Biopharmaceutical and Food Science, CMU (2015)

Assistant Professor, School of Pharmacy, College of Pharmacy CMU (2016)

Appointments:

2012-2015: Postdoctoral fellow: Department of Pharmacology, School of Medicine, College of Medicine, CMU

2015-present: Assistant Professor, Department of Pharmacy, College of Pharmacy, CMU

Research Interests:

My Lab investigated the bioactive polysaccharides derived from herb or natural compounds. Through pharmacological experiments (in vivo/vitro), we found out that these polysaccharides exhibit immunomodulating activity or improving dermal wound healing. Moreover, we discover the structural characterizations of the bioactive polysaccharides and try to understanding their structure activity relationship (SAR).

Representative Publications:

Li-Chan Yang, Ching-Yi Lai, Wen-Chuan Lin, Natural killer cell-mediated cytotoxicity is increased by a type II arabinogalactan from *Anoectochilus formosanus*, CARBOHYDRATE POLYMERS, 2017 Jan, 155:466-474 (<https://www.ncbi.nlm.nih.gov/pubmed/27702536>)

Ching-Yi, Lai, Li-Chan Yang, Wen-Chuan Lin, Type II arabinogalactan from *Anoectochilus formosanus* induced dendritic cell maturation through TLR2 and TLR4, PHYTOMEDICINE, 2015 Dec, 22(14):1207-1214 (<https://www.ncbi.nlm.nih.gov/pubmed/26655402>)

Li-Chan Yang, Chang-Chi Hsieh, Wen-Chuan Lin, Characterization and immunomodulatory activity of rice hull polysaccharides, CARBOHYDRATE POLYMERS, 2015 Mar, 124(3):150-156 (<https://www.ncbi.nlm.nih.gov/pubmed/25839805>)

Li-Chan Yang, Ting-Jang Lu, Chang-Chi Hsieh, Wen-Chuan Lin, Characterization and immunomodulatory activity of polysaccharides derived from *Dendrobium tosaense*, CARBOHYDRATE POLYMERS, 2014 Oct, 111:856-863 (<http://www.sciencedirect.com/science/article/pii/S0144861714004731>)

Li-Chan Yang, Chang-Chi Hsieh, Ting-Jang Lu, Wen-Chuan Lin, Structurally characterized arabinogalactan from *Anoectochilus formosanus* as an immuno-modulator against CT26 colon cancer in BALB/c mice, PHYTOMEDICINE, 2014 Mar, 21(3):647-655 (<https://www.ncbi.nlm.nih.gov/pubmed/24315348>)

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Research Interests: Natural Products from Marine and Plants

Academic Distinctions:

Assistant Professor, College of Pharmacy, CMU (2013)

Appointments:

2008-2009: Postdoctoral fellow: Department of Chemistry, NCKU

2009-2010: Department of Marine Biotechnology and Resources, NSYSU

2010-2011: Postdoctoral fellow: Department of Chemistry, NCKU

2011-present: Assistant Researcher: Chinese Medicine Research and Development Center, CMUH

2013-present: Assistant Prof. : School of Pharmacy, CMU

Research Interests:

Research in our group is focus on the isolation and structure elucidation of secondary metabolites, especially those possessed interesting structures and useful biological activities, which are elaborated by terrestrial plant and marine invertebrates (e.g. soft corals and sponges). The structures of the new metabolites are elucidated primarily by spectroscopic analysis, including 1D and 2D NMR experiments. The active ingredients will be subjected for structural optimization by semi-synthesis for the discovery and development of new drug lead.

Representative Publications:

Chih-Hua Chao, Ju-Chien Cheng, De-Yang Shen, Tian-Shung Wu (2014, Jan). Anti-hepatitis C virus dinorditerpenes from the roots of *Flueggea virosa*. *JOURNAL OF NATURAL PRODUCTS*, 77, 22-28

Chih-Hua Chao, Ju-Chien Cheng, De-Yang Shen, Hui-Chi Huang, Yang-Chang Wu, Tian-Shung Wu (2016, Apr). 13-Methyl-3,4-*seco-ent*-podocarpanes, rare C18-diterpenoids from the roots of *Flueggea virosa* . *RSC Advances*, 6, 34708- 34714.

Chih-Hua Chao, Tzu-Zin Huang, Chia-Yun Wu, Bo-Wei Chen, Chiung-Yao Huang, Tsong-Long Hwang, Chang-Feng Dai, Jyh-Horng Sheu (2015, Aug). Steroidal and alpha-tocopherylhydroquinone glycosides from two soft corals *Cladiella hirsuta* and *Sinularia nanolobata*. *RSC Advances*, 5, 74256–74262.

Chih-Hua Chao, Shin-Hun Juang, Hsiu-Hui Chan, De-Yang Shen, Yu-Ren Liao, Hung-Cheng Shih, Chieh-Hung Huang, Ju-Chien Cheng, Fu-An Chen, Hsin-Yi Hung, Tian-Shung Wu (2015, Apr). UV-guided isolation of polyynes and polyenes from the roots of *Codonopsis pilosula*. *RSC Advances*, 5(52)41324-41333.

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Research Interests: Cancer Biology, Cancer Epidemiology, Molecular and Cellular Biology

Appointments:

2007: Postdoctoral fellow: Department of Medical Oncology, Dana-Farber Cancer Institute, Harvard Medical School

2007-2010: Assistant Professor: Department of Pharmacy, CMU

2010-2014: Associate Professor: Department of Pharmacy, CMU

2014-present: Professor: Department of Pharmacy, CMU

Research Interests:

Our laboratory aims to better understand the processes of human prostate cancer progression using gene-disease association studies. We combine resources from bench (laboratory-based genomic discoveries) and bedside (evidence-based clinical applications) to identify novel prognostic biomarkers, and decipher the molecular roles of these biomarkers in the prostate cancer progression.

Representative Publications:

Genetic polymorphisms in androgen receptor-binding sites predict survival in prostate cancer patients receiving androgen-deprivation therapy. Huang CN, Huang SP, Pao JB, Chang TY, Lan YH, Lu TL, Lee HZ, Juang SH, Wu PP, Pu YS, Hsieh CJ, **Bao BY***. *Ann Oncol.* **2012** Mar;23(3):707-13.

Polymorphisms inside microRNAs and microRNA target sites predict clinical outcomes in prostate cancer patients receiving androgen-deprivation therapy. **Bao BY**, Pao JB, Huang CN, Pu YS, Chang TY, Lan YH, Lu TL, Lee HZ, Juang SH, Chen LM, Hsieh CJ, Huang SP*. *Clin Cancer Res.* **2011** Feb 15;17(4):928-36.

Genetic polymorphisms in oestrogen receptor-binding sites affect clinical outcomes in patients with prostate cancer receiving androgen-deprivation therapy. Huang CN, Huang SP, Pao JB, Hour TC, Chang TY, Lan YH, Lu TL, Lee HZ, Juang SH, Wu PP, Huang CY, Hsieh CJ, **Bao BY***. *J Intern Med.* **2012** May;271(5):499-509.

Genetic variants in microRNAs and microRNA target sites predict biochemical recurrence after radical prostatectomy in localized prostate cancer. Huang SP, Lévesque E, Guillemette C, Yu CC, Huang CY, Lin VC, Chung IC, Chen LC, Laverdière I, Lacombe L, Fradet Y, Chang TY, Lee HZ, Juang SH, **Bao BY***. *Int J Cancer.* **2014** Dec 1;135(11):2661-7.

Genetic variants in ultraconserved regions associate with prostate cancer recurrence and survival. **Bao BY**, Lin VC, Yu CC, Yin HL, Chang TY, Lu TL, Lee HZ, Pao JB, Huang CY, Huang SP*. *Sci Rep.* **2016** Feb 23;6:22124.

Min-Tsang Hsieh

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Research Interests: Drug discovery; Organic Synthesis; Total Synthesis

Appointments:

2007-2010: Postdoctoral fellow: Institute of Biotechnology and Pharmaceutical Research, NHRI

2011-2013: Assistant Investigator, China Medical University Hospital

2013-present: Assistant Professor, China Medical University Hospital

Research Interests:

Synthesis and biological evaluation of new phytochemicals (including resveratrol, pterostilbene, curcumin and betulinic acid) as anticancer drug; Development of new synthetic methods toward fluorinated bioactive compounds

Representative Publications:

1. Min-Tsang Hsieh*、Hui-Chang Lin、Sheng-Chu Kuo, Synthesis of fluazolate via the application of regioselective [3+2] cyclocondensation and nucleophilic substitution-cyclization strategies, TETRAHEDRON, 2016 Sep, 72(39), 5880-5885.
2. Ling-Chu Chang*、Yung-Luen Yu、Min-Tsang Hsieh、Sheng-Hung Wang、Ruey-Hwang Chou、Wei-Chien Huang、Hui-Yi Lin、Hsin-Yi Hung、Li-Jiau Huang、Sheng-Chu Kuo、A novel microtubule inhibitor, MT3-037, causes cancer cell apoptosis by inducing mitotic arrest and interfering with microtubule dynamics、American Journal of Cancer Research、2016 Jun、6(4):747-763
3. Ling-Chu Chang*、Yung-Luen Yu、Chin-Yu Liu、Yung-Yi Cheng、Ruey-Hwang Chou、Min-Tsang Hsieh、Hui-Yi Lin、Hsin-Yi Hung、Li-Jiau Huang、Yang-Chang Wu、Sheng-Chu Kuo*、The newly synthesized 2-arylnaphthyridin-4-one, CSC-3436, induces apoptosis of non-small cell lung cancer cells by inhibiting tubulin dynamics and activating CDK1、CANCER CHEMOTHERAPY AND PHARMACOLOGY、2015 Jun、75(6):1303-1315
4. Min-Tsang Hsieh*、Sheng-Chu Kuo、Hui-Chang Lin、Solvent- and Transition Metal Catalyst-Dependent Regioselectivity in the [3+2] Cyclocondensation of Trifluoromethyl- α,β -ynones with Hydrazines: Switchable Access to 3- and 5-Trifluoromethylpyrazoles、Adv. Synth. Catal. 2015, 357, 683 – 689、SCI