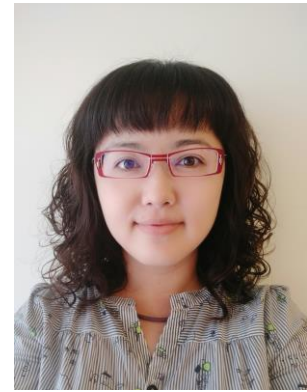


Yih-Fung Chen 陳宜芳

Assistant Professor
Graduate Institute of Natural Products
College of Pharmacy
Kaohsiung Medical University
Kaohsiung, Taiwan



Address: N733, First Teaching Building
No. 100, Shih-Chuan 1st Road
Kaohsiung City 80708, Taiwan

Email: yihfungchen@kmu.edu.tw; monica.tgfc@gmail.com

Tel: 886-7-3121101 ext. 2765

Fax: 886-7-3114773

RESEARCH INTERESTS

- To uncover the remodeling of intracellular Ca²⁺ homeostasis during cancer progression and to develop novel therapeutics targeting Ca²⁺ transport systems.
- To develop novel pharmacological approaches facilitating antioxidant defense and aquaporin-based cellular water transport.
- To identify effective and novel neuroprotective agents to ameliorate the chemotherapy-induced neurotoxic effects.

EDUCATION

- 2004/09-2010/07 **Ph.D. in Basic Medical Sciences**
National Cheng Kung University, Tainan, Taiwan
- 1999/09-2003/06 **B.S. in Pharmacy**
Kaohsiung Medical University, Kaohsiung, Taiwan

RESEARCH EXPERIENCE

- 2015/02~ **Assistant Professor**
Graduate Institute of Natural Products, College of Pharmacy,
Kaohsiung Medical University, Kaohsiung, Taiwan
- 2013/08-2015/01 **Project Assistant Professor**
Institute of Basic Medical Sciences, College of Medicine,
National Cheng Kung University, Tainan, Taiwan
- 2010/09-2013/07 **Postdoctoral Research Fellow**
Department of Pharmacology, College of Medicine,
National Cheng Kung University, Tainan, Taiwan
- 2008/11-2009/10 **Visiting Researcher**
Department of Physiology, Anatomy, and Genetics,
University of Oxford, Oxford, UK

HONORS & AWARDS

- 2019 Outstanding Research Award, Kaohsiung Medical University, Kaohsiung, Taiwan
(2019 年研究績優教師—優秀論文獎)
- 2019 Outstanding Teaching Award, Kaohsiung Medical University, Kaohsiung, Taiwan
(108 學年度教學優良教師)
- 2019 Outstanding Student Mentoring Award, Kaohsiung Medical University, Kaohsiung, Taiwan
(107 學年度績優導師)
- 2018 Award of Technology Transfer, Kaohsiung Medical University, Kaohsiung, Taiwan
(108 學年度技術轉移優良獎)
- 2018 Invited talk, Academic Forum of Academic Strategic Alliance: Taiwan and Oxford University, Tainan, Taiwan, September 2018
(臺灣與英國牛津大學合作發展學術策略聯盟計畫學術論壇—邀請演講)
- 2018 Outstanding Teaching Award, Kaohsiung Medical University, Kaohsiung, Taiwan
(106 學年度教學優良教師)
- 2017 Outstanding Student Mentoring Award, Kaohsiung Medical University, Kaohsiung, Taiwan
(105 學年度績優導師)
- 2015 Outstanding Research Award, Kaohsiung Medical University, Kaohsiung, Taiwan
(2015 年研究績優教師—優秀論文獎)
- 2013 Invited talk, 37th World Congress of the International Union of Physiological Sciences (2013 IUPS meeting), Birmingham, UK, July 2013.
(2013 年國際生理學聯盟大會—邀請演講)
- 2013 Outstanding Research Paper Award, Laser Medicine Education, and Research Foundation, Taiwan (2013 年雷射醫學文教基金會優秀論文獎)
- 2010 Award of Outstanding Thesis by Tien-Te Lee Biomedical Foundation, Taiwan
(第 6 屆永信李天德醫藥科技獎—傑出論文獎)
- 2010 Awarded member of Bio-Inspired Sensing & Bio-Inspired Actuation Summer Institute at the University of Illinois at Urbana-Champaign, Champaign, IL, U.S.A., by Taiwan National Science Council and U.S. National Science Foundation Joint Program
- 2007 Graduate students study abroad scholarship by National Science Council, Taiwan
(國科會千里馬計畫補助博士生赴國外研究)

BOARD CERTIFICATION

- 2003 Professional Pharmacist License (Taiwan Pharmacist Board Licensure Exam)
- 2003 Certificate of Chinese Herbal Medicine
Kaohsiung Medical University, Kaohsiung, Taiwan

PUBLICATION

1. Chen SR, Wang SW, Lin YC, Yu CL, Yen JY, **Chen YF***, Cheng YB*. (2021) Additional Alkaloids from *Zoanthus vietnamensis* with Neuroprotective and Anti-Angiogenic Effects. *Bioorganic Chemistry*. 109:104700. (***equal contribution as the corresponding author**) (SCI)
2. Ko HH, Chang YT, Kuo YH, Lin CH, **Chen YF*** (2021) *Oenothera laciniata* Hill Extracts Exhibits Antioxidant Effects and Attenuates Melanogenesis in B16-F10 Cells via Downregulating CREB/MITF/Tyrosinase and Upregulating p-ERK and p-JNK. *Plants (Basel)*. 10(4):727. (SCI)
3. Chen YS, Chang HS, Hsiao HH, **Chen YF**, Kuo YP, Yen FL, Yen CH*. Identification of *Beilschmiedia tsangii* Root Extract as a Liver Cancer Cell–Normal Keratinocyte Dual-Selective NRF2 Regulator. *Antioxidants (Basel)*. 10 (4):544
4. Hsu HF, Chen KM*, Belcastro F, **Chen YF**. (2021) Polypharmacy and Pattern of Medication Use in Community-dwelling Older Adults: A Systematic Review. *Journal of Clinical Nursing*. 30(7-8):918-928. (SCI)
5. **Chen YF**, Wu SN, Gao JM, Liao ZY, Tseng YT, Fülöp F, Chang FR, Lo YC*. (2020) The antioxidant, anti-inflammatory, and neuroprotective properties of the synthetic chalcone derivative AN07. *Molecules*. 25(12):2907. (SCI)
6. Hsu SK, Chang WT, Lin IL, **Chen YF**, Padalwar NB, Cheng KC, Teng YN, Wang CH, Chiu CC*. (2020) The Role of Necroptosis in ROS-Mediated Cancer Therapies and Its Promising Applications. *Cancers (Basel)*. 12 (8):2185. (SCI)
7. **Chen YF**, Chen LH, Shen MR*. (2019) The distinct role of STIM1 and STIM2 in the regulation of store-operated Ca²⁺ entry and cellular function. *Journal of Cellular Physiology*. 234(6):8727-8739. (SCI)
8. **Chen YF**, Lin PC, Yeh YM, Chen LH, Shen MR*. (2019) Store-operated Ca²⁺ entry in tumor progression: from molecular mechanisms to clinical implications. *Cancers (Basel)*. 11(7):899. (SCI)
9. Lin YC, Ko YC, Hung SC, Lin YT, Lee JH, Tsai JY, Kung PH, Tsai MC, **Chen YF**, Wu CC. (2019) Selective inhibition of PAR4 (protease-activated receptor 4)-mediated platelet activation by a synthetic nonanticoagulant heparin analog. *Arteriosclerosis, Thrombosis, and Vascular Biology*. 39(4):694-703. (SCI)
10. Chen YW, Lai CS, **Chen YF**, Chiu WT, Chen HC, Shen MR*. (2017) STIM1-dependent Ca²⁺ signaling regulates podosome formation to facilitate cancer cell invasion. *Scientific Reports*. 7(1):11523. (SCI)
11. Chiang WF, Cheng TM, Chang CC, Pan SH, Changou CA, Chang TH, Lee KH, Wu SY, **Chen YF**, Chuang KH, Shieh DB, Chen YL, Tu CC, Tsui WL, Wu MH*. (2018) Carcinoembryonic antigen-related cell adhesion molecule 6 (CEACAM6) promotes EGF receptor signaling of oral squamous cell carcinoma metastasis via the complex N-glycosylation. *Oncogene*. 37(1):116-127. (SCI)

12. Chen YF, Chen LH, Yeh YM, Wu PY, **Chen YF**, Chang LY, Chang JY, Shen MR*. (2017) Minoxidil is a potential neuroprotective drug for paclitaxel-induced peripheral neuropathy. *Scientific Reports* 7:45366. (SCI)
13. **Chen YF**, Hsu KF, Shen MR*. (2016) The store-operated Ca^{2+} entry-mediated signaling is important for cancer spread. *Biochimica et Biophysica Acta-Molecular Cell Research*. 1863(6 Pt B):1427-1435. (SCI)
14. Chen YW, **Chen YF**, Chen YT, Chiu WT, Shen MR*. (2016) The STIM1-Orai1 pathway of store-operated Ca^{2+} entry controls the checkpoint in cell cycle G1/S transition. *Scientific Reports*. 6:22142. (SCI)
15. Chen LH, Sun YT, **Chen YF**, Lee MY, Chang LY, Chang JY, Shen MR*. (2015) Integrating image-based high-content screening with mouse models identifies 5-hydroxydecanoate as a neuroprotective drug for paclitaxel-induced neuropathy. *Molecular Cancer Therapeutics*. 14(10):2206-2214. (SCI)
16. Chen YT[#], **Chen YF**[#], Chiu WT, Liu KY, Liu YL, Chang JY, Chang HS, Shen MR*. (2013) Microtubule-associated histone deacetylase 6 supports the calcium store sensor STIM1 in mediating malignant cell behaviors. *Cancer Research*. 73(14):4500-4509. (**#equal contribution as the 1st author**) (SCI)
17. **Chen YF**, Chen YT, Chiu WT, Shen MR*. (2013) Remodeling of calcium signaling in tumor progression. *Journal of Biomedical Science*. 17;20:23. (**invited review article**) (SCI)
18. Chen YT, **Chen YF**, Chiu WT, Wang YK, Chang HC, Shen MR*. (2013) The ER Ca^{2+} sensor STIM1 regulates actomyosin contractility of migratory cells. *Journal of Cell Science*. 126 (Pt 5):1260-1267. (SCI)
19. **Chen YF**[#], Chiu WT[#], Chen YT, Lin PY, Huang HJ, Chou CY, Chang HS, Tang MJ, Shen MR*. (2011) Calcium store sensor STIM1-dependent signaling plays an important role in cervical cancer growth, migration and angiogenesis. *Proceedings of the National Academy of Sciences USA*. 108(37):15225-15230. (**#equal contribution as the 1st author**) (SCI)
20. **Chen YF**, Chou CY, Ellory JC, Shen MR*. (2010) The emerging role of KCl cotransport in tumor biology. *American Journal of Translational Research*. 2(4):345-355. (**invited review article**) (SCI)
21. **Chen YF**, Chou CY, Wilkins RJ, Ellory JC, Mount DB, Shen MR*. (2009) Motor protein-dependent membrane trafficking of KCl cotransporter-4 is important for cancer cell invasion. *Cancer Research*. 69(22):8585-8593. (SCI)
22. Hsu YM, **Chen YF**, Chou CY, Tang MJ, Chen JH, Wilkins RJ, Ellory JC, Shen MR*. (2007) KCl cotransporter-3 down-regulates E-cadherin/beta-catenin complex to promote epithelial-mesenchymal transition. *Cancer Research*. 67(22):11064-11073. (SCI)
23. Hsu KF, Huang SC, Shiau AL, Cheng YM, Shen MR, **Chen YF**, Lin CY, Lee BH, Chou CY*. (2007) Increased expression level of squamous cell carcinoma antigen 2 and 1 ratio is associated with poor prognosis in early-stage uterine cervical cancer. *International Journal of Gynecological Cancer*. 17(1):174-181. (SCI)

24. Hsu YM, Chou CY, Chen HH, Lee WY, **Chen YF**, Lin PW, Alper SL, Ellory JC, Shen MR*. (2007) IGF-1 upregulates electroneutral K-Cl cotransporter KCC3 and KCC4 which are differentially required for breast cancer cell proliferation and invasiveness. *Journal of Cellular Physiology*. 210(3):626-636. (SCI)
25. Shen MR, Hsu YM, Hsu KF, **Chen YF**, Tang MJ, Chou CY*. (2006) Insulin-like growth factor 1 is a potent stimulator of cervical cancer cell invasiveness and proliferation that is modulated by alphavbeta3 integrin signaling. *Carcinogenesis*. 27(5):962-971. (SCI)

COMMUNICATION & PRESENTATION

1. Invited Talk (online), PharSciTech Special Seminar, Chulalongkorn University, Bangkok, Thailand, February, 2021.
2. Session Moderator, Academic Forum of Academic Strategic Alliance: Taiwan and Oxford University, Oxford, UK, December 2018.
3. Invited talk, Academic Forum of Academic Strategic Alliance: Taiwan and Oxford University, Tainan, Taiwan, September 2018.
4. Poster, Gordon Research Conference- Calcium Signalling, Lucca, Italy, June 2017.
5. Poster, EMBO | EMBL Symposia- Microtubules: From Atoms to Complex Systems, EMBL Heidelberg, Germany, May 2016.
6. Poster, Gordon Research Conference- Calcium Signalling, Newry, ME, USA, June 2015.
7. Poster, Beatson International Cancer Conference: Powering the Cancer Machine, Glasgow, UK, July 2014.
8. Invited talk, 37th World Congress of the International Union of Physiological Sciences (IUPS meeting), Birmingham, UK, July 2013.
9. Invited talk, Taiwan-Russia Joint Symposium: Methods of Mechanics for Physiology and Cell Biology, Taiwan, November 2013.
10. Poster, Gordon Research Conference- Calcium Signalling, Lucca, Italy, June 2013.
11. Poster, EMBO Conference - the Physiology of ER, Girona, Spain, October 2012.
12. Poster, Beatson International Cancer Conference: Membrane Dynamics in Cancer, Glasgow, UK, July 2012.
13. Poster, National Cancer Research Institute (NCRI) Cancer Conference, Liverpool, UK, November 2011.
14. Poster, Bio-Inspired Sensing & Bio-Inspired Actuation Summer Institute, University of Illinois at Urbana-Champaign, Champaign, IL, USA, July 2010.
15. Poster, 50th annual meeting of the American Society for Cell Biology, Philadelphia, PA, USA, December 2010.
16. Poster, Physiological society annual meeting, Dublin, Ireland, July 2009.
17. Poster, International Symposium on Cell Signaling and Gene Transduction, Tainan, Taiwan, November 2007.
18. Poster, 46th Annual Meeting of the American Society for Cell Biology, San Diego, CA, USA, December 2006.
19. Oral presentation, International conference on new frontiers in obstetrics and gynecology & fist biennial meeting, Pan-Asian Urogynecologic Association (PAUGA), Taoyuan, Taiwan, September 2006.