

# CMU Faculty Profile

## SHAO-CHUN WANG

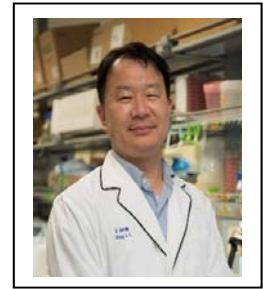
Co-Director and Professor, Graduate Institute of Biomedical Sciences, College of Medicine

Ph.D., University of Minnesota Twin Cities, Minnesota, USA, 1995

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**Research Interests:** Signal Transduction, Tumor Progression, DNA Damage and Cell Proliferation, Environmental Endocrine Disruptors

### Academic Distinctions:

W. M. Keck Center for Cancer Gene Therapy Development Awards for the Human Cancer Gene Prevention and Therapy Program, University of Texas, M. D. Anderson Cancer Center (1999-2000)  
Susan G. Komen Breast Cancer Foundation Translational Research Award (2000-2002)  
American Cancer Society Research Scholar Grant (2003-2007)  
University of Cincinnati Cancer Center Research Award (2007-2008)  
Susan Komen Investigator-Initiated Research Grant Award (2008-2011)  
Department of Defense Prostate Cancer Research Program (2008-2012)  
Marlene Harris Ride Cincinnati Breast Cancer Research Award (2010-2011)  
University of Cincinnati Center for Clinical & Translational Science & Training Junior Investigator Pilot Grant (2011-2012)  
University of Cincinnati Provost's Pilot Research Award (2012-2013)  
Elsa U. Pardee Foundation Research Grant (2012-2014)  
University of Cincinnati College of Medicine Internal Study Section Award for meritorious grant proposal (2013)  
NIH Early Career Reviewer program of Center for Scientific Review (2013-present)  
American Heart Association Research Grant (2013-2015)  
Marlene Harris Ride Cincinnati Breast Cancer Research Award (2015-2016)

### Appointments:

2002-2007: Research-track Assistant Professor, Department of Molecular and Cellular Oncology, University of Texas M. D. Anderson Cancer Center  
2007-2008: Assistant Professor, Department of Surgery, University of Cincinnati College of Medicine, Ohio USA  
2008-2014: Assistant Professor, Department of Cancer Biology, University of Cincinnati College of Medicine  
2007-present: Faculty, Cancer and Cell Biology Graduate Program, University of Cincinnati College of Medicine  
2007-present: Associate Member, University of Cincinnati Cancer Center  
2011-present: Member, Center for Clinical and Translational Science and Training, University of Cincinnati  
2013-present: Member, Cincinnati Cancer Center  
2013-present: Member, University of Cincinnati Cancer Institute  
2014-2016: Associate Professor, Department of Cancer Biology, University of Cincinnati College of Medicine  
2016-present: Adjunct Associate Professor, Department of Cancer Biology, University of Cincinnati College of Medicine  
2016-present: Full Research Fellow, Center of Molecular Medicine, CMUH  
2016-present: Deputy Director, Center for Molecular Medicine, CMU  
2016-present: Professor, School of Medicine, CMU  
2016-present: Co-Director, Graduate Institute of Biomedical Sciences, CMU

### Research Interests:

- (1) Use molecular, biochemical, cellular, and genetic experimental approaches to study biological mechanisms underlying normal and cancer cells to study cancer proliferation, metabolism, microenvironment and metastasis;
- (2) To help solve unmet medical needs in cancer therapy such as drug resistance (of targeted therapies), metastasis. We focus on triple-negative breast cancer and are interested in other cancer types, as well as metabolic diseases such as obesity.

### Representative Publications:

[The Ron receptor tyrosine kinase activates c-Abl to promote cell proliferation through tyrosine phosphorylation of PCNA in breast cancer.](#) Zhao H, Chen MS, Lo YH, Waltz SE, Wang J, Ho PC, Vasiliauskas J, Plattner R, Wang YL, Wang SC\*. **Oncogene.** 2014 Mar 13;33(11):1429-37.

[Epidermal growth factor receptor protects proliferating cell nuclear antigen from cullin 4A protein-mediated proteolysis.](#) Lo YH, Ho PC, Wang SC\*. **J Biol Chem.** 2012 Aug 3;287(32):27148-57.

[Tyrosine phosphorylation controls PCNA function through protein stability.](#) Wang SC, Nakajima Y, Yu YL, Xia W, Chen CT, Yang CC, McIntush EW, Li LY, Hawke DH, Kobayashi R, Hung MC. **Nat Cell Biol.** 2006 Dec;8(12):1359-68.

[Binding at and transactivation of the COX-2 promoter by nuclear tyrosine kinase receptor ErbB-2.](#) Wang SC, Lien HC, Xia W, Chen IF, Lo HW, Wang Z, Ali-Seyed M, Lee DF, Bartholomeusz G, Ou-Yang F, Giri DK, Hung MC. **Cancer Cell.** 2004 Sep;6(3):251-61.

[The Ets protein PEA3 suppresses HER-2/neu overexpression and inhibits tumorigenesis.](#) Xing X#, Wang SC#, Xia W, Zou Y, Shao R, Kwong KY, Yu Z, Zhang S, Miller S, Huang L, Hung MC. **Nat Med.** 2000 Feb;6(2):189-95.

Professor, Graduate Institution of Biomedical Sciences, College of Medicine

Chair, Terry Fox Cancer Research Lab, CMU/CMUH

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**Research Interests:** Cancer Genomics, Translational Medical Science, DNA Damage and Repair; Cancer Drug Development and Discovery; Environmental and Cell Toxicology

**Academic Distinctions:**

Outstanding Researcher Reward in China Medical University 2005 (only six were awarded)

Outstanding Researcher Reward in China Medical University 2008 (only ten were awarded)

Outstanding Researcher Reward in China Medical University 2010 (to celebrate our entering into top 500 Universities in the world and only ten were awarded)

Annual Outstanding Award of Physiologists in National Defense Medical Center, 2012.

Organization Chairman for The 3rd Symposium on Adaptive Medicine and Adaptability across the Strait, China Medical University, Oct 5-6, 2013 (There were 34 speakers from USA, China and Taiwan)

Organization Committee for 9<sup>th</sup> International Conference of Anticancer Research in Greece, October 6-10, 2014 (only Prof Chen CJ and me are scientists from Taiwan).

**Education/Training:**

1990-1994: B.S.: National Taiwan University, Taiwan

1994-1996: M.S.: National Defense Medical Center, Taiwan,

1996-2002: Ph.D.: National Defense Medical Center, Taiwan

2002-2004: Post-doctor: Academia Sinica, Taipei, Taiwan

2004-present: Faculty: China Medical University and Hospital, Taichung, Taiwan

2009-2010: Visiting Scholar: Academia Sinica, Taipei, Taiwan

2010-2011: Visiting Scholar: University Texas M.D. Anderson Cancer Center, USA

**Journal Editor Board:**

Cancer Genomics and Proteomics (CGP) since 2010

World Journal of Gastrointestinal Oncology (WJGO) since 2010

World Journal of Stomatology since 2012

World Journal of Surgical Procedures since 2012

Chinese Journal of Physiology since 2012 (Associate Editor 2013~2014)

Adaptive Medicine since 2012 (Associate Editor 2013~2014)

PLOS ONE since 2015

Anticancer Research since 2015

Mediators of Inflammation (guest editor) in 2017

**Publications:**

(SCI papers published during 1999~2016: 164; first author: 30; corresponding author: 108)

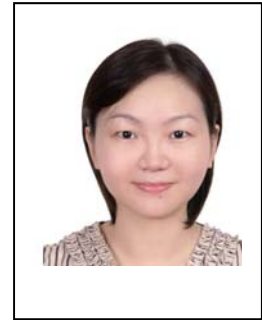
Associate Professor, Graduate Institution of Biomedical Sciences, College of Medicine

Ph.D., National Taiwan University (Taiwan), 2006

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URL: [http://gibs.cmu.edu.tw/english/faculty\\_tumor.html](http://gibs.cmu.edu.tw/english/faculty_tumor.html)



**Research Interests:** Cancer immunotherapy, Metastasis, Target therapy

**Honors and awards:**

Excellent Thesis Prize in Medical College of National Taiwan University (1997)

NHRI Postdoctoral Fellowship Award (2007)

Award of Travel Grant of the 75th Annual Meeting of the Japanese Cancer Association (2016)

**Appointments:**

2007-2009: Postdoctoral fellow: Center for Molecular Medicine, China Medical University Hospital, Taichung, Taiwan, R.O.C.

2009-2015: Assistant Professor: Graduate Institute of Clinical Medical Science, CMU

2015- present: Associate Professor: Graduate Institute of Biomedical Sciences, CMU

**Research Interests:**

The research themes in my lab aim to decipher the molecular mechanism important for lung cancer brain metastasis and identify biomarkers for detection. In addition, we assess the mechanism of metastasis in other tumor types which are important and poor treatment in Taiwan such as esophageal and oral cancer. We have combined the biochemical approaches, clinical studies and an experimental mouse model to address it. Several research projects are actively investigated in my lab. Furthermore, we focus on cancer translational medicine study to develop promising cancer treatments for clinical application.

**Representative Publications:**

[A HLA-A2-restricted CTL epitope induces anti-tumor effects against human lung cancer in mouse xenograft model.](#) Sher YP#, Lin SI#, Chen IH, Liu HY, Lin CY, Chiang IP, Roffler S, Chen HW, Liu SJ\*. **Oncotarget.** 2015 Nov 7:671.

[ADAM9 enhances CDCP1 protein expression by suppressing miR-218 for lung tumor metastasis.](#) Chiu KL, Kuo TT, Kuok QY, Lin YS, Hua CH, Lin CY, Su PY, Lai LC\*, and Sher YP\*. **Scientific Reports.** 2015 Nov 5:16426.

[ADAM9 promotes lung cancer metastases to brain by a plasminogen activator-based pathway.](#) Lin CY, Chen HJ, Huang CC, Lai LC, Lu TP, Tseng GC, Kuo TT, Kuok QY, Hsu JL, Sung SY, Hung MC\*, Sher YP\*. **Cancer Research.** 2014 Sep 74(18):5229-43.

[Targeted endostatin-cytosine deaminase fusion gene therapy plus 5-fluorocytosine suppresses ovarian tumor growth.](#) Sher YP, Chang CM, Juo CG, Chen CT, Hsu JL, Lin CY, Han Z, Shiah SG, and Hung MC\*. **Oncogene.** 2013 May 32:1082-90.

[Cancer-targeted BikDD gene therapy elicits protective antitumor immunity against lung cancer.](#) Sher YP#, Liu SJ#, Chang CM, Lien SP, Chen CH, Han Z, Li LY, Chen JS, Wu CW and Hung MC\*. **Molecular Cancer Therapeutics.** 2011 April 10(4):637-47.

[Cancer Targeted Gene Therapy of BikDD Inhibits Orthotopic Lung Cancer Growth and Improves Long-term Survival.](#) Sher YP, Tzeng TF, Kan SF, Hsu J, Han Z, Xie X, Lin WC, Li LY\* and Hung MC\*. **Oncogene.** 2009 July 28(37):3286-95.

Dean, Graduate Student Affairs  
Professor, Graduate Institution of Biomedical Sciences, College of Medicine

Ph.D., National Defense Medical Center (Taiwan), 2002

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**Research Interests:** Cancer Epigenetics, Epigenome, Cancer and Stem Cell Signaling

**Academic Distinctions:**

Distinguished Teaching Professor, College of Medicine, CMU (2007)

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

**Appointments:**

2002-2004: Postdoctoral fellow: Institute of Biomedical Sciences, Academia Sinica

2005-2007: Postdoctoral fellow: Department of Molecular and Cellular Oncology, University Texas M.D. Anderson Cancer Center

2007-2011: Assistant Professor: Graduate Institute of Cancer Biology, CMU

2011-2015: Associate Professor: Graduate Institute of Cancer Biology, CMU

2011-present: Research Fellow: Center for Molecular Medicine, CMUH

2011-2016: Director: Graduate Institute of Cancer Biology, CMU

2015-present: Professor: Graduate Institute of Biomedical Sciences, CMU

2017-present: Dean: Graduate Student Affairs, CMU

**Research Interests:**

The research themes in my lab aim to decipher the signaling pathways important for cancer epigenetic regulation, epigenome and stem cell signaling. We have combined the biochemical approaches and disease mouse model to address the relevant epigenetics regulation in cancer progression and stem cells differentiation. Several areas of the research are actively studied in my lab.

**Representative Publications:**

[EGFR modulates DNA synthesis and repair through Tyr phosphorylation of histone H4.](#) Chou RH, Wang YN, Hsieh YH, Li LY, Xia W, Chang WC, Chang LC, Cheng CC, Lai CC, Hsu JL, Chang WJ, Chiang SY, Lee HJ, Liao HW, Chuang PH, Chen HY, Wang HL, Kuo SC, Chen CH, Yu YL\*, Hung MC\*. *Dev Cell.* **2014** Jul 28;30(2):224-37.

[Epigenetic regulation of the miR142-3p/interleukin-6 circuit in glioblastoma.](#) Chiou GY#, Chien CS#, Wang ML#, Chen MT#, Yang YP#, Yu YL#, Chien Y, Chang YC, Shen CC, Chio CC, Lu KH, Ma HI, Chen KH, Liu DM, Miller SA, Chen YW, Huang PI, Shih YH, Hung MC, Chiou SH\*. *Mol Cell.* **2013** Dec 12;52(5):693-706.

[Downregulation of microRNA-15b by hepatitis B virus X enhances hepatocellular carcinoma proliferation via fucosyltransferase 2-induced Globo H expression.](#) Wu CS, Yen CJ, Chou RH, Chen JN, Huang WC, Wu CY, Yu YL\*. *Int J Cancer.* **2014** Apr 1;134(7):1638-47. doi: 10.1002/ijc.28501.

[Role of stress-inducible protein-1 in recruitment of bone marrow derived cells into the ischemic brains.](#) Lee SD, Lai TW, Lin SZ, Lin CH, Hsu YH, Li CY, Wang HJ, Lee W, Su CY, Yu YL\*, Shyu WC\*. *EMBO Mol Med.* **2013** Aug;5(8):1227-46.

[Smurf2-mediated degradation of EZH2 enhances neuron differentiation and improves functional recovery after ischaemic stroke.](#) Yu YL\*, Chou RH, Shyu WC, Hsieh SC, Wu CS, Chiang SY, Chang WJ, Chen JN, Tseng YJ, Lin YH, Lee W, Yeh SP, Hsu JL, Yang CC, Hung SC, Hung MC\*. *EMBO Mol Med.* **2013** Apr;5(4):531-47.

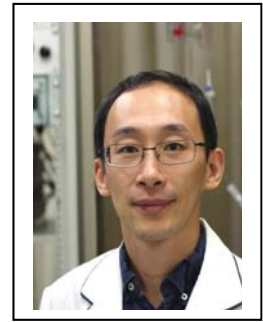
Assistant Professor, Graduate Institution of Biomedical Sciences, College of Medicine

Ph.D., University of British Columbia (Canada), 2010

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URL: [http://gibs.cmu.edu.tw/english/faculty\\_neurosci.html](http://gibs.cmu.edu.tw/english/faculty_neurosci.html)



**Research Interests:** Neuroscience, synaptic plasticity, channel modulation, receptor trafficking, genetic disease

**Appointments:**

2010-2011: Postdoctoral fellow: University of British Columbia

2011- present: Investigator, Translational Medical Center, CMUH

2012- present: Assistant Professor: Graduate Institute of Clinical Medical Science, CMU

2016-present: Assistant Professor: Graduate Institute of Biomedical Sciences

**Research Interests:**

The research themes in my lab aim to decipher the underlying mechanism of neurological disease (genetic involved). We have combined the biochemical, molecular biological and electrophysiological approaches and disease mouse model to investigate the relevant neuronal circuits, channel function and modulation.

**Representative Publications:**

Shen ML, Wang CH, Lin CH, Zhou N, Kao ST, Wu DC. Luteolin attenuates airway mucus overproduction via inhibition of the GABAergic system. *Sci Rep.* 2016 Sep 6; (6)32756.

Shen ML, Wang CH, Chen RY, Zhou N, Kao ST, Wu DC. Luteolin inhibits GABA<sub>A</sub> receptors in HEK cells and brain slices. *Sci Rep.* 2016 Jun 13; (6)27695

Lin CH, Shen ML, Zhou N, Lee CC, Kao ST, Wu DC. Protective Effects of the Polyphenol Sesamin on Allergen-Induced TH2 Responses and Airway Inflammation in Mice. *PLoS One.* 2014 April 22;9(4): e96091 DOI: 10.1371/journal.pone.0096091

Zhou N, Wang CH, Zhang S, Wu DC. The GLRA1 Missense Mutation W170S Associates Lack of Zn<sup>2+</sup> Potentiation with Human Hyperekplexia. *J Neurosci.* 2013, 33(45):17675-81.

Zhou N, Rungta RL, Malik A, Han H, Wu DC, MacVicar BA. Regenerative glutamate release by presynaptic NMDA receptors contributes to spreading depression. *J Cereb Blood Flow Metab.* 2013 Oct;33(10):1582-94. doi: 10.1038/jcbfm.2013.113. Epub 2013 Jul 3

Dalton GL, Wu DC, Wang YT, Floresco SB, Phillips AG. NMDA GluN2A and GluN2B receptors play separate roles in the induction of LTP and LTD in the amygdala and in the acquisition and extinction of conditioned fear. *Neuropharmacology.* 2012 Feb.62(2):797-806.SCI

Liu J\*, Wu DC\*, Wang YT. Allosteric potentiation of glycine receptor chloride currents by glutamate. *Nat Neurosci.* 2010 Oct;13(10):1225-32. doi: 10.1038/nn.2633. Epub 2010 Sep 12.

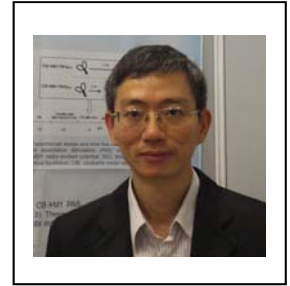


Assistant Professor, Graduate Institution of Biomedical Sciences, College of Medicine

Attending Physician, Department of Neurology, China Medical University Hospital

M.D., China Medical University (Taiwan), 1996

Ph.D., Johann Wolfgang Goethe-Universität, Frankfurt (Germany), 2010



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**Research Interests:** Clinical neurophysiology, Human motor control, Movement disorders

**Academic Distinctions:**

Elite Attending Physician, China Medical University Hospital (2012)

**Appointments:**

2008-2012: Lecturer of School of Medicine, CMU

2012-present: Assistant Professor: Graduate Institute of Biomedical Sciences, CMU

**Research Interests:**

The main themes in our neuroscience laboratory include but not limit studying pathophysiology of movement disorders in humans. We integrate multiple electrophysiological tools such as movement related potentials, transcranial magnetic stimulation, electroacupuncture and imaging data to investigate disease pathophysiology in the system level. The current projects aim to clarify the role of the cerebellum and its interactions with motor cortex in the movement disorders such as Parkinson's disease, essential tremor and dystonia. Two novel transcranial magnetic stimulation strategies have been developed and tried for clinical application.

**Representative Publications:**

[Investigation of motor cortical plasticity and corticospinal tract diffusion tensor imaging in patients with Parkinson's disease and essential tremor.](#) Lu MK, Chen CM, Duann JR, Ziemann U, Chen JC, Chiou SM, Tsai CH. **PLoS One** 2016 Sep 7;11(9):e0162265

[Resetting tremor by single and paired transcranial magnetic stimulation in Parkinson's disease and essential tremor.](#) Lu MK, Chiou SM, Ziemann U, Huang HC, Yang YW, Tsai CH. **Clin Neurophysiol** 2015 Dec;126(12):2330-2336

[Anatomical and electrophysiological manifestations in a patient with congenital corpus callosum agenesis.](#) Hsu YT, Duann JR, Chen CM, Yang YW, Tsai CH, Lu MK\*. **Brain Topogr** 2013 Jan;26(1):171-176

[Cerebellum to motor cortex paired associative stimulation induces bidirectional STDP-like plasticity in human motor cortex.](#) Lu MK, Tsai CH, Ziemann U. **Front Hum Neurosci** 2012 Sep 19;6:260

[Movement related cortical potentials of cued versus self-initiated movements: double dissociated modulation by dorsal premotor cortex versus supplementary motor area rTMS.](#) Lu MK, Arai N, Tsai CH, Ziemann U. **Hum Brain Mapp** 2012 Apr;33(4):824-839.

JING-LING LI

Associate Professor, Graduate Institution of Biomedical Sciences, College of Medicine

Ph.D., Dept. of Psychology, National Taiwan University, 2004

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**Research Topics:** Human attention, cognitive sciences, experimental psychology

**Appointments:**

2004-2005: Postdoctoral fellow: Department of Psychology, National Taiwan University

2006-2007: Postdoctoral fellow: Department of Psychology, University College London

2007-2008: Assistant Professor: General Education Center, CMU

2008-2012: Assistant Professor: Graduate Institute of Neural and Cognitive Sciences, CMU

2012-2015: Associate Professor: Graduate Institute of Neural and Cognitive Sciences, CMU

2015-present: Associate Professor: Graduate Institute of Biomedical Sciences, CMU

**Research Interests:**

The research topics in our lab are on attention, which decides what we look at and how we react on. The first line is about sources of attentional control, which could be controlled by stimuli or by intention. The competition between salient attractions in the environment and the goal of the agent occurred in every condition but can be resulted in different solutions. Our studies aim to specify which is more dominate in the selected conditions. Another line is about how attention affects the perceived location of objects. Physical stimuli can group according to either Gestalt principles or our intentions/experience. We discovered an interesting interaction between perceptual grouping and salience, which indicates some salient items actually harm visual search. We also studied executive functions on both normal participants and patients. The patients includes those with Parkinson's disease, Major Depression, and Attention Deficit and / Hyperactivity Disorder.

**Representative Publications:**

**Jingling, L.,** Lin, H.-F., Tsai, C.-J., Lin, C.-C. (2015). [Development of Inhibition of Return for Eye Gaze in Adolescents](#). *Journal of Experimental Child Psychology*, 137, 76-84.

DOI:10.1016/j.jecp.2015.04.001

Tseng C-h, **Jingling L** (2015) [A Salient and Task-Irrelevant Collinear Structure Hurts Visual Search](#). *PLoS ONE* 10(4): e0124190. doi:10.1371/journal.pone.0124190

**Jingling, L.,** Tseng, C.-H., & Zhaoping, L. (2013). [Orientation is different: Interaction between contour integration and feature contrasts in visual search](#). *Journal of Vision* 13(3):26, 1–13

**Jingling, L.,** Tan, D.-L., & Tseng, C.-H. (2013). [Salient collinear grouping diminishes local salience in visual search: An eye movement study](#). *Journal of Vision* 13(12):6, 1–10

**Jingling, L.,** & Tseng, C.-H. (2013). [Collinearity impairs local element visual search](#). *Journal of Experimental Psychology: Human Perception and Performance*. 39(1):156-67. doi: 10.1037/a0027325..

**HUEY-SHAN HUNG**

Associate Professor, Graduate Institution of Biomedical Sciences, College of Medicine

Ph.D., Institute of Medicine Taiwan Kaoshiung Medical University, 2006

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**Research Interests:** Nanobiotechnology & Regeneration medicine, Stem cell & Tissue Engineering, Biomaterials & Application

**Academic Distinctions:**

Assistant Professor, College of Medicine, CMU (2009)

Associate Professor, College of Medicine, CMU (2015)

**Appointments:**

2006-2008: Postdoctoral fellow: National Chung Hsing University.

2008-2009: Assistant Investigator, Center for Neuropsychiatry, China Medical University Hospital.

2009-2015: Assistant Professor Graduate Institute of Basic Medical Science, China Medical University.

2015-present: Associate Professor: Graduate Institute of Biomedical Sciences, China Medical University.

**Research Interests:**

The research themes in my lab aim to decipher the stem cell biology, tissue engineering and biomaterial development important for biomedicine application. We have combined the bionanotechnology approaches to address the relevant novel surface modification techniques in vascular tissue engineering application.

**Representative Publications:**

Prominent vascularization capacity of mesenchymal stem cells in collagen-gold nanocomposites. Hsieh SH, Chen HJ, Hsu SH, Yang YC, Tang CM, Chu MY, Lin PY, Fu RH, Kung ML, Chen YW, Yeh BW, **Hung HS\***. **ACS Applied Materials & Interfaces**, 2016Oct, 8:28982-29000.

Hyaluronic acid-fabricated nanogold delivery of the inhibitor of apoptosis protein-2 siRNAs inhibits benzo [a] pyrene-induced oncogenic properties of lung cancer A549 cells. Lin CM, Kao WC, Yeh CA, Chen HJ, Lin SZ, Hsieh HH, Sun WS, Chang CH, **Hung HS\***. **NANOTECHNOLOGY**, 2015 Feb, 26(10), 105101 (20 pp).

Regulation of human endothelial progenitor cell (EPC) maturation by polyurethane nanocomposites. **Hung HS\***, Yang YC, Lin YC, Lin SZ, Kao WC, Hsieh HH, Chu MY, Fu RH, Hsu SH. **BIOMATERIALS**, 2014Aug, 35(25):6810-6821.

In vitro study of a novel nanogold-collagen composite to enhance the mesenchymal stem cell behavior for vascular regeneration. **Hung HS\***, Chang CH, Chang CJ, Tang CM, Kao WC, Lin SZ, Hsieh HH, Chu MY, Sun WS, Hsu SH. **PLoS One**, 2014May, 9(8):e104019-e104019.

Biocompatibility and favorable response of mesenchymal stem cells on fibronectin-gold nanocomposites. **Hung HS\***, Tang CM, Lin CH, Lin SZ, Chu MY, Sun WS, Kao WC, Hsieh HH, Huang CY, Hsu SH. **PLoS One**, 2013Jun, 8(6): e65738.



## CMU Faculty Profile

### WEN-LUNG MA (Maverick)

Associate Professor, Graduate Institution of Biomedical Sciences, School of Medicine

Ph.D., University of Rochester (USA), 2009

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**Research Interests:** EOLT hypothesis of cancer biology

#### Academic Distinctions:

1. Aflac Inc. Young Investigator Award, Travel grant for Scientist-In-Training Award (American Association for Cancer Research Annual meeting (101<sup>st</sup> AACR), Washington, D.C., USA (2010)
2. Best Research Paper Award, Taiwan Liver Disease Association, Taiwan (2010)
3. Distinguished Research Faculty, School of Medicine, CMU, Taiwan (2012)
4. Outstanding Junior Scientist Grant Award, Ministry of Sciences and Technology (MOST), Taiwan (2015)

#### Appointments:

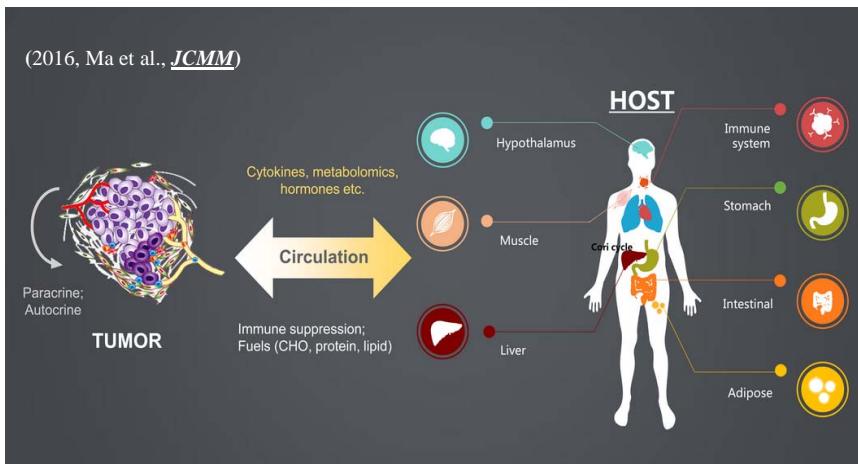
2009-2010 : Postdoctorate fellow: University of Rochester Medical Center, NY, USA

2010~ : Researcher: Sex Hormone Research Center, CMUH, Taiwan

2011-2016 : Assistant Professor: Graduate Institution of Clinical Medical Science, CMU

2016~ : Associate Professor: Graduate Institute of BioMedical Sciences, CMU

#### Research Interests:



Maverick's research theme has been focus on a novel cancer macroenvironmental regulation called "EOLT (Endocrine Organ-Like Tumor) hypothesis". We hypothesized that cancer dominant systemic homeostasis in an endocrine-organ like fashion, and an evolutionary manner. We believe such tumor vs host interaction is the driving force to cancer progression and determines cancer survival.

#### Representative Publications:

1. **Hypothesis: Solid Tumors Behave As Metabolic Dictators**, 2016 *J. of Cell. and Mole. Med.*, Lee YM and Ma **WL\*** et al, 2016, Jun;20(6):1076-85. (MEDICINE, RESEARCH & EXPERIMENTAL 17/124=13.7%;\* corresponding author)
2. **Hepatic androgen receptor suppresses hepatocellular carcinoma metastasis through modulation of cell migration and anoikis**, **Ma WL\*** and Chang C et al, *Hepatology*. 2012, 56(1): 176-85. (GASTROENTEROLOGY & HEPATOLOGY: 5/76=6.6%; \* First author)
3. **Androgen receptor promotes hepatitis B virus-induced hepatocarcinogenesis through modulation of hepatitis B virus RNA transcription**, Wu MH, **Ma WL\***, and Chang C. et al. *Science Translational Medicine*. 2010 May 19;2(32):32ra35. (MEDICINE, RESEARCH & EXPERIMENTAL: 2/123=1.63%;; \* Co-first author)
4. **Androgen receptor is a new potential therapeutic target for the treatment of hepatocellular carcinoma**, **Ma WL\***, and Chang C et al., *Gastroenterology*. 2008 Sep;135(3):947-55, 955. (GASTROENTEROLOGY & HEPATOLOGY: 1/76=1.32%; \* First author)

## CMU Faculty Profile

### WIE-CHAO CHNAG

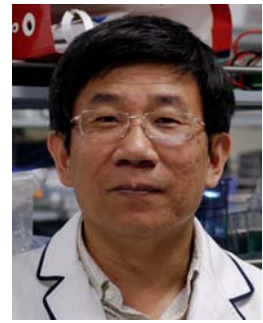
Assistant Professor, Graduate Institution of Biomedical Sciences, College of Medicine

Ph.D., National Taiwan University (Taiwan), 1998

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URL: [http://gibs.cmu.edu.tw/english/faculty\\_tumor.html](http://gibs.cmu.edu.tw/english/faculty_tumor.html)



**Research Interests:** Cancer Recurrence, Cancer Metastasis

**Academic Distinctions:**

**Appointments:**

2005-2010: Postdoctoral Fellow, Genomics Research Center, Academia Sinica

2011- present: Associate Research Fellow: Center for Molecular Medicine, CMUH

2011- 2016: Assistant Professor: Graduate Institute of Cancer Biology, CMU

2017- present: Assistant Professor, Graduate Institute of Biomedical Sciences, CMU

**Research Interests:**

I am interested in studying the molecular signaling involving in cancer metastasis, especially cancer recurrence of early stage disease. We use proteomic approaches to identify the novel biomarkers to predict cancer recurrence and develop several therapeutic strategies to prevent the occurrence of cancer recurrence, including the modification of adjuvant therapy and the elimination of circulating tumor cells.

**Representative Publications:**

[Sciellin mediates mesenchymal-to-epithelial transition in colorectal cancer hepatic metastasis.](#) Chou CK, Fan CC, Lin PS, Liao PY, Tung JC, Hsieh CH, Hung MC, Chen CH, **Chang WC\***. *Oncotarget*. **2016** May 3;7(18):25742-54.

[ICAMI Is a Potential Cancer Stem Cell Marker of Esophageal Squamous Cell Carcinoma.](#) Tsai ST, Wang PJ, Liou NJ, Lin PS, Chen CH, **Chang WC\***. *PLoS One*. **2015** Nov 16;10(11):e0142834.

[EGFR modulates microRNA maturation in response to hypoxia through phosphorylation of AGO2.](#) Shen J, Xia W, Khotskaya YB, Huo L, Nakanishi K, Lim SO, Du Y, Wang Y, **Chang WC**, Chen CH, Hsu JL, Wu Y, Lam YC, James BP, Liu X, Liu CG, Patel DJ, Hung MC\*. *Nature*. **2013** May 16;497(7449):383-7.

[Dermcidin identification from exhaled air for lung cancer diagnosis.](#) **Chang WC**, Huang MS, Yang CJ, Wang WY, Lai TC, Hsiao M, Chen CH\*. *Eur Respir J*. **2010** May;35(5):1182-5.

[Matrix-assisted laser desorption/ionization \(MALDI\) mechanism revisited.](#) **Chang WC**, Huang LC, Wang YS, Peng WP, Chang HC, Hsu NY, Yang WB, Chen CH\*. *Anal Chim Acta*. **2007** Jan 16;582(1):1-9.

**CMU** Faculty Profile  
**SUNNY LI-YUN CHANG**

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**Research Interests:** Developmental Neuroscience, Neurobiology, Traditional Chinese Medicine, Acupuncture

**Academic Distinctions:**

National Health Research Institutes Postdoctoral Fellowship Award, Taiwan (2005)

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

**Appointments:**

2004-2007: Postdoctoral Fellow, Institute of Neuroscience, National Yang-Ming University

2007-2013: Assistant Professor, Graduate Institute of Molecular Systems Biomedicine, CMU

2013-2014: Assistant Professor, Graduate Institute of Basic Medical Science, CMU

2014-2016: Associate Professor, Graduate Institute of Basic Medical Science, CMU

2016-present: Associate Professor, Graduate Institution of Biomedical Sciences, CMU

**Research Interests:**

My research interests focus on studying the molecular mechanism underlying the neuronal subtype specification and exploring potential therapeutics for intracranial hemorrhage. Currently, I am developing research in studying acupuncture and the basic theories/ideas of Traditional Chinese Medicine using animal and cultured cell models.

**Representative Publications:**

[The C-terminal region of G72 increases D-amino acid oxidase activity.](#) Chang SL, Hsieh CH, Chen YJ, Wang CM, Shih CS, Huang PW, Mir A, Lane HY, Tsai GE, Chang HT\*. *Int J Mol Sci.* 2013 Dec 20; 15(1):29-43.

[Downregulation of DAB2IP promotes mesenchymal-to-neuroepithelial transition and neuronal differentiation of human mesenchymal stem cells.](#) Chang SL, Chou RH, Zeng HJ, Lin YH, Chiu TY, Yang DM, Hung SC, Lai CH, Hsieh JT, Shyu WC\*, Yu YL\*. *PLoS One.* 2013 Sep 20; 8(9):e75884.

[Ectopic expression of nolz-1 in neural progenitors promotes cell cycle exit/premature neuronal differentiation accompanying with abnormal apoptosis in the developing mouse telencephalon.](#) Chang SL, Chen SY, Huang HH, Ko HA, Liu PT, Liu YC, Chen PH, Liu FC\*. *PLoS One.* 2013 Sep 20; 8(9):e74975.

[Identification of two evolutionarily conserved 5' cis-elements involved in regulating spatiotemporal expression of Nolz-1 during mouse embryogenesis.](#) Chang SL, Liu YC, Chen SY, Huang TH, Liu PT, Liu FC\*. *PLoS One.* 2013 8(1):e54485.

[Region- and cell type-selective expression of the evolutionarily conserved Nolz-1/zfp503 gene in the developing mouse hindbrain.](#) Chang SL, Yan YT, Shi YL, Liu YC, Takahashi H, Liu FC\*. *Gene Expr Patterns.* 2011 Dec;11(8):525-32.

[Identification of a developmentally regulated striatum-enriched zinc-finger gene, Nolz-1, in the mammalian brain.](#) Chang CW, Tsai CW, Wang HF, Tsai HC, Chen HY, Tsai TF, Takahashi H, Li HY, Fann MJ, Yang CW, Hayashizaki Y, Saito T, Liu FC\*. *Proc Natl Acad Sci U S A.* 2004 Feb 24;101(8):2613-8.

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**Research Interests:** Wnt Signal Transduction, MACF1 Functions, Protein Degradation, Cancer Biology, Drug Screening and its Action Mechanism

**Academic Distinctions:**

**Appointments:**

- 2000-2000: Postdoctoral Research Fellow, Institute of Molecular Biology, Academia Sinica, Taipei, Taiwan
- 2000-2001: Postdoctoral Research Fellow, Department of Pathology, Weill Medical College of Cornell University
- 2001-2004: Postdoctoral Research Scientist, Department of Pathology, Columbia University
- 2004-2007: Associate Research Scientist, Department of Pathology and Cell Biology, Columbia University
- 2007-2007: Postdoctoral Research Fellow, Institute of Molecular Biology, Academia Sinica, Taipei, Taiwan
- 2007-2013: Assistant Professor, China Medical University
- 2013-present: Associate Professor, China Medical University

**Research Interests:**

Our lab has been focusing on three main projects. The first one is the study of Wnt signaling and Wnt-related diseases such as cancers. The second one is to screen anti-cancer drugs and study their underlying mechanism. The third one is to investigate the biological functions of cytolinker protein MACF1.

**Representative Publications:**

- [The role of Microtubule Actin Crosslinking Factor 1 \(MACF1\) in the Wnt signaling pathway.](#) **Chen HJ**, Lin CM, Lin CS, Perez-Olle R, Leung CL, Liem RKH\*. **Genes Dev.** **2006** Jul 15;20(14):1933-45.
- [Investigation of anti-leukemia molecular mechanism of ITR-284, a carboxamide analog, in leukemia cells and its effects in WEHI-3 leukemia mice.](#) Wen YF, Yang JS, Kuo SC, Hwang CS, Chung JG, Wu HC, Huang WW, Jhan JH, Lin CM, **Chen HJ**\*. **Biochem Pharmacol.** **2010** Feb 1;79(3):389-98.
- [The  \$\beta\$ -catenin/TCF complex as a novel target of resveratrol in the Wnt/ \$\beta\$ -catenin signaling pathway.](#) **Chen HJ**, Hsu LS, Shia YT, Lin MW, Chen YC, Lin CM\*. **Biochem Pharmacol.** **2012** Nov 1;84(9):1143-53.
- [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.](#) Hseu YC, Thiyagarajan V, Tsou HT, Lin KY, **Chen HJ**, Lin CM, Liao JW, Yang HL\*. **Oncotarget.** **2016** Apr 19;7(16):22409-26.
- [Prominent vascularization capacity of mesenchymal stem cells in collagen-gold nanocomposites.](#) Hsieh SC<sup>#</sup>, **Chen,HJ**<sup>#</sup>, Hsu SH, Yang YC, Tang CM, Chu MY, Lin PY, Fu RH, Kung ML, Chen YW, Yeh BW, Hung HS\*. **ACS Appl Mater Interfaces.** **2016** Oct 7;8(42), 28982-29000. (#, equal contribution)

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**Research Interests:** protein functional sites prediction, protein dynamics, drug screening, protein–molecule interaction and systems biology

**Academic Distinctions:**

Distinguished Faculty Awards, College of Medicine, CMU (2016)

Distinguished Teaching Awards, Graduate Institute of Basic Medical Science, CMU (2014)

Distinguished Mentors Awards, Graduate Institute of Basic Medical Science, CMU (2014)

Distinguished Mentors Awards, Graduate Institute of Basic Medical Science, CMU (2013)

Distinguished Mentors Awards, Graduate Institute of Molecular Systems Biomedicine, CMU (2011)

**Appointments:**

2007-2008: Postdoctoral fellow: Department of Biotechnology, National Chiao Tung University, Hsinchu, Taiwan

2007-2008: Visiting Scholar: University of Illinois at Chicago, U.S.A.

2008-2013: Assistant Professor: Graduate Institute of Molecular Systems Biomedicine, CMU

2013-2015: Assistant Professor: Graduate Institute of Basic Medical Science, CMU

2015-2016: Associate Professor: Graduate Institute of Basic Medical Science, CMU

2016-present: Associate Professor: Graduate Institute of Biomedical Sciences, CMU

**Research Interests:**

My research interests focus on the structural bioinformatics, which include protein functional sites prediction, protein dynamics, drug screening, protein–molecule interaction and systems biology. My expertise lies at protein structure analysis, machine learning, genetic algorithm and computer aided drug design.

**Representative Publications:**

[MIB: Metal Ion-Binding site prediction and docking server](#). YF Lin, CW Cheng, CS Shih, JK Hwang, CS Yu and **CH Lu\***. *Journal of Chemical Information and Modeling* (2016), 56 (12), pp 2287–2291

[Predicting Flavin and Nicotinamide Adenine Dinucleotide–Binding Sites in Proteins Using the Fragment Transformation Method](#). **Lu CH\***, Yu CS, Lin YF and Chen JY. *BioMed Research International* (2015), Volume 2015, Article ID 402536

[EXIA2: Web Server of Accurate and Rapid Protein Catalytic Residue Prediction](#). **Lu CH**, Chien YT, Yu CS and Huang SW\*. *BioMed Research International* (2014), Volume 2014, Article ID 807839

[CELLO2GO: A Web Server for Protein subCELLular LOfocalization Prediction with Functional Gene Ontology Annotation](#). Yu CS, Cheng CW, Chang KC, Su WC, Huang SW, Hwang JK and **Lu CH\***. *PLoS One* (2014), 9(6):e99368

[Prediction of Metal Ion-Binding Sites in Proteins Using the Fragment Transformation Method](#). **Lu CH\***, Lin YF, Lin JJ, Yu CS. *PLoS One* (2012), 7(6):e39252



# CMU Faculty Profile

RU-HUEI FU

Associate Professor, Graduate Institution of Biomedical Sciences, College of Medicine

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URL: [http://webap.cmu.edu.tw/TchEportfolio/index\\_1/rhfu](http://webap.cmu.edu.tw/TchEportfolio/index_1/rhfu)



**Research Interests:** Alternative RNA splicing, Dendritic cell, immunology, and Neurodegenerative disease

## Academic Distinctions:

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

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

## Appointments:

2003-2006: Postdoctoral fellow: Institute of Molecular Biology, Academia Sinica

2006-2008: Postdoctoral fellow: Institute of Biomedical Sciences, Academia Sinica

2009-2014: Assistant Professor: Graduate Institute of Immunology, CMU

2014-2016: Associate Professor: Graduate Institute of Immunology, CMU

2008-2016: Assistant Research Fellow: Center for Neuropsychiatry, CMUH

2016-present: Assistant Research Fellow: Translational Medicine Research Center, CMUH

## Research Interests:

Our lab focuses on the relationship of immunomodulation (regulatory dendritic cell) and neurodegenerative disease (Parkinson's disease, Amyotrophic lateral sclerosis and Stroke), using *Saccharomyces cerevisiae*, *Caenorhabditis elegans*, mammalian cell line, mice and rats as models.

## Representative Publications:

[Irisflorentin modifies properties of mouse bone marrow-derived dendritic cells and reduces the allergic contact hypersensitivity responses.](#) Fu RH\*, Tsai CW, Tsai RT, Liu SP, Chan TM, Ho YC, Lin HL, Chen YM, Hung HS, Chiu SC, Tsai CH, Wang YC, Shyu WC, Lin SZ\*. **Cell Transplant.** 2015;24(3):573-88.

[Acetylcholine attenuates dopaminergic neuron degeneration and  \$\alpha\$ -synuclein aggregation in animal models of Parkinson's disease.](#) Fu RH\*, Wang YC, Chen CS, Tsai RT, Liu SP, Chang WL, Lin HL, Lu CH, Wei JR, Wang ZW, Shyu WC, Lin SZ\*. **Neuropharmacology** 2014 Jul;82:108-20.

[Spatial control of cells, peptide delivery and dynamic monitoring of cellular physiology with chitosan-assisted dual color quantum dot FRET peptides.](#) Fu RH, Liu SP, Ou CW, Huang CM, Wang YC. **Acta Biomater.** 2010 Sep;6(9):3621-9.

[CPAP is a cell-cycle regulated protein that controls centriole length.](#) Tang CJ, Fu RH, Wu KS, Hsu WB, Tang TK\*. **Nat Cell Biol.** 2009 Jul;11(7):825-31.

[Spliceosome disassembly catalyzed by Prp43 and its associated components Ntr1 and Ntr2.](#) Tsai RT#, Fu RH#, Yeh FL#, Tseng CK, Lin YC, Huang YH, Cheng SC\*. **Genes Dev.** 2005 Dec 15;19(24):2991-3003.

**CHIH-HSIN TANG**

Dean of the Department of Research & Development, China Medical University  
Deputy Director of the Graduate Institute of Biomedical Sciences, China Medical University

Director of the Graduate Institute of Basic Medical Science, China Medical University

PhD; National Taiwan University (Taiwan) 2005

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**Research Interests:** Pharmacology, Cancer Pharmacology, Endocrinology Pharmacology, Bone metabolism, Bone cancer, Tumor Metastasis to Bone, Drug development

**Academic Distinctions:**

2010 Ta-You Wu Memorial Award, National Science Council, Taiwan

2010 Best Teaching Award, College of Medicine, China Medical University

2011 Santa Cruz 2011 July Award, Santa Cruz Company

2011 Best Teaching Award, College of Medicine, China Medical University

2013 51th Ten Outstanding Young Persons (Taiwan)

2013 China Medical University Investigator Award

2014 Outstanding Alumni Award from Tajen University

2014 Excellent Young Scholar Award, Ministry of Science and Technology

**Appointments:**

2003-2005; **Teaching Assistant**; Department of Pharmacology, National Taiwan University

2005-2006; **Postdoctoral Fellow**, Department of Pharmacology, National Taiwan University

2006-2009; **Assistant Professor**, Department of Pharmacology, China Medical University

2009-2012; **Associate Professor**, Department of Pharmacology, China Medical University

2012-; **Professor and Director**, Graduate Institute of Basic Medical Science, China Medical University

2016-; **Professor and Deputy Director**, Graduate Institute of Biomedical Science, China Medical University

2016-; **Dean of the Department of Research & Development**, China Medical University

**Representative Publications:**

1. Wang CQ, Huang YW, Wang SW, Huang YL, Tsai CH, Zhao YM, Huang BF, Xu GH, Fong YC, **Tang CH\***. [Amphiregulin enhances VEGF-A production in human chondrosarcoma cells and promotes angiogenesis by inhibiting miR-206 via FAK/c-Src/PKCdelta pathway](#). *Cancer letters*. 2017; 385:261-270.
2. Chen CY, Su CM, Hsu CJ, Huang CC, Wang SW, Liu SC, Chen WC, Fuh LJ, **Tang CH\***. [CCN1 Promotes VEGF Production in Osteoblasts and Induces Endothelial Progenitor Cell Angiogenesis by Inhibiting miR-126 Expression in Rheumatoid Arthritis](#). *Journal of bone and mineral research : the official journal of the American Society for Bone and Mineral Research*. 2017; 32(1):34-45.
3. Yang WH, Chang AC, Wang SW, Wang SJ, Chang YS, Chang TM, Hsu SK, Fong YC, **Tang CH\***. [Leptin promotes VEGF-C production and induces lymphangiogenesis by suppressing miR-27b in human chondrosarcoma cells](#). *Scientific reports*. 2016; 6:28647. (IF=5.228 ; R/C= 7/63 · MULTIDISCIPLINARY SCIENCES)
4. Tsai CH, Liu SC, Wang YH, Su CM, Huang CC, Hsu CJ, **Tang CH\***. [Osteopontin inhibition of miR-129-3p enhances IL-17 expression and monocyte migration in rheumatoid arthritis](#). *Biochimica et biophysica acta*. 2016; 1861(2):15-22.
5. Su CM, Hsu CJ, Tsai CH, Huang CY, Wang SW, **Tang CH\***. [Resistin Promotes Angiogenesis in Endothelial Progenitor Cells Through Inhibition of MicroRNA206: Potential Implications for Rheumatoid Arthritis](#). *Stem cells (Dayton, Ohio)*. 2015; 33(7):2243-2255.
6. Liu GT, Huang YL, Tzeng HE, Tsai CH, Wang SW, **Tang CH\***. [CCL5 promotes vascular endothelial growth factor expression and induces angiogenesis by down-regulating miR-199a in human chondrosarcoma cells](#). *Cancer letters*. 2015; 357(2):476-487.

**CHIH-YANG HUANG**

Dean, Research and Development Office, Asia University, Taiwan

Dean, college of International and cross-strait education, Asia University, Taiwan

Distinguished Professor in Department of Biotechnology, Asia University, Taiwan

Professor, Cardiac molecular signaling Laboratory, Graduate Institute of Basic Medical Science, China Medical University

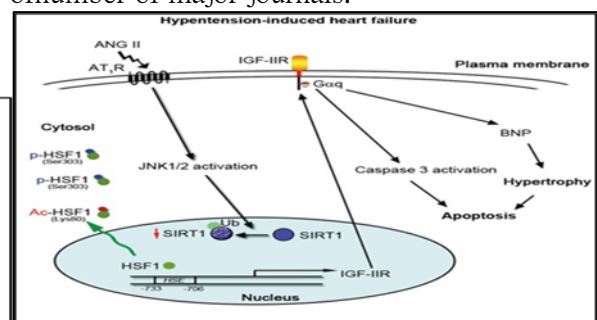
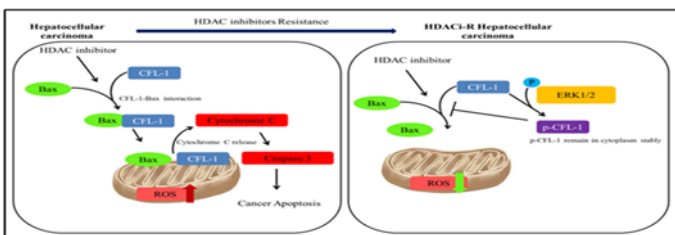
Research consultant, China Medical University and Hospital



- Education/Training:
- National Yang-Ming University, School of Biomedical Science and Engineering, Master of Cardiac Endocrinology (1987-1989) • University of Illinois at Urbana-Champaign, College of Medicine, Master of Molecular Medicine in Breast Cancer (1992-1995), Doctorate of Molecular Medicine in Cardiology (1995-1998), Post-Doctorate Research in Molecular Medicine in Cardiology (1998-1999)
- Molecular Medicine Laboratory
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**Biography**

Dr. Chih-Yang Huang received his Ph.D. from the Institute of Molecular Physiology, University of Illinois, Urbana, USA from 1992-1998. He also served as a Post Doctor at the same lab from 1998-1999. He applied as an Assistant Professor of Chung-Shen Medical U. of Taichung, Taiwan in 1999, and then appointed as associated professor at 2002 and a full Professor in October 2005. His major areas of research are related to 1. Cardiac survival and apoptosis signaling of insulin-like growth factor I and II receptors, and the protective mechanisms of estrogen and estrogen receptors on cardiac myocytes. 2. Roles of miRNAs Protective effect of autologous transplantation of herbal medicine preconditioned adipose-derived stem cells in anti-aging, anti-osteoarthritis and the treatment of diabetic dysfunction in rat model. 3. Rejuvenation mechanisms of functional foods, exercise intervention and Chinese herbal medicine application. 4. Inhibition of liver, colon and oral cancer mechanisms of phyto-estrogen and estrogen receptors. He currently holds many Grants from institution of Taiwan and the clinical heart association. He is running a lab with over 40 members and currently published over 350 peer reviewed papers. He is currently served as the associate editor of BioMedicine and the Mid-Taiwan Journal of Medicine and also served as the editorial board member of number of major journals.



Oncogene (2016) In press

Cell Death and Differentiation (2014) 21, 1262–1274

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**Research Interests:** Cancer Pharmacology, Cancer Epigenetics, Drug resistance, Cancer Metabolism

**Academic Distinctions:**

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

**Appointments:**

- 2003-2006 Postdoctoral fellow: Department of Pharmacology, National Taiwan University
- 2006-2008: Postdoctoral fellow: Department of Molecular and Cellular Oncology, University Texas M.D. Anderson Cancer Center
- 2008-2011: Assistant Professor: Graduate Institute of Cancer Biology, CMU
- 2011-2016: Associate Professor: Graduate Institute of Cancer Biology, CMU
- 2008-present: Research Fellow: Center for Molecular Medicine, CMUH
- 2015-present: Associate Professor: Graduate Institute of Biomedical Sciences, CMU

**Our Research studies:**

The research themes in my lab aim to understand the important regulatory pathways for cancer metabolism, epigenetic gene expressions, cancer stemness, and the molecular mechanism of drug resistance. The impact of environmental factors on the cancer development, drug sensitivity, tumor immune surveillance are also actively investigated in my lab.

**Representative Publications:**

1. Chen JY, Chen YJ, Yen CJ, Chen WS, **Huang WC<sup>#</sup>**. HBx sensitizes hepatocellular carcinoma cells to lapatinib by up-regulating ErbB3. *Oncotarget*. 2016 Jan 5;7(1):473-89.
2. Hsiao YC, Yeh MH, Chen YJ, Liu JF, Tang CH, **Huang WC<sup>#</sup>**. Lapatinib increases motility of triple-negative breast cancer cells by decreasing miRNA-7 and inducing Raf-1/MAPK-dependent interleukin-6. *Oncotarget*. 2015 Nov 10;6(35):37965-78.
3. Chen WS, Liu LC, Yen CJ, Chen YJ, Chen JY, Ho CY, Liu SH, Chen CC, **Huang WC<sup>#</sup>**. Nuclear IKK $\alpha$  mediates microRNA-7/-103/107/21 inductions to downregulate maspin expression in response to HBx overexpression. *Oncotarget*. 2016 Aug 30;7(35):56309-56323.
4. Chen WS, Yen CJ, Chen YJ, Chen JY, Wang LY, Chiu SJ, Shih WL, Ho CY, Wei TT, Pan HL, Chien PH, Hung MC, Chen CC, **Huang WC<sup>#</sup>**. miRNA-7/21/107 contribute to HBx-induced hepatocellular carcinoma progression through suppression of maspin. *Oncotarget*. 2015 Sep 22;6(28):25962-74.
5. Chen YJ, Yeh MH, Yu MC, Wei YL, Chen WS, Chen JY, Shih CY, Tu CY, Chen CH, Hsia TC, Chien PH, Liu SH, Yu YL, **Huang WC<sup>#</sup>**. Lapatinib-induced NF-kappaB activation sensitizes triple-negative breast cancer cells to proteasome inhibitors. *Breast Cancer Res*. 2013 Nov 12;15(6):R108.
6. Hsia TC, Tu CY, Chen YJ, Wei YL, Yu MC, Hsu SC, Tsai SL, Chen WS, Yeh MH, Yen CJ, Yu YL, Huang TC, Huang CY, Hung MC, **Huang WC<sup>#</sup>**. Lapatinib-mediated cyclooxygenase-2 expression via epidermal growth factor receptor/HuR interaction enhances the aggressiveness of triple-negative breast cancer cells. *Mol Pharmacol*. 2013 Apr;83(4):857-69.

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**Research Interests:** Neuropsychopharmacology, Depression, Animal Behavior

**Academic Distinctions:**

The Lecturer at the National Yang-Ming University, Taipei, Taiwan (2006-2008)

The Lecturer at the China Medical University, Taichung, Taiwan (2007-2010)

The Assistant Professor at the China Medical University, Taichung, Taiwan (2010-2013)

The Associate Professor at the China Medical University, Taichung, Taiwan (2013)

**Appointments:**

1994-1995 Rotating Intern, Kaohsiung Medical College Chung-Ho Memorial Hospital, Kaohsiung, Taiwan

1997-2000 Resident at the Taipei City Psychiatric Center, Taipei, Taiwan

2000-2001 Chief Resident at the Taipei City Psychiatric Center, Taipei, Taiwan

2001-2005 Research Fellowship at the Department of Psychiatry, Taipei Veterans General Hospital, Taipei, Taiwan

2005-2005 Visiting Staff at the Department of Psychiatry, Taipei Veterans General Hospital, Taipei, Taiwan

2005-2007 Visiting Staff at the Department of Psychiatry, Chutung Veterans Hospital, Hsinchu, Taiwan

2007- Visiting Staff at the Department of Psychiatry, China Medical University Hospital, Taichung, Taiwan

2006- The Lecturer of Department of Education, Taiwan(No.086028)

2006-2008 The Lecturer at the National Yang-Ming University, Taipei, Taiwan

2007-2010 The Lecturer at the China Medical University, Taichung, Taiwan

2010-2013 The Assistant Professor at the China Medical University, Taichung, Taiwan

2013- The Associate Professor at the China Medical University, Taichung, Taiwan

**Research Interests:**



The research themes in my lab aim to investigate the signaling pathways important for antidepressant via animal models. We have combined the biochemical approaches and disease model to address the relevant glutamatergic receptor regulation in antidepressant effect and depressive disorder.

### Representative Publications:

- Yuan-Yuan Lu, Ming-Yu Wang, I-Hua Wei, Che-Chen Lin, **Chih-Chia Huang\***. Tourette Syndrome Increases Risk of Bone Fractures: a Population-Based Cohort Study. *European Child and Adolescent Psychiatry* 2016 (accepted)
- Kuang-Ti Chen, Ching-Hsiang Wu, Mang-Hung Tsai, Ya-Chieh Wu, Ming-Jia Jou, **Chih-Chia Huang\***, I-Hua Wei\*. Antidepressant-Like Effects of Long-Term Sarcosine Treatment in Rats with or without Chronic Unpredictable Stress. *Behavioural Brain Research* 2017, Jan, (316)1-10
- Chia-Hung Lin, **Chih-Chia Huang\***. A Global Perspective on the Association between the Prevalences of Psychiatric Disorders and Medical Illnesses. *Taiwanese Journal of Psychiatry (Taipei)* 2016, Mar, 30(1) 45-55
- Chih-Chia Huang**, Chia-Jou Lai, Mang-Hung Tsai†, Ya-Chieh Wu, Kuang-Ti Chen, Ming-Jia Jou, Pin-I Fu, Ching-Hsiang Wu\* and I-Hua Wei\*. Effects of melatonin on the nitric oxide system and protein nitration in the hypobaric hypoxic rat hippocampus. *BMC Neuroscience* 2015, Oct, 16:61-
- Kuang-Ti Chen, Mang-Hung Tsai, Ching-Hsiang Wu, Ming-Jia Jou, I-Hua Wei\*, **Chih-Chia Huang\***. AMPA Receptor-mTOR activation is required for the antidepressant-like effects of sarcosine during the forced swim test in rats: insertion of AMPA receptor may play a role. *Frontiers in Behavioral Neuroscience*. 2015 Jun; 9:162.
- Yuan-Yuan Lu, Jung-Hua Hsueh, I-Hua Wei, **Chih-Chia Huang\***. Delirium caused by a drug-drug interaction between bupropion and risperidone. *Journal of Clinical Psychopharmacology*. 2014 Feb; 34(1):161-162.
- Hsien-Yuan Lane, Ching-Hua Lin, Michael F. Green, Gerhard Helleman, **Chih-Chia Huang**, Po-Wei Chen, Rene Tun, Yue-Cung Chang, Guochuan E. Tsai\*. Add-on Treatment of Benzoate for Schizophrenia: A Randomized, Double-blind, Placebo-Controlled Trial of d-Amino Acid Oxidase Inhibitor. *JAMA Psychiatry (Formerly Archives of General Psychiatry)* 2013 Dec 1; 7(12):1267-75.
- Chih-Chia Huang**, I-Hua Wei, Chieh-Liang Huang, Kuang-Ti Chen, Mang-Hung Tsai, Priscilla Tsai, Kuo-Hao Huang, Yue-Cune Chang, Hsien-Yuan Lane\*, and Guochuan Emil Tsai. Inhibition of Glycine Transporter-1 as a Novel Mechanism for the Treatment of Depression. *Biological Psychiatry* 2013; 74:734–741.
- Yuan-Yuan Lu, I-Hua Wei, **Chih-Chia Huang\***. Dental Health – a Challenging Problem for a Patient with Autism Spectrum Disorder. *General Hospital Psychiatry*. 2013;35:214.e1-84.e3.
- Tin-May Li, Chih-Tan Chung, I-Hua Wei, **Chih-Chia Huang\***. Low-dose Clozapine Exacerbates and then Improves Mood in a Patient with Schizophrenia and History of Surgical Removal of an Intraventricular Meningioma. *Journal of Clinical Psychopharmacology*. 2012;32:835-836.
- I-Hua Wei\*, Hui-Chin Tu, **Chih-Chia Huang**, Mang-Hung Tsai, Chi-Yu Tseng, Jeng-Yung Shieh\*. (-)-Epigallocatechin gallate attenuates NADPH-d/nNOS expression in motor neurons of rats following peripheral nerve injury. *BMC Neurosci*. 2011 Jun 1;12:52.
- Chung-Chieh Hung, Tin-May Li, I-Hua Wei, **Chih-Chia Huang\***. The Real Mechanism of VPA-induced

Hyperammonemia Remains Unknown. *General Hospital Psychiatry*. 2011;33:84.e3-84.e4.

**Chih-Chia Huang\***, I-Hua Wei. Unexpected interaction between quetiapine and valproate in patients with bipolar disorder. *General Hospital Psychiatry*. 2010;32:446.e1-446.e2.

Jane Pei-Chen Chang, **Chih-Chia Huang**, Kuan-Pin Su\* Paliperidone overdose in a patient with schizophrenia. *Progress in Neuro-Psychopharmacology & Biological Psychiatry*. 2010;34(2): 418(SCI-2.638; 2008)

Yu-Ting Hsiao, I-Hua Wei, **Chih-Chia Huang\*** Oxcarbazepine- related neutropenia: a case report. *Journal of Clinical Psychopharmacology*. 2010; 30(1): 94-95

Chung-Chieh Hung, I-Hua Wei\*, **Chih-Chia Huang\*** Late-Onset Cholestatic Hepatitis Induced by Olanzapine in a Patient with Schizophrenia. *Progress in Neuro-Psychopharmacology & Biological Psychiatry*. 2009;33(8): 1574-1575.

Yu-Jhen Huang, Hsien-Yuan Lane, Chun-Hui Liao, **Chih-Chia Huang\*** Recurrent Pancreatitis without Eosinophilia on Clozapine Rechallenge. *Progress in Neuro-Psychopharmacology & Biological Psychiatry*. 2009;33(8):1561-1562.

**Chih-Chia Huang**, I-Hua Wei, Yuan-Hwa Chou, Tung-Ping Su\*. Effect of Age, Gender, Menopausal Status, and Ovarian Hormonal Level on rTMS in Treatment-Resistant Depression. *Psychoneuroendocrinology*. 2008 Jul;33(6):821-31.

I-Hua Wei\*, **Chih-Chia Huang**, Chi-Yu Tseng, Huang-Ming Chang, Hui-Chin Tu, Mang-Huang Tsai, Chen-Yuan Wen, Jeng-Yung Shieh\*. Mild hypoxic preconditioning attenuates injury-induced NADPH-d/nNOS expression in brainstem motor neurons of adult rats. *Journal of Chemical Neuroanatomy*. 2008;35(1):123-132.

Tung-Ping Su\*, **Chih-Chia Huang**, I-Hua Wei. Add-on rTMS for medication-resistant depression: a randomized, double-blind, sham-controlled trial in Chinese patients. *The Journal of Clinical Psychiatry*. 2005;66(7):930-937

**Chih-Chia Huang**, Tung-Ping Su\*, I-Hua Wei. Repetitive Transcranial Magnetic Stimulation for Treating Medication-resistant Depression in Taiwan: A Preliminary Study. *Journal of the Chinese Medical Association*. 2005;68(5): 210-215.

I-Hua Wei, **Chih-Chia Huang**, Hung-Ming Chang, Chi-Yu Tseng, Hui-Chin Tu, Chen-Yuan Wen, Jeng-Yung Shieh,\* Neuronal NADPH-d/NOS expression in the nodose ganglion of severe hypoxic rats with or without mild hypoxic preconditioning. *Journal of Chemical Neuroanatomy*. 2005;29 (2):149–156

**Chih-Chia Huang**, Tung-Ping Su\*, Ian-Kai Shan, Kelly Chang, I-Hua Wei. An open trial of daily left Prefrontal Cortex Repetitive Transcranial Magnetic Stimulation for Treating Medication-resistant Depression. *European Psychiatry* 2004;19(8): 523-524.

**Chih-Chia Huang**, Tung-Ping Su\*, Ian-Kai Shan. A case report of repetitive transcranial magnetic stimulation-induced mania. *Bipolar Disorders* 2004; 6 (5): 444-445.

**Chih-Chia Huang**, Tung-Ping Su\*, Ian-Kai Shan, I-Hua Wei. Effect of 5 Hz repetitive transcranial magnetic stimulation on cognition during a Go/NoGo task. *Journal of Psychiatric Research* 2004; 38(5):513-520.

YING-CHIN KO

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**Specialist:** Physician and Epidemiologist

**Academic Distinctions:**

Y.Z.Hsu Scientific Chair Professor award, Y.Z.Hsu Memorial Foundation.(2011)

Fifty Scientific Achievements, National Science Council, ROC. (2008)

Outstanding award for research, National Science Council, ROC. (2008)

Outstanding award for high achievement, Wang Ming-Ning Memorial Foundation. (2000)

Dr. Tu Memorial award for minority's health Research, The Formosan Medical Association. (1997)

Outstanding award for teaching, Ministry of Education, ROC. (1989)

**Appointments:**

2012-Present Director, Environment-Omics-Diseases Research center, China Medical University Hospital, Taiwan.

2012-Present Chair-Professor, China Medical University, Institute of clinical medicine, Taiwan.

2011-Present Adjunct Professor, Institute of Toxicology, College of Medicine, National Taiwan University, Taiwan.

2006-2012 Chair-Professor and Vice-President, Kaohsiung Medical University, Taiwan.

2006-2012 Occupational & Environmental Medicine Specialist, Department of Occupational & Environmental Medicine, Kaohsiung Medical University Hospital, Taiwan.

2003-2006 Principal Investigator, Director of Division of Environmental Health and Occupational Medicine, National Health Research Institutes, Taiwan.

**Research Interests:**

Preclinical studies and clinical trials on Betel quid cessation therapy and oral cancer.

To develop a platform for phosphorylation protein kinases in molecular etiology.

ALPK1 novel functional characterization with conditional knockout mice and cell models.

Patent: 4 Taiwan and USA.

**Representative Publications:**

[Enhanced alpha-kinase 1 accelerates multiple early nephropathies in streptozotocin-induced hyperglycemic mice.](#) Kuo TM, Hsu HT, Chung CM, Yeh KT, Wu CT, Lee CP, Chiang SL, Huang CM, **Ko YC\***. BBA-Mol Basis Dis 2016;1862(11):2034-2042.

[ALPK1 phosphorylates myosin IIA modulating TNF- \$\alpha\$  trafficking in gout flares.](#) Lee CP, Chiang SL, Ko AM, Liu YF, Ma C, Lu CY, Huang CM, Chang JG, Kuo TM, Chen CL, Tsai EM, **Ko YC\***. Sci Rep. 2016; 12; 6:25740.

[Somatic Mutations and Genetic Variants of NOTCH1 in Head and Neck Squamous Cell Carcinoma Occurrence and Development.](#) Liu YF, Chiang SL, Lin CY, Chang JG, Chung CM, Ko AM, Lin YZ, Lee CH, Lee KW, Chen MK, Hua CH, Tsai MH, Chen YC, , **Ko YC\***. Sci Rep. 2016; 1;6:24014.

[Antidepressants in association with reducing risk of oral cancer occurrence: a nationwide population-based cohort and nested case-control studies.](#) Chung CM, Kuo TM, Chiang SL, Wang ZH, Hung CC, Lane HY, Liu CS, **Ko YC\***. Oncotarget. 2016; 7:11687-95.

[Acidic leucine-rich nuclear phosphoprotein-32A \(ANP32A\) association with lymph node metastasis predicts poor survival in oral squamous cell carcinoma patients.](#) Velmurugan BK, Yeh KT, Lee CH, Lin SH, Chin MC, Chiang SL, Wang ZH, Hua CH, Tsai MH, Chang JG, , **Ko YC\***. Oncotarget.2016;7:10879-90.

## CMU Faculty Profile

### RUEY-HWANG CHOU

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College of Medicine, China Medical University (CMU)

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**Research Interests:** Cancer Epigenetics, Signaling in Cancer and Stem Cells, 3D Bio-printing

#### Academic Distinctions:

Marquis Who's Who in Science and Engineering (2016)

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

Marquis Who's Who in the World (2013, 2014)

Research Award, Asia University (2012)

#### Editorial Board member:

2016-2017: Guest Editor, BioMed Research International

2016-present: Editor, BAOJ Medical and Nursing

2017-present: Associate Editors, Journal of Cancer Biology & Research

#### Appointments:

2003-2007: Postdoctoral Fellow, National Health Research Institutes

2007-2008: Assistant Professor, Department of Biotechnology, Asia University

2008-2011: Postdoctoral Fellow, Center for Molecular Medicine, CMUH

2012-2016: Assistant Professor, Graduate Institute of Cancer Biology, CMU

2016-present: Associate Professor, Graduate Institute of Biomedical Sciences, CMU

#### Research Interests:

The research themes in my lab aim to investigate the signaling pathways and epigenetic regulations involved in cancer malignancy and stem cell differentiation. We also development the 3D printing technique for biomedical applications via cross-discipline collaboration.

#### Representative Publications:

<https://www.ncbi.nlm.nih.gov/pubmed?term=Chou%2C%20Ruey%20Hwang%5BAuthor%5D>

[Targeting EMP3 suppresses proliferation and invasion of hepatocellular carcinoma cells through inactivation of PI3K/Akt pathway.](#) Hsieh YH, Hsieh SC, Lee CH, Yang SF, Cheng CW, Tang MJ, Lin CL, Lin CL, **Chou RH\***.

*Oncotarget*. 2015 Oct 27;6(33):34859-74.

[EGFR modulates DNA synthesis and repair through Tyr phosphorylation of histone H4.](#) **Chou RH**, Wang YN, Hsieh YH, Li LY, Xia W, Chang WC, Chang LC, Cheng CC, Lai CC, Hsu JL, Chang WJ, Chiang SY, Lee HJ, Liao HW, Chuang PH, Chen HY, Wang HL, Kuo SC, Chen CH, Yu YL\*, Hung MC\*. *Dev Cell*. 2014 Jul 28;30(2):224-37.

[Smurf2-mediated degradation of EZH2 enhances neuron differentiation and improves functional recovery after ischaemic stroke.](#) Yu YL#, **Chou RH**#, Shyu WC#, Hsieh SC, Wu CS, Chiang SY, Chang WJ, Chen JN, Tseng YJ, Lin YH, Lee W, Yeh SP, Hsu JL, Yang CC, Hung SC, Hung MC\*. *EMBO Mol Med*. 2013 Apr;5(4):531-47.

[Nuclear EGFR suppresses ribonuclease activity of polynucleotide phosphorylase through DNAPK-mediated phosphorylation at serine 776.](#) Yu YL#, **Chou RH**#, Wu CH, Wang YN, Chang WJ, Tseng YJ, Chang WC, Lai CC, Lee HJ, Huo L, Chen CH, Hung MC\*. *J Biol Chem*. 2012 Sep 7;287(37):31015-26.

[EZH2 regulates neuronal differentiation of mesenchymal stem cells through PIP5K1C-dependent calcium signaling.](#) Yu YL#, **Chou RH**#, Chen LT, Shyu WC, Hsieh SC, Wu CS, Zeng HJ, Yeh SP, Yang DM, Hung SC, Hung MC. *J Biol Chem*. 2011 Mar 18;286(11):9657-67.

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**Research Interests:** Cancer Biology, Endocrine, and Traditional Chinese Medicine

**Appointments:**

2016- Professor at Graduate Institute of Biomedical Science, China Medical University

2009-2016 Professor at Graduate Institute of Cancer Biology, College of Medicine, China Medical University

2004-2009 Professor at Institute of Biochemistry and Biotechnology, Medical College, Chung-Shan Medical University

1993-2004 Associated professor at Institute of Biochemistry and Biotechnolgy, Medical College, Chung-Shan Medical University

**Research Interests:**

The research themes in my lab aim to Liver/Breast carcinogenesis and gene target therapy, as well as to Traditional Chinese Medicine and cancer therapy. We have focus on a therapeutic strategy that interrupts the interaction between the two genes, resulting in the decrease of PKC $\alpha$  expression, and the reduction of cell migration and tumorigenesis in cancer progression.

**Representative Publications:**

[Ocimum gratissimum aqueous extract reduces plasma lipid in hypercholesterol-fed hamsters.](#) Pei-Yu Chao, James A. Lin, Wei-Jen Ting, Hsueh-Hui Lee, Kuanghui Hsieh, Yung-Wei Chiu, Te-Jen Lai, Jin-Ming Hwang\*, **Jer-Yuh Liu\***, and Chih-Yang Huang\*.. *International Journal of Medical Sciences*, 13(11): 819-824, 2016. \*Corresponding authors.

[MZF-1/Elk-1 interaction domain as therapeutic target for protein kinase C \$\alpha\$ -based triple-negative breast cancer cells.](#) Chia-Jen Lee, Li-Sung Hsu, Chia-Herng Yue, Ho Lin, Yung-Wei Chiu, Yu-Yu Lin, Chih-Yang Huang\*, Mien-Chie Hung\*, and **Jer-Yuh Liu\*** *Oncotarget* doi: 10.18632/oncotarget.11337., 2016. \*Corresponding authors.

[Requirement of leukemia inhibitory factor or epidermal growth factor for pre-implantation embryogenesis via JAK/STAT3 signaling pathways.](#) En-Hui Cheng<sup>†</sup>, **Jer-Yuh Liu<sup>†</sup>**, Tsung-Hsien Lee, Chun-Chia Huang, Chung-I Chen , Lii-Sheng Huang, and Maw-Sheng Lee.. *PLoS One*, 11(4):e0153086., 2016. <sup>†</sup>Co-first author.

[MZF-1/Elk-1 complex binds to protein kinase C \$\alpha\$  promoter and is involved in hepatocellular carcinoma.](#) Chia-Herng Yue, Chih-Yang Huang, Jen-Hsiang Tsai, Chih-Wei Hsu, Yi-Hsien Hsieh\*, Ho Lin\*, and **Jer-Yuh Liu\***. *PLoS One*, 10(5):e01274202015, 2015. \*Corresponding authors.

[Novel Target Genes Responsive to Apoptotic Activity by Ocimum gratissimum in Human Osteosarcoma Lin.](#) C-C., Chao, P-Y., Shen, C-Y., Shu, J-J., Yen, S-K.,\* Huang, C-Y.\*, and **Liu, J-Y.\*** Cells. *American Journal of Chinese Medicine*, 42 (3): 743–767, 2014. \*Corresponding authors.

[Dietary supplementation of Ocimum gratissimum improves immune response without affecting the growth performance and blood characteristics in Taiwan country chicken.](#) Chen, Y-H., Lee, S-M., Tsai, F-L., Lee, H-H., and Liu, J-Y. \* *Journal of Poultry Science* 51: 313-320, 2014. \*Corresponding authors.



## CMU Faculty Profile

### SHIH-PING LIU

Associate Professor, Graduate Institute of Basic Medical Science, China Medical University, Taichung, Taiwan.

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Ph.D., Institute of Public Health, School of Medicine, National Yang-Ming University, Taipei, Taiwan. 2007



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**Research Interests:** Transgenic and Knockout Mice, Molecular Cell Biology, Tumor Biology, Molecular toxicology

#### Academic Distinctions:

**2007** Excellent Ph.D. thesis Award of National Yang-Ming University

**2008** Excellent Ph.D. thesis Award of Wang Ming-Ning Memorial Foundation

#### Appointments:

2008-2008/7: Postdoctoral research associate, AIDS research center, NYMU

2008/8-2009: Postdoctoral research associate, Center for Neuropsychiatry, CMU

2009-2013: Assistant Professor: Graduate Institute of Basic Medical Science, CMU

2013-present: Associate Professor: Graduate Institute of Basic Medical Science, CMU

#### Research Interests:

The research themes in my lab focus on stem cell-based therapy in Parkinson's Disease, differentiation of neural stem cells, treatments of neurodegenerative diseases and gene transfer.

#### Representative Publications:

[Therapeutic Effect of Ligustilide-Stimulated Adipose-Derived Stem Cells in a Mouse Thromboembolic Stroke Model.](#)

Kang Chi, Ru-Huei Fu, Yu-Chuen Huang, Shih-Yin Chen, Shinn-Zong Lin, Pi-Chun Huang, Po-cheng Lin, Fu-Kuei Chang, **Shih-Ping Liu**. *Cell Transplant*. 2016;25(5):899-912

Electrospun PAN-based nanofibers maintain embryonic stem cell stemness via TGF-beta signaling. Shih-Ping Liu, Chen-Huan Lin, Shao-Ji Lin, Ru-Huei Fu, Yu-Chuen Huang, Shih-Yin Chen, Shinn-Zong Lin, Chung Y. Hsu, Woei-Cherng Shyu. *Journal of Biomedical Nanotechnology* 2016 Apr;12(4):732-42.

[Therapeutic Effect of Ligustilide-Stimulated Adipose-Derived Stem Cells in a Mouse Thromboembolic Stroke Model.](#)

[Cell Transplant](#). Kang Chi, Ru-Huei Fu, Yu-Chuen Huang, Shih-Yin Chen, Shinn-Zong Lin, Pi-Chun Huang, Po-cheng Lin, Fu-Kuei Chang, **Shih-Ping Liu**. *Cell Transplant*. 2016;25(5):899-912.

Assistant Professor, Graduate Institution of Biomedical Sciences, College of Medicine

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**Research Interests:** Bioinformatics, Cancer Genomics, Biological Database

**Appointments:**

- 2011-2012: Postdoctoral fellow: Division of Pediatric Neurosurgery, Neurological Center, Taipei Veterans General Hospital, Taipei, Taiwan
- 2012-2014: Postdoctoral fellow: Pediatric Neurosurgery, Department of Surgery, Cheng Hsin General Hospital, Taipei, Taiwan
- 2014-2015: Assistant Research Fellow: Research Center for Tumor Medical Science, CMU
- 2015-2016: Assistant Professor: Graduate Institute of Cancer Biology, CMU
- 2015-present: Assistant Professor: Graduate Institute of Biomedical Sciences, CMU

**Research Interests:**

The research topics in my lab focus on genomic data analysis, such as next generation sequencing and microarray. Using integrative bioinformatics approaches and big data analysis, we have developed several cancer genomics databases to address the molecular mechanism in cancer.

**Representative Publications:**

Chung IF, Chang SH, Chen CY, Liu SH, Li CY, Chan CH, Shih CC, and **Cheng WC\***. [YM500v3: a database for small RNA sequencing in human cancer research](#) *Nucleic Acids Res.* 2017 Jan; 45(D1):D925-D931. (SCI, IF: 9.202; 6.23% in BIOCHEMISTRY & MOLECULAR BIOLOGY)

Chung IF, Chen CY, Su SC, Li CY, Wu KJ, Wang HW\*, **Cheng WC\***. [DriverDBv2: a database for human cancer driver gene research](#). *Nucleic Acids Res.* 2016 Jan;44(D1):D975-9. (SCI, IF: 9.202; 6.23% in BIOCHEMISTRY & MOLECULAR BIOLOGY)

**Cheng WC**, Chung IF, Tsai CF, Huang TS, Cheng CY, Wang SC, Chang TY, Sun HJ, Chao YC, Cheng CC, Wu CW and Wang HW. [YM500v2: A small RNA sequencing \(smRNA-seq\) database for human cancer miRNome research](#). *Nucleic Acids Research*, 2015 JAN:43(D1):D862-867 (SCI, IF: 9.202; 6.23% in BIOCHEMISTRY & MOLECULAR BIOLOGY)

**Cheng WC**, Chung IF, Chen CY, Sun HJ, Fen JJ, Teng WC, Chang TY, Wong TT\*, Wang HW\*. [DriverDB: A exome sequencing \(exome-seq\) database for cancer driver gene identification](#). *Nucleic Acids Research*, 2014, JAN:42(D1):D1048-1054 (SCI, IF: 9.202; 6.23% in BIOCHEMISTRY & MOLECULAR BIOLOGY)

**Cheng WC**, Chung IF, Huang TS, Chang ST, Sun HJ, Wong TT\*, Wang HW\*. [YM500: A small RNA Sequencing \(smRNA-Seq\) database for miRNA research](#). *Nucleic Acids Research*, 2013, JAN:41(D1): D285-D294. (SCI, IF: 9.202; 6.23% in BIOCHEMISTRY & MOLECULAR BIOLOGY)

**TED WEITA LAI**

Associate Professor, Graduate Institute of Biomedical Sciences, College of Medicine

Ph.D., Neuroscience, University of British Columbia, 2011  
B.Sc. (Hon.), Pharmacology, University of British Columbia, 2005

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**Research Interests:** Neuropharmacology, Neurodegeneration, Blood-Brain Barrier

**Academic Distinctions:**

Esther R. Anderson Memorial Prize, University of British Columbia (2005)  
Canada Graduate Scholar, Natural Sciences and Engineering Research Council (2006-2007)  
Canada Graduate Scholar, Canadian Institutes of Health Research (2007-2010)

**Appointments:**

2003: Research Intern: Department of Pharmacology, Merck & Co.  
2004: Research Intern: Department of Pharmacology, Cardiome Pharma Corp.  
2005: Research Intern: Brain Research Centre, UBC  
2011-present: Research Fellow: Translational Medicine Research Center, CMUH  
2012-2016: Assistant Professor: Graduate Institute of Clinical Medical Science, CMU  
2016-present: Associate Professor: Graduate Institute of Biomedical Sciences, CMU

**Research Interests:**

My lab is interested in the pharmacology of the brain. We scrutinize clinical trial and basic research data on neuro-pharmacological compounds, and propose how treatments can be designed (or re-designed) to become more appropriate for clinical use. For instance, we recently wrote a review on the pharmacology of excitotoxicity, which is a hallmark of stroke and most other neurodegenerative diseases; this article became one of the most cited in this field. We also study the blood-brain barrier, and investigate strategies that may facilitate drug delivery into the brain.

**Representative Publications:**

[Anesthesia-Induced Hypothermia Attenuates Early-Phase Blood-Brain Barrier Disruption but Not Infarct Volume following Cerebral Ischemia.](#) Liu YC, Lee YD, Wang HL, Liao KH, Chen KB, Poon KS, Pan YL, **Lai TW\***. *PLoS One*. 2017 Jan 24;12(1):e0170682.

[Adenosine receptor agonist NECA increases cerebral extravasation of fluorescein and low molecular weight dextran independent of blood-brain barrier modulation.](#) Cheng CC, Yang YL, Liao KH, **Lai TW\***. *Sci Rep*. 2016 Mar 30;6:23882.

[Optimization of Evans blue quantification in limited rat tissue samples.](#) Wang HL, **Lai TW\***. *Sci Rep*. 2014 Oct 10; 4:6588.

[Excitotoxicity and stroke: identifying novel targets for neuroprotection.](#) **Lai TW\***, Zhang S, Wang YT\*. *Prog Neurobiol*. 2014 Apr;115:157-88.

[Distinct patterns of cerebral extravasation by Evans blue and sodium fluorescein in rats.](#) Yen LF, Wei VC, Kuo EY, **Lai TW\***. *PLoS One*. 2013 Jul 5;8(7):e68595.

**SARINA HUI-LIN CHIEN**

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Infant Lab: <http://www2.cmu.edu.tw/~infantlab/>



**Research Interests:** Visual Perception and Cognition in Infancy, Cognitive Neuroscience, Developmental Neuroscience, Face Perception, Visual Perception in Individuals with Autism

**Honors & Awards:**

2002 Mary Gate's Dissertation Fellowship, University of Washington, Seattle, WA, US.

2012 Teaching Excellence and Innovation Award at university level, CMU, Taiwan.

2015 Outstanding Teaching Materials Award, CMU, Taiwan.

2016 Recipient of Taiwanese Top-Notch University Outstanding Scholar Exchange Program.

**Appointments:**

2003-2004: Postdoctoral fellow, Dept. of Psychology, University of Colorado at Boulder, USA

2006-2007: Postdoctoral fellow, Dept. of Psychology, National Taiwan University, Taipei

2007-2011: Assistant Professor, Graduate Institute of Neural & Cognitive Sciences, CMU

2011-present: Associate Professor, Graduate Institute of Neural & Cognitive Sciences, CMU

2012-2014: Executive Director, International Collaboration, Office of International Affairs, CMU

2014-2016: Director, Center for Public Relations, International & Public Affairs, CMU

2016: Visiting Scholar, Dept. of Psychology, the University of Chicago, USA.

**Main Research Themes:** Perception is the gateway through which energy in the physical world transforms into sensations and ideas in the mind. My research focuses on visual perception in infants and children, in particular, the typical and atypical development of face processing. Using behavioral-based eye tracking technique and brain-based MEG methods, we have been exploring the ontogeny, mechanism, and developmental trajectory of the other-race effect (ORE) in Taiwanese infants and children. Our investigation of face processing extends to individuals with autism and Parkinson's disease.

**Representative Publications:**

**Chien, S.H.L.**, Wang, J. H., & Huang, T. R. (2016). [Developing the own-race advantage in 4-, 6-, and 9-month-old Taiwanese infants: A perceptual learning perspective.](#) *Frontiers in Psychology*, 7. doi: 10.3389/fpsyg.2016.01606

Wang, L. H. , **Chien, S. H. L.**, Hu, S.F., Chen, T. Y., & Chen, H. S. (2015). [Children with Autism Spectrum Disorders are less proficient in action identification and lack a preference for up-right biological motion displays.](#) *Research in Autism Spectrum Disorders*, 11, 63-76.

**Chien, S. H. L.**, Wang, L. H., Chen, C. C., Chen, T. Y., & Chen, H. S. (2014). [Autistic children do not exhibit an own-race advantage as compared to typically developed children.](#) *Research in Autism Spectrum Disorders*, 8(11), 1544-1551.

**Chien, S. H. L.** (2011). [No more top-heavy bias: Infants and adults prefer upright faces, but not top-heavy geometric or face-like patterns.](#) *Journal of Vision*, 11(6):13, 1-14.

**Chien, S. H. L.**, Palmer, J & Teller, D. Y. (2003). [Infant lightness perception: Do 4-month olds follow Wallach's ratio rule?](#) *Psychological Science*, 14 (3), 291-295.

## CMU Faculty Profile

### HSIEN-YUAN LANE

Distinguished Professor, Director, Graduate Institute of Biomedical Sciences, College of Medicine  
Director, Department of Psychiatry, College of Medicine  
Ph.D., National Defense Medical Center (Taiwan), 2000  
M.D., Taipei Medical University (Taiwan), 1987



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**Research Interests:** Neuropsychopharmacology, Cognitive neuroscience, Precision medicine

#### Academic Distinctions:

Y.Z. Hsu Scientific Paper Award, Biotechnology Category, Taiwan (2006)  
The 10th National Innovation Award, Taiwan (2013)  
The 24th Wang-Ming-Ning Award, Taiwan (2014)  
Ministry of Science and Technology Outstanding Research Award, Taiwan (2014)  
CNS Drug Innovation Award, The International of College of Neuropsychopharmacology (2016)

#### Appointments:

2006-2008: Adjunct Research Fellow, Institute of Biomedical Sciences, Academia Sinica  
2009-2015: Professor, Director, Graduate Institute of Clinical Medical Science, CMU  
2015-present: Distinguished Professor, Director, Graduate Institute of Clinical Medical Science, CMU  
2015-present: Director, Brain Disease Research Center, CMU and Hospital  
2016-present: Director, Graduate Institute of Biomedical Sciences, CMU

#### Research Interests:

Dr. Hsien-Yuan Lane's research interests primarily focus on neuropsychopharmacology, cognitive neuroscience, precision medicine, and pharmacogenetics/genomics. In recent years, his study aims to (1) determine genetic and non-genetic determinants for treatment response of mental disorders; (2) develop novel NMDA-enhancing agents for treating mental disorders and dementia. These studies are innovative, carefully designed and likely to revolutionize our understanding and care of patients afflicted with mental disorders or dementia.

#### Representative Publications:

[Sarcosine or D-serine add-on treatment for acute exacerbation of schizophrenia: a randomized, double-blind, placebo-controlled study.](#) Lane HY, Chang YC, Liu YC, Chiu CC, Tsai GE. **Arch Gen Psychiatry.** 2005 Nov;62(11):1196-204.

[Inhibition of glycine transporter-I as a novel mechanism for the treatment of depression.](#) Huang CC, Wei IH, Huang CL, Chen KT, Tsai MH, Tsai P, Tun R, Huang KH, Chang YC, Lane HY\*, Tsai GE. **Biol Psychiatry.** 2013 Nov 15;74(10):734-41.

[Add-on treatment of benzoate for schizophrenia: a randomized, double-blind, placebo-controlled trial of D-amino acid oxidase inhibitor.](#) Lane HY, Lin CH, Green MF, Hellemann G, Huang CC, Chen PW, Tun R, Chang YC, Tsai GE. **JAMA Psychiatry.** 2013 Dec;70(12):1267-75.

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## CMU Faculty Profile

YUNG-LUEN YU

Assistant Professor, Graduate Institute of Biomedical Sciences  
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URL: [http://webap.cmu.edu.tw/TchEportfolio/index\\_2/wcsu#](http://webap.cmu.edu.tw/TchEportfolio/index_2/wcsu#)



**Research Interests:** virus-host interactions; pathogenesis of virus infection; post-translational protein modification

### Academic Distinctions:

- ❶ Distinguished & Regular Postdoctoral Fellow, Academia Sinica, 2007-2011
- ❷ The best poster award, “International Conference on Influenza”, London, UK, 2015

### Appointments:

2005-2007 Leader of the lentivirus production group; National RNAi Core Facility

2005 Nov.-2006 May Visiting Scientist; Broad Institute, MIT and Harvard, USA

2007-2011 Distinguished & Regular Postdoctoral Fellow; Institute of Molecular Biology, Academia Sinica

2012-date Assistant Researcher, Research Center for Emerging Viruses, CMUH

2014-date Assistant Professor, Graduate Institute of Clinical Medical Science, China Medical University (CMU)

### Research Interests:

**We are presently focusing on the emerging viruses, such as influenza virus and flaviviruses. We are interested in identification of the host factors crucial for viral replication as well as viral pathogenesis.**

### Representative Publications:

1. **Su W.C.**, Hsu S.F., Lee Y.Y., Jeng K.S., Lai M.M.\* (2015). [A Nucleolar Protein, Ribosomal RNA Processing 1 Homolog B \(RRP1B\), Enhances the Recruitment of Cellular mRNA in Influenza Virus Transcription.](#) *Journal of Virology.* 89:11245-55
2. Hsu S.F., **Su W.C.**, Jeng K.S., Lai M.M.\* (2015). [A Host Susceptibility Gene, DR1, Facilitates Influenza A Virus Replication by Suppressing Host Innate Immunity and Enhancing Viral RNA Replication.](#) *Journal of Virology.* 89:3671-82
3. **Su W.C.**, Chen Y.C., Tseng C.H., Hsu P.W., Tung K.F., Jeng K.S., Lai M.M.. (2013) [Pooled RNAi screen identifies ubiquitin ligase Itch as crucial for influenza A virus release from the endosome during virus entry.](#) *Proc Natl Acad Sci U S A.* 110:17516-21.

**KUAN-PIN SU, M.D., Ph.D.**

Professor, Graduate Institution of Biomedical Sciences, College of Medicine, China Medical University (CMU); Director, Mind-Body Interface Research Centre, China Medical University Hospital (CMUH)

PhD, Institute of Psychiatry, King's College London, UK  
M.D., Kaohsiung Medical College, Kaohsiung, Taiwan



Phone: (886)-4-22062121 ext 4126

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Website: <https://sites.google.com/site/omega3su/>

**Research Interests:**

Connect bedside to bench with novel interdisciplinary approaches of neuroimages and genomic, cellular and molecular biology, by integrating clinical significance with the investigation of basic sciences (Depression, Immune, neuroplasticity, Cognitive Neurosciences)

**Awards:**

- 2016, The International Society for the Study of Fatty Acids and Lipids: Early Career Award
- 2014, The ISSFAL: Young Investigator Award
- 2013, Psychopharmacology Award from the British Association for Psychopharmacology (UK)
- 2012, Pacific Rim College of Psychiatrists: Young Psychiatrists Award
- 2012, Teaching Excellency Award, China Medical University Hospital
- 2011, Thomson Reuters Research Front Award
- 2010, Ta-You Wu Memorial Award 吳大猷先生紀念獎, National Science Council, Taiwan
- 2010, the Elite Physician of the Year, China Medical University Hospital

**Committees:**

- Member of Board of Directors, the International Society for the Study of Fatty Acids and Lipids (ISSFAL) (2016-2020)
- President of Taiwan Society for Nutritional Psychiatry Research (TSNPR) (since 2016)
- Council Board Member of the Taiwanese Society of Biological Psychiatry and Neuropsychopharmacology (TSBPN) (since 2015)
- President and Committee Chairman, the 1st-6th Mind-Body Interface International Symposium (2010, 2011, 2013, 2014, 2015, and 2016; Supported by the MOST grants)

**High-Cited Publications:** (GOOGLE SCHOLAR in Feb 2017)

- World Pioneer: N-3 PUFA in depression ([ENP 2003](#)), 581 citation
- Treatment guideline: meta-analysis ([JCP 2007](#)), 492 citation
- International Leader: N-3 PUFA in perinatal MDD ([JCP 2008](#)), 233 citation
- N-3 PUFA for dementia ([PNPBP 2008](#)), 252 citation
- Biological deficiency of n-3 PUFA in MDD patients ([Biol Psych 2010](#)), 233 citation
- Molecular mechanism of n-3 PUFA in cells ([Neuropsychopharm 2010](#)), 112 citation
- N-3 PUFA, PLA2/COX2 in IFN-induced depression ([Biol Psych 2010](#)), 106 citation

*According the h-index (ELSVIER 2016), Professor Su is the 2nd-ranked principal investigator in the world in the research field of “omega-3 PUFAs in depression.”*