Photo

Name Wei-Wen Kuo, PhD

Current Positions Professor, Dept. of Biological Science & Technology School of Life Science, China Medical University,

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E-Portfolio Website **https://webap.cmu.edu.tw/TchEportfolio/index_1/wwkuo**

Education

Master：Institute of Environmental Toxicology, University of Illinois at Urbana-Champaign U. S. A., 1999
Ph.D., Institute of Biochemistry and Biotechnology, Chung Shan Medical University, 2005

Expertise

Investigating the involvement of microRNA in the following diseases related to :
Molecular cardiology,
Cancer Metabolism
Skin protection

Research Interests

The research themes in my lab aim to investigate the signaling pathways for the pathogenies of diabetic cardiomyopathy (DCM). Cancer metabolism becomes the current focus in my lab. Other projects include skin health promoting from natural products. We have combined the biochemical approaches and diseased animal model to address the relevant regulation in diseases (cancer and DCM) progression.

Selected Grants:

Galangin Enhances Collagen Synthesis through Reduction of hsa-microRNA-4535 Targeting TGFβ-Smad Pathway against Skin Aging, 109-2320-B-039-038-MY3
Involvement of exosome origin, biogenesis and function in anti-cancer effect of Dially Trisulfide (DATS) 109-2918-I-039 -002 -
Induction of microRNA-210 by Diallyl trisulfide (DATS) protects cardiomyocytes from mitochondrial dysfunction and apoptosis through targeting JNK following AGEs exposure 108-2320-B-039 -049 –

Selected Publications

1. Jian-Sheng, Liu｜Chun-An, Yeh｜ Guan-Yu, Huang｜ I-Chieh, Huang . Chih-Hao, Chiu｜B. Mahalakshmi ｜ Chih-Yang, Huang｜ **Wei-Wen, Kuo**" Signal transducer and activator of transcription 3 media apoptosis inhibition through reducing mitochondrial ROS and activating Bcl-2 in gemcitabine-resistant lung cancer A549 cells. **Journal of Cellular Physiology.** (in press) (IF:3.923, 13/83= 15.66% physiology-2017 **;** IF:4.522 ,11/81=13.58% physiology- 2018 ;IF:5.546, 7/81 = 8.64% 2019 **Correspondence Author**)
2. Hsieh, Dennis Jine-Yuan , Ng, Shang-Chuan, Zeng, Ren-You , Padma ,Viswanadha Vijaya, Huang ,Chih-Yang* **, Kuo ,Wei-Wen*** Diallyl Trisulfide (DATS) Suppresses AGE-Induced Cardiomyocyte Apoptosis by Targeting ROS-Mediated PKCδ Activation. **International Journal of Molecular Sciences**. 2020 Apr 9;21(7):2608 (IF:4.556 74/297 = 24.92% 2019) **Correspondence Author**
3. Yao-Te Huang, Chung-Hung Liu, Yao-Chih Yang, Ritu Aneja, Su-Ying Wen, Chih-Yang Huang*, **Wei-Wen Kuo***. ROS- and HIF1α-dependent IGFBP3 Upregulation Blocks IGF1 Survival Signaling and Thereby Mediates High Glucose-Induced Cardiomyocyte Apoptosis . **Journal of Cellular Physiology.** 2019 Aug;234(8):13557-13570 (IF:3.923, 13/83= 15.66% physiology-2017 **;** IF:4.522 ,11/81=13.58% physiology- 2018 ;IF:5.546, 7/81 = 8.64% 2019 **Correspondence Author**)