

# CHE-WEI WU

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*Che Wei Wu*

## WORK HISTORY

2021.09 – NOW

**POSTDOCTORAL RESEARCHER** · REGENERATIVE MEDICINE AND CELL THERAPY RESEARCH CENTER, KAOHSIUNG MEDICAL UNIVERSITY, TAIWAN

- Research of exosomes isolation, identification, and function analysis.
- Research of mitochondrial isolation and transplantation.
- Paper writing and publish

2017.06 – 2021.08

**RESEARCH ASSISTENT** · ORTHOPAEDIC RESEARCH CENTER, KAOHSIUNG MEDICAL UNIVERSITY, TAIWAN

- Research of cartilage regeneration by cross linking hyaluronic acid.
- Research of exosomes isolation, identification, and function analysis.
- Research of biomaterial production

2010.03 – 2011.05

**QUALITY CONTROL TEAM LEADER** · TAIWAN FRUCTOSE (M) SDN BHD, MALAYSIA

- Product specification analysis of fructose, maltose, dextrin, and glucose.
- Lab management.

## EDUCATION

2021.03

**PH.D. OF AGRICULTURAL SCIENCE** · UNIVERSITY OF TSUKABA, JAPAN

- Research on the food compounds effect on endothelial cell and VSM cells.
- Research of NO production pathway and induced antioxidant enzyme prevent oxidant stress.
- Research of the mechanisms of arteriosclerosis and molecular vascular physiology.
- Paper writing and publish.

2008.07

**MASTER OF LIFE SCIENCE** · NATIONAL CHIAYI UNIVERSITY, TAIWAN

- Research on the food compounds effect on blood pressure and cardio hypertrophy of SHR rat and induction the activity of antioxidant enzyme.
- Teaching assistant.

## **PUBLICATION/ ORCID: 0000-0001-6464-8525**

1. Han Lee, Jiunn-Der Liao, Tak-Wah Wong, Che-Wei Wu, Bo-Yao Huang, Shun-Cheng Wu, Pei-Lin Shao, Yu-Han Wei, Ming-Hsien Cheng. Detection of micro-plasma-induced exosomes secretion in a fibroblast-melanoma co-culture model. *Analytica Chimica Acta* Volume 1281, 15 November 2023, 341910. IF:6.911
2. Ling-Hua Chang; Shun-Cheng Wu; Chung-Hwan Chen; Jhen-Wei Chen; Wan-Chun Huang; Che-Wei Wu; Yi-Shan Lin; Yu-Ju Chen; Je-Ken Chang; Mei-Ling Ho. Exosomes Derived from Hypoxia-Cultured Human Adipose Stem Cells Alleviate Articular Chondrocyte Inflammaging and Post-Traumatic Osteoarthritis Progression. *Int. J. Mol. Sci.* 2023, 24(17), 13414. IF: 5.6
3. Mei-Ling Ho; Chin-Jung Hsu; Che-Wei Wu; Ling-Hua Chang; Jhen-Wei Chen; Chung-Hwan Chen; Kui-Chou Huang; Je-Ken Chang; Shun-Cheng Wu; Pei-Lin Shao. Enhancement of Osteoblast Function through Extracellular Vesicles Derived from Adipose-Derived Stem Cells. *Biomedicines* 2022, 10(7), 1752. IF: 4.757.
4. Swathi Nedunchezian; Che-Wei Wu; Shung-Cheng Wu; Chung-Hwan Chen; Je-Ken Chang; Chih-Kuang Wang. Characteristic and Chondrogenic Differentiation Analysis of Hybrid Hydrogels Comprised of Hyaluronic Acid Methacryloyl (HAMA), Gelatin Methacryloyl (GelMA), and the Acrylate-Functionalized Nano-Silica Crosslinker. *Polymers* 2022, 14(10), 2003. IF: 4.967
5. Shun-Cheng Wu, Chih-Hsiang Chang, Ling-Hua Chang, Che-Wei Wu, Jhen-Wei Chen, Chung-Hwan Chen, Yi-Shan Lin, Je-Ken Chang, Mei-Ling Ho. Simvastatin Enhances the Chondrogenesis But Not the Osteogenesis of Adipose-Derived Stem Cells in a Hyaluronan Microenvironment. *Biomedicines* 2021, 9(5), 559. IF: 5.61
6. Swathi Nedunchezian, Parikshit Banerjee, Chih-Yun Lee, Su-Shin Lee, Che-Wei Lin, Che-Wei Wu, Shun-Cheng Wu, Je-Ken Chang, Chih Kuang Wang. Generating adipose stem cell-laden hyaluronic acid-based scaffolds using 3D bioprinting via the double crosslinked strategy for chondrogenesis. *Mater. Sci. Eng. C.* 2021 May;124:112072. IF:5.880
7. Che Wei Wu, Yoshihiro Nakamoto, Takumaru Hisatome, Shigeki Yoshida, Hitoshi Miyazaki. Resveratrol and its dimers  $\epsilon$ -viniferin and  $\delta$ -viniferin in red wine protect vascular endothelial cells by a similar mechanism with different potency and efficacy. *Kaohsiung J Med Sci.*2020 (7):535-542. IF: 1.737
8. Ming-Wei Hung, Che-Wei Wu, Daichi Kokubu, Shigeki Yoshida, Hitoshi Miyazaki.  $\epsilon$ -Viniferin is More Effective than Resveratrol in Promoting Favorable Adipocyte Differentiation with Enhanced Adiponectin Expression and Decreased Lipid Accumulation. *Food Sci Technol Res.* 2019 (25): 817-826. IF:0.448
9. Shun-Cheng Wu, Pei-Yi Huang, Chung-Hwan Chen, Benjamin Teong, Jhen-Wei Chen, Che-Wei Wu, Je-Ken Chang, Mei-Ling Ho. Hyaluronan microenvironment enhances cartilage regeneration of human adipose-derived stem cells in a chondral defect model. *Int J Biol Macromol.* 2018(119):726-740. IF:3.909
10. Houda Zrelli, Che Wei Wu, Nahla Zghonda, Hidehisa Shimizu, Hitoshi Miyazaki. Combined Treatment of Hydroxytyrosol with Carbon Monoxide-Releasing Molecule-2 Prevents TNF $\alpha$ -Induced Vascular Endothelial Cell Dysfunction through NO Production with Subsequent NF $\kappa$ B Inactivation. *Biomed Res Int.*2013:912431. IF: 3.363.

