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Affiliation

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Education

Ph.D. / Graduate Institute of Medicine, Kaohsiung Medical University

M.S. / Graduate Institute of Medicine, Kaohsiung Medical University

B.S. / Collage of life science, Kaohsiung Medical University

Experiences

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Academic Interests & Specialty:

Articular cartilage tissue engineering

Regenerative medicine

Stem cell biology

Publication

1. **Shun-Cheng Wu**; Hsu-Feng Hsiao; Mei-Ling Ho; Yung-Li Hung; Je-Ken Chang; Gwo-Jaw Wang; Chau-Zen Wang. Suppression of discoidin domain receptor 1 expression enhances the chondrogenesis of adipose-derived stem cells. **(American Journal of Physiology- Cell Physiology; 2015 May 1;308(9):C685-96.) (SCI) (Impact factor: 3.674, Ranking: 17/81)**
2. Yin-Chih Fu; Tzu-Fun Fu; Hung-Jen Wang; Che-Wei Lin; Gang-Hui Lee; **Shun-Cheng Wu**; Chih Kuang Wang*. Aspartic acid based modified PLGA-PEG nanoparticles for bone targeting: in vitro and in vivo evaluations. **(Acta Biomaterialia. 2014 Accepted for publication) (SCI) (Impact factor: 5.093, Ranking: 2/27)**

3. **Shun-Cheng Wu**; Chung-Hwan Chen; Je-Ken Chang; Yin-Chih Fu; Chih-Kuang Wang; Chih-Kuang Wang; Rajalakshmanan Eswaramoorthy; Yi-Shan Lin; Yao-Hsien Wang; Sung-Yen Lin Gwo-Jaw Wang; Mei-Ling Ho. Hyaluronan initiates chondrogenesis mainly via CD44 in human adipose derived stem cells (**Journal of Applied Physiology (1985). 2013 Jun;114(11):1610-8.**) (SCI) (Impact factor: 3.735, Ranking: 6/85)
4. Chung-Hwan Chen; Yi-Shan Lin; Yin-Chih Fu; Chih-Kuang Wang; **Shun-Cheng Wu**; Gwo-Jaw Wang; Rajalakshmanan Eswaramoorthy; Yan-Hsiung Wang; Chau-Zen Wang; Yao-Hsien Wang; Sung-Yen Lin; Je-Ken Chang* and Mei-Ling Ho*. Electromagnetic field stimulation enhances chondrogenesis of human adipose derived stem cells under chondrogenic microenvironment. (**Journal of Applied Physiology (1985). 2013 Mar 1;114(5):647-55.**) (SCI) (Impact factor: 3.735, Ranking: 6/85)
5. Rajalakshmanan Eswaramoorthy; Chia-Chi Chang; **Shun-Cheng Wu**; Gwo-Jaw Wang; Je-Ken Chang; Mei-Ling Ho. Sustained release of PTH(1-34) from PLGA microspheres suppresses osteoarthritis progression in rats. (**Acta Biomaterialia. 2012 Jul;8(6):2254-62.**) (SCI) (Impact factor: 5.093, Ranking: 2/27)
6. **Shun-Cheng Wu**; Je-Ken Chang; Chih-Kuang Wang; Gwo-Jaw Wang; Mei-Ling Ho. Enhancement of Chondrogenesis of Human Adipose Derived Stem Cells in a Hyaluronan-Enriched Microenvironment. (**Biomaterials. 2010 Feb; 31(4): 631-40. Epub 2009 Oct 12.**) (SCI) (Impact factor: 7.365, Ranking: 1/19)
7. Je-ken Chang, Ling-Hwa Chang, Shau-Hung Hung, **Shun-Cheng Wu**, Hsin-Yi Lee, Yi-Shan Lin, Chung-Hwan Chen, Yin-Chih Fu, Gwo-Jaw Wang, Mei-Ling Ho. Parathyroid Hormone (1-34) Inhibits Terminal Differentiation of Human Articular Chondrocytes and Osteoarthritis Progression in Rats. (**Arthritis Rheum. 2009 Oct;60(10):3049-60.**) (SCI) (Impact factor:6.787, Ranking: 2/22)
8. Je-Ken Chang, Ching-Ju Li, **Shun-Cheng Wu**, Ching-Hua Yeh, Yin-Chih Fu, Chung-Hwan Chen, Mei-Ling Ho. Effects of anti-inflammatory drugs on proliferation, cytotoxicity and osteogenesis in bone marrow mesenchymal stem cells. (**Biochem Pharmacol. 2007 Nov 1;74(9):1371-82. Epub 2007 Jul 7.**) (SCI) (Impact factor:4.838 Rank:19/216)
9. Yin-Chih Fu, Mei-Ling Ho, **Shun-Cheng Wu**, Hsieh, Chih-Kuang Wang. Porous bioceramic bead prepared by calcium phosphate with sodium alginate gel and PE powder. (**Materials Science & Engineering C, 2007**) (SCI) (Impact factor:1.325 Rank:63/176)
10. Je-Ken Chang, **Shun-Cheng Wu**, Gwo-Jaw Wang, Ming-Hsuang Cho, Mei-Ling Ho. Effects of Non-steroidal Anti-inflammatory Drugs on Cell Proliferation and Death in Cultured Epiphyseal-articular Chondrocytes of Fetal Rats. (**Toxicology 228(2-3):111-123, 2006**) (SCI) (Impact factor:2.836, Rank: 20/75)
11. Mei-Ling Ho, Je-Ken Chang, Shao-Hung Hung, **Shun-Cheng Wu**, Gwo-Jaw Wang.

A novel terminal differentiation model of human articular chondrocytes in three-dimensional cultures mimicking chondrocytic changes in osteoarthritis. **Cell Biology International. 2006 Mar;30(3):288-94 (SCI)(Impact factor:1.363, Rank: 127/156)**