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Emplоment Experience

Associate Professor, Institute of Biomedical Engineering, NTHU *Aug 2021 – Present*
Assistant Professor, Institute of Biomedical Engineering, NTHU *Feb 2017 – July 2021*
Postdoctoral Fellow, Dept. of Chemical Engineering, NTHU *Jul 2015 –Jan 2017*

Education

Ph.D., Dept. of Chemical Engineering, NTHU *Aug 2012 – Jul 2015*
Master, Dept. of Chemical Engineering, NTHU *Aug 2008 – Jul 2010*
Bachelor, Dept. of Life Science, NTHU *Sep 2004 – Jul 2008*

Selected Publication

1. Chen SH*, Wang HW, Yang PC, Chen SH, Ho CH, Yang PC, Kao YC, Liu SW, Chiu H, Lin YJ, Chuang EY, Huang JH, Kao HK, **Huang CC***, "Schwann cells acquire a repair phenotype after assembling into spheroids and show enhanced *in vivo* therapeutic potential for promoting peripheral nerve repair," ***Bioengineering & Translational Medicine***, vol. 9, pp. e10635, 2024.
2. Chen SH*, Lee YW, Kao HK, Yang PC, Chen SH, Liu SW, Yang PC, Lin YJ, **Huang CC***, "The transplantation of 3-dimensional spheroids of adipose-derived stem cells promotes Achilles tendon healing in rabbits by enhancing the proliferation of tenocytes and suppressing M1 macrophages," ***American Journal of Sports Medicine***, vol. 52, pp.406-422, 2024.
3. Hsu TW, Lu YJ, Lin YJ, Huang YT, Hsieh LH, Wu BH, Lin YC, Chen LC, Wang HW, Chuang JC, Fang YQ, **Huang CC***, "Transplantation of 3D MSC/HUVEC spheroids with neuroprotective and proangiogenic potentials ameliorates ischemic stroke brain injury," ***Biomaterials***, vol.272, pp.120765, 2021.
4. Chiang CE, Fang YQ, Ho CT, Assunção M, Lin SJ, Wang YJ, Blocki A*, **Huang CC***, "Bioactive decellularized extracellular matrix derived from 3D stem cell spheroids under macromolecular crowding serves as a scaffold for tissue engineering," ***Advanced Healthcare Materials***, vol. 20, pp.202100024, 2021.
5. Yang WY, Chen LC, Jhuang YT, Lin YJ, Hung PY, Ko YC, Tsai MY, Lee YW, Hsu LW, Yeh CK, Hsu HH*, **Huang CC***, "Injection of hybrid 3D spheroids composed of podocytes, mesenchymal stem cells, and vascular endothelial cells into the renal cortex improves kidney function and replenishes glomerular podocytes," ***Bioengineering & Translational Medicine***, vol. 2, pp. e10212, 2021.