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Education :

Ph.D., Institute of Chemical Engineering, Chung-Hsing University

M.D., Institute of Biomedical Engineering, Chung-Yuan University

B.S., Department of Biomedical Engineering, Chung-Yuan University

Career Experience :

Professor 2009--

Courses Taught : Principle of Sonography and Instruments, Sonography and Laboratory, Echocardiography and Laboratory, Advanced in Ultrasound Imaging

Professional Fields :

Ultrasound, Tissue Engineering, Biomaterials, Nerve Regeneration,

Dental Implant, Nanocomposite Materials

Research Interests :

1. The application of Ultrasound.
2. Tissue Engineering in Nerve Regeneration.
3. Dental Implant

Publications :

1. Y.C. Hung, S.C. Hsieh, S.R. Hou, J.Y. Kung, C.M. Tang*, C.J. Chang*, In Vivo Evaluation of PVP-Gelatin-Chitosan Composite Blended with Egg-Yolk Oil for Radiodermatitis, Appl. Sci. 2021; 11, 10290. (SCI). (Corresponding author)
2. Y.C. Hung, E.K. Tang, Y.J. Wu, C.J. Chang, F.Z. Wu*. Impact of low dose computed tomography for lung cancer screening on lung cancer surgical volume, Medicine, 2021; 100:32 (SCI).
3. Y.C. Hung, C.J. Chang, F.Z. Wu, Transient hepatic portal venous gas secondary to emphysematous infectious spondylodiscitis, British Journal of Hospital Medicine, 2020 Aug; 81(8) (SCI)
4. W.C. Lin, C.C. Chuang, C.J. Chang, Y.H. Chiu, C.M. Tang*. The Effect of Electrode Topography on the Magnetic Properties and MRI Application of Electrochemically Deposited, Synthesized, Cobalt-Substituted Hydroxyapatite, Nanomaterials (Basel). 2019 Feb; 3;9(2):200. (SCI)
5. C.H. Chen, H.L. Chang, S.C. Shih, S.H. Wu, C.J. Chang*, The Analysis of Medical Lawsuits against Radiological Technologists in Taiwan, 2016 Jun 23(1). (Corresponding author)
6. Y.L. Liao, Y.F. Jim, W.Y. Wu, C.J. Chang*, The study of the parameters of manual tables on silicone implants phantoms in digital mammography, Chinese Journal of Radiologic Technology, 2015; 39(1): 23-28, (Corresponding author)
7. H.S. Hung, C.H. Chang, C.J. Chang, C.M. Tang, W.C. Kao, S.Z. Lin, H.H. Hsieh, M.Y. Chu , W.S. Sun, S.h. Hsu*, In Vitro Study of a Novel Nanogold-Collagen Composite to Enhance the Mesenchymal Stem Cell Behavior for Vascular Regeneration, PLOS ONE, 2014 August, 9(8) (SCI)
8. I.M. Hsu, Y.L. Lee, C.H. Lin, Wen-Tao Huang, Chen-Jung Chang*, L.C. Liao, Using HFMEA to Assess the Patients Safety in MRI Examinations, Journal of Health Management Vol. 11, No. 1, June 2013; 29-44. (Corresponding author)

9. S.K. Hsu, W.T. Huang, B.S. Liu, S.M. Li, H.T. Cheng, C.J. Chang*. Effects of near-field ultrasound stimulation on new bone formation and osseointegration of dental titanium implants in vitro and in vivo, *Ultrasound in Medicine & Biology*, 2011,37(3):403-416 (SCI). (Corresponding author)
10. C.J. Chang*. The Effect of Pulse-Released Nerve Growth Factor from Genipin-Crosslinked Gelatin in Schwann cell seeded Polycaprolactone Conduit on Large-gap Peripheral Nerve Regeneration. *Tissue Engineering*, 2009 Mar;15(3):547-57. (SCI)
11. 3. C.J. Chang*. Effects of nerve growth factor from genipin-crosslinked gelatin in polycaprolactone conduit on peripheral nerve regeneration in vitro and in vivo. *Journal of Biomedical Materials Research (part A)*, 2009 Nov;91(2):586-96 (SCI)
12. 4. C.J. Chang, P.L. Liao, S.h. Hsu*, H. Chang, C.S. Chang. Effects of unidirectional permeability in asymmetric poly(DL-lactic acid-co-glycolic acid) conduits for peripheral nerve regeneration: An in vitro and in vivo study. *Journal of Biomedical Materials Research (part B)*, 2007; 83(1):206–215. (SCI).
13. C.J. Chang, S.h. Hsu*. The effect of high outflow permeability in asymmetric poly(DL-lactic acid-co-glycolic acid) conduits for peripheral nerve regeneration. *Biomaterials*, 2006; 27(7): 1035–1042. (SCI).
14. C.J. Chang, P.L. Liao, S.h. Hsu*, H. Chang, C.S. Chang. Low-intensity ultrasound accelerated nerve regeneration using cells-seeded poly(DL-lactic acid-co-glycolic acid) conduits : An in-vivo and in-vitro study. *Journal of Biomedical Materials Research (part B)*, 2005; 75 (1): 99–107. (SCI).
15. C.J. Chang, S.H. Hsu*, The effects of low-intensity ultrasound on peripheral nerve regeneration in poly(DL-lactic acid-co-glycolic acid) conduits seeded with Schwann cells, *Ultrasound in Medicine & Biology*, 2004;30: 1079-1084 (SCI).
16. S.H. Hsu, C.J. Chang, C.M. Tang, F.T. Lin. In vitro and in vivo effects of Ginkgo biloba extract EGb 761 on seeded Schwann cells within poly(DL-lactic acid-co-glycolic acid) conduits for peripheral nerve regeneration, *Journal of Biomaterials Applications*, 2004;19: 163 - 182. (SCI).
17. C.H. Yao, B.S. Liu, C.J. Chang, S.H. Hsu, Preparation of networks of gelatin and genipin as degradable biomaterials. *Materials Chemistry and Physics*, 2004 ; 83 : 204-208. (4.5). (SCI)