

Curriculum Vitae

Hsiang-Ho Chen, Ph.D.

● Present Academic Rank and Position

- 2007/11/01-present Professor,
School of Biomedical Engineering,
Taipei Medical University, Taiwan.
- 2019/11-now President,
Taiwanese Society of Biomechanics

● Education

- Ph.D. (1996) Institute of Biomedical Engineering,
National Yang Ming University, Taiwan.

● Professional Work Experiences

- 2019/11/1-2019/11/3 Co-Chair, 10th Asian Pacific Conference on Biomechanics
Taipei, Taiwan
- 2016/08-2019/08 Chairman, School of Biomedical Engineering
Taipei Medical University, Taiwan
- 2012/11-2013/02 Visiting Professor
Department of Image Physics,
MD Anderson Cancer Center, Houston, Texas, USA
- 2007/05-2007/09 Visiting Professor, Bioengineering Center
Wayne State University, Detroit, USA
- 2006/02-2007/04 Postdoctoral Research Fellow, Sports Medicine Center
Baylor College of Medicine, Houston, Texas, USA
- 1997/02-2006/01 Professor/Associate Professor, Department of Biomedical Engineering,
I-Shou University, Kaohsiung, Taiwan.
- 1996/02-1997/01 Engineer, Department of R&D,
United Orthopedic Company, Hsinchu, Taiwan

● Professional Interests

- Musculoskeletal Biomechanics; Ergonomics; Atomic Force Microscopy, Robotics
- Medical Device Development; Finite Element Analysis/Computer Aided Engineering

● Academic Activities

- Affiliations Activities The Board member of ROC Society of Biomedical Engineering (2018/11-2020/10)
Member of the council of Taiwanese Society of Biomechanics (2017/11~present)

- Journal Editor/Review

Clinical Biomechanics (SCI)/ Journal of Medical and Biological Engineering (SCI/EI)/Biomedical Engineering-Applications, Basis and Communications (SCIE/EI)/ Journal of Mechanics in Medicine and Biology (SCI)/Medical Engineering & Physics (SCI)/Biomedical Engineering/Biomedizinische (SCI)/ Computer Methods in Biomechanics and Biomedical Engineering (SCI)/ Journal of Orthopaedic Research (SCI)/ Journal of Orthopaedic Surgery and Research

- **Honors/Awards**

- Best Oral Paper Awards, International Conference of Mechanics on Medicine and Biology, 2018
- Best Poster Paper Awards, Taipei Medical University Research Award, 2018
- First place in Acer Creative Entrepreneurship Competition, 2018
- Bronze Medal, Seoul International Invention Fair, 2017

- **Publication list (2016-now select) (*Corresponding author)**

1. Hsiang-Ho Chen, Wei-Yi Lai, Tze-Jian Chee, Ya-Hui Chan, Sheng-Wei Feng (2017, Mar). Monitoring the Changes of Material Properties at Bone-Implant Interface during the Healing Process in Vivo: A Viscoelastic Investigation. *BioMed Research International*, Volume 2017, Article ID 1945607, 10 pages; <https://doi.org/10.1155/2017/1945607>. (SCI, 82/161, Biotechnology & Applied Microbiology).
2. Hsiang-Ho Chen, Cheng-Han Chung, Chi-Chen Lee, Cheng-Shu Yang, Yu-Shin Wen, Chi-Lien Lee, Kwo-Tsao Chiang (2017, May). Analysis of Intervertebral Angulations and Musculoskeletal Symptoms of the Spine in the Military Aircrews of Taiwan. *Biomedical Engineering: Application, Basis and Communications*, Vol. 29, No. 2 1750010-1~10 DOI: 10.4015/S1016237217500107. (EI). Ministry of National Defense-Medical Affairs Bureau: 99-I-36, 100-I-123.
3. Xinrui Liu; Hsiang-Ho Chen; Yu-Chien Lin; Sasza Chyntara Nabilla; Wai-Ching Liu; Wen-Chi Wang; Shao-Ju Shih; Yunqian Li; Ching-Po Lin; Gang Zhao; Ren-Jei Chung. (2018, Apr). Composite Polyelectrolyte Multilayer and Mesoporous Bioactive Glass Nanoparticle Coating on 316L Stainless Steel for Controlled Antibiotic Release and Biocompatibility. *Journal of Biomedical Nanotechnology*, 14 (4): 725-35. (SCI, MATERIALS SCIENCE, BIOMATERIALS).
4. Wong CC, Wong PC, Tsai PH, Jang SC, Cheng CK, Chen HH, Chen CH (2019, May) Biocompatibility and Osteogenic Capacity of Mg-Zn-Ca Bulk Metallic Glass for Rabbit Tendon-Bone Interference Fixation. *Int J Mol Sci* 20:2191-2201. (SCI, MATERIALS SCIENCE, BIOMATERIALS). Corresponding Author.
5. Henni Setia Ningsih, Leonhard Tannesia, Hsiang-Ho Chen, Shao-Ju Shih (2021, Mar). Fabrication, Characterization and In Vitro Cytotoxicity of Mesoporous β - Tricalcium Phosphate Using the Spray Drying Method. *Crystals*. (SCI, 10/26, CRYSTALLOGRAPHY). Corresponding Author.

Books:

1. Chen PY, Chou LS, Hu CJ, Chen HH*. Finite Element Simulations of Brain Responses to Soccer-Heading Impacts. *1st Global Conference on Biomedical Engineering & 9th Asian-Pacific Conference on Medical and Biological Engineering, IFMBE Proceedings* (ISBN: 978-3-319-12261-8). Cham, Switzerland: Springer. Jan, 2015: 47:118-9. * Corresponding author.