

## Arthur FT MAK

### SELECTED RESEARCH OUTPUTS

(from 14 Book Chapters, 6 Patents, and >125 SCI full length Journal Papers, \*Corresponding Authors)

- 1) KOO TTK and **MAK AFT**. Feasibility of Using EMG Driven Neuromusculoskeletal Model for Prediction of Dynamic Movement. *J Electromyography & Kinesiology*. 15: 12-26. Feb 2005.
- 2) LEE WCC, ZHANG M, **MAK AFT**. Regional Differences in Pain Threshold and Tolerance of Trans-Tibial Residual Limbs: Including the Effects of Age and Interface Material. *Arch Phys Med & Rehab*. 86(4): 641-649. 2005.
- 3) CHEN Yun, **MAK AFT**, LI Jiashen, WANG Min, SHUM Anita. Formation of Apatite on Poly ( $\alpha$ -hydroxy acid) in an Accelerated Biomimetic Process. *J Biomedical Materials Research*. 73B(1):68-76. April 2005.
- 4) LEUNG KL, CHENG CY, **MAK AFT**. A Cross Sectional Study on the Development of Foot Arch Function of 2715 Chinese School Children. *Prosthetics and Orthotics International*, 29(3): 241-253. 2005.
- 5) CHEN Yun, **MAK AFT**, WANG Min, LI Jiashen. Composite Coating of Bone-like Apatite Particles and Collagen Fibers on Poly L-lactic Acid through an Accelerated Biomimetic Coprecipitation Process. *J Biomedical Materials Research*. 77B: 315-322. May 2006.
- 6) LI ZY, TAM EWC, KWAN MPC, **MAK AFT**, LO SSC, LEUNG MCP. Effects of Prolonged Surface Pressure to the Skin Blood Flowmotions in Anaesthetized Rats – Assessment by Spectral Analysis of Laser Doppler Flowmetry Signals. *Physics in Medicine and Biology*. 51: 2681-2694, May 2006.
- 7) KOO TTK, CHAO EYS, **MAK AFT\***. Development and Validation of a New Approach for Computer Aided Long Bone Fracture Reduction Using Unilateral External Fixator. *J Biomechanics*. 39(11):2104 -2112, August 2006.
- 8) LI ZY, LEUNG JYS, TAM EWC\*, **MAK AFT**. Wavelet Analysis of Skin Blood Oscillations in Spinal Cord Injured and Able-Bodied Subjects. *Archive of Physical Medicine and Rehabilitation*. 87:1207-1212, September 2006.
- 9) LI Jiashen, NEAUSSART Audrey, CHEN Yun, **MAK AFT\***. Transfer of Apatite Coating from Porogens to Scaffolds: Uniform Apatite Coating Within Porous Poly (Lactide-co-glycolide) Scaffold. *J Biomedical Materials Research (Part-A)*. 80A(1): 226-233. January 2007.
- 10) CHEN Y, **MAK AFT\***, WANG M, LI JS, WONG MS. In-vitro Behavior of Osteoblast-like Cells on PLLA Films with Biomimetic Apatite/ Collagen Composite Coating. *Journal of Materials Science: Materials in Medicine*. 19:2261-2268. June 2008.
- 11) CHEN Y, CHO MR, **MAK AFT\***, LI JS, WANG M, SUN S. Morphology and Adhesion of Mesenchymal Stem Cells on PLLA, Apatite and Apatite/ Collagen Surfaces. *Journal of Materials Science: Materials in Medicine*. 19: 2563-2567. July 2008.
- 12) LI JS, YUAN XY, HE F, **MAK AFT\***. Hybrid Coating of Hydroxyapatite and Collagen within Poly (DL-lactic-co-glycolic acid) Scaffold. *J Biomedical Materials Research – Part B*. 88B(2):381-388. August 2008.
- 13) LI ZY, TAM EWC, LAU RYC, SO KF, WU WT, **MAK AFT**. Post Pressure Response of Skin Blood Flowmotions in Anesthetized Rats with Spinal Cord Injury. *Microvascular Research*, 78(1): 20-24. June 2009.
- 14) LI Jiashen, CHEN Yun, **MAK AFT\***, TUAN Rocky, LI Lin, LI Yi. A One-Step Method to Fabricate PLLA Scaffolds with Deposition of Bioactive Hydroxyapatite and Collagen using Ice-based Microporogens. *Acta Biomaterialia*. Paper Accepted. 2009.
- 15) **MAK AFT\***, ZHANG M, TAM EWC. Biomechanics of Pressure Ulcer in Body Tissues Interacting with External Forces during Locomotion. *Annual Review of Biomedical Engineering*. Paper Accepted. 2009.