



**THE CHINESE UNIVERSITY OF HONG KONG
FACULTY OF MEDICINE
SCHOOL OF BIOMEDICAL SCIENCES**

SBS PI Seminar Series 2022-2023

Prof. KER Dai Fei Elmer

Assistant Professor

School of Biomedical Sciences, Faculty of Medicine /
Institute for Tissue Engineering and Regenerative Medicine
The Chinese University of Hong Kong

will present a seminar entitled

“Artificial Intelligence- and Biomaterials-based Approaches for Biomedical Discoveries and Applications”

Artificial intelligence (AI) and biomaterials offer exciting prospects for studying biological processes and developing effective therapeutics that advance the frontiers of biomedical knowledge and regenerative medicine. In this regard, our lab has focused on developing and applying such technologies for advancing our collective understanding of the cellular response towards different tissue-mimetic biomaterials or microenvironments and the mechanical response of biomaterials under physiological conditions, with potential translational applications in (i) clinical diagnostics, (ii) cell manufacturing, and (iii) biomaterial-based therapeutics. In this seminar, recent progress in the development of label-free detection and analysis technologies such as computer vision and neural network-based Raman analysis as well as musculoskeletal and auricular stress-reducing biomaterials will be presented.

8 December 2022, Thursday, 4:00 – 5:00 pm

Room G02, Lo Kwee-Seong Integrated Biomedical Sciences Building,
Area 39, The Chinese University of Hong Kong

Registration link

<https://webapp.sbs.cuhk.edu.hk/eform/view.php?id=91067>

Deadline: **12:00 noon, 7 December 2022 (Wed)**

