



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

SBS PI Seminar Series 2022-2023

Prof. Wang Dan Michelle

Assistant Professor

School of Biomedical Sciences

Faculty of Medicine, The Chinese University of Hong Kong

will present a seminar entitled

**“Advancing ECM-Based Biomaterials for Robust Tendon Regeneration:
From Basic Science to Translational Applications”**

Abstract: Tendons are dense collagenous tissues that connect muscle to bone, playing a crucial role in force transmission during musculoskeletal movement. However, repairing tendon injuries presents significant clinical challenges due to insufficient endogenous regeneration and high mechanical demands. To address this issue, Professor Wang and her team have been focusing on extracellular matrix (ECM)-centric approaches to enhance tendon regeneration and understand their mechanisms of action. Their work has led to the development of clinically practical biomaterials, such as a tendon ECM-based tough hydrogel with high tendon regenerative capacity, and a hydrogel-polyurethane hybrid scaffold that provides robust mechanical support and excellent tenogenic bioactivity. These efforts will advance our understanding and application of ECM-based technologies, ultimately assisting in clinical tendon repair.

20 April 2023, Thursday, 4:00 – 5:00 pm

On-site & via Zoom

G02, Lo Kwee-Seong Integrated Biomedical Sciences Building, Area 39, CUHK

Registration link

<https://webapp.sbs.cuhk.edu.hk/eform/view.php?id=106476>

Deadline: **12:00 noon, 19 April 2023 (Wed)**

