



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

SBS PI Seminar Series 2023-2024

Prof. GAO Bo

Associate Professor

School of Biomedical Sciences

Faculty of Medicine, The Chinese University of Hong Kong

will present a seminar entitled

“Unravelling the Genetic and Molecular Complexity of Scoliosis”

Abstract

Scoliosis, a complex three-dimensional spinal deformity affecting millions of children, poses significant challenges for affected individuals and healthcare providers worldwide. Recent advancements in genetic and molecular research have provided invaluable insights into the intricate mechanisms underlying scoliosis development and progression. This talk will provide a concise overview of the genetic and molecular landscape of scoliosis and present our own studies on both congenital scoliosis (CS) and adolescent idiopathic scoliosis (AIS). We explored the genetic factors implicated in scoliosis susceptibility, highlighting newly identified key genes and signalling pathways. Furthermore, our investigations delved into the underlying mechanisms impacting spinal development and alignment in cellular and animal models. By deciphering the genetic and molecular basis of scoliosis, our research aims to improve early diagnosis and pave the way for innovative treatments, enhancing patient outcomes in scoliosis management.

1 June 2023, Thursday, 4:00 – 5:00 pm

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