



**Prof. HUANG Yu**

**Professor of the School of Biomedical Sciences and Director of the Institute of Vascular Medicine  
The Chinese University of Hong Kong**

**Prof. HUANG Yu** received his B.Sc. degree from Fudan University Shanghai Medical School, and M.Phil and PhD degrees from University of Cambridge. After spending several years on research in the United States, first as the American Heart Association postdoctoral research fellow in the University of Vermont and later as postdoctoral physiologist at University of California at Los Angeles, he joined the Department of Physiology, CUHK in late 1993 and is currently Professor in the School of Biomedical Sciences. He is the founding Director (Basic Sciences) of the Institute of Vascular Medicine at CUHK.

Professor Huang has been recognized as one of the leading scientists in vascular biology research who contributed significantly to the growth of cardiovascular research particularly in the Asian region. He is currently the President of Asian Society for Vascular Biology. He has fostered a close academic association with mainland China and he is the executive council member or council member for the Chinese Section, International Society of Heart Research, Chinese Association of Pathophysiology, Chinese Society of Cardiovascular Pathophysiology, Chinese Society of Cardiovascular Pharmacology, and Specialty Committee of TCM Pharmacology of World Federation of Chinese Medicine Societies. He is also the guest professor of seven mainland universities including Fudan University Shanghai Medical College, Shanghai Jiaotong University Medical College and Peking University School of Basic Medical Sciences, as well as the visiting professor under the Academic Icon Program, University of Malaya.

In recent years, Professor Huang and his team have been actively exploring new and more innovative clinically-relevant research or translational research in vascular biology. The mission of his research programs is to elucidate cellular and molecular events involved in the initiation and progression of endothelial cell dysfunction in hypertension, obesity, diabetes, estrogen deficiency and ageing, to uncover novel relevant biomarkers for vascular pathogenesis, and to develop venues to reverse vascular dysfunction in animal models of cardio-metabolic disorder. Professor Huang's team has established the pathological importance for interaction of cyclooxygenase-2 and bone morphogenic protein-4 in endothelial dysfunction in ageing, hypertension and diabetes. To advance the concept on the 'adipose-vascular axis', his group has demonstrated that PPAR $\gamma$ -activated adipose tissue-derived adiponectin plays an obligatory role in the improvement of endothelial function in obesity and diabetes, thus, the adipose tissue represents a promising target for ameliorating diabetic vasculopathy.

Professor Huang and his team are currently attempting to reveal novel molecular mechanisms and signaling crosstalk that collectively mediate physical exercise-induced vascular benefits in obese and diabetic animals, aiming at exploring new therapeutic strategies for vascular diseases. His research platform affiliated with Institute of Vascular Medicine and Li Ka Shing Institute of Health Sciences at CUHK has provided ample opportunities for closer collaboration with endocrinologists, clinical pharmacologists, and basic scientists in Hong Kong and around the world. His research programs are mainly funded by grants from the Hong Kong Research Grants Council, Hong Kong Food and Health Bureau, and CUHK Focused Investment Scheme.

As a dedicated educator and supervisor, Professor Huang has mentored and trained a number of highly competitive and devoted postgraduate students and postdoctoral researchers who have contributed substantially to the steady growth of vascular research programs at CUHK.

Professor Huang has co-authored 316 peer-reviewed publications in SCI-indexed journals including *Nature*, *Science*, *Neuron*, *Cell Metabolism*, *Circulation Research* and *European Heart Journal*. These publications have been widely quoted (8652 citations - Web of Knowledge or 11159 citations - Google Scholar Citation). In addition, he plays an active role in organizing a number of high-profile scientific symposia in 11 countries and regions, and serves international scientific communities in various capacities. Professor Huang has so far served as the editor, associate editor, and editorial board member for 35 journals.