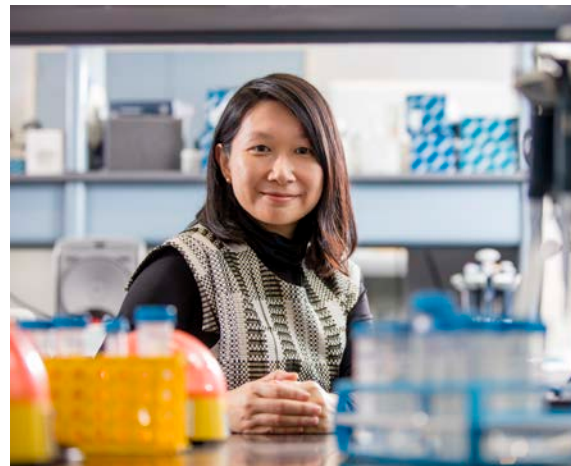




**Professor Rossa CHIU Wai-Kwun**  
**Choh-Ming Li Professor of Chemical Pathology**  
**Assistant Dean (Research), The Faculty of Medicine**  
**The Chinese University of Hong Kong**

Biography

Professor Rossa Chiu is the Choh-Ming Li Professor of Chemical Pathology and Assistant Dean (Research) at the Faculty of Medicine, The Chinese University of Hong Kong (CUHK). She is an Honorary Consultant Chemical Pathologist at the New Territories East Cluster of Hospitals. Professor Chiu graduated from medical school at the University of Queensland, Australia and was awarded Doctor of Philosophy by The Chinese University of Hong Kong. She is a Fellow of the Royal College of Pathologists of Australasia, the Hong Kong College of Pathologists and the Hong Kong Academy of Medicine (Pathology).



Professor Chiu's research interests lie in the analysis of circulating nucleic acids found in human plasma. She is known for her contributions in the successful development of non-invasive prenatal testing for Down syndrome and other fetal diseases by maternal blood analysis. The clinical use of non-invasive prenatal testing for Down syndrome has since been implemented worldwide, reducing the chance of fetal miscarriage associated with conventional invasive prenatal diagnostic procedures, such as by amniocentesis. Recently, Professor Chiu and her research team have achieved another breakthrough in blood based cancer detection. The new technology is not only able to detect abnormal DNA associated with cancer, it also locates which organ the abnormal DNA is coming from. With this award, Professor Chiu hopes to enable early cancer detection and treatment.

Professor Chiu has received a number of awards including the '14th World Outstanding Chinese Award' (2015), 'Science and Technology Award for Chinese Youth' (2013), 'Outstanding Scientific Achievements by a Young Investigator' of the American Association of Clinical Chemistry (2013), and 'APEC Science Prize for Innovation, Research and Education' (2012). Further to her research achievements, Professor Chiu also excels in teaching. She won the annual Teaching Award from the Faculty of Medicine for five consecutive years from 1999 and was awarded the title of Master Teacher by the Faculty of Medicine at CUHK in 2005. As of today, Professor Chiu has published more than 140 peer-reviewed research articles and holds 150 patents or patent applications.