Suet Yi Leung

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Brief Bibliography

Professor Suet-vi Leung is the Associate Dean (Research), Li Ka Shing Faculty of Medicine at The University of Hong Kong. She is also the YW Kan Endowed Professor in Natural Sciences and Chair in Gastrointestinal Cancer Genetics and Genomics in the Department of Pathology. Her research interests are focused on the molecular genetics, epigenetics and genomics of gastric and colorectal cancers, and their applications in molecular classification and genetic diagnosis to facilitate cancer prevention and treatment. Using genomic technologies, including next generation sequencing, her group has identified many novel gastric cancer driver genes, including ARID1A, RHOA and RNF43, and defined the genomic and epigenomic landscapes of various molecular subtypes of gastric cancer. Her team has also first described the heritable germline methylation of the MSH2 gene promoter as a cause of Lynch Syndrome, and subsequently identified EPCAM deletion as the cause of MSH2 methylation, the latter has become a standard genetic diagnosis test for Lynch Syndrome. Her team also uncovered the critical role of BRAF and RNF43 in the serrated neoplasia pathway, provided critical molecular data to support the pathogenic role of RNF43 germline mutation in Serrated Polyposis Syndrome families. The long term goal of her laboratory is to identify novel genes that are important for the causation of gastric and colorectal cancer, and to explore the use of some of these genes as markers for early detection, prognostication or drug targets.