Epigenetic regulation of solid cancer and its implications

Associate Professor Aniruddha Chatterjee

Epigeneticist & founder and director of Epigenetics User Group based on Otago, New Zealand

VIB-UGENT CENTER FOR MEDICAL BIOTECHNOLOGY

Wednesday, July 2 @ 10:30 am

FSVM II - seminar room 'Walter Fiers' (L5)

Host: Nico Callewaert

Scientific biography

Associate Professor Aniruddha Chatterjee and his team have developed some of the first pipelines for genome-scale DNA methylation analysis and have provided the first DNA methylation maps of many cell types. Their work has identified aberrant epigenetic and gene expression patterns in many tumour types and has identified new epigenetic regulatory mechanisms in cancer cells. In his talk, he will present the key findings from some of the work over the years and also elaborate on some recent and future directions in understanding the role of DNA methylation events in cancer metastasis, early detection, and treatment monitoring in solid cancers.

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Duo talk: Cell-free DNA methylome profiling in prostate cancer

Associate Professor Aniruddha Chatterjee & Dr. Jim Smith

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Scientific biography

Dr Jim Smith is a practicing General Surgery and Urology Registrar (Dunedin Hospital) and Honorary Research Fellow (University of Otago) based in Dunedin, New Zealand. He is the current Roche Translational Cancer Research Fellow (New Zealand Society for Oncology, 2024).

His early research focused on CRISPR-based epigenetic editing to investigate melanoma progression and metastasis, and he has also been involved with several clinical research projects across a range of fields – assessing interventions to improve patient outcomes. Currently, his major research focus is as the clinical lead of several current prostate cancer research projects, aiming to identify multi-omic biomarkers to enhance the diagnosis and clinical management of prostate cancer, across a range of disease contexts.

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