

Genomic biomarkers in human cancer

Emmanuel Dias-Neto, PhD

Lab of Medical Genomics, AC Camargo Cancer Center, Sao Paulo, SP

Genomic tools are one of the most promising approaches to identify biomarkers of interest in a number of complex human diseases, including cancer. In my presentation I will show examples and research results generated in our laboratory that demonstrate a range of approaches that can be used as a means to identify these biomarkers. These include transcriptional biomarkers in tumors and extracellular vesicles, mutation profiles useful for cancer detection in liquid biopsies and the evaluation of the complex microbiota found in human tissues and their correlation with disease development and implications for inflammation and chemotherapy response.