

# CHROMATOGRAPHY AND SEPARATION SCIENCE &

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### Biography

Satyajit Patra is the Chairperson of Research and PhD program at American International and Medical University located at St. Lucia. He completed M. Pharm in medicinal chemistry and PhD in Cancer molecular biology from Manipal University. He obtained postdoctoral training in cancer genetics from University of California San Diego, USA. He has several peer reviewed publications that have been cited over 200 times in different fields including cancer, 3D bioprinting, isolation of natural biomolecules.

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### APPLICATION OF ADVANCED CHROMATOGRAPHY IN DISCOVERY OF ANTICANCER DRUGS

Identification and quantification active biomolecules and metabolites including secondary metabolites in a biological system is an integral part of the system biology Metabolomics. Chromatography provides a platform to analyze the difference between metabolic unperturbed and perturbed networks, one prominent example of use of chromatography in analyzing differences in cancerous and non-cancerous samples. This offer detailed information of fundamentals of the disease pathology, disease prognosis and diagnosis. Many researcher are focusing on identifying and analyzing metabolomics and its extension of these information in the study of differential cancer cells, identification of novel drug molecules and biomarkers, however limited approaches have been explored towards focusing a specific cancer cells or disease. The answer to the long lasting questions of identification of suitable technology for exploring these questions could be offered by Metabolomics to analyze biomarkers, useful for identification and prediction of predisposition to cancer and early stage diagnosis. In the field of cancer therapy this is very promising and a important clinical need to eliminate severe pathological effect of cancer. We will discuss use of metabolomics as a tool for analyzing biomarker and discovery of novel drug molecule in cancer, and the principal focus will be on the use of this tool to envisage resistance and sensitivity of anticancer drug, and early diagnosis, prognosis, and metastasis of cancer.

