



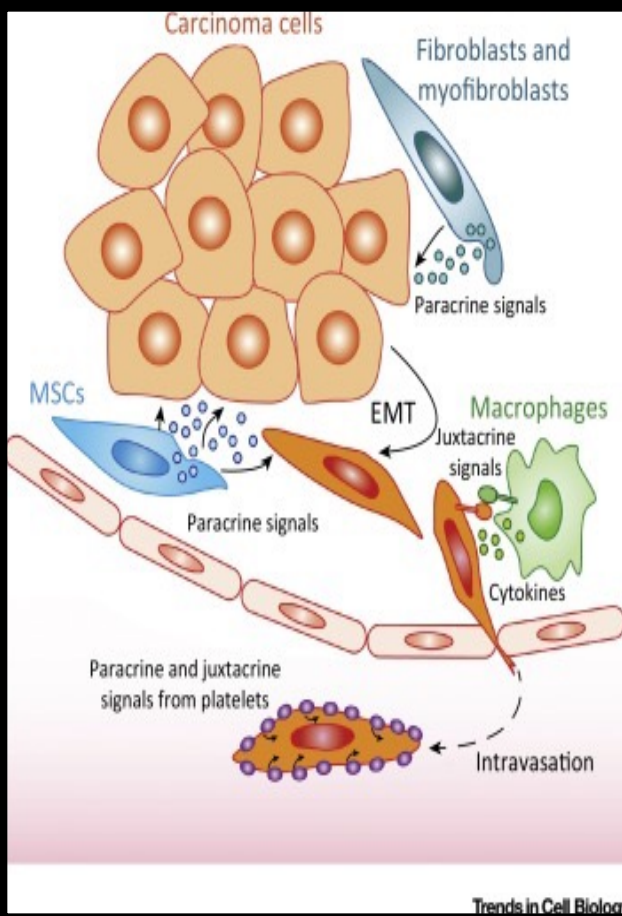
Centre for Biosystems Science and Engineering Seminar

Cancer cell migrations: Explorations from petri dishes to human bodies

4:00 PM, 10th June 2016,
Seminar Hall, MRDG, Biological Sciences Building.

Dr. TS Sridhar

St. John's Research Institute, Bangalore.



Most human tissues and organs have a tissue component termed epithelium. Architecturally epithelia are composed of one or more layers of cells that are tightly packed and these cells have a distinct polarity. Two of the hall marks of cancer of epithelial structures (Lung, Colon, Breast to name the most common) are the loss of polarity and the propensity of these tightly packed cells to migrate from the site of origin to distant sites.

The speaker will discuss how, the molecular disruptions that permit this anti-social behaviour can be understood *in vitro* and by using breast cancer specimens from women with the disease. Data that support a critical role for growth-factor receptors and cell-adhesion molecules termed integrins will also be presented.

About the speaker

Dr TS Sridhar is a physician-scientist by training and is currently the head of the Division of Molecular Medicine at the St. John's Research institute in Bangalore. He got his MBBS from KMC Manipal, and a PhD in Cell and Molecular Biology at CCMB, Hyderabad. He completed his residency training in Neurology at the Washington University in St. Louis and had a post-doctoral stint at the Harvard Medical School. Prior to his work at SJRI, he was involved in the setting up 2 startups in the area of reagent development and molecular diagnostics using genomic markers.