Venture Center

NCL Innovation Park
Pashan road, Pune-08

BIOPUNE SEMINAR SERIES

Bio Pune Seminar Series presents talks in the area of Bio Technology, Biomedical Engineering, Bioinformatics, Biomass value addition and related areas which are of interest and relevance to the bio sciences based technology and entrepreneurship community in Pune.

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BioPune Seminar # 15

On

Patient Tissue- and Cell-Based Clinically-Relevant Models for Validating New Drugs, Targets and Diagnostics in Human Diseases

By

Dr. Jugnu Jain,
CEO, Sapien Biosciences

on

Wednesday, 13 June 2018

Time: 11 am – 12 pm

Venue: Training room,
Venture Center
100, NCL Innovation Park
Dr. Homi Bhabha Road, Pune – 411008

Register here
https://bit.ly/2xQk3Lu

Registrations and networking tea will begin at 10.30am

This is a free event, but registration is required

Dr. Jugnu Jain,
CEO, Sapien Biosciences

Abstract

Translational cell models that reflect the heterogeneity and complexity of human disease are needed to improve the clinical success of drug candidates. Sapien has built an Indian patient-derived tissue- and cells-bank with appropriate ethical approvals and associated pathological and medical treatment data. Fresh patient samples are obtained from the operation theatre including tumour tissues, blood or sputum from cancer and immune-inflammatory diseases, skin from cosmetic surgeries, controls from healthy persons. These samples are processed in a sterile manner for organoid, 3D as well as monolayer 2D cell cultures to test new drug candidates, biomarkers, formulations, mechanism of action etc.
The biobank maintains a matched set of flash-frozen sample for genomics/proteomics, FFPE blocks for IHC/FISH/PCR, plasma/serum for biomarker, from the same patient whose live tissue/cells have been cultured. These patient-derived assays and models have enabled the development of innovative diagnostics, drugs and markers which will be presented as case studies. Tissue and cell samples and matching data are provided to clients on a fee-for-service basis after obtaining appropriate ethical approvals.

About the speaker:

Dr. Jugnu Jain is a cell and molecular biologist with decades of experience in life sciences and healthcare focused companies. She did her PhD in Molecular Genetics from Cambridge University,UK, on the coveted Nehru Trust for Cambridge University scholarship. After completion of her PhD, Dr. Jain went to Boston, USA for her postdoc at Dana Farber Cancer Institute, a teaching hospital of Harvard Medical School where she held an Instructor position also. Her postdoc with Dr. Anjana Rao was on the transcriptional regulation of IL-2 and TNFa genes, the results of which were published in several high profile papers including Nature and Science, and won her research fellowship awards throughout her postdoc at the Dana Farber.