



TATA MEMORIAL CENTRE
Advanced Centre for Treatment, Research and Education in Cancer
(ACTREC)

Kharghar, Navi Mumbai - 410210

A Grant-in-Aid Institution of the Department of Atomic Energy, Government of India)



PROJECTS FOR Ph.D. JUNIOR RESEARCH FELLOW 2023 BATCH

NO.	PROJECT TITLE	GUIDE
1	The role of 14-3-3 σ in regulating therapy resistance and tumor progression	Dr. Sorab N. Dalal
2	Comparative proteomic analysis of 14-3-3 ligand association	Dr. Sorab N. Dalal
3	Deciphering the tumor associated functions of pregnancy zone protein in breast cancer	Dr. Syed K. Hasan
4	Understanding the role of mutations in the dynamics of homo and heterodimerization of HER2 in breast cancer	Dr. Kakoli Bose
5	Designing cancer therapeutics to target the anti-apoptotic cFLIP-CaM interaction	Dr. Kakoli Bose
6	Regulation of amino acid sensing mechanisms during developmental and malignant haematopoiesis in <i>Drosophila</i>	Dr. Rohan Jayant Khadilkar
7	Investigating oncogenic ribosomal apparatus in hepatocellular carcinoma (HCC)	Guide: Dr. Prasanna Venkatraman Co-Guide: Dr. Sunil Shetty
8	Role of ribosome composition during stress response.	Dr. Sunil Shetty
9	Tumor-associated myelomonocytic cells and B lymphocytes cross-talk in epithelial malignancies	Dr. Subir Biswas
10	Exosomal biomarkers for breast cancer prognosis	Dr. Sejal Patwardhan
11	Studies of protein-protein interactions to evaluate pathogenicity of mutations identified in different functional domains of BRCA1	Dr. Ashok K. Varma
12	Structural studies of mutations identified in PML-RARA causing resistance to acute promyelocytic leukemia	Dr. Ashok K. Varma Co-Guide: Dr. Syed K. Hasan
13	Proteomics based approach to evaluate the urinary biomarkers for bladder cancer treated with radiotherapy	Guide: Dr. Ashok K. Varma Co-Guide: Dr. Vedang Murthy
14	Studying the role of complement proteins in tumour-microenvironment	Dr. Sharath Chandra Arandkar
15	Characterizing Pathogenic Mutations of Procaspace-8 to uncover Apoptosis Regulation in cancer	Dr. Kakoli Bose
16	Defining the metabolic regulation in epidermal tissue homeostasis and cancer stem cells	Dr. Sanjeev Waghmare

New Translational Research Program at ACTREC: Projects are co designed and co mentored by Clinician and the Principal Investigator

NO.	PROJECT TITLE	GUIDE
17	Studies on prospective use of Tucatinib in Trastuzumab therapy resistant breast cancer	Guide: Dr Abhijit De Co-Guide: Dr. Sudeep Gupta
18	Discovery and development of drugs for the treatment of endothelial damage associated complications in haematopoietic stem cell transplantation	Guide: Dr. Vikram Gota Co-Guide: Dr. Navin Khattry
19	Exploring restoration of Cisplatin sensitivity with Alpelisib in Platinum Resistant /Refractory High grade serous ovarian cancer patients	Guide: Dr. Pritha Ray Co-Guide: Dr. Jaya Ghosh