

## ACTREC: Compilation of JRF-2022 Student Projects

S.No.	Guide	Project Title
1	Dr. Sorab Dalal	Determining the contribution of the LCN2 interactome to tumor progression.
2	Dr. Sorab Dalal	Identification of proteins whose secretion is dependent on LCN2 and their role in tumor progression
3	Dr. Syed Hasan	Harnessing the power of metabolic reprogramming and novel therapeutics to improve outcomes in acute myeloid leukemia
4	Dr. Pritha Ray	Investigating the therapeutic potential of a novel peptide in platinum resistant ovarian cancer
5	Dr. Pritha Ray	Investigating the underlying molecular signatures of cancer stem cell population of multi-drug resistant gastric cancer cells
6	Dr. Nandini Verma	Determining the role of epigenetic regulators in conferring drug resistance and metastasis in different subtypes of Breast Cancer
7	Dr. Nandini Verma	Determining the role of ferroptosis regulators in conferring drug resistance and metastasis in different subtypes of Breast Cancer
8	Dr. Abhijit De	STAT3 Feedback Activation in HER2 Drug Resistant Breast Cancer
9	Dr. Abhijit De	Homologous Targeting of BCSCs by Biomimetic Nanomaterial for Photothermal Therapy
10	Dr. Rohan Khadilkar	Understanding the role of stress-inducible transcription factor, Ets21c in <i>Drosophila</i> hematopoiesis and immune homeostasis
11	Dr. Murali Chilakapati	Evaluation of minimally invasive biophysical approach in detection of the early carcinogenic changes in animal models.
12	Dr. Sejal Patwardhan	Probing the role of exosomes in bystander signalling with relevance to cancer radiotherapy
13	Dr. Sanjeev Waghmare	Deciphering the Dab2 in tumor initiation and stem cells in squamous cell carcinoma
14	Dr. Sanjeev Waghmare	Delineating the role of Hexokinase 2 (HK2) in epidermal homeostasis and stem cell regulation
15	Dr. Sharath Chandra	Studying the role of driver mutations in tumour-microenvironment
16	Dr. Shilpee Dutt	Delineating the molecular mechanism mediated by SETMAR-H3K36me2 in conferring therapy resistance to residual cells of glioblastoma
17	Dr. Vikram Gota (PI) Dr. Pritha Ray (Co-PI)	Targeting the mitochondria for treatment of ovarian cancer
18	Dr. Ashok Varma	Proteomics based approach to validate a set of potential biomarkers in head and neck squamous cell carcinoma
19	Dr. Ashok Varma	Structural and Functional Characterization of Eph class of receptors and associated Ephrin complexes
20	Dr. Amit Dutt	Characterizing the Molecular Biology of Pathogens in Oral Cancer
21	Dr. Amit Dutt	Deciphering the role of lincRNA in hormone resistance in breast cancer
22	Dr. Kakoli Bose	Ancestral sequence reconstruction of the HtrA family of proteins and their functional implications

23	Dr. Kakoli Bose	Characterizing Pathogenic Mutations of Procaspase-8 to uncover Apoptosis Regulation in cancer
24	Dr. Sharath Chandra	Influence of TP53 Mutations on Tumour-stroma Interactions
25	Dr. Murali Chilakapati	Comparison of current laboratory methods for detection of resistance and genomic markers, DNA fingerprint of Raman spectra identified in-house for prediction of predisposition to imatinib resistance prior to start of treatment in chronic myeloid leukemia