

### ACTREC JRF 2021 project titles

S.No.	Guide	Project Title
1.	Dr. Manoj Mahimkar	Understanding YAP (Yes-associated protein) and its downstream signalling effectors during squamous cell carcinogenesis using <i>Drosophila</i> and rodent models
2.	Dr. Jyoti Kode	Deciphering dynamics of inflammasome innate immune pathways in oral cancer
3.	Dr. Jyoti Kode	Identification and validation of prognostic immune biomarkers in a phase III randomized study involving patients with advanced-stage Hodgkin lymphoma
4.	Dr. Vikram Gota	Preparation and evaluation of diselenide (DSePA) coated blood-brain barrier permeable gold nanocomposite for chemo/radiotherapy of human glioma tumors
5.	Dr. Rohan Khadilkar	Understanding systemic signalling and inter-organ communication between tumor cells and the hematopoietic system in <i>Drosophila</i> model of cancer cachexia
6.	Dr. Syed Hasan	Uncovering the molecular pathogenesis of acute promyelocytic leukemia associated coagulopathy
7.	Dr. Murali Chilakapati	Minimally invasive methodologies for stratification of premalignant and recurrent prone subjects in oral cancers
8.	Dr. Murali Chilakapati	Exploration of noninvasive and rapid biophysical methods to analyze treatment induced cytotoxicity
9.	Dr. Sanjay Gupta	Genomic distribution of replication dependent histone H3.2 in gastrointestinal cancers
10.	Dr. Sanjay Gupta	Phosphoacetylation of histone H3 and its functional relevance in gastrointestinal cancers
11.	Dr. Pritha Ray	Investigating the role of RUNX1 and ID proteins for targeting the Cancer Stem Cell population in primary and relapsed Epithelial Ovarian Cancer
12.	Dr. Nandini Verma	To study the role of tumor secretome in therapy resistance and metastasis in different subtypes of Triple negative breast cancers (TNBC)
13.	Dr. Nandini Verma	Role of Glutathione Peroxidase 4 (GPX4) in regulating Epithelial to Mesenchymal Transition (EMT), metastatic aggressiveness and tumor progression in chemotherapy-tolerant Triple negative Breast Cancers (TNBC).
14.	Dr. Sharath Chandra Arandkar	Role of IGFs in Cancer Associated Fibroblasts and understanding their function in Tumour-microenvironment
15.	Dr. Sejal Patwardhan	Delineating the role of ECM-stiffness regulated exosomes in invasion coupled metabolic reprogramming of breast cancer cells.
16.	Dr. Prasanna Venkatraman	Dissecting the molecular details of PSMD5 interaction to develop novel therapeutic strategies
17.	Dr. Abhijit De	Understanding immune cell reprogramming during Photothermal therapy and its prospect in solid tumor treatment
18.	Dr. Kakoli Bose	Structural and Functional Characterization of Mutations in Procaspase-8 to uncover Apoptosis Regulation in Cancer
19.	Dr. Sanjeev Waghmare	Investigating the signaling mechanism involved in chemo-resistance of oral cancer
20.	Dr. Sanjeev Waghmare	Deciphering the Dab2 in tumor initiation and stem cells in squamous cell carcinoma
21.	Dr. Amit Dutt	Deep learning approach for predicting nodal metastasis in tongue cancer using integrative genotype and radiological and pathological phenotype
22.	Dr. Amit Dutt	Epigenetic Regulation of Metabolic Pathways in Human Oral Cancer