

## Facilities @ JCMR

- Bioinformatics facilities for performing molecular modeling simulations especially for performing protein-ligand docking and protein-protein docking.
- GPU enabled high performance computer for molecular modelling and AI based studies.
- Dedicated facilities to perform bacterial cultures such as incubators, laminar airflow etc.
- Dedicated facilities for performing animal cell culture such as incubators, laminar airflow etc.
- Refrigerators and deep freezers (-80 and -20) to store the samples.
- Electrophoresis units with power pack to separate DNA, RNA and protein molecules.
- Western blot apparatus for antibody related studies and Chemidoc for imaging, analysis of gels.
- Various photometers such as microplate readers, spectrophotometer and fluorescence readers to detect the biological, chemical and physical events occur in the samples.
- Zeiss Axio Scope A1 for bright field and fluorescence applications.
- Echo therm vibration Chilling incubator for macromolecular crystallography.
- AKTA start Protein purification system
- Freeze dryer for concentrating biological samples.
- Other necessary equipment including centrifuges, hot air oven, micro pipettes, weighing balance and necessary chemicals to carry out various molecular biology experiments.
- Animal house facility to perform animal studies.
- Minion-portable sequencer.
- Dedicated cytogenetics workbench quipped with peripheral blood and bone marrow culture facility, Leica hybridization chamber, Axio Scope A1 bright field and Fluorescence microscope, Ikaros karyotyping software and Isis fluorescence *in situ* hybridization software.
- Rotary evaporator, TLC chamber, soxhlet apparatus and solvent filtration unit to extract the secondary metabolites from natural sources.