

Student's Project Information

Topic	Anticancer activity of drug molecule on human cancer cell lines.
Duration	3 months (4 days a week) 48 days
Module 1	Student sponsored their synthetic compound /plant extract / any known anticancer drug etc.
Module 2	The drug which is available with us.
Eligibility	Candidate must have completed M.Sc.

Weekly Schedule

Week 1	Overall project-related discussion, Literature survey-related project topic, Lab orientation.
Week 2	Lecture on cell culture basic, Flow cytometry, and Real-Time PCR, Good Lab Practices, SOP reading, Literature survey on the topic
Week 3	Introduction to lab instruments and handling, calculations, media preparation, good lab practice maintenance, etc.
Week 4	Observation of animal tissue culture technique on ongoing cell line culture for different cell lines, regular pipetting practice
Week 5	Demo training/practice of pipetting, flask/plate seeding, cell count, etc.
Week 6 to Week 11	Actual project work, meanwhile project-related research article searching, writing, and checking
Week 12	Viva on project work from the external examiner (depending on availability), Certification after completion of the project



Student's Project Guidelines


Note: Students can choose any 3 assays among the following for their anticancer projects

Human cancer cell line	From available
MTT assay (spectrophotometric based)	Mandatory -To check cytotoxicity
Apoptosis / Necrosis assay (Flow cytometer based)	
Cell cycle arrest assay (Flow cytometer based)	
Wound healing assay (Scratch assay)	
Mitochondrial potential assay (Flow cytometer based)	
ROS assay (Flow cytometer based)	
Gene expression study (Real-Time PCR based) (Apoptotic or EMT pathway two genes)	Excluding housekeeping gene

Note:

- If we provide drugs, then students are not allowed to publish the work as a research article or as a book chapter.
- Generated RAW data will be provided for dissertation purposes only.
- Project and research paper writing is the student's responsibility. We will provide guidance on project writing only.
- If a student wants to publish project work (in case the student brings his/her own drug), then s/he should inform the Lab Head and Director and include the name of the institution in the research article.
- Students should maintain discipline in the lab and follow good laboratory practice.
- Any type of photography is not allowed at any time period in the organization.
- Project charges should be paid in advance (100%) or in instalments.
- If experiments fail, they will be repeated a maximum of 3 times. If the experiments are repeated more than 3 times, extra charge will be applied for each repeat as per our price list.
- 18% GST will be applicable for online payment.

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