



SATHYABAMA UNIVERSITY

(DEEMED TO BE UNIVERSITY)

Jeppiar Nagar, Rajiv Gandhi Salai

Chennai-600119



FACULTY OF BIO AND CHEMICAL ENGINEERING

DEPARTMENT OF BIOTECHNOLOGY

Organizes value added course on

ANIMAL TISSUE CULTURE

DATE: 3rd November 2016 - 19th November 2016

TIME: 3.00 PM to 5.00 PM

Resource Persons

**Dr. P. Ramadoss,
Emeritus Professor,
Department of Animal
Biotechnology, TANUVAS**

**Dr. Ratnaprabha,
Associate Professor,
Department of Animal
Biotechnology, TANUVAS**

**Dr. M. Parthiban,
Professor and Head,
Department of Animal
Biotechnology**

**Dr. M. Bavanilatha,
Associate Professor,
Department of Biotechnology,**

**ELIGIBLE STUDENTS: FACULTY OF BIO AND CHEMICAL
ENGINEERING**

Attendance is mandatory for all classes

Organizer

Dr. M. Bavanilatha

Associate Professor

Department of Biotechnology

FOR REGISTRATION CONTACT: Dr M. Bavanilatha - 9042757900



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Objectives:

- The goal of this course is to provide the necessary theoretical knowledge on animals cells for in vitro studies, maintenance of animal cells in vitro, manipulation of animal cells in vitro, and application of molecular techniques to in vitro situations.
- Students are going to gain basic knowledge about culturing animal cells. They will get elementary skills how to culture animal cells derived from normal tissues and cancer cell lines.

Course Content:

TOTAL: 30 hrs

MODULE 1: BASICS OF ANIMAL CELL CULTURE (15 hrs)

1. Structure of animal cell
2. Different types of cell culture media, growth supplements, serum free media, balanced salt solution
3. Culture of different tissues and its application
4. Culture of mammalian cells, tissues and organs, primary culture, secondary culture, Continuous cell lines, suspension cultures

MODULE 2: IN VITRO APPLICATION OF ANIMAL CELL CULTURE (15 hrs)

1. Application of animal cell culture for in vitro testing of drugs, testing of toxicity of Environmental pollutants in cell culture
2. Application of cell culture technology in production Of human and animal viral vaccines and pharmaceutical protein
3. Conventional methods of animal vaccine production, recombinant approaches to vaccine production
4. Commercial-scale production of diagnostic antigens and antisera

Outcomes:

- Students understand the need for continuing education throughout their whole life, including broadening knowledge in cell biology.
- Develop basic aseptic skills for mammalian cell culture and its applications.
- Understand media constituents and media formulation strategies for mammalian cell culture.

Schedule for Animal Tissue Culture

DATE	NAME OF THE INVITED PERSON	TIME
03.11.2016	Dr.Ramadoss(Invited Speaker)	3:00 pm - 5:00 pm
04.11.2016	Dr.Ratnaprabha(Invited Speaker)	3:00 pm - 5:00 pm
05.11.2016	Dr.Prabhavathy	3:00 pm - 4:00 pm
05.11.2016	Dr.Bavanilatha	4:00 pm - 5:00 pm
07.11.2016	Dr.Valli Nachiyar	3:00 pm - 4:00 pm
07.11.2016	Dr.Usha Nandini	4:00 pm - 5:00 pm
08.11.2016	Dr.Bavanilatha	3:00 pm - 4:00 pm
	Dr.Sudha	4:00 pm - 5:00 pm
09.11.2016	Ms.Renuka Devi	3:00 pm - 4:00 pm
	Dr.Jayashree Nellore	4:00 pm - 5:00 pm
10.11.2016	Dr.Bavanilatha	3:00 pm - 4:00 pm
	Ms.Renuka Devi	4:00 pm - 5:00 pm
11.11.2016	Dr.Sudha	3:00 pm - 4:00 pm
	Dr.Bavanilatha	4:00 pm - 5:00 pm
12.11.2016	Dr.Usha Nandini	3:00 pm - 4:00 pm
	Dr.Uthralakshmi	4:00 pm - 5:00 pm
14.11.2016	Dr.Prakash	3:00 pm - 4:00 pm
	Ms.Renuka Devi	4:00 pm - 5:00 pm
15.11.2016	Dr.Ramesh Kumar	3:00 pm - 4:00 pm
	Dr.Bavanilatha	4:00 pm - 5:00 pm
16.11.2016	Ms.Renuka Devi	3:00 pm - 4:00 pm
	Dr.Jayashree Nellore	4:00 pm - 5:00 pm
17.11.2016	Ms.Raji	3:00 pm - 4:00 pm
	Ms.Subashini	4:00 pm - 5:00 pm
18.11.2016	Dr.Ramesh Kumar	3:00 pm - 4:00 pm
	Ms.Chinnu Raju	4:00 pm - 5:00 pm
19.11.2016	Dr.Parthiban(Invited Speaker)	3:00 pm - 5:00 pm



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CERTIFICATE

This is to certify that **Mr. Anirudh sarang** has been an **Active Participant** in National Workshop on BASIC ANIMAL TISSUE CULTURE TECHNIQUES held from 3rd to 18th November 2016, organized by Department of Biotechnology, Faculty of Bio and Chemical Engineering at Sathyabama University, Jeppiaar Nagar, Chennai – 600 119, Tamil Nadu.

Dr.B.S. NAVEEN PRASAD
(Faculty Head- Faculty of Bio & Chemical Engineering)
Sathyabama University

Dr.M.BAVANILATHA
(Convener – Dept. of Biotechnology)
Sathyabama University

DR.MARIAZEENA JOHNSON
(Director)
Sathyabama University

Dr. MARIE JOHNSON
(Director)
Sathyabama University