



JSS University, Mysuru
(Accredited "A" Grade by NAAC)



JSS College of Pharmacy
Ootacamund, Tamilnadu
(An ISO 9001:2008 Certified Institution)

Department of Pharmaceutical Biotechnology
Department of Pharmacology

In Collaboration With
Qiagen India Pvt Ltd

Presents

**THREE DAYS NATIONAL WORKSHOP ON
HANDS-ON TRAINING ON CELL CULTURE TECHNIQUES,
CELL PROLIFERATION ASSAYS and
GENE EXPRESSION ANALYSIS BY RT-PCR**
14th – 16th July, 2016



Sponsored By



Department of Biotechnology
Govt. of India, New Delhi



JSS University
Mysuru

JSS University

JSS University is a culmination of a half-century of perseverance in the field of education steered by the philosophy of noble minds. The medical institutions under the aegis of JSS University, are islands of excellence in their respective fields in medical sciences. The binding philosophy of these institutions, is that of training physicians, dentists, pharmacists, nurses and other healthcare professionals to provide the highest standards of patient care, whilst also pursuing cutting edge research.

JSS College of Pharmacy, Ooty

JSS College of Pharmacy is one of the oldest Pharmacy Institutes in the State of Tamil Nadu situated in the beautiful town of Ootacamund, popularly known as Ooty, was established in 1980 with the object of imparting quality pharmacy education in India. It is located amidst serene greenery, supported by learned faculty and with state-of-art facilities, the college provides enough opportunities to develop the individual in his / her field of expertise. The college has been successful in maintaining high level of research activity recognized at the national and international levels.

About the Department

The Department of Pharmaceutical Biotechnology was established in the year 1994 for the first time in the country to equip the pharmacy students with adequate theoretical and practical knowledge in Pharmaceutical Microbiology, Bioprocess Engineering Technology, Animal Tissue Culture technology, Protein and Protein Formulation, Immunotechnology, Bioinformatics and computational biotechnology, Biological evaluation of drug therapy and other modern molecular biotechnology techniques like cloning, sequencing and hybridoma etc., The department offers M. Pharm. In Pharmaceutical Biotechnology and Ph.D. The eighteen batches of PG and fifteen Ph.D students have successfully completed the course and secured gainful employment. The department is also running PG diploma in Bioinformatics course.

WORKSHOP HIGHLIGHTS

- ❖ A platform to understand handling and maintenance of different normal and cancerous cell lines
- ❖ Preparation and maintenance of primary cells from experimental animals
- ❖ Conduction of cell viability and cytotoxicity assays on cell lines
- ❖ Overview of Real-Time PCR Technology
- ❖ A practical approach to assay design for qPCR

RESOURCE PERSONS

- ❖ **Dr. Nirmal Robinson**, Scientist, Institute for Medical Microbiology and Immunology, University of Cologne, Cologne, Germany.
- ❖ **Dr. M.V.S.S.T. Subbarao**, Associate Professor, Department of Biochemistry, JSS Medical College, Mysore, Karnataka, India.
- ❖ **Mr. Senthil Nathan**, Application Specialist, QIAGEN India Pvt. Ltd. Chennai, Tamil Nadu, India.
- ❖ **Mr. Balaji Ramu**, Manager, QIAGEN India Pvt. Ltd. New Delhi, India.

IMPORTANCE OF THE WORKSHOP

The workshop is designed to provide a solid understanding of cell culture through classroom presentation and laboratory work.

- Participants will gain significant experience in the manipulation of animal cells through culture.
- Through integrated learning methods, utilizing hands-on training to reinforce lecture material participants will learn the biological basis and relevance of the process of culturing cells. This will allow participants to translate the techniques into applications in their own laboratories.

This workshop is also designed to give participants a combination of lecture and hands-on laboratory experience using real-time PCR methods. As typical examples of the use of real-time PCR we will measure differential expression of DNA from different tissues.

- Participants will gain experience using DNA binding dyes and hydrolysis probe chemistries as well as 2 plex real-time PCR.
- Lectures will include an overview of gene expression, assay design and optimization, template preparation, analysis of results, additional applications of real-time PCR technology, and more.

The objective of this program is to expose and train budding pharmaceutical science students and research scholars with advanced and state of the art techniques enabling them to carry out research in frontier area of science and technology.

Patron-in-chief

Dr. B. Suresh, Vice Chancellor,
JSS University, Mysuru – 570015, Karnataka, India

Patron

Dr. S.P. Dhanabal, Principal,
JSS College of Pharmacy, Ooty- 643001, Tamil Nadu, India

Convener

Dr. K. Elango, Professor and Head,
Department of Pharmacology, JSS College of Pharmacy,
Ooty- 643001, Tamil Nadu, India

Organizing Secretary

Dr. Ashish Wadhvani, Assistant Professor and Head I/c,
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JSS College of Pharmacy, Ooty-643001, Tamil Nadu, India

Organizing Committee

Dr. K. Gowthamarajan, Prof. and Head,
Dept. of Pharmaceutics, JSS College of Pharmacy, Ooty.

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Mr. Sameer Kumar Varma, Research Fellow,
Dept. of Pharm. Biotechnology, JSS College of Pharmacy, Ooty.

Mr. T. Mahesh, JRF-DBT,
Dept. of Pharm. Biotechnology, JSS College of Pharmacy, Ooty

Ooty – A Snapshot

Ooty is a hill station in the Western Ghats popularly known as 'queen of hills' blessed with huge landscapes, waterfalls, dams, peaks, lakes and botanical gardens, etc. This town is readily connected by road. It is about 90 Km from Coimbatore and about 160 Km from Mysore. The temperature in the month of July may be about 10^o C - 20^o C and so woollen garments like sweaters and shawls are preferred



Course Fee

- ✓ Students: Rs.1000/-
- ✓ Faculty: Rs.1500/-

Eligibility

- ✓ Final B. Pharm. Students, PG students of all branches of Pharmaceutical Sciences, Ph.D., and other research degree students, teaching faculty, research scientists and industry executives.

Fee includes

- ✓ The course fee covers course materials, sample exercises and selected journal articles (PDF).
- ✓ The fee also covers working lunch and refreshments.
- ✓ Participants of the Workshop will be awarded a Certificate at the end of the event.

Registration

- ✓ Registration is limited to 60 participants only.
- ✓ The training will be for 3 days in 2 groups of 30 each.
- ✓ Each participant will be informed in advance of his/her group.
- ✓ Participants must bring their own clean lab coat which is mandatory.
- ✓ Payment should be made in the form of a demand draft of Rs. 1000 or 1500/- favoring 'The Principal, JSS College of Pharmacy, Ootacamund' payable at Ootacamund, Tamilnadu.
- ✓ Completed bonafide applications along with course fee by Demand Draft must be sent to: The Organizing secretary, JSS College of Pharmacy, Ootacamund, The Nilgiris, Tamilnadu-643001.
- ✓ The applications must reach on or before 25th June, 2016. Applications received after 25th June will not be considered for registration.
- ✓ Selected participants will be informed on 30th June, 2016 by e-mail.

Address for Correspondence

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