

Programme Schedule

Day 1: 15.02.2016

- 09.00 a.m. to 09.30 a.m.: Registration
09.30 a.m. to 10.00 a.m.: Orientation
10.00 a.m. to 10.15 a.m.: Tea break
10.15 a.m. to 12.30 p.m.: Session 1
12.30 p.m. to 01.00 p.m.: Lunch
01.00 p.m. to 02.45 p.m.: Session 2
02.45 p.m. to 03.00 p.m.: Tea break
03.00 p.m. to 04.00 p.m.: Session 2 continues

Day 2: 16.02.2016

- 09.00 a.m. to 11.15 a.m.: Session 3
11.15 a.m. to 11.30 a.m.: Tea break
11.30 a.m. to 12.30 p.m.: Session 3 continues
12.30 p.m. to 01.00 p.m.: Lunch
01.00 p.m. to 03.30 p.m.: Session 4
03.30 p.m. to 03.45 p.m.: Tea break
03.45 p.m. to 04.00 p.m.: Issue of certificate

Workshop on Hands-on training in Microbial and Molecular Techniques

Conducted by

Dept. of Microbiology,
Center for Post Graduate Studies
On

15th and 16th February 2016

Venue: Center for Post Graduate Studies,
Department of Microbiology,
No. 18/3, 9th Main, 3rd Block,
Jayanagar, Bangalore-11. Ph. No.: 080 43226500

About the Department

Center for Post Graduate Studies (CPGS) is an exclusive postgraduate and research center of Jain University. Department of Microbiology is one of the Life Science departments housed in CPGS, established in the year 2003 as a part of SBMJC affiliated to Bangalore University and as part of Jain University since 2009. The department is actively engaged in postgraduate teaching/research programmes in Microbiology. The department has excellent infrastructural facilities to support students' curriculum. The facilities include well equipped laboratories, IT resources and library. Microbiology is one of the most popular upcoming streams in the applied sciences. The subject explores the relevance of microbes to mankind, by enlightening students about their beneficial and harmful aspects.

Module-1

Immobilization of cells and their applications

- Methods of immobilization
- Different matrices that can be used
- Batch, repeated batch and continuous processes
- Applications of immobilized cells

Module-2

PCR-based phylogenetic identification of bacterial pure cultures

- PCR amplification of selected gene (16S rRNA)
- Detection of amplicon on agarose gel
- Alignments and tables of sequence similarities
- Inference of phylogenetic trees including sequences from species type strains
- Phylogenetic and taxonomic conclusions

Module-3

Food quality and safety

- Detection of adulterants in milk
- Detection of adulterants in saturated fat
- Detection of aflatoxin in oil seeds
- Spoilage microflora of packaged foods
- HACCP concept

Organizing committee

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