

Registration Form

Workshop on Microbial Enzyme Technology

Date: 16th to 19th May 2012

Name:

Sex:

Designation:

Department / Institute

Area of Research / Job details

Address for Communication

Fax

Email

Details of Registration fee

Amount Rs. :

DD. No. :

Date :

Bank :

(DD in favour of Coordinator, Microbiology, Pondicherry University, Pondicherry)

Signature of the candidate

Signature of Head/Supervisor

Date :

Place :

Total number of participants: 25

(Participation will be confirmed on first come first served basis)

DBT Sponsored

WORKSHOP ON MICROBIAL ENZYME TECHNOLOGY

Date: 16th to 19th May 2012

Venue: Microbiology Programme,
Science Block - 1
Pondicherry University

Organizing secretaries

Dr. K. JEEVARATNAM

Professor and Microbiology Coordinator

Dr. BUSI SIDDHARDHA

Assistant Professor, Microbiology Programme

Organized by



Microbiology Programme
Department of Biochemistry and Molecular Biology
School of Life Sciences
Pondicherry University
Puducherry - 605 014

About Our Department

Pondicherry University is a Central University established by an Act of Parliament in October 1985 and India's fastest growing Central University during the XI plan..

The Department of Biochemistry & Molecular Biology was started as the Department of Biological Sciences under School of Life Sciences in 1987 and had been offering M.Sc., M.Phil., and Ph.D. degrees in Life Sciences. In 2004, the Department was renamed as Department of Biochemistry & Molecular Biology and has, since been offering M. Sc. and Ph. D. courses in Department Biochemistry and Molecular Biology (DBMB). M.Sc. Microbiology was started under the roof of DBMB in 2010. Microbiology programme is designed to equip postgraduates with multi-disciplinary skills and knowledge in the area of Biomedicine, Food and Agriculture and Biopharmaceutical and processed food Industries, and Waste management and environmental sustainability. In forth coming years, Microbiology will act as individual department and soon Ph.D. programme will be started. The department is equipped with modern microbiology instruments with state of art facility.

Training Programme

Enzymes have long been used as alternatives to chemicals to improve the efficiency and cost-effectiveness of a wide range of industrial systems and processes. They are currently used in basic and applied arenas of research as well as in a wide range of product design and manufacturing processes, such as those pertaining to the food, beverage, pharmaceutical, detergent, leather processing, and peptide synthesis industries. Among these biocatalysts, high-alkaline proteases, which alone account for about 40% of the total worldwide enzyme sales.

Two types of microbial enzymes (extracellular and intracellular) are industrially important. Screening of both types of enzymes from different environments (sewage, marine waste, sea sediments and garbage waste and contaminated food stuffs) will provide enzyme characteristic and its activity on different environmental conditions. This workshop will deal with the isolation and characterization of microbial enzymes.

Objectives

- Screening of Microbial Enzymes
- Enzyme activity - Protease, Invertase
- Enzyme Extraction- Intraacellular and Extracellular
- Enzyme Purification Techniques (Column chromatography)
- Molecular weight determination for enzymes
- Enzyme kinetics (Michaelis-Menten Equation)
- Immobilization of enzymes for packed bed reactor analysis
- Theoretical aspects of MALDI TOF MS (Protein sequence)

The laboratory sessions will follow a lecture on a recent topic in enzyme technology

Who can participate?

The intention of this workshop is to propel the Students, Research Scholars, Faculty members from College/University, Young Scientist from Research Institutions and Companies to acquire knowledge in Enzymology. All the participants can have **hands on** training in these techniques.

Registration Fee

Academic/Industry Staff - Rs. 800/-

Research Scholars/ Students - Rs 400/-

The registration fees include workshop materials, working lunch and refreshments.

For further clarification contact the email or mobile number given below

Address for correspondence

Dr. Busi Siddhardha, Assistant Professor

Dr. K. Jeevaratnam, Professor and Coordinator in Microbiology

Organizing Secretaries (Workshop on Microbial Enzyme Technology)

Microbiology Programme,

Dept. of Biochemistry and Molecular Biology

School of Life Sciences

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Organizing Committee

Programme Coordinator : Prof. K. JEEVARATNAM

Organizing Coordinators : Dr. BUSI SIDDHARDHA
Dr. K.M. ALAGAPPAN

Organizing members : Dr. REGINA SHARMILA DASS
Dr. SHARMILI JAGTAP
Dr. V. VENKATKRISHNAN
Dr. J. LALITHA