

**WORKSHOP
ON INTERNATIONAL RESEARCH
OPPORTUNITIES AND
BIOMANUFACTURING
TECHNOLOGY, ROBT**

21-23 August, 2013

*“An Innovative Approach to Research in
Science and Technology”*

Organized by

*DEPARTMENT of
BIOTECHNOLOGY*



KARPAGAM UNIVERSITY
Under Section 3 of UGC Act 1956
Pollachi Main Road, Eachanari Post,
Coimbatore – 641 021, Tamilnadu,
India

Phone : 6453777, 647113-5.

Fax: 0422-2611043 / 2611646

E-mail: info@karpagamuniversity.ac.in

Web: www.karpagamuniversity.ac.in

Karpagam Charity Trust was founded in the year 1989 with the aim of providing excellent educational facilities by imparting practical training knowledge and skills to the youth of the area and also catering to the needs of the society in general through charitable deeds. The Karpagam Arts and Science College (Autonomous) was evolved into Karpagam Academy of Higher Education in the year 2008 for the purpose of conferment of the Deemed to be University status by **Ministry of Human Resource Development vide its order No. F.9.24/2004.U.3 (A) dated 25.08.08.**

The University Education, in today's scenario, is witnessing a huge paradigm shift and at Karpagam, we are geared to be a part of that transformation. Our evolution into a University of world standards has been possible only by a consistent endeavor to achieve excellence in education. We work towards ensuring that our students too strive relentlessly to excel in their efforts. Be it Arts or Science, Commerce or Management, Humanities or Engineering, Pharmacy or Medicines, we ensure that our education epitomizes excellence in every sphere..

THE WORKSHOP

The workshop aims to reflect on international R&D co-operation, focusing in particular on the feasibility of establishing research priority setting processes and mechanisms for such activities. The program's objectives are to: Be a catalyst for international research collaborations in areas of biological excellence; Lead to the development of joint research with research institutions outside India; and Strengthen or develop long-term collaboration and advance career developments. ROBT focuses on current challenges in research and development of biotech industries.

TECHNICAL DETAILS

Day 1 (for faculty): International Research Proposal writing workshop

Chairman: Dr Pattanathu Rahman, Teesside University, United Kingdom and Dr. Rajeshwari Sivaraj, Karpagam University

This will explain the processes by which international research grant applications are handled, evaluated and assessed. The main part of the session will be "mock

panels" in which you will be asked to undertake the role of members of the reviewing panel to assess applications.

Day 2 (for students): International Career Opportunity workshop

Chairman: Dr. R. Seenivasan, VIT University, Vellore and Dr Joshy V. Cherian, Managing Director, Omega Ecotech Products Ltd., Coimbatore and Dr Pattanathu Rahman, Teesside University, United Kingdom.

A good post-graduate degree will improve the job prospects further. It will help the students to gain in-depth knowledge of the subject and provide the confidence required to face the job market. This workshop covers a wide range of options that are available for graduates and an overview of the global perspective for the opportunities with various case studies and some guidance for success. Geographical location of the Indian subcontinent on earth is critical for the ample sources of energy from nature such as solar and biomass. They are the key industrial sectors for the 21st century to meet our growing energy demands in terms of meeting our renewable energy targets and capturing carbon to purify the environment. Significant technological development is needed to explore the nature's potential and human resources needed to handle these projects. After IT Industry, Bioscience and technology is ranked second as the growing sector with a prospective employment potential. There is significant number of multinational food, biopharmaceutical and bioenergy companies emerging globally and specifically in the Indian subcontinent for economic reasons. Biotechnology graduates can apply for jobs in a range of industries dealing with pharmaceutical, food and agriculture products.

Day 3 (students): International Bioprocessing and Biomanufacturing workshop

Chairman: Dr C. Sivapathasekaran, General Manager, Senthil Papain and Food Products Ltd., Coimbatore and Dr Pattanathu Rahman, Teesside University, United Kingdom.

This workshop will cover the biological and engineering principles applied to processes involving cells and biological agents and provide a qualitative and quantitative background to microbial and enzymatic reaction systems as encountered in industrial processing and waste water treatment. The advancement in microbiology, cell physiology and bioprocess will be discussed. Many aspects bioprocessing, types of bioreactor systems are described and analysed in terms of their operation. Downstream processing for product recovery and purification is considered in some detail. Case studies on bioprocessing of different materials, such as antibiotics, biofuels and biosurfactants are also included. A key aspect of this workshop will be for students to develop an understanding of the different strategies used in specific biotechnological processes for the manufacture of microbial products on a commercial scale. Ultimately, learners should then be able to discuss/ predict possible future developments in specific biotechnology industries in the context of developing technologies. A visit to local biomanufacturing plant will be included in this workshop (subject to the approval by industry)

THE VENUE

The workshop will be held at the campus, Karpagam University, Eachanari Post, Coimbatore which is located on Coimbatore - Pollachi Main Road about 10 km from Coimbatore Junction.

REGISTRATION

The interested participants may send the registration form and registration fee by DD drawn in favour of "Karpagam University" payable at Coimbatore to the program co-ordinator on or before 14th August, 2013. Spot registration may also be permitted on prior request. Working lunch will be provided.

REGISTRATION FEES

Faculty : Rs.1000/- (for 1 day)
Students and Research Scholars: Rs.1000/- (for 2 days)
Registration limited to 30 members

ORGANIZING COMMITTEE

Chief Patron

Dr. R. Vasanthakumar
Chancellor, Karpagam University

Patron

Shri. K. Murugaiah
CEO,
Karpagam Educational Institutions

Dr. S. Balasubramaniam
Vice-Chancellor, Karpagam University

Dr. P. Lakshmanaperumalsamy
Registrar, Karpagam University

Chief Organizers

Dr. Rajeshwari Sivaram
Department of Biotechnology
Karpagam University, India

Dr. Pattanathu K.S.M. Rahman
Chemical and Bioprocess Engineering Group
School of Science and Engineering
Teesside University, United Kingdom

Organising Secretaries

Dr. S. Sudha
Dr. B. Chitra Devi
Department of Biotechnology
Karpagam University, India

Program Coordinators

Dr. D. Teepica Priyadarshini
Dr. M. Nalini
Dr. G.R. Prabu
Dr. A. Sangilimuthu

Technical Coordinators

Mr. P. Rajiv
Ms. R.S. Saranya

Address for Communication

Dr. S. Sudha, Program Coordinator
International Workshop ROBT
Department of Biotechnology
Karpagam University,
Pollachi Main Road, Eachanari Post, Coimbatore – 641 021
E-mail: karpagambiotchnology@gmail.com
Mobile: +919486616191

REGISTRATION FORM

WORKSHOP ON INTERNATIONAL RESEARCH OPPORTUNITIES AND BIOMANUFACTURING TECHNOLOGY, ROBT

21-23 August, 2013

Name :
Class of study :
Subject :
Institutional Address :
Residential Address :
(Telephone, E-mail)
Registration fee enclosed : Yes / No
DD No. :
Amount : Rs.
Name of the Bank:
Date :
Accommodation Req. : Yes /No

Date:
Place:
Signature

(Xerox copies of the Registration Form are also accepted)

