

Who Shall Attend

Faculty of universities and institutes, researchers and post graduate students, scientists of R&D laboratories and hospitals, interested in long term preservation of cells and tissues.

Registration Fee:

- a. Delegates from academic institutions: : Rs.2000/-
b. Delegates from Research organization/institutions and Medical colleges and hospitals : Rs.3000/-
c. Delegates from industries : Rs.5000/-
d. Students/ Research scholar : Rs.1000/-

The registration fee for the workshop includes the following :

- Accommodation
- Certificate of attendance
- Lunch and Dinner

Payment:

Registration fee has to be paid through Demand Draft in favor of "CBM2010" payable at Rourkela. Demand draft along with completely filled in application should reach Dr. S. Murugan, Department of Mechanical Engineering, National Institute of Technology Rourkela Orissa, Pincode-769 008, on or before 5th June 2010. You can also visit www.nitrkl.ac.in for downloading the registration form and other information.

TA and Accommodation:

Limited number of travel grant will be paid to the young researchers depending on the availability of funds. Accommodation will be provided for delegates in the institute's guest houses on prior request on standard tariff.

Important Dates

- Last date for receipt of application : 5th June 2010
Notification about selection : 2nd June 2010
Confirmation from participants : 10th June 2010

Selected candidates will be informed by email.
Complete information for communication must be necessarily provided in the registration form.

CAFET-INNOVA Technical Society (Orissa Section)

- Chairman** : Prof. Sunil Kumar Sarangi
Director, NIT, Rourkela
- Vice-chairperson** : Prof. K. Pamanik
Professor &
Dean (Student Welfare)
NIT, Rourkela
- Secretary:** : Prof. S. Murugan
Associate Professor
NIT, Rourkela
- Joint Secretary** : Mr. Prabhash Dadheech
M. Tech. Student

Faculty of the Workshop

- 1. Prof. S.K. Sarangi**
Director, NIT Rourkela
(Applications of Cryogenics to industry,
space propulsion, medicine & biology)
- 2. Prof. S.P.Mohapatra**
Surgeon, VSS Medical College
Burla
(Cryosurgery, clinical application of
cryopreserved stem cells)
- 3. Prof. K. Pramanik**
Professor, Biomedical Engg.,
NIT Rourkela
(Cryo-tissue engineering)
- 4. Dr. S. Murugan**
Associate Professor
NIT Rourkela
(Cryo-engineering)
- 5. Mr. Amitesh Kumar**
Assistant Professor, Biomedical Engg.,
NIT Rourkela
(Cryosurgery, thermal modeling)

For enquiries contact :

Dr. S. Murugan (09437140949/06623262525)
Email id : s.murugan@nitrkl.ac.in

A

Two Day Workshop

on

Cryogenics in Biology & Medicine (CBM-2010)



**National Institute of Technology Rourkela,
Orissa**

&

**CAFET-INNOVA Technical Society
(Orissa Section)**

About NIT Rourkela

The National Institute of Technology Rourkela was founded as the Regional Engineering College, on 15th August 1961. The institute was declared as the National Institute of Technology with Deemed to be University status on 26th June 2002 and subsequently the institute has become the National Institute of importance under the Act of Parliament on 15th August 2007. NIT Rourkela is a prestigious institute which provides quality education in a diverse and multi-cultural environment. The mission of the institute is to meet the needs of the industry and commerce by providing human resource with the required knowledge and skill and also by promoting, dissemination, developing and transferring technology. The institute strives hard to become an internationally acclaimed institution of higher learning that will serve as a source of knowledge and expertise for the society and be a preferred destination for undergraduate and graduate students.

It is a residential campus offering accommodation to the faculty, staff and students. The campus has all the amenities for developing personal, social and academic skills of the student community. The location of the institute is about 8 kms from Rourkela Railway station and 2 kms from Central Bus-stand. It is well connected to the city of Bhubaneswar, Ranchi, Raipur and metropolitan city Kolkata by road and rail.

About CAFET-INNOVA Technical Society (Orissa Section):

CAFET-INNOVA Technical Society (CITS) is a non-profit organization helping the scientific community established in 2007. The headquarter of the society is situated in Hyderabad and is registered by the Government of Andhra Pradesh under the AP Societies Registration Act, 2001. CITS has been formed with a motive of encouraging young talents towards the field of Research and Development (R&D). Activities like symposia, conferences, workshops, guest lectures by eminent scientists and academicians are organized by the society. It has also a publication unit having 5 international journals. It also provides an opportunity for enthusiastic students in publishing their books. CITS Orissa Section has been formed under the chairmanship of Prof. Sunil Kumar Sarangi, Director of NIT Rourkela.

Introduction of the Workshop

In the last decade cryopreservation technologies have been evolving rapidly, opening the door to the possibility of long-term storage of various biological materials including valuable genetic resources of many crops, forest species etc. In recent years cryopreservation has been considered as promising preservation technique in medical field including the cryopreservation of a wide range of Stem cells, Reproductive Cells, Tissues and Organs. The short self-life of these products has led the researchers worldwide to concentrate on the methods or techniques that can increase their viability during storage.

Though cryopreservation has been recognized as a promising technique for achieving long-term storage and have been applied to an increasingly diverse range of biological materials there is lack of awareness and many laboratories lack expertise in applying correct preservation and storage procedures and many apply outdated or inappropriate protocols for storing samples or cultures. The objective of this workshop is to provide the participants the basic principle of cryobiology, its state of art in medical and biological applications, methods, optimization protocol and possible research projects in this area.

Theme of the Workshop

Introduction to cryogenics

Fundamentals of cryobiology

Cryopreservation methods & optimization protocols

Cryopreservation and storage equipments

Cryopreservation in medicine

Cryopreservation of biological material

Cryosurgery

Cryobiology research in India

Registration Form

A

Two Day

Workshop

on

**CRYOGENICS IN
BIOLOGY & MEDICINE**

18-19, June 2010, NIT Rourkela

Name:.....

Designation:.....

Institute/Organization:.....
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Mailing Address:.....
.....
.....

Phone No(R).....(O).....

Mobile:.....Fax:.....

Email:.....

Date:..... Signature:.....