ABOUT THE INSTITUTE
The National Institute of Technology, Rourkela is one of the premier national level institutions for technical education in the country and is funded by Government of India. NIT Rourkela is a prestigious institute which provides quality education in a diverse and multi-cultural environment. The main objective of the institute is to produce quality Engineers & Scientists in Graduate and Post Graduate level in various branches of Engineering and Science.

ABOUT THE DEPARTMENT
The Department of Biotechnology and Medical Engineering is a new venture which has been introduced from the academic year (2007-2008) under the support of Ministry of Human Resource Development with its main aim of producing qualified and dynamic engineers in the fast growing field of Biotechnology and Medical Engineering. The department has started with a full capacity with B. Tech, M. Tech and PhD students.

ABOUT THE WORKSHOP
To educate and provide hands on training experience to the participants on the immunocharacterization and flow cytometry based sorting of stem cells with expert guidance from faculties of our department and from Becton Dickinson, Biosciences, USA

GOALS OF THE WORKSHOP
In recent years potential application of stem cell in regenerative medicine and tissue engineering has been realised. Therefore characterization of stem cell is an important parameter in selection and isolation of colonies of stem cells. Thus this workshop will make participant to learn the techniques of Immunocharacterization and sorting of stem cell for its potential application in advance research.

CONTENTS OF THE WORKSHOP
1. Immunocharacteristics of stem cells - Lecture
2. Fundamentals of Flow cytometry and cell sorting (FACS) - Lecture
3. Immunocharacterization of cells by Fluorescence microscopy (Laboratory)
   a. Fluorescence staining for nucleus, cell organelles, live and dead
   b. Cell processing, Characterisation, image analysis and data interpretation
4. Flow cytometry & Stem Cell Sorting (Laboratory)
   a. Sample preparation and data acquisition/analysis for stem cell characterization
   b. Stem cell sorting and purity check by FACS

WORKSHOP on Immunocharacterization and Flow cytometry based cell sorting (IFCS-2013)
22nd – 23rd March 2013
Prof. Krishna Pramanik
Convener
Prof. Mukesh K. Gupta
Co-Convener

Sponsored by
Department of Biotechnology, Ministry of Science and Technology, Government of India

Department of Biotechnology & Medical Engg.
National Institute of Technology
Rourkela-769 008, Odisha
http://www.nitrkl.ac.in
PATRONS
Prof. Sunil Kumar Sarangi (Director, NIT Rourkela)

ORGANIZING COMMITTEE
Prof. Krishna Pramanik, Convener (NIT Rourkela)
Prof. Mukesh K. Gupta, Co-Convener (NIT Rourkela)
Prof. Amit Biswas (NIT Rourkela)
Prof. Bismita Nayak (NIT Rourkela)
Prof. Subhankar Paul (NIT Rourkela)
Prof. Kunal Pal (NIT Rourkela)
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Dr. R.K Patra (IGH, Rourkela)
Prof. Sirsendu Sekhar Ray (NIT Rourkela)
Mr. Akalabya Bissoyi (Research Scholar)

CORRESPONDING ADDRESS
Prof. (Mrs.) Krishna Pramanik
Department of Biotechnology & Medical Engineering
National Institute of Technology, Rourkela
Odisha 769008, India
Tel.: +91-0661-2462283(0) / +919437191611(M)
Fax: 0661-2472926; E-mail: kpr@nitrkl.ac.in

REGISTRATION & FEE PARTICULARS
Applications in the prescribed format and the registration fee as per given below in the form of a DD, drawn in favour of “IFCS-2013, NIT, Rourkela” payable at SBI, NIT Branch, Rourkela 8 (Code 2109) must reach the Convener on or before 18th March 2013.

Personnel from Industry & R&D Organizations Rs.5,000/-
Faculties from Educational Institutions Rs.4,000/-
Research Scholars and Students Rs.3000/-

*Registration fee includes food (Breakfast, lunch & dinner) during the workshop days and accommodation on sharing basis in the institute guest house will be provided to the participants

PARTICIPANTS
P.G & PhD students, Research Scholars, Faculty, Scientists from research organization and Industry.

WORKSHOP
on
Immunocharacterization and
Flow cytometry based cell sorting
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REGISTRATION FORM
Name of the participant:
Designation:
(Student/Research Scholar/Faculty/Industry)
Institute:
Address for correspondence:

*DD No.: ----------------------------------
Bank---------------------Date------------------
Email:
Mobile:
Signature of Sponsoring Authority (With Seal)

Copies of this form can be made, if necessary. Please send the filled in form to the Convener on or before -18 March 2013--------. The details of the workshop & the form can also be downloaded from our website http://www.nitrkl.ac.in.