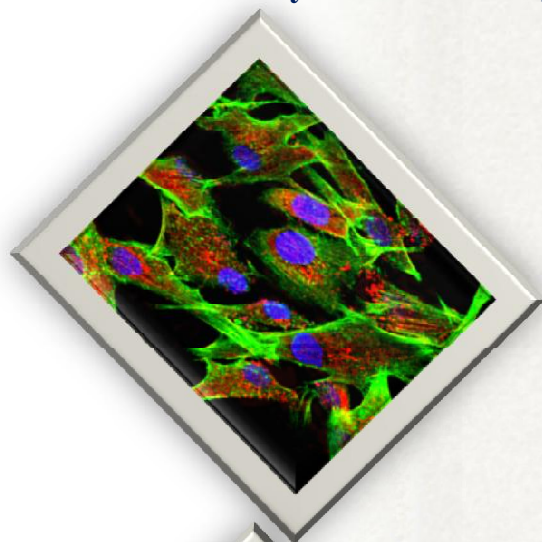




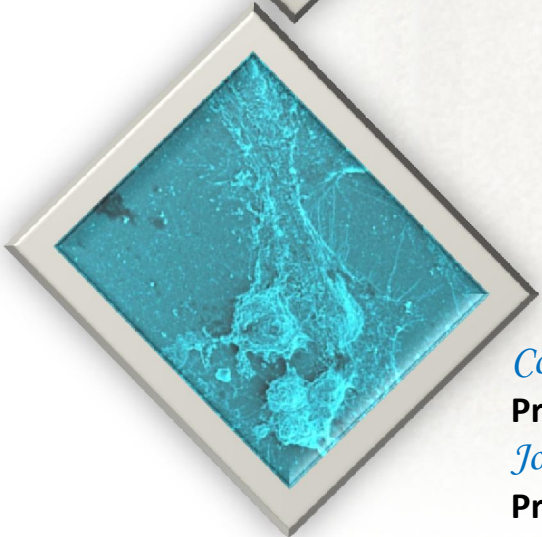
7-Days Workshop  
on

## ANIMAL CELL CULTURE AND BIOMATERIAL CHARACTERIZATION (ACCBC-2016)

February 28 - March 05, 2016



Department of  
Biotechnology and Medical Engineering  
National Institute of Technology, Rourkela



*Convenor*

**Prof. I. Banerjee**

*Joint Convenor*

**Prof. K. Pal**

### About the workshop

Biomaterials, Tissue Engineering and Regenerative Medicine are rapidly advancing subfields of biomedical research that require expertise of animal cell culture and biomaterial characterization. Moreover, animal cell culture is one of the essential expertises for researchers associated with environmental and toxicological research. This workshop aims to provide hands-on training on several basic techniques followed in animal cell culture and biomaterial characterization that young researchers will find useful in their future venture.

### Key learning objectives

#### Fundamentals of animal cell culture

- Basics of sub-culture
- Cryopreservation of cells
- Revival of cells

#### Characterization of cells

- Microscopy
- Flow Cytometry
- Biochemical

#### Characterization of biomaterial

- Mechanical analysis
- Thermal analysis
  - Differential Scanning Calorimetry
- Molecular analysis
  - Fourier Transform Infrared Spectroscopy

#### Cell –biomaterial interaction

- Cell adhesion, viability and proliferation
- Cell migration
- Cell death (apoptosis and necrosis)

#### Special training module for in-depth data analysis and data representation

### Potential attendees

- Students
- Research scholars
- Young faculty and scientists
- Industry personnel
- Laboratory professionals

### Resource Persons

Prof. I. Banerjee (M. Tech., Ph. D.)  
Assistant professor, NIT Rourkela  
Guest Scientist, Max Planck Institute  
of Intelligent system, Stuttgart, Germany

Prof. K. Pal (M. E., Ph. D.)  
Assistant professor, NIT Rourkela  
Ex -Research Scientist  
Ryerson University, Toronto, Canada

Dr. S. K. Mallick (M.Sc. , Ph. D.)  
Chief Scientist  
Cytometry Solution Pvt. Ltd. ,Kolkata

Dr. A. Pandeya (M. Tech., Ph. D.)  
Scientist  
Scientific and Digital Systems, New Delhi

### Address for Correspondence

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Prof. K. Pal

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Department of  
Biotechnology & Medical Engineering,  
National Institute of Technology, Rourkela,  
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## The Institute

National Institute of Technology, Rourkela is an **Institute of National Importance** for technical education established by the Government of India. NIT Rourkela is a prestigious institute with a reputation for excellence in research and education at undergraduate, postgraduate and doctoral levels.

## The Department

The Department of Biotechnology and Medical Engineering was established in 2007. The department is presently offering B. Tech., M. Tech. and Ph. D. degree in Biotechnology and Medical Engineering. The faculty members have diverse research interests and they conduct both basic and applied research in diverse areas like Cell & Molecular Engineering, Tissue Engineering & Biomaterials, Bioprocess Engineering, Environmental & Plant Biotechnology, Biomechanics & Biotransport Engineering, Medical Electronics & Instrumentation etc. The department is having a number of state of art laboratory well equipped for basic and applied research.



## Registration fees

- Personnel from Industry & R&D Organizations: Rs. 10,000/-
- Faculties from Educational Institutions: Rs. 7,000/-
- Research Scholars and Students: Rs. 5,000/-

\*Registration fee includes Conference Kit, Food (Breakfast, Lunch, Dinner ) during the workshop days and accommodation on sharing basis in the institute guest house (subjected to availability).

The registration fees can be paid by account transfer to the SBI savings account (Ac name: ACCBC 2016; Ac No.: 35427344982 Branch name: REC campus, IFSC code: SBIN0002109).

## Registration Particulars

The application form should be filled online using the link given below on or before February 16, 2016. The selection of the candidature will be done by the organizing committee. The registration fee of the non-selected candidates will be refunded (after deducting the bank transaction fee) without any interest by March 31, 2016.

**For registration:**

<http://goo.gl/forms/2sJDWfTYzc>

## Organizing Committee

### Patron:

Prof. S. K. Sarangi, Director, NIT Rourkela

### Organizing Committee:

Prof. M. K. Gupta , Head of the Department, (Chairman)  
Prof. I. Banerjee, Convenor  
Prof. K. Pal, Joint-Convenor cum treasurer  
Prof. K. Pramanik  
Prof. S. Paul  
Prof. A. Biswas  
Prof. A. Thirugnanam  
Prof. B. P. Nayak  
Prof. N. Sarkar  
Prof. S. S. Ray  
Prof. D. Verma  
Prof. A. Sarkar  
Prof. N. Patra  
Prof. P. Balasubramanian  
Prof. K. Dutta

## Sponsorship

Silver:	Rs. 10000.00
Gold:	Rs. 20000.00
Platinum:	Rs. 30000.00
Platinum Plus:	Rs. 50000.00