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Vice Chancellor

**Organising Chairman**

Prof. P. K. Goyal  
Head of the Deptt.

**Organising Secretary**

Dr. Pratap Chand Mali  
Associate Professor

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- Dr. R.S. Sharma, Dy. Director General, ICMR, New Delhi
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- Dr. L. S. Meena, IGIB, New Delhi
- Dr. Deepa Bhartiya, NIIRH, Mumbai
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**Local Organizing Committees**

Scientific Programme	Registration	Travel & Transportation	Accommodation & Hospitality	Hall Arrangement	Publicity
Prof. P.K. Goyal Dr. R.S. Gupta Dr. P.J. John Dr. I.P. Soni Dr. M.L. Lowry Dr. A.S. Ansari	Prof. J.D. Sharma Dr. N. Nair Dr. S.K. Charan Ms. P. Meena Dr. N. Kachhawa Dr. A. Awasthi Mr. D. K. Sharma	Prof. S. C. Joshi Dr. S. Srivastava Mr. R.D. Choudhary Mr. M.K. Meena Dr. D.D. Patel Mr. Guman Singh	Prof. R. Sisodia Dr. N. Mathur Mr. G. Kachhawa Dr. P.D. Meena Dr. G.D. Meena Ms. J. Jatav Mr. P. K. Soni	Prof. J. Sharma Dr. A. Singh Dr. S. Meena Mr. N.K. Nirmal Dr. V. Nunia Dr. H. Bano Mr. D. Chhipa	Prof. S. Sharma Ms. M. Rajwanshi Mr. G. S. Verma Dr. R. Verma Dr. R. K. Yadav Dr. P. Kaushik Dr. B. Chouhan

**Date & Venue**

Date: 13<sup>th</sup>-14<sup>th</sup> March, 2015

Venue: L.S. Ramaswami Hall

**Registration Fee**

PG students:

Research Scholars:

Faculty Members :

**Till 28<sup>th</sup> February**

Rs 400/-

Rs 600/-

Rs 800/-

**After 28<sup>th</sup> February**

Rs 500/-

Rs 800/-

Rs 1000/-

**Important Dates**

1. Receiving registration forms: 1<sup>st</sup> February 2015 onwards

2. Registration closes: 28<sup>th</sup> February 2015

3. Last dates to receive demand draft/ multicurrency cheque/cash : 28<sup>th</sup> February 2015

**Conference Secretariat**

Dr. P.C. Mali

Department of Zoology,

University of Rajasthan, Jaipur

E-mail: nwbit2015@gmail.com, M. : 09413206129



**NATIONAL WORKSHOP ON  
BIOMEDICAL INSTRUMENTS & TECHNOLOGIES  
(NWBIT-2015)  
13<sup>th</sup>-14<sup>th</sup> March, 2015**



**Organised by**  
**Department of Zoology**  
**Center for Advanced Studies**  
**University of Rajasthan, Jaipur**



## About the Workshop

During the recent past, biomedical sciences have changed the quality of life dramatically. The explosive growth in medical sciences and biotechnology and their myriad applications in diverse fields have propelled biology to the fore front of science. All these are the results of sophistication in biological methods and technologies that make biological studies. Biomedical instruments refer to a very broad class of devices and systems, which are used for the analysis or measure a specific marker of physiological or biochemical activities. Biomedical instruments are ubiquitous; they are significant to the broader technology and biotechnology sectors as well as vital to many medical and scientific fields.

A biomedical instrument is very sensitive device and it is maintained under specific conditions to perform the specific scientific work for a long time. If a person is not trained for the working mechanisms of a particular biomedical device then it is very difficult to maintain that instrument as it requires a lot of money to make it operative which can delay the results and report of that scientific investigation. Therefore, a specific training is needed for the investigators and the technical personnel working with the biomedical instruments.

The proposed workshop will cover the theoretical, practical and the applied aspects of various biomedical instruments and technologies. It will create an awareness as well as the practical utility to appraise the prospective users about the principles and working mechanisms and the possible applications of the various equipments. It will have lectures/presentations by the company engineers and application specialists followed by the display of the products and the demonstration sessions on site for the interested groups of the users. Further, the workshop would be certainly beneficial for research scholars, teachers and researchers from science and engineering, R & D sectors and industrialists in India. It would provide a platform to exchange the information on recent developments and future trends in Biomedical Sciences and Technology.

## About the University

The University of Rajasthan was established in 1947 initially named as “Rajputana University” and is located in capital of Rajasthan “Jaipur”. It is a hub for higher education, and has earned several laurels including University of Potential Excellence and credited with A+ (NAAC Accreditation). It has well developed infrastructure –a feature required to impart excellent quality education and research which brightens the future of the students. Self financing course as well as vocational skill development courses are also carried out in the University.

## About the Department

Department of Zoology was established in 1960 by Late Professor L.S. Ramaswami. Although the University has numerous departments but this department under the able guidance of stalwarts is still vibrant with the distinguished teachers and notable research scholars having manifold research achievements in several major disciplines. The department has been presently recognized by the University Grants Commission as Center for Advanced Studies (Phase II) and for DST FIST (Phase II) programme by the Department of Science & Technology, New Delhi.

## Topics to be addressed during workshop

Techniques of testicular cells isolations

**Speaker : Dr. R. S. Sharma, Dy Director Genral ,ICMR,Delhi**

Electron Microscopy: applications of TEM and SEM Techniques

**Speaker : Prof. Tapas C Nag, Dept of Anatomy, AIIMS, New Delhi**

Principle and applications of real-time reverse transcription PCR (RT-PCR)

**Speaker : Mr. Sandeep Rastogi, New Delhi**

Microwave oven for synthesis of nanoparticles

**Speaker : Mr. Amrish Mr.Rahul Sharma,Anton Paar, New Delhi**

Applications of immunohistochemistry and ELISA techniques

**Speaker : Dr. Om Prakash, SVC, Delhi**

Techniques of Isolation, identifications and quantification for bioactive from medicinal plants

**Speaker : Dr. Rakesh Maurya, Chief Scientist,CDRI,Lucknow**

Applications of biochemical and blood analyzer in biomedical investigations

Applications flow cytometer in biomedical research

**Speaker : Dr. Raj Kumar, Scientist D, INMAS, New Delhi**

Principles and application of high-performance liquid chromatography

**Speaker : Mr. Ishwar Lal, Waters, Delhi**

Applications computerized assisted semen analyzer in IVF and infertility

**Speaker : Dr. Kiran Rangari, RO, NIHF, Delhi**

Animal cell culture techniques

**Speaker : Dr. K. P. Mishra, DIPAS,Delhi**

Applications of comet assay to analyze DNA damage

**Speaker : Dr. Paban Kumar Agarwal, Sceintist E,INMAS, Delhi**

Bioinformatics : A tool for modern research

**Speaker : Dr. Naveen Sharma, MOHFW, Delhi**

Microphotography technique for histopathology

**Speaker : Dr. D.D. Patel, UOR, Jaipur**

Applications of radioisotopes in biomedical research: an introduction and radioactivity detection instruments

**Speaker : Dr. A.K. Srivastav, CDRI, Lucknow**

Isolation and staining of stem cells

**Speaker : Dr. Deepa Bhartiya, NIRRH, Mumbai**

Histopathological techniques in biomedical research

**Speaker : DR. Y. Gupta, SMS Medical College, Jaipur**

Precautions and maintenance of biomedical instruments

**Speaker : Dr. R.Bagotia, RDPL, Jaipur**

Practical demonstration of CASA to sperm functions test

**Speaker : Mr. Sujit Biswas, & D K Giri, Gurgaon**

Maintenance of animal house and ethical of regulations of animals use in biomedical Research

**Speaker : Dr. R. Aladikati, IISC, Banglore**

Applications of in vitro technologies in biomedical sciences

**Speaker : Prof. K. K. Sharma, MDS University, Ajmer**

Bioinformatics an emerging field.

**Speaker : Dr. P. S. Solanki, BISR, Jaipur**

Tissue bioengineering techniques

**Speaker : Dr. P.K. Mishra, Central University, Sagar**

Techniques of infertility diagnosis and treatment

**Speaker : Dr. N. Gupta, SVFC, Jaipur**



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**13<sup>th</sup>-14<sup>th</sup> March, 2015**

**REGISTRATION FORM**

<b>Name</b>	
<b>Designation</b>	
<b>Category</b>	<b>Student/Research Scholar/Faculty</b>
<b>Organization</b>	
<b>Mailing Address</b>	
<b>E-mail ID</b>	
<b>Telephone &amp; Mobile</b>	
<b>Registration fee details</b>	
<b>DD/Multicity Cheque No. Bank / Cash/Amount ₹</b>	
<b>Signature</b>	

**The registration form may be photocopied and sent to the Organizing Secretary along with required fee on the following address :**

**Dr. P.C. Mali  
Organizing Secretary, NWBIT-2015,  
Department of Zoology, Centre for Advanced Studies  
University of Rajasthan, Jaipur - 302 004  
E-mail: [nwbit2015@gmail.com](mailto:nwbit2015@gmail.com), [www.uniraj.ac.in](http://www.uniraj.ac.in)  
Phone: +91-141-2711158, Mobile: +91 9413206129**