

**Application Form**  
**International Workshop**  
*on*  
**“Transcriptomics, Proteomics and Structural Biology”**  
(27<sup>th</sup> -29<sup>th</sup> February 2012)

1. Full Name (Block Letters)
2. Designation
3. Present employer and address
4. Address to which reply should be sent  
(Postal address, telephone, mobile, email, fax)
5. Permanent address
6. Date of Birth
7. Sex: Male/Female
8. Teaching/ research/ professional experience (mention post held during the last 5 years and number of publications)
9. Marital status: Married/ Unmarried
10. Mention if you have participated in any Workshop, Seminar, Summer School/Short Course etc. during the previous years under I.C.A.R / Other Organizations
11. Statement of purpose:
12. Academic record:

Exam	Major subject	Year	University
Bachelors			
Masters			
Ph.D.			
Others			

Signature of applicant      Date      Place

13. Recommendation of the forwarding Institute:

Signature  
Designation  
Address

**ABOUT NDRI**

National Dairy Research Institute is a premier research organization of Indian Council of Agricultural Research dedicated for providing Research & Development and Human Resource Development support towards the dairy development programs in the country. It has gained prominence as the front ranking research organization on global basis. It provides high quality education in dairying for meeting the demand for quality human resource in dairying. The institute is having state-of-the-art infrastructure for carrying out research in the field of Dairying, Animal Biotechnology and milk processing.

**LOCATION**

Karnal town, located 130 km. North of Delhi on National Highway No.1, is well connected to New Delhi by road and rail. The weather in Karnal during February is temperate, and the maximum temperature during this period ranges around twenty five degrees (25°C). The minimum temperature may fall to about fifteen degrees (15°C). Woollens/ winter clothing may be required.

**TIME SCHEDULE**

**Last Date for Receiving Applications**

**20<sup>th</sup> January, 2012**

Selected candidates will be informed within a week of the closing date of the receipt of applications.

**Chief Patron:**

Dr. A.K. Srivastava, Director, NDRI

**Organizing Secretary:**

Dr. A. K. Mohanty, Senior Scientist, ABTC

**Co-organizing secretaries:**

Dr. Manishi Mukesh, National Fellow, NBAGR

Dr. J. K. Kaushik, Senior Scientist, ABTC

Dr. A.K. Dang, Senior Scientist, DCP

**INTERNATIONAL WORKSHOP**  
*on*  
**“Transcriptomics, Proteomics and Structural Biology”**

(27<sup>th</sup> – 29<sup>th</sup> February 2012)

*Sponsored by*



National Agriculture Innovation Project,

ICAR, New Delhi



*Organized by*



Animal Biotechnology Centre  
National Dairy Research Institute  
(ICAR)

Karnal-132001, Haryana, India

## ABOUT THE WORKSHOP

Animal Biotechnology Centre is organizing an International Workshop on “Transcriptomics, Proteomics and Structural Biology” from 27<sup>th</sup> to 29<sup>th</sup> February 2012, which is being sponsored by National Agriculture Innovation Project (NAIP) under the NAIP sub-project “Analysis of Mammary Gland Transcriptome and Proteome during Lactation and Involution in Indigenous Cattle and Buffalo for Identification of Probable Mammary Biomarkers”. The aim of the workshop is to impart basic as well as advanced techniques in the areas of gene expression, proteomics and structural biology of proteins. International and National experts in areas of gene expression studies, proteomics and structural biology will share their expertise with participants during the workshop.

## OBJECTIVES

1. To acquaint the participants with the basic background and recent developments in transcriptomics, proteomics and structural biology.
2. To expose the participants with relevant demonstrations and hands-on\* experience.

\*Subject to availability of time

## COURSE CONTENTS

The workshop has been designed to expose the participants in transcriptome analysis (microarray data analysis), details of proteomics and basic

concepts of structural biology (crystallography). International and national experts will expose the participants in different aspects of the theme areas. Hand on practical training on 2D proteomics will be provided to the participants. The workshop will be covered by lectures and demonstrations on the following areas:

- Introduction to transcriptomics and gene expression analysis (microarray).
- Concept and scope of Proteomics
- High throughput proteomics and Mass Spectrometry
- Analysis of MS data using search engines: concepts
- 1-D and 2-D gel electrophoresis
- Image analysis of protein gels
- Differential-in-Gel analysis (DIGE)
- Analysis of proteome data
- Introduction to protein structure determination
- Basic concepts and recent developments on protein crystallography

## ELIGIBILITY

This Workshop is targeted at enhancing capabilities of Scientists / Faculties working in ICAR Institutes, CAUs, SAUs, and in various NAIP Sub-Projects, who are working and want to enhance their knowledge in the theme

area of the workshop. Candidates from Non-ICAR Institutes may also apply for the workshop. Research Associates / Post Doctoral Fellows / Ph. D scholars will be considered if sufficient number of candidates will not be available. Genuinely interested candidates may kindly register for the training programme by sending the filled in registration form forwarded through proper channel on or before 20<sup>th</sup> January 2011 positively. A brief bio-data may kindly be sent along with the registration form.

## TRAVEL AND ACCOMODATION

Selected participants will be paid for the journey by train to-and-fro (restricted to the maximum AC II tier fare) by the shortest route from source to destination station. Participants are required to produce original photocopies of the tickets in support of their claim. Expenses on lodging and boarding arrangements for the participants will be borne by the organizers.

### *Address for correspondence*

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Organizing Secretary

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National Dairy research Institute

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