

# ***Announcement***



## **DBT sponsored winter school**



Department of Biotechnology  
Ministry of Science & Technology,  
Government of India

**On**

## ***Molecular techniques in swine health and production***

*(From 30<sup>th</sup> October to 19<sup>th</sup> November 2012)*



**Patron**

**Dr. Anubrata Das, Director, NRCP**

**Course Director**

**Dr. S. Rajkhowa**

**Co-Course Director**

**Dr. N. R. Sahoo**

**Course Co-ordinators**

**Dr. M. K. Tamuli, Dr. Mohan N.H,  
Dr. K. Barman, Dr. S. Naskar  
& Dr. R.Thomas**



**Organized by**

**NATIONAL RESEARCH CENTRE ON PIG  
INDIAN COUNCIL OF AGRICULTURAL RESEARCH**

**RANI, GUWAHATI, ASSAM-781131**

**Tele/ Fax-0361-2847195, Website: [www.nrcp.in](http://www.nrcp.in)**

## **Introduction:**

The pig farming in India constitutes the livelihood of rural poor belonging to the lowest socio-economic strata. The preference goes to the pig farming due to highest feed conversion efficiency from wide variety of feed stuffs starting from grain to garbage among the meat producing animals and highest rate of multiplication due to short generation interval as well as prolificacy. Use of molecular techniques in the animal health and production in general and with respect to swine in particular is relatively new in our country. There is acute shortage of trained manpower in this area which affects the teaching as well as research activities. Hence a winter school on “*Molecular techniques in swine health and production*” is envisaged to update the practical knowledge on molecular techniques.

## **About the institute:**

National Research Centre on Pig, a constituent R &D institute under the auspices of Indian Council of Agricultural Research, is one of its kinds in India mainly committed to improvement of swine health and production in the country. It has a mandate to undertake basic, strategic and applied research in the areas of pig production and health and transfer of the evolved technologies to the client groups and to act as a repository of information on pig production and health for regional, national and global policy, planning and implementation. The institute is located at Rani, Guwahati which is about 10 km away from Guwahati International airport and 35 km from the Guwahati railway station. The climate of Guwahati is pleasant during October-November with an average temperature of 24-32°C.



## **Traveling, boarding and lodging:**

25% non-sponsored participants from public funded institutions will be paid for the to and fro travel from the place of duty to NRCP Rani and back by the shortest route restricted to AC-II-tier train fare or bus on production of tickets. Participants will be provided accommodation in the NRC on Pig. The candidates are requested not to bring any accompanying person due to shortage of guest rooms.

## About the training:

The current training course is designed specifically for the participants desirous of an exposure to the concepts and applications of molecular techniques in swine health and production along with the hands on training on some of such techniques. Special emphasis in the course would be paid towards direct use of molecular techniques relevant to disease diagnosis as well as genetic screening for improvement.

## Brief course content:

Basics of PCR and Hands on training on it, Primer designing and application of bioinformatic tools, Laboratory techniques viz. nucleic acid isolation, RT-PCR, PAGE, RFLP, RAPD, microsatellite (SSR), ELISA, Various methods of biological/sample collection, processing for PCR based screening, Boar semen evaluation techniques, PCR based techniques for detection and serotyping of *Pasteurella multocida* from pigs, Detection of Shigatoxin producing *E. coli* (STEC) in pigs, Enterotoxigenic *E. coli* (ETEC) in pigs, genetic predisposing of PSE pork, sex typing in domestic pig as well as porcine species detection, Screening of breeding pigs for detection of chromosomal abnormalities through karyotyping.

Though the winter school would be mostly lab technique based, some theory lectures would also be delivered on different topics of swine health and production.

## Eligibility:

This winter school is meant for college teachers/trainers/researchers having teaching/research/training experience in SAUs/ ICAR institutes/ Traditional Universities in the field of Veterinary Science/Animal Science/ Life Sciences/ in any related discipline. The total number of participants shall be limited to a maximum of 20 only.

## How to apply:

Application for participation in winter school may be made in prescribed format (attached) and forwarded by the competent authority. Applicant may send an advance copy if they anticipate any delay in forwarding through proper channel. Closing date for the receipt of the applications is **8<sup>th</sup> October, 2012**. Selected candidates will be intimated by **10<sup>th</sup> October, 2012**.

## Applications may be sent to:

*Dr Swaraj Rajkhowa, Course Director and Senior Scientist (Animal Health),  
National Research Centre on Pig (ICAR), Rani, Guwahati – 781 131, Assam, India,  
E Mail: swaraj.rajkhowa@gmail.com Tele/Fax: 0361-2847195, Mobile: 9435732488*

*Note:* The Brochure and format for application is also available on <http://www.nrcc.in>

## For further information contact:

*Director*

*National Research Centre on Pig (ICAR),*

*At/Po: Rani, Guwahati – 781 131, Assam, India*

*E Mail: nrconpig@rediffmail.com Tele/Fax: 0361-2847195*

# APPLICATION FORM

**FORMAT FOR APPLYING FOR PARTICIPATION IN WINTER SCHOOL ON  
“*Molecular techniques in swine health and production* ” to be organized  
from 30<sup>th</sup> October to 19<sup>th</sup> November 2012**

1. Full Name

**Affix self  
Attested  
passport  
Size**

2. Designation

3. Present employer and address

**photograph**

4. Full Address for Correspondence (In Block letter)

5. Telegraphic Address & E Mail

6. Date of Birth and age

7. Gender

8. Professional experience in years

9. Number of research publications

10. Discipline and area of Specialization

11 . Educational qualification starting from graduation onwards

Degree	Subjects	Year of passing	Division	University

12. Please mention, if you have participated in any Summer/Winter school/short course during last three years

Date:

(Signature of candidate)

Place:

13. Recommendation of the forwarding authority

Date:

(Signature of Head of the institute with Seal)