ICAR-NAE SHORT TRAINING
ON
MOLECULAR TECHNIQUES IN DIAGNOSIS AND
PROPHYLAXIS OF DISEASES OF FARM ANIMALS AND
POULTRY

(For Mid-Career Scientists / Veterinarians involved in Teaching, Research and Disease Diagnosis)

12-3-2012 to 17-03-2012

Training Coordinator: Dr. R. Somvanshi
Head,
Division of Pathology, IVRI, Izatnagar, UP

ICAR- NAE PROJECT
INDIAN VETERINARY RESEARCH INSTITUTE
IZATNAGAR – 243 122 (UP), INDIA

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Dear Colleagues,

We are happy to announce that a 6 days practical oriented ICAR-NAE Short Training on Molecular Techniques in Diagnosis and Prophylaxis of Diseases of Farm Animals and Poultry will be organized at Division of Pathology for 10-12 participants w.e.f. 12-3-2012 to 17-03-2012. Applications are invited from interested scientific, teaching and disease diagnosticians of Universities / Institutes / State Department of Animal Husbandry in the prescribed format.

Since its inception, Division of Pathology, Indian Veterinary Research Institute, Izatnagar, UP has been organizing Summer School/Winter School/Short Courses in different areas of Veterinary Pathology and animal and poultry diseases. The purpose of organizing training courses is to bring about qualitative improvement and to update the teachers, researchers, disease diagnosticians and extension specialists in the latest knowledge and techniques in the field of their specialization, to provide necessary orientation to contemporary problems, to provide a common forum for co-professionals to interact and exchange experiences and also to maintain a feedback to make research and education more relevant.

Aim

Aim of the present Short Training programme is to refresh participants in newer theoretical concepts in animal disease diagnosis as well as in molecular and conventional diagnostic techniques. Training course will also update and refresh the knowledge and skills of teachers, researchers, disease diagnosticians and extension specialists in the latest trends and techniques being employed for animal disease diagnosis, which would help their field of specialization.

Eligibility

Trainees should be young Assistant Professor/Scientist, Associate Professor (Senior Scientist)/ Disease Investigators or equivalent, of preferably below 45 years, in the National Agricultural Research System (NARS) including State Agricultural Universities, Deemed Universities, Central Agricultural Universities, Krishi Vigyan Kendras, Agricultural and Allied Science Faculties of other Universities, State Department of Animal Husbandry are eligible to apply for the Short Training. Essential qualification include M.V.Sc./Ph.D. degree in Veterinary Pathology and / or related veterinary health disciplines (Veterinary Microbiology, Immunology, Virology, Bacteriology, Biotechnology, Medicine, Public Health, Epidemiology and Avian Diseases) along with a minimum of 3 years experience in research/teaching/disease diagnosis. Approximately 10-12 trainees will be accepted for this programme. Successful candidates will be given certificates on completion of the Short Training programme.

Training Programme

The training programme will consist of a good blend of lectures, group discussions and laboratory demonstration sessions which would be conducted by highly qualified and experienced staff and guest faculty of national and international repute. Theme will cover the recent and conventional disease diagnosis of livestock and poultry diseases with emphasis on pathology, necropsy and histopathological interpretations. Briefly, training will be concentrated on advanced molecular biological techniques. The molecular techniques have broadened the scope of animal diagnostics and are now powerful tools that assist in a comprehensive elucidation of animal pathogens, their molecular epidemiology and are very helpful for the diagnosis. Conventional diagnostic techniques such as agar gel immunodiffusion, hemagglutination inhibition, enzyme-linked immunosorbent assay, fluorescent antibody test, neutralization test etc. along with
cell culture techniques will also be covered in syllabus. Participants will also be given exposure to the conventional and recent trends in vaccines including recombinant / DNA vaccines and reverse genetics based vaccines for safeguarding animal health, and novel therapeutics as well as the emerging field of stem cell therapy.

In this training programme, the practical sessions will provide excellent opportunities to the participants to gain first-hand working knowledge of various techniques as mentioned above and will broaden their research aptitude in the area of animal disease diagnosis with special reference to pathology and molecular tools. The Short Training would provide a common platform for all the participants to interact and exchange ideas among them, which will lay the foundation for inter-institutional cooperative research programmes.

Venue

The training will be organized in the Division of Pathology, Indian Veterinary Research Institute, Izatnagar, UP, a premier research institute devoted to research on all aspects of animal health and production. The Institute is situated at Izatnagar, Bareilly mid-way on Delhi-Lucknow highway and is well connected with railways. The institute which came into existence in 1889 is the oldest research institution of South-East Asia with the strength of approximately 350 highly qualified faculty members engaged in research, PG teaching, consultancy and technology transfer activities. The IVRI has made significant contributions in developing large number of diagnostics, vaccines, therapeutics and nutritional supplements besides research on various livestock and poultry diseases for better animal health care to ultimately increase the livestock production.

The institute has developed more than 50 life-saving vaccines and diagnostics that are in use today in veterinary practice. Recently, Institute has earned name in commercialization of various farmer friendly technologies and received Best ICAR Institute Award (2010). Other lifelines of the institute include the CADRAD, which acts as a National Referral Laboratory for disease diagnosis and a Referral Polyclinic with excellent diagnostic and treatment facilities. The Centre for Wildlife Conservation, Management and Disease Surveillance of the Institute has been reorganized as National Referral Centre by Central Zoo Authority, Ministry of Environment and Forest GOI for health consultancy and disease monitoring in both captive and free range wild life. All these facilities provide the students, trainees and scientists of the institute an opportunity to update their knowledge and sharpen their skills in this progressive world of science.

The Division of Pathology came into existence on 6th September 1963 at Izatnagar campus with the aims to discharge the most important responsibilities of: (i) conducting research on animal and avian diseases, (ii) providing in-campus investigational facilities and diagnostic services and (iii) imparting postgraduate teaching/training. Problem oriented research projects are undertaken on priority areas for studying pathogenesis and pathology of important diseases of livestock and poultry, development and standardization of diagnostic tests for their rapid and precise diagnosis and to provide health coverage. Several species-wise laboratories were established in the Division to facilitate systematic research and disease investigation works on the diseases of various species. In recent past, Division of Pathology has richly contributed in the advancement of knowledge in Paratuberculosis, Mycotoxicosis, Enzootic Bovine Haematuria/Fern toxicity, Classical Swine fever, Porcine Circo Viral infection, Calf viral enteritis, Marek’s disease, Infectious bronchitis, Chicken infectious anemia and Experimental oncology. Keeping in view the excellent research and teaching facilities and learned faculty, Division of Pathology has always attracted Post Graduate students from different parts of the country and abroad.
Boarding and lodging

The participants will be lodged in the International Guest House (IGH), IVRI Izatnagar, UP. A fully functional Mess within the Guest House would be providing wholesome meals and refreshments to all the participants as per ICAR approved norms. All expenditure will be borne by organizers. The weather in Bareilly in the month of March is expected to be pleasant and all the participants can expect a cozy stay in the campus during the period of this training programme.

Travel

Participants will be paid travel fare to and fro for journey by rail restricted to the maximum of AC II Tier train fare only or bus or any other means of transport in vogue as the case may be. Actual TA will be paid normally on production of a rail/bus tickets/certificate by participants. No Taxi/AC-I train / Air fair will be admissible to the trainees. The institute is approachable from Bareilly and Izatnagar railway stations by taxi, auto-rickshaw or cycle-rickshaw. The TA will be paid from the place of duty to the location of Short Training and back by the shortest possible route. The selected participants are advised to make their return journey reservation well in advance to avoid any inconvenience.

Assessment and Certificates

After completion of the course, the participants will be evaluated with the objective to assess how far the training programme succeeded in reaching up to expectation of the participants in order to enhance their competence on various techniques covered. Selected participants are specifically advised to come prepared for appearing in Training Evaluation Tests with the main idea of the Short Training is to train the participants for improving their research and teaching competence, and ensure active participation. The participants will be presented with a certificate on completion of the Short Training.

Chief Patron

Prof. M.C. Sharma, Director and Vice-Chancellor, Deemed University, IVRI, Izatnagar, UP.

Co-Patron

Dr. Bhasker Sharma, National Professor (ICAR)
Dr. J.M. Kataria, Joint Director (Research)

Patron

Dr. Triveni Dutt, Joint Director (Extension Education)
Dr. Rishendra Verma, Joint Director (CADRAD)
Dr. V.P. Singh, Joint Director (Academic) cum Dean, Deemed University

Training Coordinator

Dr. R. Somvanshi, Head, Division of Pathology, IVRI, Izatnagar, UP

Core Academic Staff

Dr. A.B. Pandey, Head, Division of Virology, IVRI, Mukteswar, Uttarakhand
Dr. V.K. Chaturvedi, Head, Division of Biological Products
Dr. R.B. Rai, Principal Scientist, Division of Pathology
Dr. S.D. Singh, Principal Scientist & I/C Avian Diseases Section, Division of Pathology
Dr. A.K. Sharma, Principal Scientist, Division of Pathology & I/C Wildlife Section
Dr. Satish Kumar, Principal Scientist, I/C CIF, Division of Veterinary Biotechnology
Dr. Rajendra Singh, Principal Scientist, CADRAD
Dr. K.P. Singh, Principal Scientist, CADRAD
Dr. G. Saikumar, Senior Scientist, Division of Pathology
Dr. K. Dhama, Senior Scientist, Avian Diseases Section, Division of Pathology
Dr. Sohini Dey, Sr. Scientist, CIF, Division of Veterinary Biotechnology
Dr. A.K. Tiwari, Sr. Scientist, Division of Parasitology
Registration Fee

All selected participants will have to pay Rs. 100/- (Rupees one hundred only) as registration fee at the time of their registration in the Short Training. **The last date for receipt of application is 18-2-2012.** Duly completed application should reach to:

**Dr. R. Somvanshi**
Training Coordinator & Head,
Division of Pathology, IVRI, Izatnagar, UP-243 122.

**Phones:** 0581-2301579 (O), 0581-2585413 (R), 09837658052 (M)
**Fax:** 0581-2303284, 2302179.
**Email:** somvanshi@ivri.up.res.in, dr.rsomvanshi@gmail.com

An advanced copy of the application form duly filled may be sent to the **Training Coordinator** through e-mail for consideration, but it should be followed by an application routed through proper channel. All selected candidates will be communicated to attend training latest by **22-02-2012**. The details regarding **Short Training** and application form can also be downloaded from institute website www.ivri.nic.in. In case of last minute cancellation by the selected candidate due to some unavoidable circumstances; the organizers may please be intimated by E-mail/Fax or phone latest by **29-2-2012** so that participants in the waiting list may be accommodated.