

Report of One Day Seminar on Molecular Diagnosis and Pathology of Emerging Diseases of Livestock and Poultry held on 25th February, 2018 at Department of Pathology, College of Veterinary Science, Assam Agricultural University, Khanapara, Guwahati, Assam

A one day seminar was organized by the IAVP Assam Chapter in collaboration with IAVP on “Molecular diagnosis and pathology of emerging diseases of livestock and poultry” in the Department of Pathology, College of Veterinary Science, Assam Agricultural University, Khanapara, Guwahati on 25th February 2018. Prof. T. Rahman, Head, Department of Veterinary Pathology was Chairman of Organizing Committee. The Seminar was attended by 7 experts, all faculty and students of Department of Pathology. Dr Abdul Mukit, former Head, Department of Pathology, graced the occasion. The other faculty members present were Drs T.N. Upadhyaya, D.C. Pathak, S.M. Tamuli, C.V. Phangcho, B. Dutta, Amrit Gogoi, Shameem Ara Begum etc. Prof. T. Rahman, Head, Department of Veterinary Pathology cum President of IAVP Assam Chapter welcomed the dignitaries and all members present in the inaugural session. Experts were felicitated by IAVP Chapter Assam. Inaugural Session was addressed by Drs B.N. Tripathi, Director, ICAR-NRC Equines, Hisar, R. Somvanshi, President, IAVP and S.K. Das I/C Dean, and S.K. Panda, Prof. & Head, Department of Pathology, OUAT, Bhubaneswar and Zonal Secretary, IAVP (East Zone). These speakers gave invaluable guidance and thought provoking advices to the audience particularly students.

There were two Technical Sessions exclusively devoted to the theme. Dr B.N. Tripathi, Director, ICAR-NRC Equines, Hisar made a presentation on “Status of Glanders in India”. The presentation sought to address the issue of the changing pattern of virulence and epidemiology and prevailing challenges in the diagnosis and eradication of this fatal disease of equidae. He started his lecture with a historical overview of the disease as regard to its importance in establishing first Veterinary College of the world at Lyon, France. He mentioned that the Glanders was the first disease on which an act was enacted in the Parliament of British India. He elaborated on the basic pathological as well as advanced molecular techniques that can be employed for the diagnosis of the Glanders. Dr Tripathi opined that further research will pave the way for its control, containment and prevention.

Dr R. Somvanshi, Ex. Scientist Emeritus (ICAR) cum President, IAVP emphasized the importance of post mortem examination, slide interpretation as basic tools for disease diagnosis and also additional help can be obtained from molecular and immunological techniques. He delivered a lecture on the “Comparative study of non-neoplastic urinary bladder lesions”. His brief and critical views on cystitis in case of human as well as in animals enlightened the young budding pathologists. Dr N.N. Barman, Professor, Veterinary Microbiology, AAU made a presentation on molecular aspect of Classical Swine Fever. He narrated the pathogenesis, transmission, diagnosis and more importantly immunological complications which dominate over its virulence and alarming outcome among the population of swine in the North-East region of country.

Dr C. Balachandran, Professor and Head, Department of Veterinary Pathology, College of Veterinary Science and Animal Husbandry, R.K. Nagar, Tripura made a presentation on “Clinical cytology and its core importance in the diagnosis of divergent tumor conditions in animals.” Dr T. Rahman made a presentation on *Pesti-des-petits ruminants* (PPR) with reference to its prevalence, pathogenesis, pathology and diagnosis at molecular level. He also shared his experience in the field of various emerging viral diseases of domestic animals in NE region and its patho-diagnostic aspects.

Dr S.K. Panda, Prof. & Head, Department of Pathology, College of Veterinary Science and Animal Husbandry, Odisha, Bhubaneswar and Zonal Secretary, IAVP (East Zone) shared his views on the aspect of “Forensic application of post mortem changes in animal carcass and its effective disposal”. His constructive effort as regards to re-cycling of animal carcass by adopting indigenous as well as modern techniques is the need of the hour. Dr T.K. Rajkhawa, Professor & Head, Veterinary Pathology, College of Veterinary Science and Animal Husbandry, Selesih, Mizoram presented his research findings about the very virulent IBD virus in the states of NE region and he shared some remarkable achievements in the study of VP1 and VP2 protein in the virulence of the virus. He concluded his presentation with this note that phylogenetic studies revealed that a small group of very virulent IBDV circulating in Assam and other parts of North-East region are from Bangladesh and predominantly from China.

In Session II Dr Seema Rani Pegu, Scientist, ICAR-NRC Pig, Rani, Guwahati and Dr B. Dutta, Asstt. Professor, Department of Pathology as well as some research scholars of the Department presented some interesting case reports and research findings. Thereafter a lively discussion on the strengthening of IAVP in East and North-East Zones was initiated by the President Dr R. Somvanshi. He requested young pathologists to join ICVP for quality practice of veterinary pathology and their career advancement. Keeping in view recent emergence of PPR, vvIBD and many other diseases in Eastern part of country; strict quarantine measures is need of the day. Dr Somvanshi appreciated very sincere efforts made by Dr Rahman and team for organizing seminar in meticulous manner. IAVP honoured Dr T. Rahman and Dr A. Chakraborti by presenting Association memento. This was followed by distribution of certificates to the participants. The seminar ended with a vote of thanks given by Dr B. Dutta, Asstt. Professor and Organising Secretary, IAVP Assam Chapter.



Fig. 1&2: Dignitaries on dais: Drs T. Rahman, B.N. Tripathi, R. Somvanshi, S.K. Das, S.K. Panda and their felicitation



Fig. 3: President, IAVP Dr R. Somvanshi addressing participants **Fig. 4:** Zonal Secretary-East Zone Dr S.K. Panda speaking to participants



Fig. 5: A group photo of experts, faculty and students of IAVP Chapter Assam Seminar

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