“Recent advances in animal disease diagnosis and vaccines”

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Lead Guest Editor
Dr. M. Madhanmohan, MVSc, PhD
Senior Manager,
Foot-and-Mouth Disease Virus Laboratory, Research and Development Centre, Indian Immunologicals Limited, Gachibowli, Hyderabad 500032 Email: madhanmohanvet@rediffmail.com

Guest Editors
1. Dr. S.B. Nagendrakumar, MVSc, PhD
Research Scientist, FMD Risk Management Project, CSIRO Health & Bio-security, Private Bag 24, 5 Portarlington Road, Geelong, VIC 3220, Australia. E mail: nagendra.siganallur@csiro.au

2. Dr. Madhuri Subbiah, BVSc, PhD
Scientist C, National Institute of Animal Biotechnology (NIAB), D. No. 1-121/1, 4th and 5th Floors, Axis Clinicals Building, Opp. to Cinie Town, Miyapur, Hyderabad, Telangana, India PIN: 500 049 E Mail: madhuri@niab.org.in

3. Dr. Aravindh Babu Ramasamy Parthiban, MVSc, PhD
Scientist, Translational Research Platform for Veterinary Biologicals, 2nd Floor, Central University Laboratory building, Tamilnadu Veterinary and Animal Sciences University, Madhavaram, Chennai - 600 051Tamil Nadu, India E Mail: aravindhvet@gmail.com

4. Dr T.R. Kannaki, MVSc, PhD
Scientist (Microbiology), Directorate of Poultry Research, Rajendranagar, Hyderabad 500 030, Telangana, India E Mail: trkannaki@gmail.com

Aim and scope

India’s livestock sector is one of the largest in the world. It plays a significant role in building our national economy and in socioeconomic development of India. Animal husbandry, an integral component of Indian agriculture is also a vital factor for rural economy supporting the livelihood of millions of rural people. The livestock sector alone contributes nearly 25.6% of total value of output in Agriculture, Fishing & Forestry sector. The overall contribution of Livestock Sector in total GDP was nearly 4.11% during 2012-13. India has the world's largest dairy herd and stands first in milk production. India is also the third largest egg-producer in the world, at over 180 million eggs being produced every day or 65.7 billion eggs for the year 2011-12 and the world’s sixth largest producer of poultry meat. Nonetheless, there are several challenges in this sector and the most important is disease outbreaks that continue to distress animal health and productivity. These diseases affect animals’ performances, reduce fertility, delay maturity, decrease production of milk, eggs, or wool. Additionally, more than 61% of animal diseases are zoonotic and pose a threat on the human society. The costs of animal disease can be direct costs – immediate impact on livestock populations and agriculture – and indirect costs, such as losses in trade, cost involved in control efforts and impacts on human health. Disease diagnosis and control is thus recognized as essential for improving animal health and productivity. This special issue will focus on the recent advances in animal disease diagnosis and control strategies and encourages submission of research and review articles in the areas of animal disease diagnostics and vaccines.