

## DBT Sponsored Short Term Training Programme (July 11-31, 2018) at ICAR-IVRI Bengaluru campus concluded on 31st July 2018

A 21 days DBT sponsored short term training course on “Bovine monocyte derived dendritic cells isolation, cultivation and maintenance for studying immunogenicity of vaccine antigens” was organized by ICAR-Indian Veterinary Research Institute (IVRI), Bengaluru Campus. The said course was attended by 20

Scientists, Assistant and Associate Professors from different SAUs and other institutions. The course was inaugurated on 11th July 2018. Dr. Parimal Roy, Director, ICAR-NIVEDI, during his inaugural address mentioned that the topic of the training programme is very pertinent in present context for studying immunogenicity of vaccine antigens. Dr Ganesh Kondabattula, Course Director, presented the overview of contents of the training programme. The 21 days training programme included guest lectures followed by practical demonstrations. Twelve eminent scientists from India and two from abroad were invited for presenting the guest lectures. The topic of lectures varied from different areas of specializations-

cellular immunology, bovine dendritic cell platforms, immune monitoring etc. Practical



demonstrations were conducted by internal guest faculty, in the areas of cloning and expression of bovine IL4 and GM-CSF, *ex vivo* and *in vitro* measurement of T cell immunity, isolation & freezing of bovine PBMCs, magnetic-activated cell sorting (MACS), Flow cytometry, sample preparations, single cell suspensions (gentle MAC) using spleen tissue, cell separation from PBMC, maturing measurement of CD1b antigen-presenting molecules, DCs harvesting, afferent lymph DCs collection, measurement of effects of TLR ligands on expression of CD40 and MHC II molecules on MoDC etc.

On the concluding day, Dr. A Sanyal, Joint Director, ICAR-IVRI, Bengaluru campus, during his address highlighted the various research activities undertaken by this campus, and assured cooperation in implementing the technologies by the participants. Dr Ganesh Kondabattula, Course Director, presented the report of the training course. Dr. Ravindra Sharma, Former Director (Res), Lala Lajpat Rai University of Veterinary and Animal Sciences, Hisar graced the occasion as chief guest. He emphasized the need of such Bovine Dendritic cell platform in day-to-day research activities and congratulated ICAR-IVRI for organizing such an important training course for the young researchers. Participants presented their feedback expressing their satisfaction about the course design and practical experience gained from entire training course. Certificates were distributed among the participants by the dignitaries. On this occasion, all scientists of the campus, as well as DFMD, Bengaluru along with students and staff members were present.