

Organising Secretary's Report on IX Annual Convention of SVSBT and National Seminar Organized at Veterinary College and Research Institute, Tirunelveli during 22, 23 & 24 September 2022

The IX Annual Convention of the Society for Veterinary Science & Biotechnology (SVSBT) and National Seminar on "Recent Biotechnological Advances in Health and Management Practices to Augment Productivity of Livestock and Poultry", was hosted by the Veterinary College and Research Institute, Tirunelveli, Tamilnadu - 627 358, a constituent unit of Tamil Nadu Veterinary and Animal Sciences University (TANUVAS), for three days from 22.09.2022 to 24.09.2022. A total of 188 delegates from all over India registered and participated in the National Seminar.

The inauguration of the seminar was held on 22nd September 2022 (10.00 to 11.30 hrs) in the College Auditorium and was presided over by the Hon'ble Vice Chancellor of TANUVAS, Tamil Nadu, Dr. K.N. Selvakumar. Dr.Santha Maria, MD(S), Principal of the Govt. Siddha Medical College, Tirunelveli was the Chief Guest of the function. Dr.S.Sudharsan, Deputy General Manager, NABARD, Chennai; Dr. A.J. Dhami, President of SVSBT and Retd Professor & Head, ARGO, Anand (Gujarat); Dr.C.Valli, Dean (Basic Sciences) TANUVAS, Dr. S.C.Edwin, Dean, VCRI, Tirunelveli, Dr. R.S. Dhanotia, Honorary Secretary, SVSBT, Indore and Dr. M.Chellapandian, Organizing Secretary of the seminar adorned the dais as dignitaries of the function.

The seminar was inaugurated by Lighting of Lamps by the dignitaries and invocation with Tamil Anthem by the students and staff, followed by welcome address by Dr. S.C.Edwin, Dean, VCRI, Tirunelveli. Dr. M. Chellapandian, Organising Secretary welcomed the Hon'ble Vice Chancellor and the guests with angavastram, bouquets and mementoes. Dr. Santha Maria, MD(S), Principal of the Govt. Siddha Medical College, Tirunelveli, in her speech described the leading role of biotechnology in one health approach and in strengthening food security. Dr. KN Selvakumar, Vice Chancellor, TANUVAS released the compendium and delivered the presidential address in which he highlighted the activities, facilities and achievements of the VCRI, Tirunelveli. He also thanked the SVSBT for giving an opportunity to VCRI Tirunelveli and lauded the efforts taken by the organising committee in conducting the National Seminar. He appreciated the theme of the seminar and exhorted the participating researchers, academicians and students to bring out

practical and useful recommendations for policy makers as outcomes of the three day deliberations. The President of SVSBT Dr. A.J. Dhami delivered the key note address highlighting technological advances and gaps in the field of Veterinary Science and Biotechnology towards sustainable and better health, production and reproduction of animals and upliftment of the farmers economy and livelihood in the country. He also briefed about the Society, SVSBT registered under the Societies Act in October 2012 at Indore, its objectives and its journey in organizing nine annual conventions and national seminars or symposia over a period of nine years in different parts of the country, except during 2020 due to Covid-19 pandemic and mentioned that the society has nearly 380 registered life members including 25 newly registered members. He appreciated the hospitality arrangements and zealous preparations made by the organizers. On this occasion, a "Seminar Compendium" of lead papers and abstracts of contributory research papers in different sessions" was released by the dignitaries on the dais. Dr R.S. Dhanotia, Secretary, SVSBT announced the Best Paper Awards for papers published in IJVSBT 2021 and Outstanding Veterinary Graduate of the Year 2021-22 Awards of SVSBT. The winners of the first and second Best Paper Awards for the Best Research Publications in The Indian Journal of Veterinary Science & Biotechnology (IJVSBT) were conferred with certificate and cash prize by the Hon'ble Vice Chancellor, TANUVAS, Chief Guest Dr.Santha Maria and the President SVSBT Dr. A.J. Dhami.

The Best Paper (I) Award-2022 of SVSBT was awarded to Drs. Mahesh P., V.S. Suthar, and others from Gandhinagar, Gujarat for their paper entitled Dynamics of Vaginal Microbiota during Estrous Cycle and its Association with Reproductive Hormones in *Bubalus bubalis* published in The IJVSBT, 2021, Vol. 17(3), p. 11-18.

The Best Paper (II) Award-2022 of SVSBT was given to Drs. Kauvery Tayeng, S.S. Tomar, and others from Mhow, MP for their paper entitled Bovine Leukocyte Antigen (BoLA) DRB3.2 Gene Polymorphism and its Association with Lactation Yield and Milk Constituents in Crossbred Cattle published in The IJVSBT, 2021, Vol. 17(1), p. 71-75.

The "Outstanding Veterinary Graduates" of the year 2021-22 Awards for the Founder Institute was bestowed upon Dr. Ashutosh Raghuwanshi from College of Veterinary Science

& Animal Husbandry, Mhow, NDVSVU, MP, and the other one of the Host Institute was awarded to Dr. B. Sakthisivapriya, student of Veterinary College and Research Institute, Tirunelveli, TANUVAS, TN.

On the first day two technical sessions were conducted - Session 1: Animal Health Science I & Session 2: Animal Production Science I. On the second day Session 3: Animal Health Science II and Session 4: Animal Production Science II were conducted. On the third and final day (24.09.2022) Session 5: Academia-Industry Interface was conducted. In all the five sessions, lead papers were presented by invited speakers followed by oral and poster presentations of research papers by the delegates and PG students. Each session was managed by one Chairman, two Co chairmen and two or three rapporteurs. A total of 15 lead papers and 75 abstract papers were presented by the participants in the five sessions. A special Session 6 was organised for undergraduate students through online mode for the first time in the history of SVSBT National seminars, on day two and day three of the seminar. There was an overwhelming response from UG students who participated from many parts of India and a total of 73 research and clinical papers were presented in this session.

At the end of the scientific sessions on the first day, a refreshing cultural programme was organized by the talented and vibrant students of Veterinary College and Research Institute, Tirunelveli for the entertainment of the delegates, faculty members with their families and students.

On conclusion of the technical sessions on the third and final day (24.09.2022) of the seminar a Valedictory function was conducted which was presided over by the Registrar, TANUVAS (TN), Dr. P. Tensingh Gnanaraj. The Chief Guest, Dr. K.Saravana Kumar, Deputy Commissioner of Police, Tirunelveli City and a proud alumnus of TANUVAS, Dr.S.C.Edwin, Dean, VCRI, Tirunelveli; Dr.A.J. Dhami President, SVSBT; Organizing Secretary Dr. M.Chellapandian, and Co-organising Secretaries Dr.R.Ramprabhu, Dr.R.Thangathurai and Dr.N.Arulnathan were the other dignitaries present. Dr. Rajesh Kumar, Assistant Professor, Department of Veterinary Gynaecology & Obstetrics, College of Veterinary Science & Animal Husbandry, Kumarganj, Ayodhya, ANDUAT, Uttar Pradesh was presented a "Certificate of Appreciation" for the successful organization of 8th Annual Convention of SVSBT and National Symposium on "Innovative Biotechnological Approaches for Enhancing Fertility, Health and Productivity of Livestock to Boost the Farmers Economy" during 17-18 December, 2021 at Kumarganj (Ayodhya). Then, the detailed technical reports compiled on the deliberations in each of the six sessions were presented by the Chairman of the respective sessions. Best oral presentation awards under "Young Scientist category" (10 nos.), "PG Student category" (12 nos.), "General Delegates category" (20 nos.) and Best Poster presentation awards (9 nos.) were conferred to the winners during the valedictory

function for their outstanding performance in oral and poster presentations. Best oral presentation award certificates (29 nos.) were also distributed online to the winners of UG Students' online session.

The Present SVSBT as well as the Organizing Secretary of the seminar heartily thanked all the participants, authorities of VCRI, Tirunelveli and TANUVAS as well as the sponsors of the seminar with special mention on the major sponsor NADARD, Chennai and all others for their moral and technical support for making this Seminar a grand success.

RECOMMENDATIONS OF SVSBT IX NATIONAL SEMINAR 2022

The recommendations derived from the deliberations of the technical sessions of the National Seminar are as follows:

1. In general, application of advanced biotechnological tools that are tried and tested under field conditions for accurate and timely diagnosis of diseases and therapeutics for critical clinical and surgical conditions has to be quantitatively and qualitatively increased to achieve better outcomes in veterinary practice.
2. Adoption of estrus synchronization using prostaglandin, progesterone (MGA, CIDR, TRIU-B) hormone techniques, GnRH protocols (OVSYNCH, Heat SYNCH) elicit high estrus response resulting in improved conception rates. Hence field veterinarians should be encouraged to put into practice these protocols in order to overcome infertility problems and achieve a higher conception rate in dairy cattle and buffaloes.
3. Embryo transfer has become a powerful biotechnological tool to improve genetic construction of herds and to produce elite animals within a shorter span of time. As the need of the hour is to produce elite dairy cows of indigenous breeds like Kangayam, Kankrej, Tharparkar, Sahiwal, Gir etc., research on development of low cost and highly effective embryo transfer technique for large scale adoption needs to be encouraged.
4. Lumpy skin disease (LSD) a notifiable transboundary pox viral disease of cattle and Asian water buffalo has recently caused serious economic losses to dairy farmers in many states of India. Hence it is imperative that efforts should be concentrated by researchers to identify and characterize field virus isolates in disease outbreak areas, produce effective vaccines and design proper therapeutic protocols utilizing modern biotechnological tools.
5. Nano enabled technologies specialized in development of novel nanosized materials for applications in animal production and disease control are growing rapidly. Nano particles are used in animal production to enhance growth, provide immunity and resistance to

pathogens and increase the quality of animal products. In veterinary medicine, nano particles are used as modern molecular tool in therapeutics as nano vehicles for target specific drug delivery and synthesis of novel vaccines. Hence potent and safe nanosized materials with high bio efficacy and no adverse impact on consumers and environment have to be incorporated in the development and standardization of animal health products to facilitate technological transfer for routine veterinary practice.

6. The constant search for alternatives to antibiotic growth promoters as feed additives in animal nutrition are on and the identified promising antibiotic growth promoter replacers (AGPR) are probiotics, prebiotics, synbiotics, organic acids, enzymes, herbal products, phytochemicals, essential oils etc. With a growing demand for animal products on par with growing human population, the research on identifying suitable AGPR combinations for efficient utilization of available feed resources and to maximize the livestock and poultry production, needs to be sustained with greater zeal.
7. Animal health is of paramount importance for sustainable livestock production. Animal health services mainly delivery of vaccines are hugely responsible for reducing the losses due to animal diseases. Biotechnological advances such as Omics technology, vaccine target discovery methods, recombinant DNA technology, vectored vaccines, nanotechnology based vaccine formulation and delivery methods are being employed

in the development of effective vaccine systems. Hence there is a dire need for placing greater emphasis on the adoption of advanced biotechnological tools in animal health services.

8. Research on laboratory animals on several areas such as pharmacokinetics, oncology, immunology, autoimmune disorders, metabolic disorders, neuroscience, behavioural assessment, antibody production, emerging diseases, surgical procedures etc., is essential for fundamental biological studies and understanding and evaluation of animal diseases and development of diagnostic and therapeutic tools. Hence a dedicated approach is necessary to advance laboratory animal science by promoting ethical care and use of laboratory animals in veterinary research and development of biotechnological tools.
9. Green house gas (GHG) emissions mainly the enteric methane emission of ruminant animals contributes to global warming. Therefore, reducing the methane emission enhances the efficiency of nutrient utilization, augments productivity and also considerably reduces the impact on global warming. Biotechnological approach that includes modification of rumen environment using various feeding strategies, phytochemicals and methanogenic inhibitors are effective in mitigating methane production. Therefore scientific community needs to continuously develop and advocate the adoption of suitable methane mitigation technologies to combat global warming.

GLIMPSES OF SEMINAR



Inauguration of the SVSBT IX National Seminar by lighting the ceremonial lamp by the Hon'ble Vice Chancellor of TANUVAS Dr.K.N.Selvakumar



Hon'ble Vice Chancellor of TANUVAS Dr.K.N.Selvakumar felicitated by Dr.A.J.Dhami, President SVSBT



Guest of Honour Dr.Santha Maria, Principal Govt. Siddha medical College, Tirunelveli felicitated by Dr.S.Dhanotia, Secretary, SVSBT



Dr.K.N.Selvakumar, Hon'ble Vice Chancellor, TANUVAS, giving presidential address during the inaugural session



Dr.Vishal Suthar receiving the Best Paper (I) Award-2022 of SVSBT



Release of Seminar Compendium by the dignitaries during the inaugural session



"Outstanding Veterinary Graduate of the year 2020-21" award for the Founder Institute was bestowed upon Dr. Ashutosh Raghuwanshi of CVSAH, Mhow, NDVSU, MP



"Outstanding Veterinary Graduate of the year 2021-22" award for the Host Institute was bestowed upon Dr. B. Sakthisivapriya, student of VCRI, Tirunelveli, TANUVAS, TN.



Evaluation of the poster presentation by the committee members



VCRI, Tirunelveli students performing in the Cultural programme at evening after the technical sessions



Dr. Borakhatariya, CVSAH, Junagadh, receiving the Best Paper Award – Young Scientist category for oral presentation



Dr. S. Rajinikumari, ICAR RCER Patna receiving the Best Paper Award (Delegates category) for oral presentation



Dr. A.J. Dhama, President, SVSBT expressing gratitude to the TANVAS, Sponsors and Delegates at the valedictory session

