REPORT SUBMITTED TO FAVA BANGKOK

23rd Indian Veterinary Congress
XXX Annual Conference of Indian Association for Advancement of Veterinary Research (IAAVR)
National Symposium on
Advances in Tackling Antimicrobial Resistance and Ensuring Food Safety under One Health Perspective
3-4 February 2023

Venue: Auditorium, Anand Agricultural University, Anand (Gujarat)

Submitted by
Prof. (Dr). Rishendra Verma
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2023

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ACKNOWLEDGEMENT

The Executive Committee of Indian Association for the Advancement of Veterinary Research (IAAVR) acknowledge with gratitude FAVA financial support for 23rd Indian Veterinary Congress, XXX Annual Conference of Indian Association for Advancement of Veterinary Research (IAAVR) National Symposium on "**Advances in Tackling Antimicrobial Resistance and Ensuring Food Safety under One Health Perspective",** 3-4 February 2023 organised under the aegis of College of Veterinary Science & Animal Husbandry, Kamdhenu University, Anand (Gujarat), India.

IAAVR, a multidisciplinary association, became full member of FAVA in 2018 and IAAVR is subscribing its affiliation with FAVA continuously. We are obliged to FAVA for their kind consideration to members of IAAVR.

1. Congress/activity:		23rd Indian Veterinary Congress & 30th Annual Conference of IAAVR & National Symposium on "Advances in Tackling Antimicrobial Resistance and Ensuring Food Safety Under One Health Perspective"
2. Host Organization:		College of Veterinary Science & Animal Husbandry, Kamdhenu University, Anand (Gujarat)-388001 (India)
3. Date	:	3-4 February 2023
4. Time	:	8.30 A.M. to 6.00 P.M.
5. Venue	:	College of Veterinary Science & Animal Husbandry, Kamdhenu University, Anand (Gujarat)-388001 (India)

6. VDO Recording Link:

Inauguration VDO link:

https://drive.google.com/drive/folders/1eO2TZ29SREtsLBiYf64ojm8mW5Vpic8t?usp=sharing

Webinar Link

link:https://drive.google.com/file/d/1JvN4m0fvzvuhwVErEeQjGZUoNoaJH2Xr/view?usp=drivesdk

7. Introduction to the proposal

Antimicrobial resistance is among the key issues faced by the globe in the current era. Veterinary and animal husbandry sector is the consumer of antimicrobials in the country. The researchers pan India will be participating in this national seminar to address the challenges to combat the issue of antimicrobial resistance as well as to address vaccines against emerging new devastating diseases. Simultaneously issues pertaining to the food safety will also be discussed. Researchers and lead speakers will focus on the aspects of nanotechnology and biotechnology for the robust detection and identification of the pathogen. Application of next generation sequencing platform will also be taken as cutting-edge technology to ensure the food safety. Having realized global subject of "One Health" a number of initiatives have been taken in India by joint Memorandum of Understanding between ICAR-ICMR, Deptt of Fishery, Animal Husbandry and Dairying, Govt of India launched project with Bill Gates Foundation funding and DBT, Ministry of Science & Technology, Govt of India consortium on One Health are all working on One Health issues. Learned experts from veterinary science are member of such committee.

8. Objectives

1. To bring together experts in life and nature, veterinary research, dairy sciences, food and nutrition, animal health and production.

2. To generate information from stakeholders and delegates on relevance of One Health programmes to address AMR and new pandemics in India

3. To conduct webinar on harmonization supply of vaccine seed and challenge cultures and cultures for R & D and role of Type Culture Collection Centres in India.

4.To promote researchers, industry and students through multidisciplinary platform.

9. Program

INVITATION

Inaugural Function

You are cordially invited for the inaugural function of 23rd Indian Veterinary Congress & 30th Annual Conference & National Symposium
Of
Indian Association for the Advancement of Veterinary Research (IAAVR)
on 3rd February, 2023

: Chief Guest:
Dr. Bhupendra Nath Tripathi
DDG, ICAR (Animal Science)

: Guests of Honour:

Shree Meenesh Shah
Chairman, NDDB

Dr. Falguni Thaker
Director of Animal Husbandry,
Gujarat State

: President:
Dr. N.H. Kelawala
Vice Chancellor, Kamdhenu University, Gandhinagar

: Venue:
Auditorium Hall, B.A. College of Agriculture, AAU campus, Anand

Dr. D.B. Patil
Director of Research & Dean
PGS, KU, Gandhinagar

Dr. P.H. Tank
Dean, Veterinary Faculty
Kamdhenu University &
Chairman Organising Committee

Dr. J.B. Nayak
Organising Secretary
IAAVR - 2023

PROGRAMME

Time		Event
9:30	:	Lighting of Lamp & Prayer
9:35	:	University song
9:40	:	Welcome Address by Dean of Veterinary Faculty, Kamdhenu University, Dr. P.H. Tank
9:45	:	Floral welcome of guests
9:55	:	Address by President – IAAVR, Dr. S.N. Singh
10:00	:	Address by Founder Secretary – IAAVR, Dr. Rishendra Verma
10:05	:	Address by Director of Research, Kamdhenu University, Dr. D.B. Patil
10:10	:	Address by Guest of Honour, Dr. Falguni Thaker
10:20	:	Address by Guest of Honour, Shree Meenesh Shah
10:30	:	IAAVR Awards and Fellowships
10:50		Address by Chief Guest, Dr. Bhupendra Nath Tripathi
11:05	:	Release of Publications
11:10	:	Felicitation of the Dias Dignitaries
11:15	:	Presidential address by Hon'ble Vice-chancellor, Kamdhenu University, Dr. N.H. Kelawala
11:30	:	Vote of Thanks by Organising Secretary, Dr. J.B. Nayak National anthem

The 23rd Indian Veterinary Congress, XXX Annual Conference of Indian Association for Advancement of Veterinary Research (IAAVR) and National Symposium on ***"Advances in Tackling Antimicrobial Resistance and Ensuring Food Safety under One Health Perspective"*** was organized by Indian Association for the Advancement of Veterinary Research (IAAVR) and College of Veterinary & Animal Science, Kamdhneu University, Anand, Gujarat, India on 3rd and 4th February 2023. Over 250 delegates from all over the country participated in the two- days Congress.

The Congress was inaugurated on 3rd February 2023 at the hands of **Dr. B. N. Tripathi,** Hon'ble Deputy Director General (Animal Science), Indian Council of Agricultural Research, New Dehli. **Shri Meenesh Shah**, Chairman, National Dairy Development Board (NDDB), Anand was the Guest of Honor. **Prof. (Dr) N.H. Kelawala,** Hon'ble Vice-Chancellor, Kamdhneu University presided over the inaugural function. **Dr. D.B. Patil, Director of Research, Dr. P.H. Tank, Dean of Faculty, Dr. S.N. Singh**, President, IAAVR **Dr.RishendraVerma**, Founder Secretary, Dr. R.K. Bagherwal, Vice President, IAAVR and **Dr. J.B. Nayak**, Organizing Secretary were on the on the dais.

Among the audience, **Dr. Raghvendra Bhatta**, Director, ICAR-National Institute of Animal Physiology & Nutrition, Bangalore, **Dr. M. N.Brahmbhatt**, Dean, College of Fishery Science, **Dr. Arun Atrey**, **Mr. Vijay Teng**, Senior Executive President, INTAS, **Dr. D.K. Dey**, CEO, **Dr. Manoj Sood**, Director Market Access and Regulatory Affairs, Elanco India Pvt. Ltd., **Dr. D.J. Kalita**, Head Technical & Regulatory, Zenex Animal Health India Private Ltd., **Dr. Nitin Bhatia**, Vice President (Technical & Vet Regulatory) & Chief Editor (Intas Polivet), INTAS Pharmaceuticals Ltd., Ahmedabad, **Dr. Kachia Patel**, Ex-Director, Animal Husbandry, Gujarat State, **Dr. Vijaya Kumar**, Dean Faculty, College of Veterinary Science, Thrissur (Kerala), **Shri Ranvir Singh**, Ex-Commandant, SSB (Paramilitary), **Dr. Sushant Pareker** Second in Command, SSB (Paramilitary), **Dr. Suresh Korpole**, Principal Scientist &

Head, IMTECH, Chandigarh, **Dr. H. C. Chauhan**, Head, Deptt of Vet Microbiology, S.K. Nagar, **Dr. Dr. B. S. Chandel** and many other delegates from all over India graced the event.

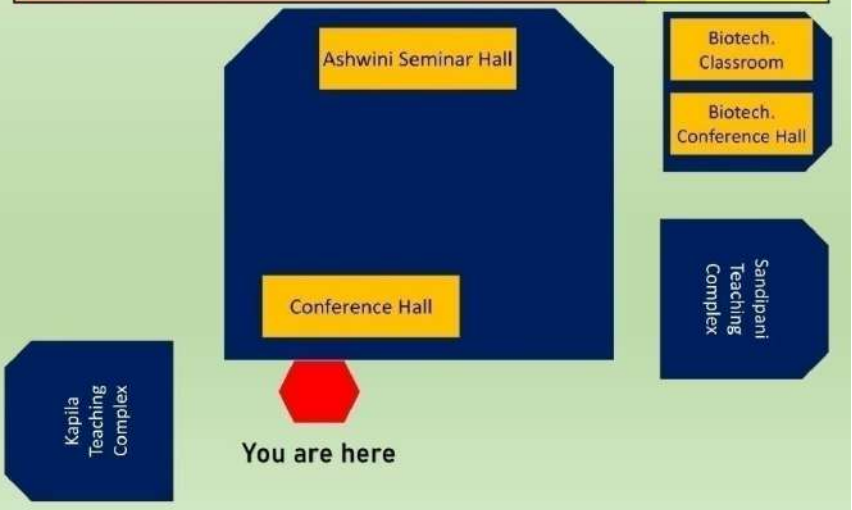
Valedictory Function

Venue: Ashwini Hall, College of Veterinary Science & A.H., Anand

Time	Program
3.00 PM	Welcome Address by P.H. Tank, Dean, Faculty of Veterinary
3.05 PM	Address by Dr. Rishendra Verma Founder Secretary, IAAVR
3.10 PM	Address by Vice Chancellor, Anand Agricultural University, Anand
3.20 PM	Distribution of Awards for Oral/Poster Presentations and to Keynote Speakers
3.30 PM	Address by Prof. N.H. Kelawala, Vice Chancellor, Kamdhenu University
3.40 PM	Vote of thanks by Dr. Raval, Head, Deptt of Medicine
3.45 PM	NATIONAL ANTHEM
3.50 PM	Tea & Snacks

Venue for Technical Sessions

Session	Venue for Oral Presentation	Venue for Poster Presentation
Session 1: Concepts of climate resilient animal and poultry production for Eco-health	Conference hall: Beside Dean Office (1st Floor, Main College Building)	Kapila Teaching Complex
Session 2: Intersectoral approaches to combat zoonosis and achievement of food safety.	Conference hall: New Biotechnology Building	
Session 3: Innovative aspects in tackling and prevention of clinical issues in animal sciences	Ashwini Seminar hall: Main College Building Above Dept. of Parasitology	Sandipani Teaching Complex
Session 4: Recent modalities to meet the requirements in animal sciences	Class room: New Biotechnology Building	



SCHEDULE OF TECHNICAL SESSIONS

Technical session	Oral	Poster
1	3rd February 2:30 to 5:30	
2		
3		
4		

Table 1: Summary of Technical Sessions

Technical Session 1: Concept of Climate Resilient Animal and Poultry Production for Eco-health	
Lead papers	2
Oral	Poster
11	11
Technical Session 2: Intersectoral Approaches to Combat Zoonoses and Achievement of Food Safety	
Lead papers	3
Oral	Poster
13	21
Technical Session 3:Innovative Aspects in Tackling and Prevention of Clinical Issues in Animal Sciences	
Lead papers	3
Oral	Poster
11	41
Technical Session 4: Recent Modalities to Meet the requirements in Animal Sciences	
Lead papers	2
Oral	Poster
13	16

Table 2 : Awardees for Prof. (Dr.) Rishendra Verma Young Scientist Award

Awardee	Work
Dr. Prakrutik Bhavsar	Development of the Nono Fortified Functional Milk Using Iron and Zinc Nanoparticles
Dr. Aiman Ashraf	Studies on Coccidiosis of Small Ruminants in Central Zone of Kashmir Valley

Table 3 : Summary of Awardees in the Technical Sessions

Technical Session 1: Concept of Climate Resilient Animal and Poultry Production for Eco-health	
Best Oral Presentation Award	
Scientific contributor	Work
Pandya, P.R., Dangi, R. and Sorathiya, K.K.	Effects Of Direct-Fed Microbials On The Mitigation Of Methane Emissions In Adult Cattle
Kabariya, D.V., Dave C.J. and Ghodasara D.J.	Patho - Epidemiological And Molecular Identification Of Chicken Anaemia Virus In Broilers
Patel, H. V., Rajpura, R. M., Koringa, P. G., Paleja, H. I., Savaliya, F. P., Vahora, S. G., Patel A. B. and Parmar D. J.	Effect Of Probiotic Application As An Alternative To Antibiotics On Performance Of Commercial Broilers As To Establish No Antibiotic Ever Production Concept
Best Poster Presentation Award	
Bhavsar, M.Y., Pandya, P.R. and Sorathiya, K.K.	EFFECT OF SEAWEED (*Sargassum Johnstonii*) ON *IN VITRO* DRY MATTER DIGESTIBILITY AND METHANE PRODUCTION
Patel, Y.G., Shah, S.V., Pandya P.R., and Modi, R.J.	EFFECT OF FEEDING Moringa Oleifera MEAL ON FEED INTAKE AND GROWTH PERFORMANCE IN SURTI KIDS
Sharma, N., Islam, M.M., Pathan, M.M., Parmar, C.P. and Modi, R.J.	Effect Of Different Floor Space Allowances On Physiological Responses And Blood Parameters Of Post Weaned Surti Kids
Technical Session 2: Intersectoral Approaches To Combat Zoonoses And Achievement Of Food Safety	
Best Oral Presentation Award	
Scientific contributor	Work
Bhavsar, P.P., Brahmbhatt, M.N., Anjaria, P.A., Nayak, J.B., Chaudhary, J.H., Parmar, B.C., Mankad, M.C. and Patil, G.B.	Anti-Microbial Activity Of Zinc Nanoparticles And Its Application In Milk Preservation
Golaviya, A., Hinsu, A., Panchal, K., Desai, M., Patel, H., Jakhesara, S., Paleja, H., Mathakiya, R., Rajpura, R., Fournié, G., Blake, D., Tomley, F. and Koringa, P.	Variation In Antimicrobial Resistance Gene Occurrence In The Caecal Microbiota Of Broiler Chickens Fed Antibiotics Or Probiotics
Soni, M.M., Nayak, J.B., Anjaria, P.A.,	MOLECULAR CHARACTERIZATION OF

Bhavsar, P.P., Chaudhary, J.H. and Brahmbhatt, M.N.	BIOFILM PRODUCING *Enterococcus Faecalis*isolated FROM CARABEEF
Best Poster Presentation Award	
Chaudhary, J.H., Brahmbhatt, M.N., Jhala, M.K., Nayak, J.B., Parmar, B.C., Mecwan, T.S. and Bhavsar, P.P.	Molecular Characterization Of Rabies Virus Using *N* Gene Sequencing And Its Comparison With Vaccine Strains, National And International Isolates
Soni, M.M., Nayak, J.B., Anjaria, P.A., Bhavsar, P.P., Chaudhary, J.H. and Brahmbhatt, M.N.	ANTIMICROBIAL RESISTANCE PATTERN OF BIOFILM PRODUCING *Enterococcus Faecalis*isolated FROM CARABEEF
Prajapati, B.I., Katira, B.P. and Solanki, K.M.	PHENOTYPIC AND MOLECULAR CHARACTERIZATION OF EXTENDED-SPECTRUM BETA-LACTAMASES (Esbls) PRODUCING *Klebsiella Oxytoca* FROM BOVINE MILK SAMPLES
Technical Session 3:Innovative Aspects In Tackling And Prevention Of Clinical Issues In Animal Sciences	
Best Oral Presentation Award	
Scientific contributor	Work
Bajaj, N.K., Choudhary, G.P., Gupta, V.,Mishra, A., Sahoo, K.K. and Shivhare, P.	Fertility Response Of Proteolytic Enzymes And Immunomodulators For Resolving Subclinical Endometritis In Repeat Breeder Buffaloes
M. Ranjithkumar, A. Elamurugan, H. Vijayakumar, P. Pothiappan, N. Pazhanivel	Evan's Syndrome In Canine Monocytic Eherlichiosis - Steroids Is The Choice Or Not?
Sarvaiya, V.N., Sadariya, K.A., Bhavsar, S.K., Thaker, A.M. and Modi, R.J.	Plasma Pharmacokinetics And Dosage Regimen Of Cefpirome Sulfate In Healthy And Escherichia Coli Lipopolysaccharide Induced Febrile Ewes
Best Poster Presentation Award	
Bajaj, N.K., Choudhary, G.P., Gupta, V., Dhurvey, M., Sahoo, K.K. and Shivhare, P.	Comparative Efficacy Of Cytobrush And Cytotape Technique For Diagnosis Of Sub-Clinical Endometritis In Repeat Breeder Buffaloes
J. J. Parmar, U. B. Patel., Arnold Mecvan, A. I. Shah, Neha Rao and K. K. Hadiya	A Rare Case Of Ovarian Abscess, Its Diagnosis And Surgical Management In A Dog

Mahla, J.K., Parikh, P.V., Amin, N.R., Bhanderi, B.B. &Mecvan, A.R.	Equine Protozoan Myeloencephalitis (Epm): A Biggest Challenge For Veterinarian To Manage
Kulkarni, T.M., Pawade, M.M.,Tumlam, U.M., Kolhe, R.P., Mehere, P.V. and Kapgate, S.S.	Molecular Identification Of *Vp1* Gene Of Chicken Infectious Anaemia Virus In Layer Birds
Technical Session 4: Recent Modalities To Meet The Requirements In Animal Sciences	
Best Oral Presentation Award	
Scientific contributor	Work
Dumka, S., Kamboj, A. and Kumar, S.	Developing A Fluorescent Probe-Based System For The Differentiation Of A1 And A2 Milk
Bhavsar, P.P., Brahmbhatt, M.N., Anjaria, P.A., Nayak, J.B., Chaudhary, J.H., Parmar, B.C., Mankad, M.C. and Patil, G.B.	Safety Evaluation Of Iron And Zinc Nanoparticles On Male Wistar Rats
Ray, S.M., Viswanathan, K., Vyas, P., Kalita, D. and Kayasta, F.	Characterisation And Evaluation Of Novel Bacillus Strains Isolated From Broiler Chickens In India
Best Poster Presentation Award	
Mandeep, Chandratre, G.A., Kumar, A., Lather, D., Chabra, R., Gupta, R. and Nehra V.	MOLECULAR IDENTIFICATION OF *Acinetobacter Baumannii*, AN EMERGING PATHOGEN FROM PNEUMONIC LUNGS OF BOVINES AND IT'S ANTIMICROBIAL RESISTANCE PATTERN
Kumar, N., Solanki, J.B., Kalyani, I.H. and Patel, D.C.	Development Of Isothermal Amplification Assay For The Rapid Visual Detection Of *Anaplasmamarginale* In The Cattle
Choudhari, P.G., Kabariya, D.V., Ghodasara D.J. and Bhanderi B.B.	Etiopathological Study Of Colisepticemia With Coinfection Of Low Pathogenic Avian Influenza And Mycoplasma In Broilers

DETAILED PROGRAMME-APPENDIX –I

Fellowship/Award Ceremony: A number of distinguished veterinarians were honoured for their outstanding contributions.

S. No.	Name of Award	Recipient	Value of Award
1.	MAJOR (MRS) MAILKA TRIVEDI IAAVR AWARD	Dr. Braham Bhatt, Dean, College of Fisheries Science, Anand	Memento & Certificate
2.	FELLOWSHIP IAAVR	Dr. B. N. Tripathi, Deputy Director General (AS), ICAR, New Dehli	Memento & Certificate of Fellowship
		Dr. K. Vijayakumar, Dean Faculty, College of Veterinary Science, Thrissur, Kerala	Memento & Certificate of Fellowship
		Dr. Jai Sunder, Principal Scientist & Head, Animal Health, ICAR-Indian Agricultural Institute, Andman Nicobar	Memento & Certificate of Fellowship
3.	MRS VIMAL SHRINIVAS KSHIRSAGAR MEMORIAL LADY VETERINARIAN AWARD	Dr. Deepali Deshpandey, Manager, Central Semen Bank, Bhopal	Memento, Certificate & Rs. 1000/
4.	IAAVR FEILED VETERINARIAN AWARD	Dr. Rakesh Kumar Singh, Dy Chief Veterinary Officer, Deptt of Animal Husbandry, Meerut (U.P.)	Memento, Certificate & Rs. 500/
5.	SHYAMA SINGH BALAMATI MEMORIAL AWARD	Dr. Rajib Deb, Senior Scientist, ICAR-National Research Centre on Pigs, Rani, Guwahati	Memento, Certificate & Rs. 1000/
6.	G. V. NARAYANKHEDKAR MEMORIAL AWARD	Dr. Sushant Parekar, Second-in-Command, Seema Suraksha Bal, Govt of India	Memento & Certificate
7.	DR. K. M. SUJATIA MEMORIAL AWARD	Dr. Pawan Kumar Verma, Prof. & Head, Deptt of Veterinary Pharmacology & Toxicology, Faculty of Veterinary Science, SKUSAT-Jammu	Memento, Certificate & Rs. 1000/
8.	PROF. RAM RAKSHA KIRAN SHUKLA AWARD	Dr. J.B. Nayak, Assoc. Prof. & Head, Deptt of Veterinary Public Health, College of Veterinary Science & Animal Husbandry, Anand	Memento, Certificate & Rs. 1000/
		Dr. B. S. Chandel, Ex-Prof.& Head, Deptt of	Memento,

		Vet Microbiology, College of Veterinary Science, S.K. Nagar (Gujarat)	Certificate & Rs. 1000/
9.	GOAN GYAN PARITOSHIK AWARD	Dr.Sanjay Purohit, Professor, Deptt of Veterinary Surgery & radiology, College of Veterinary Science, Mathura	Memento, Certificate & Rs. 1000/
10.	IAAVR MERIT AWARD	Dr. Niranajn Kumar, Professor, Deptt of Parasitology, College of Veterinary Science, Navsari (Gujarat)	Memento & Certificate
		Dr. M. Ranjithkumar, Assistant Professor, Deptt of Clinics, Madras Veterinary College, Chennai (Tamil Nadu)	Memento & Certificate
11.	IAAVR FELICITATION AWARD	Shri Ran Vir Singh, Ecx-Commandant, Seema Suraksha Seema BalParamilitary Force), Govt. of India	Memento & Certificate
12.	IAAVR APPRECIATION CERTIFICATE	Dr. Ravi Dutt, Assistant Professor, Deptt of Gyanecology & Obstetrics, College of Veterinary Science, Hisar (Haryana)	Memento & Certificate
13,	DISTINGUISHED VETERINARIAN AWARD	Prof. N.H. Kelawala, Vice-Chancellor, Kamdhenu University, Anand (Gujarat)	Memento, Certificate & Rs. 10,000/

10. Brief Contents of Congress Content's

The scientific programme is tailored to provide the most recent developments for all modalities of Animal Science and role of veterinarians to tackle AMR and other heath issues through One Health approach.

Industry Partners and Scientist should work at Fatser Rate to address the challenges and to deliver says Chief Guest, Dr. B. N. Tripathi Deputy Director General (Animal Science), ICAR

Dr. B. N. Tripathi addressed the delegates and conveyed on behalf of ICAR Greetings. He expressed that India is transforming. What is our contribution , where do we stand today, what are challenges and demands problems. If we look to the year 1950, there was 36 crore human population whereas we do have at present 136 crore human population in India close to China. Land is not increasing and water id decreasing. Demand for animal protein increasing. There is per capita availability of eggs and meat is less as per prescribed per capita availability. There is 536 million

animal population in India to be managed. All this pose challenges to veterinary and animals. There are scopes and opportunities. We look to progress made in the last 70 years, India has increased from 70 million to 210 million milk and producing 23% of milk in the world. The target is to further go to 648 million by 2037 having share of 45% in the world. The people can not wait. Scientists and industry is to deliver. The 45 crore animals have been tagged called "Pashu Aadhaar Card", people appreciate through out the world. The example is COVID where from now from 1 lab to 3000 labs, 200 crore vaccination, development of diagnostics and vaccines. Diseases are coming on forefront. 70% emerging disease have originated from animals. Emergence of disease is frequent now as we have faced avian influenza, SAARs, MARS, equine and swine influenza, Rota virus and COVID-19. Influenza and Rota viruses are very dangerous. A small virus has crippled entire world. Many countries could not be able to come out. It could be possible because of resilient and system. This our achievement. Industry should know first hand information and they should see how fast technology transferred to them go to field. He suggested industry should be partner from the beginning in the development of technology which will be ideal. Due to all these changing scenario, the subject of One Health being discussed. He mentioned how the BCG vaccine was developed by Calmette who was a microbiologist and Gurein a Veterinary Microbiologist. A veterinary graduate in India has to study Veterinary Public Health subject whereas Medical graduate may not be well aware of these diseases. So both veterinary and medical scientists should work together. One Health would not mean to generate infrastructure but One Health Concept means multisectorial coordination. The On Health Concept embraces three components namely Climate change, AMR and Zoonoses. AMR is not an easy task. We are using 3% antimicrobials while Chaina about 43% antimicrobials. Veterinarians are blamed that they are responsible for AMR. A guidance document for veterinarians is need as to how to use antimicrobials. Awareness and knowledge should be created among veterinarians, farmers and others. We need a mechanism to place a surveillance data. He pointed out the amount of antimicrobials consumed during COVID put an extra burden on AMR. He put example of Lumpy Skin Disease (LSD)Virus as to how much antimicrobials were consumed. About 30 lakhs animals were affected in India by LSD and about 1.5 lakhs animals died. Lot of antiviral drugs were taken and this also accounts for burden on AMR. He mentioned that Department of Animal Husbandry and Darying, Ministry of Fisheries, Animal Husbandry and Diarying, Govt of India has undertaken control programme on Foot and Mouth

Disease, PPR, Classical Swine Fever and Brucellosis. We do isolation, PCR, RT-PCR or sequencing but these have not served the purpose. According to Dr. Tripathi who flagged two major diseases in India viz: LSD and African Swine Fever (ASF) is so complex virus and its pathogenesis. There is now a vaccine for LSD but for the ASF we have to work for a vaccine however so far there is no vaccine. With the changing pattern of disease, policy is to be changed. He stressed about Biosecruity mechanism enabling how quickly the disease is finished. He desired when there are several platforms have come up for COVID vaccine, why not for animal diseases. The country has got a fool proof system not to allow import of any disease but inspite of this fact we come across diseases. Here is challenge before virologists, microbiologists and technocrats' to pave way to develop a vaccine quickly.

Farmers and their families be protected from zoontic diseases says Shri Meenesh C Shah, Chairman NDDB

Shr Meenesh Shah, Chairman, National Dairy Development Board (NDDB), Anand while appreciating the key role played by NDDB in making country self-sufficient in milk said milk is the largest single agricultural output. Eight crore families derive their income from livestock and animal husbandry. We have small holding farming system in the country. 70% rural population lives in close contact with their animals and are thus liable to be exposed to zoonotic diseases. Zoonoses in India is of public health concern which is compounded by various environmental, social and economical factors. It is imperative that health of farmers for those who are in close contact with their animals are protected. Shi Shah said NDDB is working on One Health disease control model for brucellosis and mastitis. NDDB's INAPH software is being used for performance recording. NDDB is also promoting alternatives using Aryuvedic formulations and Ethnoveterinary Medicine to reduce antibiotic usage to help to tackle AMR. NDDB has got about 30 such formulations and 80-85% cases mastitis have been treated without antibiotics. Mr. Shah appreciated that deliberations intended under One Health in this congress is a timely step.

Digitization in Livestock Sector is need of time says Dr. S.N. Singh, President, IAAVR

Dr. S. N. Singh, President, IAAVR expressed his views that socio-economic transformation in villages can happen with the help of veterinary science. He referred examples of rural development programme through out India contributed by Bharatiya Agro Industries Foundation (BAIF). The Prime Minister of India has also desired doubling farmer's income and in this context it is the veterinary science which will do the job. Govt of India has taken several programmes in the livestock sector and animal husbandry including digitization which should reach to farmer's community. Dr. Singh appealed young IT veterinarians to take proactive role. Govt of India is also promoting Natural Farm Systems.

Antimicrobial Resistance (AMR)-A major Threat to Global Health says Dr. N. H. Kelawala, Vice Chancellor, Kamdhenu University

AMR is a major threat to global health and the world economy and poses a unique challenge to humanity. Millions of people in G20 countries are infected each year with microbes who may be susceptible to drug resistance. Dr. Kelawala urged that regardless of economic situation, the countries may face disastrous consequences if the spread of antibiotic consumption is not contained. He further opined that there is need of cross-sectoral efforts under the "One Health" framework, acknowledging that the health of humans, animals and ecosystems are interconnected. He appreciated the linkage of IAAVR with FAVA to organize such an important Congress at Kamdhneu University.

Conventional tests should lost vitality in laboratories in the Quagmire of advancements in Molcular sequencing said Dr. Rishendra Verma, Founder Secretary, IAAVR

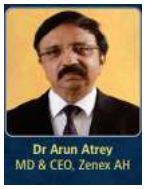
Dr. Rishendra Verma, Founder Secretary, IAAVR flagged national issue of veterinarians in India like parity and disparity regarding payment of non practicing allowance, recruitment, complexity in governance to satisfy UGC, ICAR, VCI and State Govenment rules and

University Statutes. Dr. Verma referred the ideal thoughts of Dr. Himanshu Pathak, Secretary Deptt of Agricultural Research and Education that the concept of "One Scientist One Product One Service" is an excellent idea. The product will include publications, developing new variety, new strain, technology. The rating of journals has become a rider for recruitment. Earlier, the recruitment was qualitative and there is need to compare how the old which may be "Gold" proved of no use to the present numerical score card system. Dr. Verma expressed One Health is more of theoretical nature as there is no visible collaboration of both medical and veterinary scientists under one umbrella. There are Memorandum of Agreements like MoU among Ayush, CSIR and ICAR as inter ministerial cooperation for the promotion of and facilitation of R & D, validation and deployment of Agri technologies related to medicinal plants and their value added products for benefits and human plants and animals.

Dr. Verma reminded it was only IAAVR in India who sought Associate Membership with World Veterinary Association in the year 2004. Late IAAVR paid subscription as a Constituent Member of WVA but later stopped subscription. IAAVR has become full member of FAVA since 2018 and we all should feel pride for having on the globe through FAVA. The IAAVR gratefully acknowledges the financial support extended to IAAVR for this Congress focused on One Health.

Veterinary use of Antibiotics vis-à-vis emergence of AMR -Indian Animal Healthcare Industry (INFAH) Perspective

INFAH Therapeutic Sub-committee
Chairman: Dr Arun Atrey, Past President INFAH, MD &CEO- Zenex Animal Health Members: Dr Nitin Bhatia, Intas Animal Health; Dr D J Kalita, Zenex AH; Dr Ram Prakash, Virbac; Dr Smita Mahajan, Zoetis; Dr Mubeen Patel, Vetoquinol



With the largest livestock population of the world (536 plus million heads) India's livestock sector is evolving in response to rapid increase in demand for animal produce and the demand for livestock products. Government of India has also undertaken many initiatives with increased financial budget for the growth of the sector. A major factor in profitable livestock production in India is aimed to reduce the burden of infectious diseases. This has made the use of antimicrobials for treatment of sick animals indispensable. In India a wide range of antibiotics are available in the veterinary practice viz. Penicillin, Semisynthetic penicillin like Ampicillin,

Amoxycillin, Aminoglycosides like Streptomycin, Gentamicin, Neomycin; Tetracycline, Kanamycin, Erythromycin; Fluoroquinolones like Enrofloxacin, Norfloxacin, Ciprofloxacin, Levofloxacin, Marbofloxacin; 1st, 2nd and 3rd generation Cephalosporins - Cephalexin, Cefrtiaxone, Cefoperazone, Ceftiofur, Cefoquinome etc. Most of the antibiotics are common for both human and veterinary use. It is contended that indiscriminate use of such antibiotics may increase possibilities of spread of resistant bacteria in both human and animals. According to the World Organisation for Animal Health (OIE), tetracyclines and penicillins represent about 55% of global animal antibiotic use, and neither of these classes are on the WHO list of highest priority critically important antimicrobials for humans. Furthermore, WOAH does not include 'animal only' antibiotics in their measurements. These are antibiotics that are only authorized for use in animals and not considered contributors to human AMR (HFA).

AMR concerns

Drug selection pressure is the single most important factor in the evolution of drug resistance in bacteria. The factors that influence the spread of resistance can be ecological, epidemiological, cultural, social, and economic. *Many a times, over-use of antibiotics in animal husbandry is presumed to drive in emergence of drug resistant bacteria, which in fact is not true.* In general, the effect of antibiotic residues in meat, eggs and milk are insignificant when compared with the issue of selection and amplification of antibiotic resistant strains of bacteria. Besides, antibiotics used for treating livestock carry statutory withdrawal period stating the minimum amount of time to lapse after the treatment before meat, milk or eggs can enter the human food chain. Recently, Indian Federation of Animal Health Companies (INFAH) that represent ~ 85% of the Animal Health Industry of India compiled an estimated usage of antibiotics in organized Animal healthcare for the year 2020 and 2021 and submitted to the Department of Animal Husbandry & Dairying (DAHD), Ministry of Fisheries, Dairying and Animal Husbandry, Govt of India. The estimated data on antibiotic usage in 2020 and 2021 were 912 MT and 963 MT respectively. There is no systematic, comprehensive data on the prevalence of AMR infections in livestock. Therefore, it would only be hearsay to what extent the presence of AMR in agriculture systems is due to veterinary use of antimicrobials. 'One Health' approach appears to be the most appropriate, the concept turns to a movement now. However there is a need to bridge the gap of collaboration of different sections- biomedical, animal health, aquaculture, agriculture, environmental science and the social science. INFAH fully

acknowledge the concerns for responsible and prudent use of antibiotics for animal welfare and protection as well as management of infectious diseases ensuring that the foods from our animals are safe and healthy for humans. INFAH advocates to follow the best practices so the problem of antibiotic resistance is at its minimal for animals and human beings.

Anti-Microbial Resistance (AMR) and its Relevance to India - The Animal Healthcare Perspective

Nitin Bhatia, Amanjot Singh, Krishna Kanta Baruah and Radha Krishan Mishra
INTAS Animal Health
INTAS Pharmaceuticals Limited, INTAS Corporate Office, Near Sola Bridge, SG Highway, Thaltej, Ahmedabad-380054, Gujarat, India

The livestock sector currently contributes 40% of the global value of agricultural output and supports the livelihood and food security for the growing population. Animal source foods would be a major growth drivers for increased consumption of growing population and emerging middle class globally and *esp* in India where both the population and middle class is expanding. India is home to 56.7 percent of the world's buffaloes, 12.5 percent of the world's cattle, 20.4 percent of world's small ruminant population, 1.5 percent of pigs and 3.1 percent of poultry. The '**2nd National Action Plan on Antimicro bial Resistance (NAP-AMR)**' from Ministry of Health & Family Welfare focuses on AMR in humans and raised the concerns of growing resistance to antimicrobial resistance in humans. As per 2016 report entitled '**Antibiotic Use and Resistance in Food Animals-Current Policy and Recommendations**' from Center for Diseases Dynamics, Economics & Policy (CDDEP), (Washington, DC), India currently accounts for 3% of the global livestock antimicrobial consumption and harbor's more than 11% of the world food animal population. By 2030, this consumption would be 4% considering the animal population and antibiotics. Now considering that the country is blessed with a significant proportion of global livestock population (more than 11%) is it not mandatory that we take care of them as they are our food providers. 3-4% of worlds antibiotic consumption is a must for the healthy and secure life of these animals and ourselves; whilst the need is to strike a balance between the benefits and risk of using antibiotics in the food supply chain. While on the contrary, the human antibiotic usage data articulates that India harbors 17% of the world human population and advocates 22% of the

world antibiotic medication. As per available scientific data, considering the dosage of antibiotics in kilograms or pounds, human physicians advocate 10 times the amount of antibiotic to humans compared to the same used in food animal production. A lot of debate is on regarding transfer of resistance from animals to human. The animal health drugs and antibiotics comply with all standard outlined in D & C Act, approved by Drug Controller General of India (DCGI, CDSCO). In fact, all products have a notified withdrawal period on all packs as per Gazette Notification 899 (E) dated 27th December' 2011 and amendment to Drugs and Cosmetics Act, 1940. Above all the antibiotics used for Veterinary are notified under schedule H or H_1 category and sold on prescriptions. It is much needed to educate the farmers on drug withdrawal periods and ensure its effective implementation for milk, meat and eggs.

Enteric Methane Emission Influence Climate Change: Mitigating Strategies Required says Dr. Raghvendra Bhatta

Dr. Raghvendra Bhatta, Director, ICAR-National Institute of Animal Nutrition & Physiology, Bangalore stated that India has about 13% and 53% of the global population of cattle and buffaloes, respectively (Govt of India, 20th Livestock Census) who are responsible for 4.92 and 2.91 Tg annual enteric methane emissions from the respective species. Database developed at his NIANP institute showed an annual enteric emission of 9.253 Tg from Indian livestock. Dr. Bhatta urged practical strategies to reduce methane emission from the livestock in the country is urgently required. Among option to strategies, feeding and feed management appear favourable. He discussed some of ameliorative strategies. A desirable reduction of ~20% in the emission will be pivotal in improving livestock productivity through the utilization of saved energy. It will also help in making earth clean and green by curtailing the contribution of livestock to climate change. According to Dr. Bhatta, researchers in India may develop the season and region specific methane ameliorative measures. Lastly he suggested that practicably feasible and low inputs demanding ameliorative strategies including biological control may be immediately be taken up in the hotspots of methane emission. He also expressed there is no difference in cattle and buffalo in respect of methane emission.

WEBINAR ON STANDRAD MICROBIAL CULTURES AND THEIR USE IN R & D AND MANUFACTURING OF VETERINARY BIOLOGICALS IN INDIA

Dr. Rishendra Verma highlighted with the background of supply of cultures from ICAR-Indian Veterinary Research Institute (IVRI), Izatnagar for manufacturing of veterinary vaccines, diagnostics as well as for R & D instituions. It was pointed that the cultureswere maintained after their use in standradization and quality control of vaccines and diagnostics. There has not been research on these cultures except these were maintained once found effective in providing protection after vaccination.Now with the passage of time over period of years, the Central Drugs Standard and Control Organization (CDSCO), Drugs Controller General (India) and agency like USDA, in adiition to emperical, molecular information like gene signature of cultures is needed. In India, there are three important organizations e.g. ICAR-National Bureau of Agriculturally Important Organisms, ICAR-National Veterinary Type Culture Collection Centre, Hisar, Division of Biological Standradization, IVRI, Izatnagar and CSIR-Mircobial Type Culture Collection, Institute of Microbial Technology, Chandigarh (Punjab) Now the regulatory authorities desire more detailed characterization of cultures (bacteria, virus, parasite). There are specaialized cultures like Leptospira, Mycobacteria, Mycoplasma, Chylamidia, Rickettsia and so on. There is need for decision about deposition of cultures isolated in different veterinary colleges and veterinary instituions. Dr. also mentioned that neither there is a policy, terms and conditions, agreements towards supply of cultures from different agencies, nor there exists association of Type Culture Collection Centres. Dr. Verma finally informed that he had a discussion with Animal Husbandry Commissioner to utilize this prelimary for a full fledged discussion to develop a policy for harmonization of cultures used for vaccines and diagnostics in view of emerging diseases both in human (COVID-19) and animals (African swine fever). Directives on import and export of cultures in India need to streamlined.

Microbial Type Culture Collection and Gene Bank (MTCC) An International Depository Authority (IDA)

Dr. Suresh Kolpole, Principl Scientist & Head, MTCC

MTCC, a national facility serving the National since1986 ex-situ conservation of microbial diversity. Its vision is to be the pioneering microbial resource centre

providing state of facilities in microbiology and with a mission to conserve and harness the potential of mircobial resource. He pointed out that what is strain? A strain is well characterized and different within species. Reference strain is used by commercial pruposes which is subject to a number of tests to quality quality of thr product. In comparison to countries like ATCC (USA), EACC (UK), KCTC (Korea), DSMI (Germany), JPOD (Japan), CCTCC (China) who have got large biodiversity material like algae, protozoa, have large biodiversity, viruses, seeds, plant cells, embryos, in India we do have small biodiversity material only microorganism cultures and some plasmids. There are now three culture collection centres member of IDA e.g. National CC), Mau. MTC render services for cultures supply, identification and sponsored activities, such MTCC is equipped with ribosomal, biochemical, gene sequencing, metabolic profile based identification services and high and freeze drying machines. Dr. Korpole mentioned that restriction to obtain permission to send wild or other cultures for commercial purpose into foreign country by National Biodiversity Act need to be revisited. There are biodiversity programmes like Biosphere, National Park, Sanctuaries and even heritage is taken care off but there is limited mention about cultures collection. We are importing vectors and expression vectors. He also mentioned that there are now cultures found 100% similar to cultures of ATCC and hence these are now referred as MTCC cultures to be used as per Indian Pharmacopeia. Importing a culture cost heavy funds while cultures equivalent to ATCC obtained from MTCC will cost less than half of the cost, would be economical. Lastly, Dr. Korpole suggested to have a separate detailed and wider deliberation on Type Culture Collection Centres in India.

11. Conclusion of the Congress

The researchers pan India participated in the Congress to deliberate issues related to the antimicrobial drug resistance and food safety along with other allied aspects related to veterinary and animal sciences with major focus on the below mentioned points which will help stakeholders in following ways:

1. The field veterinarian working in state animal husbandry department as well as mobile veterinary dispensaries will be benefited from the recent advances in the field of veterinary

practice.

2. Research efforts need to be made on developing small dose packs for vaccines, thermotolerant vaccines, multiple disease vaccines.
3. Better collaboration with industry persons will lead to amalgamation of new ideas in field of veterinary entrepreneurship. It will lead to the exploration of new avenues for income generation among the farmers.
4. The symposium will promote the "One Health" concept among the rural stake holders for enhancing the animal welfare and environment sustainability by organizing camps through extension education.
5. The distribution FAVA Strategy Booklet and IAAVR One Health News Letter-2023 will create interest and awareness among delegates to align with global subject of “One Health”.
6. More expansion and financial funding of programmes on One Health by way of meetings, seminars, conferences, joint venture, collaborative projects and legislation on use of drugs and their MRLs shall endure control on AMR and spread of pandemic infections in future also.
7. The recommendations of the Congress to be circulated among all concerned Govt of India agencies, Councils and State Govt, Universities and Institution along with soft copy on the IAAVR website will provide inputs for developing suitable animal and public health policies which will help to make the better and extension activities for the farmers.

12. Outcomes: Demographic of the event, report of attendee, number, gender, benefits

Demographic of the event

The audience consisted of young students, young and budding scientists, senior faculty and lead speakers with higher education and experience from different states of India.

Benefits: Activity Help in the Promotion of Science

The researchers pan India will be participating in the conference to address the issues related to the antimicrobial drug resistance and food safety under this conference along with other allied aspects related to veterinary and animal sciences related issues listed below. The field veterinarian working in state animal husbandry department as well as mobile veterinary dispensaries will be benefited from the recent advances in the field of veterinary practice. Better collaboration with industry persons will lead to amalgamation of new ideas in field of veterinary entrepreneurship. It will lead to the exploration of new avenues for income generation among the farmers.

Report of attendee-APPENDIX-II

Number	220
Gender	
Male	174
Female	46

The symposium will promote the "One Health" concept among the rural stake holders for enhancing the animal welfare and environment sustainability.

Benefits- The recommendations of the symposium will provide inputs for developing suitable animal and public health policies which will help to make the better and extension activities for the farmers.

13. Evaluation, suggestions and comments

Evaluation: The feedback from two delegates was taken during the valedictory function. There is a system of self evaluation followed which include monitoring that all scientific sessions and poster session are going actively and properly with presence of audience. All the sessions and well designed and organized programme was successful with flying colours.

Suggestions: The funding is one of the constraint in inviting potential and learned speakers from India and abroad. Many speakers desire waiver of their registration fee. Youngsters PG students and researchers should be more attracted and groomed through such Congress or events to make them future leader and good scientists.

Comments-The researchers pan India participated in the Congress to address the issues related to the antimicrobial drug resistance and food safety under this conference along with other allied aspects related to veterinary and animal sciences with major focus on the points which will benefit stakeholders in following ways

1. The field veterinarian working in state animal husbandry department as well as mobile veterinary dispensaries will be benefited from the recent advances in the field of veterinary practice.
2. Better collaboration with industry persons will lead to amalgamation of new ideas in field of veterinary entrepreneurship.
3. It will lead to the exploration of new avenues for income generation among the farmers.

4. The symposium will promote the "One Health" concept among the rural stake holders for enhancing the animal welfare and environment sustainability.
5. The recommendations of the symposium will provide inputs for developing suitable animal and public health policies which will help to make the better and extension activities for the farmers.

14. Photo, poster and the Media

RELEASE OF ONE HEALTH NEWS LETTER

L to R: Dr. J.B. Nayak, Dr. P.H. Tank, Dr. D.B. Patil, Mr. Meensh C Shah, Dr. N.H. Kelawala, Dr. B.N. Tripathi, Dr. S.N. Singh, Dr. Rishendra Verma, Dr. R.K. Bagherwal

RELEASE OF FAVA STRATEGY BOOKLET

L to R: Dr. J.B. Nayak, Dr. P.H. Tank, Dr. D.B. Patil, Mr. Meensh C Shah, Dr. N.H. Kelawala, Dr. B.N. Tripathi, Dr. S.N. Singh, Dr. Rishendra Verma, Dr. R.K. Bagherwal

IAAVR FELLOWSHIP & IAAVR AWARDS

Dr. B. N. Tripathi, Deputy Director General (Animal Science), ICAR

receiving IAAVR Fellowship

Dr. Deepali Deshpande, Manager, Central Semen Bank, Bhopal receiving Mrs Vimal Shrinivas Kshirsagar Lady Vet Memorial Award

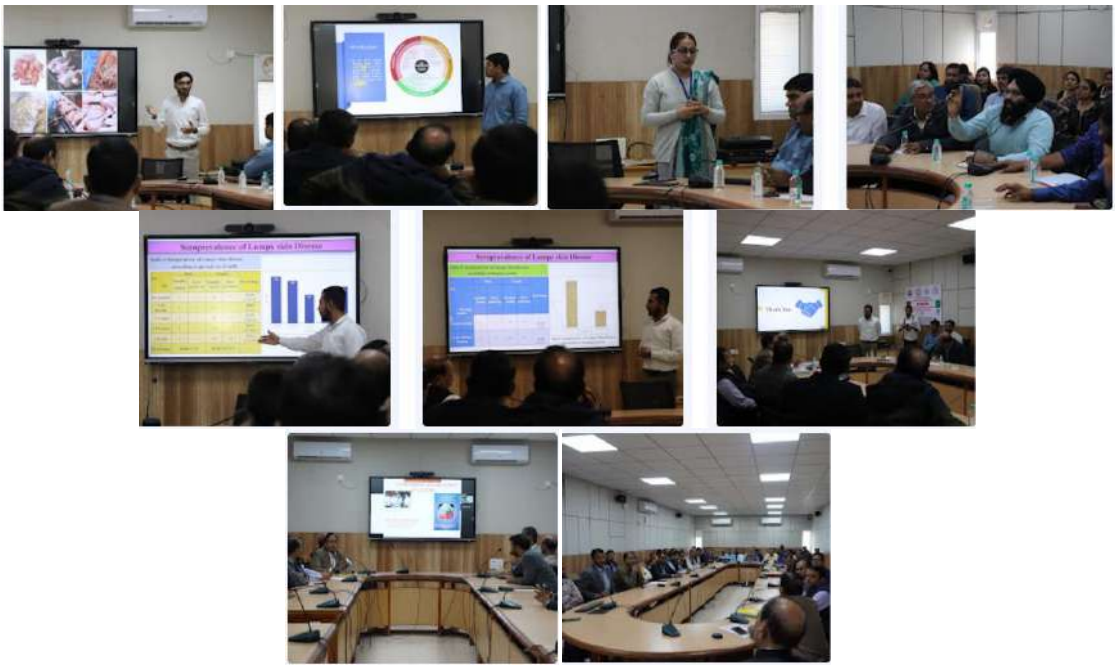
Dr. J. B. Nayak, Head, Deptt of Veterinary Public Health receiving Prof. Ram Raksha (EX-FAO Consultant) Kiran Shukla Award

Dr. Rakesh Kumar Singh, Dy. Chief Veterinary Officer receiving IAAVR Field Vet. Award

Dr. Sushant Parker, Second-in-Command, Seema Suraksha Bal (Paramilitary Force) receiving G.V. Narayankhedar Award in Animal Husbandry

Dr. N. H. Kelawala, Vice Chancellor, Kamdhenu University receiving
Distinguished Veterinary Award sponsored by INTAS Pharmaceuticals Ltd

SCIENTIFIC SESSIONS IN PROGRESS



Session on Standard Cultures and Supply

EVENING CULTURAL PROGRAMME

Delegates enjoying Cultural Programme

MEDIA

INDUSTRY & INSUTION STALLS

માર્ગદર્શન | આણંદ કામધેનુ યુનિવર્સિટી ખાતે રાષ્ટ્રીય કક્ષાનો સેમિનાર

માવઠું થતાં પશુ બિમાર થવાની શકયતા, તકેદારી રાખવી જરૂરી

સાર સંભાળની આધુનિક તકનિકો અંગેની માહિતી અપાઇ

ભાસ્કર ન્યૂઝ | આણંદ

પશુચિકિત્સા અને પશુપાલન મહાવિદ્યાલય, કામધેનુ યુનિવર્સિટી આણંદના વેટેરીનરી પબ્લિક હેલ્થ અને એપીડેમિયોલોજી વિભાગ દ્વારા એડવાન્સિસ ઈન ટેકલીંગ એન્ટીમાઈક્રોબીયલ રેઝીસ્ટન્સ એન્ડ એન્સ્યોરીંગ ફુડ સેફટી અન્ડર વન હેલ્થ પરસ્પેક્ટીવ વિષયક રાષ્ટ્રીય કક્ષાનો સેમિનાર યોજાયો હતો. ત્યારે વાતાવરણમાં એકાએક માવઠુ થાય તેવા સંજોઓમાં પશુ બિમાર થઈ જાય તેમ હોવાથી પશુપાલકોએ તકેદારી રાખવી જોઈએ.

કામધેનુ યુનિવર્સિટીના કુલપતિ ડૉ. એન. એચ. કેલાવાલાના અધ્યક્ષસ્થાને યોજાયેલ આ સેમિનારમાં એન્ટીમાઈક્રોબીયલ રેઝીસ્ટન્સ, તેનાથી થતું આર્થિક નુકશાન અને તેને અટકાવવાના ઉપાયો, જોકે આબોહવામાં એકાએક માવઠુ પરિવર્તન થવાથી પશુઓ બિમાર થઈ જાય છે. તેમજ મરઘા પાલનમાં ઉદ્ભવતી સમસ્યાઓ ઉદ્ભવે છે. આવા સમયે પશુપાલકોએ પશુરોગ સારવાર તથા પશુ સારસંભાળની આધુનિક તકનિકો અંગેની માહિતી આપવામાં આવી હતી. તેમજ આ સેમિનાર દરમિયાન દેશના અલગ અલગ રાજ્યોના સંશોધકોને પુરસ્કારોથી સન્માનિત કરવામાં આવ્યા હતા.આ પ્રસંગે ભારતીય કૃષિ અનુસંધાન કેન્દ્રના ડેપ્યુટી ડાયરેક્ટર જનરલ ડૉ. બી. એન. ત્રિપાઠી, રાષ્ટ્રીય ડેરી વિકાસ બોર્ડના ચેરમેન મીનેશ શાહ, કામધેનુ યુનિવર્સિટીના સંશોધન નિયામક ડૉ. ડી. બી. પાટિલ, આણંદ વેટેરીનરી કોલેજના ડીન અને આચાર્ય ડૉ. પી. એચ. ટાંક તેમજ ગુજરાત અને અન્ય રાજ્યોમાંથી આવેલ સંશોધકો, પ્રાધ્યાપકો, પશુચિકિત્સા અધિકારીઓ તથા વિદ્યાર્થીઓ ઉપસ્થિત રહ્યા હતા. હાલમાં બેડવી ઋતુ સહિત વાદળછાયુ વાતાવરણ રહેતા પશુઓ પણ વિવિધ બિમારીઓનો ભોગ બની રહ્યા છે. ત્યારે પશુઓને બીમારીથી બચાવવા માટે જરૂરી માર્ગદર્શન આપવામાં આવ્યું હતું.

APPENDIX-I

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APPENDIX-II




23rd Indian Veterinary Congress & 30th Annual Conference of IAAVR &

National Symposium

on

"Advances in Tackling Antimicrobial Resistance and Ensuring Food Safety Under One Health Perspective"

Full name (in capital) : Dr. GAURI ARVIND CHANDRATRE

Designation : DISEASE INVESTIGATION OFFICER

Gender : F

Address : Pashu Vigyan Kendra Sonipat, LUVAS Haryana.

Email : chandratre.gauri@gmail.com

Phone : 9468366343

If student, course enrolled : B. V. Sc & A.H. ___ M. V. Sc ___ Ph. D. ___

University/Organization Affiliation : Lala Lajpat Rai University of Veterinary & Animal Sciences (LUVAS) Hisar

Transaction (Cash/UPI) : 4500/- UPI ID: 23431129.615

Departure Schedule (from 4th) : Train no 19034 / 12951 Train name Gujrat queen Exp MDLS Rajdhani Exp

Flight no ___

Time (in 24-hour format): 1830

Signature of delegate