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## **PROGRAMME OF ISAGB 2021: NATIONAL CONFERENCE**

*(Through hybrid mode; all timings in IST)*

**Date: 17.12.2021**

**TECHNICAL SESSION I: Current status of breeding strategies in native livestock and poultry genetic resources**

**Time: 12.15 PM-2.40 PM**

**Chairman: Dr. P Thangaraju**

**Co-chairman: Dr. B K Joshi & Dr. R S Gandhi**

**Rapporteur: Dr. Sabyasachi Mukherjee & Dr. Ashish Chopra**

S.No.	LEAD PRESENTATIONS	TITLE	Mode	TIME
1.	<b>Dr. Abhijit Mitra</b> (Abhijit.Mitra@icar.gov.in) Director, ICAR-CIRC, Meerut, Uttar Pradesh	Breeding for improving productivity of indigenous bovines	Online	12.15 PM
2.	<b>Dr. V.K. Saxena</b> (visheshmeeta@gmail.com) ADG (AP&B), ICAR, New Delhi	Breeding strategies and challenges in poultry genetic improvement	Offline	12.40 PM
3.	<b>Dr. Nilesh Nayee</b> (nileshn@nddb.coop) National Dairy Development Board, Gujarat	Genomic breeding strategies for cattle and buffaloes under small holder production system in India	Online	1.05 PM
	<b>ORAL PRESENTATIONS</b>	<b>TITLE</b>		<b>TIME</b>
1.	<b>Dr. F.D. Sheikh</b> (aizar22@gmail.com) Krishi Vigyan Kendra-Leh, SKUAST-K, Leh-UT, Ladakh	Production performance of Changthangi sheep of Ladakh under improved management system	Online	1.30 PM
2.	<b>Dr. Pallavi Rathi</b> (rathi.pallavi67@gmail.com) Lala Lajpat Rai University of Veterinary and Animal sciences, Hisar	Multivariate analysis of performance traits for predicting the egg production in indigenous Aseel chicken	Offline	1.40 PM
3.	<b>Dr. Nistha Yadav</b> (nisthayadav145@gmail.com) ICAR-National Dairy Research Institute, Karnal, Haryana	Bayesian using Gibbs sampling (Bugs) algorithm for life time traits in Sahiwal cattle	Online	1.50 PM
4.	<b>Dr. Vrinda Ambike</b> (vrindaambike@gmail.com) Madras Veterinary College, TANUVAS, Chennai, Tamil Nadu	Genetic evaluation for semen production traits in indigenous bulls using a bayesian framework	Online	2.00 PM
5.	<b>Dr. Sheikh Firdous Ahmad</b> (firdousa61@gmail.com) ICAR-Indian Veterinary Research Institute, Izatnagar, Uttar Pradesh	Bayesian analysis reveals influence of maternal effect on pre-weaning body weights in Landilly piglets	Offline	2.10 PM
6.	<b>Dr. Ashish Chopra</b> (ashishchopra1234@gmail.com) ICAR-CSWRI, Arid region campus, Bikaner, Rajasthan	Appraisal of Chokla flock reared in semi-arid and arid region of Rajasthan	Offline	2.20 PM
7.	<b>Dr. Ullengala Rajkumar</b> (ullengala@yahoo.com) ICAR-Directorate of Poultry Research, Hyderabad, Telangana	Characterization of Aseel chicken for reproduction, growth and production parameters up to 72 weeks of age	Online	2.30 PM

**LUNCH**  
**TIME: 2.40 PM-3.10 PM**



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**TECHNICAL SESSION II: Advancement in genomics and phenomics for native animal genetic resources**

**Time: 3.20 PM-5.40 PM**

**Chairman: Dr. M L Madan**

**Co-chairman: Dr. A K Rawat & Dr. Sachinandan De**

**Rapporteur: Dr. Indrajit Ganguly & Dr. Rani Alex**

S.No.	LEAD PRESENTATIONS	TITLE	Mode	TIME
1.	<b>Dr. Ben Hayes</b> (b.hayes@uq.edu.au) Centre Director, Animal Science, Centre for Animal Science, The University of Queensland, Australia	Strategies and scope of genomic selection in genetic improvement of dairy animals	Online	3.20 PM
2.	<b>Dr. Mehar Khatkar</b> (mehar.khatkar@sydney.edu.au) Faculty of Science, University of Sydney, Camden, Australia	Use of artificial intelligence in high-throughput phenomics for improved animal health, welfare and production	Online	3.45 PM
3.	<b>Dr. R.K Vijh</b> (rameshkvijh@gmail.com) Principal Scientist (Retd), ICAR-NBAGR and Nodal Officer, NBGC-IB	Genomic selection for productivity enhancement in indigenous cattle and buffalo breeds: Status and way forward	Offline	4.10 PM
4.	<b>Dr. James M Reecy</b> (jreecy@iastate.edu) Professor, Associate Vice President for Research, Department of Animal Science Iowa State University, USA	Genome to phenome for improving animal health and production	Online	4.35 PM

S.No.	ORAL PRESENTATIONS	TITLE	Mode	TIME
1.	<b>Dr. Ambreen Hamadani</b> (escritor005@gmail.com) SKUAST, Kashmir, India	Evaluation of artificial intelligence algorithms for bodyweight prediction in sheep	Online	5.00 PM
2.	<b>Dr. Santanu Banik</b> (santanubanic2000@yahoo.com) ICAR-National Research Center on Pig, Rani, Guwahati, Assam	Image-based identification of pig breeds using convolution neural network: An IT-based new dimension in breed recognition	Online	5.10 PM
3.	<b>Dr. Supriya Chhotaray</b> (supriya.chhotaray@gmail.com) ICAR-National Dairy Research Institute, Karnal, Haryana	GWAS unravels novel genes for lactation yield and persistency in Murrah buffalo	Offline	5.20 PM
4.	<b>Dr. Javid Ur Rahman</b> (faizeen763@gmail.com) GBPUAT, Pantnagar, Uttarakhand	Genome-wide association study of fat and protein content in milk of Badri cattle	Online	5.30 PM
5.	<b>Dr. Mohan M.</b> (mmalairaj461@gmail.com) ICAR-National Dairy Research Institute, Karnal, Haryana	Genomic footprints for milk and adaptability traits suggest more closeness of Indian zebu with Jersey instead of Holstein Friesian cattle	Online	5.40 PM
6.	<b>Dr. C. Jeevan</b> (drjeeegene@gmail.com) Tamil Nadu Veterinary and Animal Sciences University, Chennai	Prediction of post-thaw motility using multiple linear regression and machine learning approach in dairy studs	Online	5.50 PM
7.	<b>Dr. Indu Devi</b> (indu.devil@icar.gov.in) ICAR-National Dairy Research Institute, Karnal, Haryana	Can Bio-Acoustic features of vocal signals be used as possible indicator of age and semen quality in Sahiwal bulls?	Offline	6.00 PM

**General body meeting of ISAGB members: 6.00 PM - 7.00 PM**

**Cultural programme: 7.00 PM onwards**

**Dinner: 8.30 PM onwards**

**TECHNICAL SESSION III: Genetic diversity, population structure and selection signatures in indigenous livestock and poultry**

**Date: 18.12.2021**

**Time: 9.30 AM-12.00 Noon**

**Chairman: Dr. Arjava Sharma**

**Co-chairman: Dr. P.K. Rout & Dr. Anil Kumar**

**Rapporteur: Dr. Sanjeev Singh & Dr. S K Niranjan**

S.No.	LEAD PRESENTATIONS	TITLE	Mode	TIME
1.	<b>Dr. Manjit Panigrahi</b> (manjit707@gmail.com) Scientist (SS), ICAR-Indian Veterinary Research Institute, Izatnagar, Bareilly, Uttar Pradesh	Genomic landscape and selection signature of Indian cattle	Offline	9.30 AM
2.	<b>Dr. Indrajit Ganguly</b> (drindrajit@gmail.com) Principal Scientist, ICAR-NBAGR, Karnal, Haryana	Domestication and Y-chromosome genetic diversity of Indian native cattle ( <i>Bos indicus</i> )	Offline	9.55 AM
3.	<b>Dr. Marimuthu Swaminathan</b> (mswami@baif.org) Director, BAIF Development Research Foundation Pune, Maharashtra	Small SNP panel development for breed composition estimation in crossbred cattle	Online	10.20 AM
4.	<b>Dr. Amit Kumar</b> (vetamitchandan07@gmail.com) Senior Scientist, ICAR-Indian Veterinary Research Institute, Izatnagar, Bareilly, Uttar Pradesh	Genome wide association study for classical swine fever vaccine response traits in ANGR of pigs	Online	10.45 AM

S.No.	ORAL PRESENTATIONS	TITLE	Mode	TIME
1.	<b>Dr. Anuradha Bhardwaj</b> (anu15virgo@gmail.com) ICAR-National Research Centre on Equines, Hisar, Haryana	Genome-wide genetic diversity detection and population structure analysis in native horse breeds	Offline	11.10 AM
2.	<b>Dr. Shiv Kumar Tyagi</b> (shivtyagi632@gmail.com) ICAR-Indian Veterinary Research Institute, Izatnagar, Bareilly, UP	SNPs identification and phylogenetic analysis of buffalo breeds of India	Online	11.20 AM
3.	<b>Dr. Amod Kumar</b> (amodvet@gmail.com) ICAR-NBAGR, Karnal, Haryana	Whole genome analysis revealed genomic diversity and biological pathways associated with high altitude adaptation in Indian yaks	Offline	11.30 AM
4.	<b>Dr. Marykutty Thomas</b> (marykutty@kvasu.ac.in) Kerala Veterinary and Animal Sciences University, Kerala	The genomic architecture of inbreeding and linkage disequilibrium in goats farmed under small holder production system	Online	11.40 AM
5.	<b>Dr. Sonika Ahlawat</b> (sonika.ahlawat@gmail.com) ICAR-NBAGR, Karnal, Haryana	Mitochondrial DNA diversity identifies distinct maternal lineages in the old world camels	Offline	11.50 AM

**TEA BREAK  
TIME: 12 Noon-12.15 PM**



**Round Table on “Challenges and Opportunities in Implementation of Breeding Policies/Genetic Improvement Programs for Livestock and Poultry in India”**

**Chairman: Dr. S L Goswami & Dr. B Prakash**  
**Moderator: Dr. V.K. Saxena**  
**Rapporteur: Dr. A.K. Mishra & Dr Anupama Mukherjee**

**TIME: 12.15 PM-2.00 PM**

**PANELISTS**

Dr. Sudhanshu Pan, Professor & Head (Retd.), WBUAFSCE	Dr. Archana Verma, Principal Scientist & Head, NDRI	Dr. S.P. Dixit, Principal Scientist, NBAGR
Dr. DK Sadana, Principal Scientist (Retd.), NBAGR	Dr. Bharat Bhushan, Principal Scientist & Head, IVRI	Dr. A.K. Thiruvankadan, Professor & Head, VCRI
Dr. P.K. Singh, Principal Scientist (Retd.), NBAGR	Dr. G K Gaur, Principal Scientist, IVRI	Dr. S.C. Mehta, Principal Scientist, NRC-E
Dr. Vineet Bhasin, Principal Scientist (Retd.), ICAR	Dr. R. K. Pundir, Principal Scientist, NBAGR	Dr. Pawan Singh, Incharge ABRC, NDRI
Dr. M.S. Tantia, Principal Scientist & Head, NBAGR	Dr. R. Vinoo, Professor & Head, NTR College of Vet Sci	Dr. Santanu Banik, Principal Scientist
Dr. Umesh Singh, Principal Scientist, CIRC	Dr. P. Kumarasamy, Professor & Head, TANUVAS	Dr. Vikas Vohra, Principal Scientist, NDRI
Dr. A.K. Patel, Principal Scientist, CAZRI		

**LUNCH**  
**TIME: 2.00 PM-2.40 PM**



**TECHNICAL SESSION IV: Functional genomics for trait specific characterization and value addition in livestock and poultry**

**Time: 2.45 PM-5.20 PM**

**Chairman: Dr. T.J. Rasool**  
**Co-chairman: Dr. T.K. Datta & Dr. A.K. Mohanty**  
**Rapporteur: Dr. R.S. Kataria & Dr. Sudarshan Kumar**

S.No.	ORAL PRESENTATIONS	TITLE	Mode	TIME
1.	<b>Dr. Ankita Gurao</b> (agurao32@gmail.com) ICAR-NBAGR, Karnal, Haryana	Epigenomic analysis of 'Walled-Eye' characteristics in Nili-Ravi buffalo	Offline	2.45 PM
2.	<b>Dr. Sudarshan Kumar</b> (kumarsudershan@gmail.com) ICAR-National Dairy Research Institute, Karnal, Haryana	Peptidomic insight in urine reveals treasure of bioactive properties	Offline	2.55 PM
3.	<b>Dr. G. Sushma</b> (gaddipatisushma1@gmail.com) ICAR-Directorate of Poultry Research, Rajendranagar, Hyderabad	Silencing Acetyl-CoA carboxylase beta (ACACB) gene reduces cholesterol synthesis in knockdown chicken myoblast cells in vitro	Online	3.05 PM
4.	<b>Dr. Naveen Swaroop Murikipudi</b> (mnaswp@gmail.com) ICAR-Central Institute for research on buffaloes, Haryana	Prognostic blood miRNA during estrous cycle of buffalo	Online	3.15 PM
5.	<b>Dr. Dhruva Malakar</b> (dhrubamalakar@gmail.com) ICAR-National Dairy Research Institute, Karnal, Haryana	CRISPR/Cas9 mediated knocking of human erythropoietin gene into mammary epithelial cell line of goat	Offline	3.25 PM
6.	<b>Dr. Inderpal Singh</b> (ipsinghbijral@gmail.com) ICAR-NBAGR, Karnal, Haryana	Evaluating the therapeutic potential of bovine lactoferrin peptides against SARS-CoV2 infection using computational approaches	Online	3.35 PM

	*LEAD PRESENTATIONS	TITLE	TIME
1.	<b>Dr. Suneel Kumar Onteru</b> (suneelvet@gmail.com) Senior Scientist, ICAR-NDRI, Karnal, Haryana, India	Prospective of functional markers for postpartum anestrus in Murrah buffaloes	Online 4.00 PM
2.	<b>Dr. Massimo Bionaz</b> (Massimo.Bionaz@oregonstate.edu) Associate Professor, College of Agricultural Sciences Oregon State University, USA	Nutrigenomics in dairy cattle - Concept and Application	Offline 4.25 PM
3.	<b>Dr. Bhanu P Telgu</b> (btelugu@umd.edu) Associate Professor Department of Animal and Avian Sciences, University of Maryland, USA	Scope of genome editing in dairy animals for improved performance: A realistic goal from Indian context	Online 4.50 PM

**\*To adjust time zone of international speakers**

**PLENARY/VALEDICTORY FUNCTION**  
**& AWARD CEREMONY**  
**Time: 5.00 PM-6.00 PM**