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Report on 39th Annual Convention of The Indian Society for Study of Animal Reproduction (ISSAR) and National Symposium on “Challenges in Enhancing Reproductive Efficiency of Livestock: An Indian Perspective”

November 29th to December 1st, 2024

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Inaugural Function:

The 39th Annual Convention of the Indian Society for the Study of Animal Reproduction (ISSAR) and the National Symposium on “Challenges in Enhancing Reproductive Efficiency of Livestock: An Indian Perspective” was inaugurated on November 29th at 9.30am at Pal Auditorium, Punjab Agricultural University, Ludhiana, the parent university of Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana. The Chairman of Convention, Dr. Sarvpreet Singh Ghuman, Dean, College of Veterinary Science (Ludhiana) and Organizing Secretary of ISSARCON-2024 and Principal Scientist-cum Head, Department of Veterinary Gynaecology and Obstetrics, Dr. Mrigank Honparkhe, welcomed the gathering and guests of the function. Dr. Jatinder Paul Singh Gill,

Worthy Vice Chancellor, the chief guest of the function inaugurated the convention along with Dr. Gursharanjit Singh Bedi, Director of Animal Husbandry, Punjab, who graced the occasion as the Guest of Honour. The inaugural session set the tone for the three-day event, which promised to be a significant platform for knowledge exchange and collaboration in the field of animal reproduction. The function was presided over by Dr. Shiv Prasad, President, ISSAR and the report of society was presented by DR. M. Selvaraju, General Secretary of ISSAR. Dr. Gill highlighted the contribution of the university in uplifting the livestock sector and shared that the symposium shall play a crucial role in fostering collaboration among veterinarians, researchers, and industry professionals to address the challenges in enhancing reproductive efficiency in livestock. He emphasized the need to provide practical solutions that can help in improving livestock reproduction, health and productivity. The president of ISSAR, Dr. Shiv Prasad, highlighted the role of reproductive scientists in the development of health and wealth. Dr. M. Selvaraju, General Secretary, shared the contribution of the society in improving reproductive health of livestock. The compendium of the lead papers and scientific abstracts was released by the dignitaries during the inaugural function. Dr. Mrigank Honparkhe, Organizing Secretary of the event informed that a total of 416 registrations were done by professionals, Academicians, Research Scientists, Field Veterinarians, Post graduate students, retired vets and personnel from industry. A total of 379 scientists abstracts were received for the convention. Various awards of the society as announced by Dr. M. Selvaraju, General Secretary of the society were conferred upon to various stalwarts and scientists during the inaugural function. The details of the awards are as below:



1. **ISSAR Life Time Achievement Award 2024:** Dr. G. R. Pangaonkar, PhD (Retired Professor & Head), Veterinary Gynaecology & Obstetrics, PAU, Ludhiana.
2. **ISSAR Fellowship Award 2024:**
 - Dr. R. Anil Kumar, PhD
 - Dr. C.T. Khasatiya, PhD
 - Dr. K. Murugavel, PhD
3. **Dr. G.B. Singh Memorial Award 2024:** For the Research Paper entitled “Different effects of sugars and methods to preserve post-thaw functional properties of cryopreserved Caprine spermatogonial stem cells” to
 - Dr. Saleema Ahmedi Quadri
 - Dr. Shiva Pratap Singh
 - Dr. Suresh Dinkar Kharche
 - Dr. Juhi Pathak
 - Dr. Atul Saxena
 - Dr. Yogesh Kumar Soni
 - Dr. Dilip Swain
4. **Prof. Nils Lagerlof Memorial Award 2024:** For the Research Paper entitled “Etiology behind canine uterine inertia: Role of uterine expression of MLCK4, MYH2, and PKC genes” to
 - Dr. Magnus Paul K.
 - Dr. Jayakumar C.
 - Dr. Naicy Thomas
 - Dr. Lali F. Anand
 - Dr. Hiron M. Harshan
 - Dr. Abhilash R.S.
 - Dr. Ajithkumar S.
5. **Dr. R.D. Sharma Award 2024:** For the Research Paper entitled “Additional intracervical prostaglandin reduces induction to calving time in buffaloes affected with incomplete cervical dilatation post-uterine detorsion” to
 - Dr. Ankit Ahuja
 - Dr. Mrigank Honparkhe
 - Dr. Ajeet Kumar
 - Dr. Amarjeet Bisla
 - Dr. Pankaj Sood
6. **Dr. N.C. Sharma Award 2024:** For the Research Paper entitled “CASA based assessment of Kan-gayam bull semen processed with different extenders and conception rate following AI” to
 - Dr. Krishnamoorthy Elamurugan
 - Dr. Mani Selvaraju
 - Dr. Rayappan Ezakial Napoleon
 - Dr. Ravichandran Ruthrakumar
 - Dr. Mani Periyannan
 - Dr. Duraisamy Gopikrishnanh

7. **ISSAR Best State Chapter Award 2024:** Maharashtra State Chapter

Technical Sessions Report

1. **CR Sane Oration (29.11.2024, FN, Pal Auditorium, PAU):** Issues and Challenges in improving reproductive efficiency in dairy animals: Indian scenario: Dr. G N Purohit (Ex-Dean Post Graduate Studies & Prof. & Head, VGO, COVAS, RAJUVAS, Bikaner)

Chairman: Dr. Shiv Prasad, President, ISSAR

Co-Chairman: Dr. M. Selvaraju, General Secretary, ISSAR

Rapporteur: Dr. Ajeet Kumar, Professor, VGO (GADVASU) & Editor, IJAR

Recommendations:

1. It was emphasized that the reproduction in animals is influenced by multiple factors.
 2. Improving reproductive efficiency in dairy animals requires a multipronged approach that addresses nutritional, genetics, management, health, and environmental challenges.
 3. Policy and Infrastructure Support, Farmer’s Education and Training, Adoption of best practices, Technological Integration in farming can significantly improve sustainability and profitability of the dairy sector.
2. **Bovine Gynaecology and Obstetrics Session**

Oral Presentation

(29.11.2024, AN, Silver Jubilee Auditorium, GADVASU)

Lead Speakers:

- A. Beyond calving: Updates on postpartum infections in cattle: Dr. Dinesh Dadarwal, Associate Professor, Department of Large Animal Clinical Sciences, Western College of Veterinary Medicine, University of Saskatchewan, Canada
- B. Ovarian follicular cyst in dairy cattle: recent concepts in etiogenesis, diagnosis and therapeutic approach: Dr. Sathesh Kumar S, Professor & Head, Department of Veterinary Gynaecology and Obstetrics, Veterinary College and Research Institute, Orathanadu, TANUVAS

Number of Abstract Received: 37

Number of Abstract Presented: 24

Chairman: Dr. Sudhir Kumar Agarwal, Ex-Director, ICAR-CIRG (Makhdoom)

Co-Chairman: Dr. Nitin Kumar Bajaj, Associate Professor (VGO), COVAS, (Mhow)

Rapporteur: Dr. Nareshkumar Fuljibhai Chaudhari, Assistant Professor (VGO), Kamdhenu University

Recommendations:

1. Direct Sandwich ELISA & field applicable lateral

flow assay bears a good diagnostic performance potential for screening of early pregnancy (17-35 days post-breeding in cattle).

2. Cyst ablation and cyst ablation-cum-aspiration device is a simple, easy to use, affordable and portable device for cyst ablation and aspiration for management of COD in bovines.
3. Colpotomy is a better approach to retrieve a mummified fetus for restoration of fertility in dairy cattle.
4. Alternogest supplementation along with synchronization protocols can be used for enhancing fertility in pre-pubertal heifers.

List of Awards:

S. No.	Name of Award	Name of Awardee	Title of paper	Co-authors
1.	Best Young Scientist Award	Dr. Darshit J. Javiya	Study of Uterine Torsion in Mehsana Buffaloes and its Impact on Farmers' Livelihood	Tarun V. Sutaria, Ravji K. Chaudhari, Chandrakant F. Chaudhari and Haresh C. Nakhashi
2.	First Best Oral Presentation Award	Dr. Athidi Lokavya Reddy Gangula	Inhouse Developed Point-of-Care Immunodiagnosics (S-ELISA and LFIA) for Early Pregnancy Screening in Bovine	Nancy Jasrotia, Ganeshan, Amit, Nitish Singh Kharayat, Priya Ranjan Kumar, Manas Kumar Patra, Brijesh Kumar, Harendra Kumar, Narayanan Krishnaswamy, Praveen Singh, Sameer Shrivastava, Sonal Saxena, Rajkumar Singh, Sanjay Kumar Singh
3.	Second Best Oral Presentation Award	Dr. Pooja Mahala	Innovative Tools for Cystic Ovarian Disease Management in Dairy Bovine: CAD and CADD Devices	Brijesh Kumar, S.K. Singh H.C. Yadav, Athidi Lokavya Reddy, Pradeep Chandra, Kalpendra Kohli, Mayank Singh Baghel, M.H Khan
4.	Second Best Oral Presentation Award	Dr. Subramaniyan Prakash	Colpotomy: An Alternate Approach to Relieve Non-Responsive Mummified Foetus in Dairy Cattle	Sengodan Raja, Vaiyapuri Prabhakaran, Ponnusamy Jayaganthan and Soundrapandian Satheshkumar
5.	Third Best Oral Presentation Award	Dr. Reetinder Singh	Enhancing Puberty in Pre-Pubertal Sahiwal Heifers through Altrenogest Supplementation and Synchronization Protocols	Prahlad Singh, Ashwani Kumar Singh, Mrigank Honparkhe, Mandeep Singh
6.	Third Best Oral Presentation Award	Prateek Singh Dhaliwal	Opinions of Commercial Dairy Farmers Regarding Gynecological Issues and Services in Punjab	Karan Gill, Ramandeep Kaur Dhaliwal and Rajesh Kasrija
7.	Third Best Oral Presentation Award	Dr. Raja Sengodan	Enhancing postpartum ovarian rebound and fertility of cross-bred cows through high-energy diet supplementation during transition period	Satheshkumar soundrapandian, Selvaraju Mani, Prabakaran Vaiyapuri, Ramachandran Masilamani and Paramasivam Athinarayanan

Poster Presentation

(29.11.2024, AN, Dr. Jasmer Singh Hall)

Number of Abstract Received: 34

Number of Abstract Presented: 20

Chairman: Dr. K Murugavel, Professor & Head (VGO), Puducherry

Co-Chairman: Dr. Tarunkumar V. Sutaria, Assistant Professor (VGO), COVAS, SK Nagar, Kamdhenu University

Rapporteur: Dr. Gulam Rasool Bhat, Assistant Professor (ARGO), SKAUST-Kashmir

Recommendations:

1. Additional Intracervical Prostaglandin injection hastens cervical dilatation in buffaloes affected with ICD after uterine torsion correction.
2. Transcervical allantocentesis is useful technique in hydropsy of fetal membranes to prevent the hypovolemic shock and safeguard the life of dam.
3. Dairy Cows should be supplemented with Bypass Fat and Rumen Protected Choline during Transition Period for better reproductive efficiency.
4. More work may be concentrated on field based studies.

List of Awards:

S. No.	Name of Award	Name of Awardee	Title of paper	Co-authors
1.	Best Young Scientist Award	Dr. Ankit Ahuja	Impact of Additional Intracervical Prostaglandin on Cervical Dilation Dynamics and Dilation Rates during ICD in Uterine Torsion-Corrected Buffaloes	Mrigank Honparkhe, Ajeet Kumar and Pankaj Sood
2.	First Best Poster Presentation Award	Dr. Sachin	Endocrine Profile, Energy Marker, Ultrasonographic and Doppler Indices of Reproductive Variables in Dairy Cows Supplemented with Bypass Fat and Rumen Protected Choline During Transition Period	Amit Sharma, Ankit Ahuja, Depika Thakur, Pravesh Kumar, Akshay Sharma and Pankaj Sood
3.	Second Best Poster Presentation Award	Dr. Depika Thakur	Evaluation of Certain Genital, Energy and Inflammatory Markers in Relation to Postpartum Complications during Transition Phase in Jersey Crossbred Cows	Amit Kumar Sharma, Ankit Ahuja, Pankaj Sood, Akshay Sharma, Pravesh Kumar
4.	Third Best Poster Presentation Award	Dr. S. Manokaran	Transcervical Allantocentesis: Successful Technique for the Management of Hydroallantois in Crossbred Cows	A. Thangamani, A. Reshma, T. Sarath, R. Rajkumar and A. Elango

Reproductive Biotechnology Session

**Oral Presentation
(29.11.2024, AN, Multispeciality Veterinary
Hospital Seminar Hall)**

A. Importance of Genetics and Sex sorted semen in Indian dairy industry: Dr. Prakash Kalarickal, Vice President-Business Development (Asia, Oceania, Middle East, Africa), Inguran Sorting Technologies LLP (ST India)

Lead Speaker:

Number of Abstract Received: 22

Number of Abstract Presented: 22

Recommendations:

Chairman: Dr. Palanisamy M., Professor (VGO), VCRI, Nammakal

1. RHO associate Kinase inhibitory-27632 protects spermatogonial stem cells (SSCs) from cryoinjury.
2. Non-stimulated ovum pickup gives satisfactory results in Sahiwal cows.
3. Supplementation of follicular fluid derived exosomes in IVF and IVM media ensures better embryo development during heat stress.

Co-Chairman: Dr. Pradeep Kumar, Sr. Scientist, ICAR-CIRB, Hisar

Rapporteur: Dr. Sandeep Mahadeo Gaikwad, Professor (ARGO), MVC, Mumbai

List of Awards:

S. No.	Name of Award	Name of Awardee	Title of paper	Co-authors
1.	Best Young Scientist Award	Dr. Tomcy Anjilikal Tomy	RHO-Associated Kinase Inhibitor, Y-27632 Protects Ovine Spermatogonial Stem Cells from Cryoinjury	Binsila Balakrishnan, Krishnappa Balaganur, Muhammed Sadikh, Ramachandran N, Arangasamy A, Atul P Kolte and Selvaraju Sellappan
2.	First Best Oral Presentation Award	Dr. Abhilash R.S.	Characterization of Follicular Fluid-Derived Exosomes and its Role in in-vitro Maturation and Embryo Development of Normal and Heat-Stressed Bovine Oocytes	Arya Theres, Revathy M. Murali, C. Jayakumar and M.P. Unnikrishnan
3.	Second Best Oral Presentation Award	Dr. Anand Kumar Pandey	Exogenous Melatonin Improves Oocyte Competence and Blastocyst Development Rate in Sahiwal Donor Cow during summer	Anupama Solanki, Hitesh Jangra, Pradeep Saini, Sandeep Kumar, Gyan Singh, Rajesh Kumar and Rahul Verma
4.	Third Best Oral Presentation Award	Dr. Dushyant Yadav	Trans-Vaginal Oocytes Retrieval in Non-Stimulated Bos indicus (Sahiwal) Cattle	S. K. Sheetal, J. K. Prasad, Sumit Singh, Pramod Kumar, C.S. Azad, S.P. Sahu, D. K. Kinkar and Rakhi Kumari

Poster Presentation

(29.11.2024, AN, Dr. Jasmer Singh Hall)

Number of Abstract Received: 19

Number of Abstract Presented: 09 **Chairman:** Dr. Sunil S Sahatpure, Vice-President, ISSAR

Co-Chairman: Dr. E Sunil Anand Kumar, Associate Professor (VGO), COVAS, Warangal

Rapporteur: Dr. Pramod Kumar, Assistant Professor (VGO), COVAS, Bikaner, RAJUVAS

Recommendations:

1. FSH Stimulation improves Oocyte Recovery and Blastocyst Production in Buffaloes Undergoing Ovum Pickup during summers.
2. Follicular Cyst Affects the Oocyte Development Competence in Buffalo.

List of Awards:

S. No.	Name of Award	Name of Awardee	Title of paper	Co-authors
1.	Best Young Scientist Award	Dr. Renu Sharma	Effects of FSH Stimulation on Oocyte Recovery and Blastocyst Production in Buffaloes Undergoing Ovum Pickup during summers	Brijesh Kumar, Meraj Haider Khan, Vikrant Singh Chouhan, Uttam Kumar Sahu, Chinmay Warghat, Sushil Kumar, Mayank Singh Baghel

2.	First Best Poster Presentation Award	Dr. Kavita P. Khillare	In-vitro Embryo Production by Using Conventional and Sex Sorted Semen in Cows	Manjula R. Hadimani, Mukund B. Amle, Mahesh N. Rangnekar, Ajit B. Mali, Raju R. Shelar & Milind D.Meshram
3.	Second Best Poster Presentation Award	Dr. Pradeep	Follicular Cyst Affects the Oocyte Development Competence in Buffalo	Sandeep Kumar, Anand Kumar Pandey, Hitesh Jangra, Anupama Solanki, Rahul Verma, Rajesh Kumar and Ramakant Kaushik

Lead Speakers:

- A. Importance of Academia-Industry-Farmer Interface to Generate Best Practices for Animal Health and Reproduction: Dr. Harish Kumar Verma, Principal, KCVAS, Amritsar
- B. Impact of Nutrition on Reproduction: Dr. Parminder Singh, Additional Director of Extension Education, GADVASU, Ludhiana
- C. Role of feeding hydroxy trace minerals and omega fatty acids in improving fertility in lactating dairy cows: Dr. Suyash Vardhan, RSM-Asia Pacific, Trouw Nutrition India Pvt. Ltd.

Chairman: Dr. Navdeep Singh, Professor & Head (VSR), COVS, GADVASU

Co-Chairman: Dr. Sumit Singhal, Professor & Head (VGO), BVC, Patna

Rapporteur: Dr. Gitesh Saini, Assistant Professor (VGO), COVS, Rampura Phul, GADVASU

Recommendations:

1. Academia-Industry-Farmer Interface is of significant importance for transfer of technologies from lab to land as well as for improving farmer's income.
2. Nutrition has significant role in dairy animal reproduction.
3. Feeding hydroxy trace minerals and omega fatty acids helps in improving fertility in lactating dairy cows.
4. **Clinical case presentation Session**
Oral Presentation
(30.11.2024, FN, Silver Jubilee Auditorium, GADVASU)

Lead Speaker:

- A. Puerperal complications: Impact on fertility in dairy animals: *Dr. Anand Kumar Pandey, Professor & Head (VGO), COVS, LUVAS, Hisar*

Number of Abstract Received: 38

Number of Abstract Presented: 26

Chairman: Dr. Sushil Prabhakar, Former Registrar, GADVASU

Co-Chairman: Dr. Ashok Kumar, Assistant Professor (VGO), COVAS, Bikaner, RAJUVAS

Rapporteur: Dr. Brijesh Kumar, Scientist (AR Division), ICAR-IVRI, Bareilly

Recommendations:

1. Post-partum complications require urgent and aggressive treatment to protect future fertility and production of dam using effective treatment and management techniques.
2. There is an increasing trend of monstrosities in bovine and require detailed investigation at molecular level and accordingly planned future breeding.
3. Fetotomy is a potential obstetrical tool to resolve monstrosities and complicated cases of bovine dystocia therefore, veterinarian require comprehensive training on fetotomy across the country.
4. Canine pyometra and CEH complex appear emerging problem and there is a need for identification for early prognostic and diagnostic markers for canine pyometra.

List of Awards:

S. No.	Name of Award	Name of Awardee	Title of paper	Co-authors
1.	Best Young Scientist Award	Dr. Amarjeet Bisla	Selective Caesarean for Management of Inguinal Gravid Hydrocele in a Dachshund Dog	Nakul Gulia, Tanvir Singh Sidhu, Jitender Mohindroo
2.	First Best Oral Presentation Award	Dr. Ankit Ahuja	Unveiling the Ultrasonographic, Endocrinal, Histological and Chromosomal Characteristics of True Hermaphrodite in a Beetal Goat	Akshay Sharma, Pan-kaj Sood, Amit Sharma, Pravesh Kumar, Pururava Sharma, Rakesh Kumar, Amod Kumar
3.	Second Best Oral Presentation Award	Dr. Tanvir Singh Sidhu	Management of Various Head Duplications through Partial Fetotomy in Dairy Cattle	Gurbeer Singh Sandhu, Amarjeet Bisla, Khushpreet Singh, Prahlad Singh
4.	Third Best Oral Presentation Award	Dr. Uttam Kumar Sahu	Bone Marrow Toxicity Induced by Hyperestrogenism Syndrome in Labrador Associated with Sertoli Cell Tumour	Mahesh Kumar, Deva R, Mayank Singh, Vishnu Vadera, Sushil Kumar, Renu Sharma, Pooja Mahala, Manish Solanki, Athidi Lokavya, Brijesh Kumar, S.K. Ghosh, M. H. Khan
5.	Third Best Oral Presentation Award	Dr. Jay Pancholi	Delivery of Conjoined Twins and Triplet via Fetotomy in Dystocia Affected Dairy Animals	Nakul Gulia and Amarjeet Bisla

Poster Presentation

(30.11.2024, FN, Dr. Jasmer Singh Hall)

Number of Abstract Received: 99

Number of Abstract Presented: 72

Chairman: Dr. Manish Shukla, Professor & Head (VGO), COVAS, Meerut

Co-Chairman: Dr. Harpreet Singh, Sr. Scientist (VGO), Uchani (Karnal), LUVAS

Rapporteur: Dr. Venkangouda Dodagoddar, Associate

List of Awards:

S. No.	Name of Award	Name of Awardee	Title of paper	Co-authors
1.	Best Young Scientist Award	Dr. Harnoor K. Dhindsa	Congenital Anomalies in Inbred Pakistani Bully Litter: Gastro-schisis and Goitre with Fetal Growth Restriction	Reetinder Singh, Gurtaj Singh, Khushpreet Singh and Narinder Singh

Professor (VGO), COVS, Bidar

Recommendations:

1. Integration of Doppler ultrasonography into routine pregnancy monitoring aids in detection of potential complications but also fosters better management practices, ultimately contributing to animal health and welfare.
2. Anaesthetic protocol including diazepam And ketamine can be used for deep induction/ sedation followed by maintenance with continuous infusion of propofol for caesarean section in sow.

2.	Best Young Scientist Award	Dr. Reetinder Singh	Ectopic Pregnancy in Queen Implanted on the Perimetrium and its Management: A Case Report	<i>Prahlad Singh, Rajat Sood, Bilawal Singh</i>
3.	First Best Poster Presentation Award	Dr. Udumalpet Sampathkumar Kalyaan	Need For Analysis of Anomaly Foetus – A Case Report of An Internal Hydrocephalus Suspected Foetus	<i>Rishipal Anil Kumar, Monica Gunasekar, Sarath Thulasiraman, Thangavel Sathiamoorthy, M. Chandrasekar</i>
4.	First Best Poster Presentation Award	Dr. Nakul Gulia	Male Pseudohermaphroditism with Mixed External Genitalia in a Pug Dog	<i>Amarjeet Bisla, Dipti Nain, Rajat Sood and Siddhartha Deshmukh</i>
5.	Second Best Poster Presentation Award	Dr. Tarana Nishat	Successful Management of Fetal Mummification in a Non-Descript Doe: A Case Report	<i>Bhavna, Sumit Singhal, Rakhi Kumari, Zinnat Perveen</i>
6.	Second Best Poster Presentation Award	Dr. G.S. Makwana	Investigation of Protracted Cases of Uterine Torsion and its Management in Bovine	<i>D.J. Javiya, R. K. Chaudhari, T.V. Sutaria, and C.F. Chaudhari</i>
7.	Third Best Poster Presentation Award	Dr. Gitesh Saini	Monstrosities as a Cause of Dystocia in Large Ruminants: Clinical Insights and Case Analyses	<i>Abhijeet Fernandes, Dawoud Aamir, Anavil Bhardwaz and Inderpal Singh</i>
8.	Third Best Poster Presentation Award	Dr. S. S. Waykule	Successful Management of Macerated Fetus in Marathwadi Buffalo	<i>A. D. Patil and S. S. Ramteke</i>
9.	Third Best Poster Presentation Award	Dr. Sandeep Kumar	Ectopic Abdominal Pregnancy against the Odds: A Rare Case Report in Cow	<i>Anand Kumar Pandey, Hitesh, Pradeep and Rakesh Kumar</i>

Small Ruminant and Swine Reproduction Session
Oral Presentation
(30.11.2024, FN, Multispeciality Veterinary Hospital Seminar Hall)

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Number of Abstract Received: 16

Number of Abstract Presented: 10

Lead Speakers:

- A. Driving Ovulation Rates and Prolificacy in Sheep: More than Just Energy Management: Dr. Ajit Singh Mahla, Scientist, ICAR-CSWRI, Avikanagar Rajasthan
- B. Pig Farming: An emerging opportunity for livestock diversification in India: Dr. Ashwani Kumar Singh, Professor (VGO), COVS, GADVASU, Lud-

Chairman: Dr. Suresh Dinkar Kharche, Pr. Scientist (Retd.), ICAR-CIRG (Makhdoom)

Co-Chairman: Dr. Bijay Patra, Director (VCC) & Prof. and Head (VGO), COVAS, Odisha

Rapporteur: Dr. Vikas Sachan, Associate Professor (VGO), COVAS, SVPUAT, Meerut

Recommendations:

1. It is recommended to adopt the genetic approaches as well as nutritional enhancement especially with n-3 PUFA and metmorphine to enhance reproductive performances in sheep.
2. It is recommended to adopt better bio-security, nutritional and genetic approaches through AI for improving the pig farming to make it more profitable.
3. Melatonin and other hormones use can be done for enhancement of reproduction in goats.
4. Estrus synchronization can be adopted in small ruminants for improving reproductive efficiency.
5. Nutritional supplementation especially with mulberry leaves, n-PUFA was found good for reproductive performance in goats.
6. Dystocia (especially uterine torsion in goats) in small ruminant causes economic losses to small farmers.

List of Awards:

S. No.	Name of Award	Name of Awardee	Title of paper	Co-authors
1.	Best Young Scientist Award	Dr. Abhishek Asati	Study of Different Seasons on Developmental Competence of In-Vitro Derived Caprine Oocytes	G.K. Mishra, Sriti Pandey, A.P. Singh, Gayatri Devi, Deepak Ningwal, Abhilasha Nayak, Megha K. Pandey, P.D.S. Raghuvanshi, Madhu Swamy and Ajit Pratap Singh
2.	First Best Oral Presentation Award	Dr. Krishnappa B	Mulberry Leaves as a Feed Supplement: Implications for Sheep Reproductive Health	Selvaraju S., Binsila B. K., Athira Thomas, Anandan S., Gowda N. K. S. and Sahoo A.
3.	Second Best Oral Presentation Award	Dr. T. Sarath	Study on Incidence and Management of Maternal and Fetal Dystocia in Goats	S. Manokaran, R. Rajkumar, A. Thanigamani, A. Reshma and A. Elango

Poster Presentation

(30.11.2024, FN, Multispeciality Veterinary Hospital Lobby)

Number of Abstract Received: 13

Number of Abstract Presented: 09

Chairman: Dr. Kavita Pandurang Khillare, Professor (ARGO), KNPCVS, Shirwal

Co-Chairman: Dr. Girish Kumar Mishra, Assoc. Professor & Head (VGO), COVAS, Rewa

Rapporteur: Dr. Sandeep Kumar Panihar, Asst. Professor (VGO), COVS, LUVAS, Hisar

Recommendations:

1. Reference range of vaginal electrical resistance for detection of estrus by electronic heat detector was established in Black Bengal goats. This data may be used for further studies and application in timed insemination protocols. Study is warranted including large sample size to validate the data.
2. Iodine supplementation in diet of pregnant does is recommended to reduce the incidence of still birth and abortion due to fetal congenital goiter and improve the neonatal survivability.
3. Reproductive USG among goat farmers should get popularized with better efficacy in diagnosis and therapeutics of reproductive problems in goats.

Andrology, Semenology and Artificial Insemination Session

Oral Presentation

(30.11.2024, FN, Silver Jubilee Auditorium, GADVASU)

Dr. Mani Selvaraju, Dean, VCRI, Nammakal, TANUVAS

- B. Selection of breeding bulls for genetic upgradation: Dr. Swapnil Deshmukh, Head-Business Development, Genus Breeding India Pvt. Ltd. (ABS India)

Lead Speakers:

- A. Optimizing Freezing Protocols for quality enhancement in frozen semen production in bulls:

Number of Abstract Received: 18

Number of Abstract Presented: 1

List of Awards:

S. No.	Name of Award	Name of Awardee	Title of paper	Co-authors
1.	Best Young Scientist Award	Dr. Mayank Singh Baghel	Dystocia Associated with Caprine Fetal Congenital Goiter: Obstetrical Incidence, Gross -Histopathological Findings, Endocrinological Alterations, and Risk Factor Analysis	Athidi Lokavya Reddy, Brijesh Kumar, Uttam Kumar Sahu, Vinay Kumar, Thilageshwaran S, Vishnu Vadera, Pooja Mahala, Bruce Richard Barreto, Alok Kumar Chaurasiya
2.	First Best Poster Presentation Award	Dr. Ajit B. Mali	Reproductive Ultrasonography for Boosting Goat Industry in Western Maharashtra	Kavita P. Khillare, Mahesh N. Rangnekar, Raju R. Shelar and Mukund B. Amle
3.	Second Best Poster Presentation Award	Dr. Amit Kumar	Evaluation of the Reliability of an Electronic Estrus Detector for Estrus Detection in Black Bengal Goats (Capra hircus)	Kanaka KK, Soumen Naskar, Ganesh Aderao N, Nikhil KC, Soumajit Sarkar, Sakshi Kaith and Reena Kamal

Chairman: Dr. Tushar Kumar Mohanty, Principal Scientist (VGO), ICAR-NDRI, Karnal

Co-Chairman: Dr. Jerome A., Sr. Scientist, ICAR-CIRB, Hisar

Rapporteur: Dr. Ankit Ahuja, Asst. Prof. (VGO), DGCN COVAS, CSKHPKV, Palampur

Recommendations:

1. MSP should be formulated for dilutor for better comparative evaluation of semen in different breeds of dairy animals.

2. Breeding male selection should be done to improve quality of semen.

3. Genomic selection should be implemented in young male calves and filed fertility data validation should be done for wide application.

4. Semen preservation in goat, sheep, dog and rooster should be taken up in research for improving preservability and fertility.

Poster Presentation

(30.11.2024, FN, Multispeciality Veterinary Hospital Lobby)

Chairman: Dr. Subrata Kumar Ghosh, Pr. Scientist (AR Division), ICAR-IVRI, Bareilly

Co-Chairman: Dr. Sarath Thulasiraman, Associate Professor & Head (VGO), VCRI, Salem

Number of Abstract Received: 16

Rapporteur: Dr. Asloob Ahmad Malik, Associate Professor (ARGO), SKUAST-K

Number of Abstract Presented: 10

List of Awards:w

S. No.	Name of Award	Name of Awardee	Title of paper	Co-authors
1.	Best Young Scientist Award	Dr. Bilawal Singh	Optimization of Canine Semen Cryopreservation Using Various Concentrations of Stem Cells	Sarvpreet Singh Ghuman, Ratan Kumar Choudhary, Hitesh Rana, Ajeet Kumar, Mrigank Honparkhe
2.	First Best Oral Presentation Award	Dr. Gurjot Kaur Mavi	Effects of Linolenic Acid on Sperm Attributes During in Vitro Storage of Rooster Semen	PP Dubey, Narinder Singh, SK Sahoo, RS Grewal and Puneet Malhotra
3.	Second Best Oral Presentation Award	Dr. Vikas Sachan	Functional Characterization of Non-Genomic Progesterone Receptors in Cattle Bull Spermatozoa	Dilip Kumar Swain, Atul Saxena, Anuj Kumar, Jitendra Agrawal, Pratishta Sharma
4.	<i>Third Best Oral Presentation Award</i>	<i>Dr. Binsila Balakrishnan</i>	The Role of Ascorbic Acid in Cryopreservation of Sheep Spermatogonial Stem Cells	<i>Muhammed Sadikh, Tomcy Anjilikal Tomy, Maya G, Krishnappa Balaganur, B., Ramachandran N, Arangasamy A and Selvaraju Sellappan</i>

Recommendations:

1. Microbial load of semen is the concern. It is recommended that microbial contamination should be minimized at time of collection and appropriate antibiotics are needed to be added for cryopreservation.
2. Additives like L-Carnitine may be studied before addition into the semen.

List of Awards:

S. No.	Name of Award	Name of Awardee	Title of paper	Co-authors
1.	Best Young Scientist Award	Dr. B. Balamurugan	Partial Deoxygenated Extender on Different Post Thaw Incubation Periods of Physico-Morphological and Functional Attributes during Cryopreservation of Buffalo Spermatozoa	SA Lone, JK Prasad and SK Ghosh
2.	First Best Poster Presentation Award	Dr. Divyanshu Lakhanpal	Evaluation of Testicular Blood Perfusion and its Association with Temperature Gradient and Semen Quality in Dairy Bulls during summer	Tushar Kumar Mohanty, Ramaswamy Arunkumar, Dipti Nain, Mukesh Bhakat and Rubina K. Baithalu

3.	Second Best Poster Presentation Award	Dr. Sumit Chowdhury	Microbiological Evaluation of Frozen Semen Samples in West Bengal	Joyjit Mitra, Santanu Panda, Mrityunjoy Chakraborty, Anup Singha
4.	Third Best Poster Presentation Award	Dr. Ghulam R Bhat	Both Lowering Egg Yolk Level of Diluent or Removal of Seminal Plasma with Standard Egg Yolk Level Do Not Help in Efficient Freezing of Buck Semen	Farooz A Lone, Arjuna Khatun, Mukul Anand, Rahul Dhariya, and Sanchi Rana

Equine, Camel and Wild Animal Reproduction Session

**Oral Presentation
(30.11.2024, FN, Multispeciality Veterinary Hospital Seminar Hall)**

Lead Speaker:

A. Optimization of reproductive potential in equines: Dr. Thirumala Rao Talluri, Senior Scientist, ICAR-NRCE (Equine Production Campus, Bikaner)

Number of Abstract Received: 13

Number of Abstract Presented: 13

Chairman: Dr. Arjan Dhama, Treasurer, ISSAR

List of Awards:

S. No.	Name of Award	Name of Awardee	Title of paper	Co-authors
1.	<i>Best Young Scientist Award</i>	<i>Dr. Madhu Meena</i>	Mitigation of Endometritis in Mares with Intra-uterine Infusion of Autologous Platelet Rich Plasma	<i>Dinesh Kumar Jhamb, Thirumala Rao Talluri, Rajesh Kumar Vaid, Om Prakash Solanki, Sajjan Kumar, Suman-shu Nawal, Kalpesh Pargi</i>
2.	<i>First Best Oral Presentation Award</i>	<i>Dr. Tarun V. Sutaria</i>	Ultrasonographic Fetal Biometry for Predicting Gestation Age in Marwari Mares	<i>Ravji K. Chaudhari, Prajwalita T. Sutaria, Chandrakant F. Chaudhari, Haresh C. Nakhshi</i>
3.	<i>Second Best Oral Presentation Award</i>	<i>Dr. M. S. Patil</i>	Effect of Hand Rearing on Reproductive Behavior in Captive Tigress (<i>Panthera tigris tigris</i>)	<i>V. M. Dhoot, S. V. Upadhye, M. D. Pawshe, A. P. Gawande, D. S. Raghuwanshi and S. M. Kolangath</i>

4.	<i>Third Best Oral Presentation Award</i>	<i>Dr. Omprakash Solanki</i>	Combined Thickness of the Uterus and Placenta in Three Indigenous Horse Breeds	<i>TR Talluri, Dinesh Jhamb, Sajjan Kumar, Neelam Kalasua, Kalpesh Pargi, Madhu Meena</i>
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Poster Presentation

(30.11.2024, FN, Multispeciality Veterinary Hospital Lobby)

Number of Abstract Received: 16

Number of Abstract Presented: 15

Chairman: Dr. Gyan Singh, Associate Professor & Head (VCC), COVS, LUVAS, Hisar

Co-Chairman: Dr. R. R. Shelar, Assistant Professor

List of Awards:

S. No.	Name of Award	Name of Awardee	Title of paper	Co-authors
1.	<i>Best Young Scientist Award</i>	<i>Dr. Nakul Gulia</i>	Ultrasonographic and Histopathological Characterization of Granulosa Cell Tumour in Two Mares	<i>Prince Kamboj, Amarjeet Bisla and Jagmeet Kaur</i>
2.	<i>First Best Poster Presentation Award</i>	<i>Dr. Sajjan Kumar</i>	<i>Raj-Sheetal:</i> Country's First Foal Produced through Vitri-fied Embryo Transfer	<i>Thirumala Rao Talluri, Omprakash Solanki, RK Dedar, and TK Bhattacharyya</i>
3.	<i>Second Best Poster Presentation Award</i>	<i>Dr. M. N. Rangnekar</i>	Therapeutic Management of Retained Foetal Membranes in a Mare	<i>N. M. Markandeya</i>
4.	<i>Third Best Poster Presentation Award</i>	<i>Dr. Gifti J. Mahida</i>	Effect of Uterine Edema, Depth of Intraluminal Uterine Fluid, Follicular Size, and the Efficacy of Intrauterine Infusion of Antibiotics on Conception Rates in Repeat Breeding Mares	<i>Prakash M. Chauhan, Ankit S. Prajapati, Fenil Y. Pethani</i>

(VGO), KNPCVS, Shirwal

Rapporteur: Dr. Amit Chaudhary, Asst. Professor (VGO), COVAS, Bikaner, RAJUVAS

Recommendations:

1. Histopathological characterization of tumors is necessary for proper identification of type of ovarian tumors in mares.
2. Fetotomy is effective in resolving dystocia in cases of obstructive dystocia in she camels.

5. *Third Best Poster Presentation Award* *Dr. Harmanpreet Singh Sodhi* Fetal Dystocia in a Mare *Jasmeet Singh Khosla, Tarunbir Singh, J. Mohindroo, NU Devi* with Hydrocephalus: Successful Cesarean Section and Postoperative Management of Laminitis

**Companion Animal Reproduction Session
Oral Presentation
(30.11.2024, AN, Silver Jubilee Auditorium,
GADVASU)**

(VGO), COVS, LUVAS, Hisar

Co-Chairman: Dr. Mahesh Rangnekar, Professor (VGO), KNPCVS, Shirwal

Lead Speaker:

Rapporteur: Dr. R Suresh Kumar, Assistant Professor (VGO), Chennai

- A. Managing canine high-risk pregnancy: Opportunities and Challenges: Dr. Jayakumar C, Associate Professor & Head (VGO), COVAS (Mannuthy), KVASU

Recommendations:

1. More research is to be carried out to see the effect of glycerol percentage on osmolarity for the use of dog semen freezing.
2. SMA polymer may be used for male dogs sterilization however, large sample size is warranted.

Number of Abstract Received: 20

Number of Abstract Presented: 14

Chairman: Dr. Anand Kumar Pandey, Professor & Head

List of Awards:

S. No.	Name of Award	Name of Awardee	Title of paper	Co-authors
1.	Best Young Scientist Award	Dr. Jagmeet Kaur	Retrospective Histopathological Evaluation of Tumors Affecting the Male Genital Tract in Dogs	Geeta Devi Leishangthem, Nittin Dev Singh, Kuldip Gupta and Omer Khalil Baba
2.	First Best Oral Presentation Award	Dr. Ajeet Kumar	Effect of Osmolarity of Extender Due to Egg Yolk and Glycerol on Quality of Frozen Dog Semen	Manvi Gupta, Ashwani Kumar Singh, Mrigank Honparkhe, Bilawal Singh, Udeybir Singh Chahal and Amarjeet Bisla
3.	Second Best Oral Presentation Award	Dr. S Rangasamy	Effect of Single Injection of Styrene Maleic Anhydride (SMA) Co-Polymer in Inducing Sterility in Male Dogs	Umamageswari, S. Balasubramanian, K. Krishnakumar, R. Sureshkumar, D. Reena and K. Ravikumar
4.	Second Best Oral Presentation Award	Dr. Magnus KP	Myometrial Expression Analysis of Genes Regulating Prostaglandin Metabolism in Canine Uterine Inertia	Jayakumar, C., Naicy Thomas

5.	Third Best Oral Presentation Award	Dr. Bhargav Shivamurthy	Uterine Biometry and Uterine Artery Hemodynamics for Assessment of Recovery in Bitches Affected with Pyometra	Meharaj Subramanian, Mani Selvaraju, Mahakrishnan Palanisamy, Duraisamy Gopikrishnan and Vaiyapuri Prabaharan
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Poster Presentation

COVAS, Akola

(30.11.2024, AN, Multispeciality Veterinary Hospital Lobby)

Rapporteur: Dr. B. Balamurugan, Assistant Professor (VGO), FVAS, BHU

Number of Abstract Received: 14

Number of Abstract Presented: 11

Chairman: Dr. Arunmozhi, N., Professor (TVCC), Madras Veterinary College, Chennai, TANUVAS

Co-Chairman: Dr. Mahesh Ingawale, Professor (ARGO),

Recommendations:

1. In female dogs, AI based conception rate should be improved using cryopreserved semen straws.
2. MTP should be done with confirmed USG and after expulsion of fetus, USG should be done to rule out any fetal remnant.
3. Post-thaw semen quality of dog semen should be improved.

List of Awards:

S. No.	Name of Award	Name of Awardee	Title of paper	Co-authors
1.	Best Young Scientist Award	Dr. Saranya Thangavel	Neoplasia of Vagina and Surprising Co-Morbidities with Ovarian Pathologies in Bitches	Gopikrishnan Duraisamy, Palanisamy Mahakrishnan, Mani Selvaraju, Murugan Manickam, Prabaharan Vaiyapuri, Raja Sengodan
2.	First Best Poster Presentation Award	Dr. Nilesh Dagli	Prediction of Parturition in Canine Using Serial Ultrasound Foetal Monitoring and Serum Progesterone Levels	Falguni Gupta, Sarita Gulavane, Ravindra Chaudhari, Sandeep Gaikwad, Dhruvi Dave, Nidhi Shingatgeri and Kunal Devlekar
3.	Second Best Poster Presentation Award	Dr. Sandeep Gaikwad	Effect of Different Concentrations of Spirulina Addition in Canine Semen Extender on Sperm Parameters during Preservation at Refrigeration Temperature	Kusumita Rao, Sarita Gulavane, Ravindra Chaudhari
4.	Third Best Poster Presentation Award	Dr. Bilawal Singh	An Assessment of the Knowledge, Attitude and Practices (KAP) of Dog Owners Regarding Pet Reproduction	Sarvpreet Singh Ghuman, Amandeep Singh, Parminder Singh

Ideathon Session

**Poster Presentation
(30.11.2024, AN, Multispeciality Veterinary Hospital Lobby)**

Number of Abstract Received: 08

Rapporteur: Dr. Bhavna, Assistant Professor (VGO), BVC, Patna

Number of Abstract Presented: 08

Chairman: Dr. Dinesh Dadarwal, Associate Professor (Large Animal Clinical Sciences), WCVM, University of Saskatchewan, Canada

Recommendations:

1. Approaches for better reachability to farmers to improve drug delivery system, better prediction of post-partum complication in cattle, improving approaches for congenital disorders via orthopedic surgery were recommended.

Co-Chairman: Dr. Ratan Kumar Choudhary, Assistant Professor, CoABT, GADVASU

S. No.	Name of Award	Name of Awardee	Title of paper	Co-authors
1.	<i>Best Young Scientist Award</i>	<i>Dr. Nikita Gupta</i>	Devising Oscillating Mechanized Chuck for Intramedullary Pinning in Veterinary Patients	<i>Ashwani Kumar and Vandana Sangwan</i>
2.	<i>First Best Poster Presentation Award</i>	<i>Dr. Geeta Devi Leishangthem</i>	Development of a Novel Therapeutic Strategy against Bovine Brucellosis	<i>Nittin Dev Singh</i>
3.	<i>Second Best Poster Presentation Award</i>	<i>Dr. Bilawal Singh</i>	AI-Based Low-Cost Infrared Thermal Imaging System for Livestock Rearers: A Tool for Ascertaining Optimal Production, Reproduction and Health	<i>Amandeep Singh</i>
4.	<i>Third Best Poster Presentation Award</i>	<i>Dr. Gurpreet Singh Preet</i>	Novel Endoscopic Technique for Diagnosis and Treatment of Canine Urogenital Diseases	<i>Randhir Singh, Swaran Singh Randhawa</i>

S N Luktuke Extempore Presentation (01.12.2024; FN, Silver Jubilee Auditorium, GADVASU)

Co-Chairman: Dr. Anil Patil, Professor & Head (ARGO), COVAS, Udgir

Chairman: Dr. GR Pangaonkar, Professor & Head (Retd.), VGO, GADVASU

Rapporteur: Dr. Anuj Kumar, Associate Professor, COVAS, DUVASU, Mathura

Chairman: Dr. Manoj K Awasthi, Professor & Head (VGO), COVAS, Anjora

Name of Awardee: Dr. Renu Sharma

5. Best Field Veterinarian Award

S. No.	Name of Awardee	Title of Paper
1.	Dr. Amarpreet Singh Pannu	Optimizing Conception Rates: The Role of Sexed Semen in Livestock Breeding
2.	Dr. Mani Periyannan	Occurrences of Uterine Torsion and its Management in Small Ruminants
3.	Dr. Kamlesh Thavani	Major Obstetrical Health Disorders in Small Ruminants
4.	Dr. Bidyadhar Satapathy	Management of a Gravid Uterus Protruded through Vaginal Tear in a CBJ Cow
5.	Dr. Sukhhermandeep Shergill	Impact of Murrah Progeny Testing Project on the Dairy Farmers of Punjab

Valedictory Program: The 39th Annual Convention of the Indian Society for the Study of Animal Reproduction (ISSAR) and the National Symposium on “Challenges in Enhancing Reproductive Efficiency of Livestock: An Indian Perspective” was concluded on a high note at Guru Angad Dev Veterinary & Animal Sciences University, Ludhiana on 01 December, 2024. The event, held over three days, saw the participation of more than 400 delegates from across the country, making it a significant gathering of experts and researchers in the field of animal reproduction. The valedictory function was a momentous occasion, graced by Dr. JPS Gill, Vice-Chancellor of the university, as the Chief Guest, and Dr. Tirtha Kumar Datta, Director of ICAR-Central Institute for Research on Buffaloes, Hisar, as the Guest of Honour. Dr. Gill, in his address, stressed the need for the scientific community to implement the outcomes of the symposium and focus on improving reproductive practices in livestock. He called for stronger collaborative efforts to tackle the challenges faced by the livestock sector in India and improve the overall quality and productivity of livestock farming. Echoing this sentiment, Dr. SK Uppal, Dean PGS, encouraged researchers to develop a passion for working within the available resources and urged them to adhere to breeding policies and guidelines for the upliftment of the livestock sector. He highlighted the need for innovation in livestock practices to enhance sustainability in the industry. Dr. Datta, during his address, emphasized the need for efficient reproductive management to ensure cost-effective livestock farming. He

advocated for motivating the younger generation to venture into the livestock sector, which has immense potential for growth and sustainability. During the symposium 11 technical sessions were conducted and awards were presented to individuals who had made outstanding contributions to the field of veterinary gynaecology, obstetrics, and reproductive biotechnologies. Dr. Selvaraju, Secretary of ISSAR, conducted the awards ceremony, celebrating the efforts of scientists and students who showcased innovative research and made significant strides in advancing the field. The symposium’s success was also marked by a detailed report presented by Dr. Mrigank Honparkhe, Organizing Secretary of the event. He provided an overview of the key discussions and outcomes, highlighting the importance of interdisciplinary collaboration and knowledge-sharing in advancing animal reproduction practices. The symposium concluded with a series of major recommendations aimed at improving reproductive efficiency and overall livestock productivity. Dr. SPS Ghuman, Chairman of the symposium, shared the key recommendations, which included the adoption of advanced reproductive technologies, furthering genetic improvement research, enhancing farmer awareness programs, and fostering public-private partnerships to support sustainable livestock farming. Dr. Honparkhe, in his vote of thanks, expressed gratitude to all the organizers, delegates, and participants for their overwhelming support in making the convention and symposium a grand success.