



# NAVS NEWS VIBES

NATIONAL ACADEMY OF VETERINARY SCIENCES (INDIA)

Volume 2 • Issue 3 • July 2022

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## EDITORIA EDITOR'S DESK

### EXECUTIVE COMMITTEE



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**Dr. L.D. Singla**

Dear Esteemed Fellows

I take this as a privilege to inform you that I have been nominated as Editor of National Academy of Veterinary Sciences (India) by the Governing Council. You are aware that Dr. A.K. Pattanaik has done an excellent job in re-designing the Newsletter of the Academy in the form of "News Vibes" with meticulous care. Dr. Pattanaik has joined the private sector and therefore he has conveyed his inability to continue as Editor of the Academy. Because of a very busy schedule in his new assignment, and moreover he was out of the country for more than two months; there was inordinate delay in publication of two issues 3 & 4 of Volume 2 for the year 2022.

It is a matter of pride for me to act as the Editor of the Academy. Though I will make genuine efforts to make the newsletter more contemporary in terms of contents, presentation and look, however, it is a big take. I need wholehearted support from each one of you, being worthy Fellows of the Academy.

The aim of this newsletter is to provide platform for esteemed fellows to promote, share and discuss various new issues and developments in Veterinary Science.

NAVS newsletter may constantly provide a platform to discuss bottlenecks in Veterinary related activities and share new ideas to provide effective solutions and strategies to meet out the challenges of new millennia. One should also consider that the country has set for itself, monumental goals such as '**Make in India**', '**Digital India**', '**Smart Cities**' to name a few and the ground reality suggests that we do not have enough skilled people to execute it effectively. So, we need to empower a whole generation of youth with high end skills and advanced competencies in Veterinary Science which can match the competitiveness of other countries.

As we have to release our two pending issues, Issue 4 of Volume 2 for the year 2022 and Issue 1 of Volume 3 for the year 2023, therefore I humbly request all the fellows to communicate if there are any outstanding professional achievements (awards, honours, key assignments etc.) accompanied by good quality colour photographs with high resolution (as a separate file in png/jpg/jpeg format) for inclusion in issue 1 of 2023.

(Kindly send the information to : [ldsingla@gmail.com](mailto:ldsingla@gmail.com))

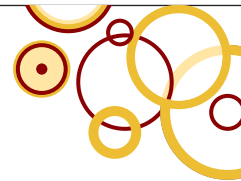
In this attempt, I thankfully acknowledge the support of the Executive Committee members and Editorial Board members in elevating the contents of the Newsletter. Besides, the financial support from the benefactors to keep going the publication also warrants applause.

I am looking forward to receive your crucial annotations and beneficial suggestions for making the **NAVS News Vibes** more informative, enriched and effervescent in the times to come.

Best regards  
**L.D. Singla**

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## HORIZON PRESIDENT'S VIEWS & VISION

### Presidential address at Academy's convocation on 20th June at Nagpur

Honourable Shri (Dr) Mohan Bhagwat Ji, President Rashtriya Swayam Sevak Sangh, esteemed chief guest of the inaugural function; Hon. Shri Parshottam Rupala Ji, Cabinet Minister for Fisheries, Animal Husbandry and Dairying, guest of honour; Hon. Shri Sunil Chhatrapal Kedar Ji, Pro Chancellor & Minister of Animal Husbandry, Dairy Development, Sports and Youth Welfare, Govt of Maharashtra, chairman for the session; Hon. Shri Dr. Tarun Shridhar ji IAS, Member, Central Administrative Tribunal & Former Secretary Fisheries, Animal Husbandry & Dairying, New Delhi; Hon. Padmashri Awardees, Prof (Dr) ML Madan ji, Prof (Dr) Kushal Sarma ji, Prof (Dr) Sosamma ji, Col (Dr) Prof Asish M Paturkar ji, Hon. Vice-Chancellor MAFSU, Nagpur; Hon. Vice-Chancellors of Veterinary Universities; Hon. Dr BN Tripathi ji, DDG Animal Science ICAR, New Delhi; Hon. Dr Praveen Mallik ji, Animal Husbandry Commissioner, Government of India; Past presidents, Hon. Dr SK Ranghan ji, Dr KML Pathak ji, and Maj Gen (Dr) Shri Kant Ji; Hon. Members of Governing Council; Distinguished Fellows of the Academy; Ladies & Gentlemen.....

Good morning and Namaskar!

I am honoured and privileged to address this Augustus gathering of accredited intellectuals in Veterinary Sciences and the top dignitaries of the Country sitting on the dias on the occasion of Academy's XX Annual Convocation-cum-Scientific Convention held at Nagpur. It is a matter of great pride that Hon. Shri (Dr) Mohan Bhagwat Ji, esteemed chief guest of the inaugural function is a Veterinarian and a highly accomplished leader heading Rashtriya Swayam Sevak Sangh. Sir, the entire Veterinary fraternity in general, the Academy and me as a President in particular are proud of your achievements and look forward for your guidance to lead the profession to greater heights. I am grateful for your esteemed presence this morning as the chief guest.

Hon. Shri Parshottam Rupala Ji, Cabinet Minister of Fisheries, Animal Husbandry and Dairying is meticulously involved with his keen interest, guiding the growth and development of Animal Husbandry sector for higher contribution of GDP in the country from the time he has taken over the ministry. Sir, I am grateful for your kind presence as the guest of honour inspite of your busy schedule and official engagements. I am also grateful to Hon. Shri Sunil ChhatrapalKedar Ji, Pro-Chancellor and Minister of Animal Husbandry, Dairy Development and Sports and Youth Welfare, Govt of Maharashtra for chairing the inaugural session inspite of his busy schedule.

Animal Husbandry is one of the fastest growing sectors



contributing over 33% GDP of Agriculture and 4.11% to overall national GDP through its products like milk, meat, eggs and wool employing 20.5 million people i.e. around 8.8% of the Indian population. The Animal Husbandry sustains livelihood of farmers in climatic adversities when agriculture fails thus providing food and financial security to the rural farmers and avoiding suicides. This sector contributes around 12 lakh crores to the GDP of the country without much subsidy from the Government. It is a self-sustaining sector and a fast growing sector of our economy at a compound annual growth rate (CAGR) of 8.2% over the past 5 years at par with manufacturing and much more than agriculture which grows at 1.5 to 2%.

The current value contribution of the Dairy Industry is estimated at 8.5 lakh crores to the national GDP. The dairy sector has been registering a consistent growth of over 6%, increasing from 22 million metric tons in 1970 to over 200 million metric tons as on date. It is estimated that the production of dairy sector would be an excess of over 300 million tons by 2025.

The Poultry Industry in India is a major success story. Thanks to the efforts of the scientists involved in breeding, feeding, management and the industry for having successfully transformed a back yard poultry activities into a vibrant industry contributing to an annual turnover of over 2 lakh crores. India is the 3rd largest egg producer in the world after China and USA and the 4th largest broiler producer after China, Brazil and USA. Looking forward, the Indian poultry market is expected to grow at a CAGR 15.2% till 2026.

The liberalized economy has increased the purchasing capacity and living standards in the country. Dietary preference for protein food such as meat, eggs and chicken has increased compared to cereals. India produces around 114 billion eggs per annum with a growth rate of 6 to 7% of the egg production. Broiler production is 4.3 million tons per annum with a growth rate of 8 to 10%.

National Academy of Veterinary Sciences (India) is a

premier apex pan Indian body consisting of elite veterinary professionals i.e. the Vice-Chancellors and Deans of Veterinary Universities, Directors of National Veterinary Research Institutes, outstanding vets from the army, corporate sector and other esteemed scientists involved in the administration of veterinary sciences, education and research both at national and state levels.

NAVS (I) was established in 1993 by late Dr CM Singh who was a Doyen of the veterinary profession with similar objectives like National Academy of Medical Sciences and NAAS. Dr CM Singh was a great visionary and visualized the importance of Animal Husbandry activities in the human food chain in a populous Country like India. NAVS (I) did not have the support from Ministry of Agriculture or Department of Agricultural Research & Education (DARE). There was no support from ICAR any time to the Academy and the Academy always suffered a step motherly treatment for any issues highlighted. It is unfortunate that the Veterinary education and research in ICAR system never got its due although there is significant contribution to agricultural GDP.

It should not be out of place to mention here that veterinary sciences were equated to a subject in agriculture such as Entomology or Horticulture. The curriculum of veterinary degree is of 5½ years duration as against 4 years of agriculture degree. As a matter of fact, the veterinary graduates compare themselves with medical graduates both at centre and state level cadre and even for admission in their respective colleges but the system in ICAR has been different.

The recruitment of Directors for Veterinary Institutes is not being done with a basic degree in Veterinary Science since the committee constituted by ICAR stipulates the eligible qualifications for these positions. Such committees do not have eminent Veterinary Scientists who are not working in the ICAR system. The ICAR system is dominated by Agriculture Scientists and the views of the veterinary scientists in the system are over ruled. The veterinary scientists outside the system will have the courage of conviction to express their views in the committee.

It is regretting to see that although outstanding veterinary scientists are available in the country with such a big network of 15 Veterinary Universities and ICAR Research Organizations, the appointment of Directors without a basic degree in Veterinary Science is still being continued.

The leadership of a non-veterinarian at the helm of the affairs in Veterinary and Animal Science Research affects the growth and development of the Veterinary and Animal Husbandry activities due to lack of comprehensive abilities to redress the issues pertaining to the Veterinary research as a whole.

It is disheartening to mention that NAVS (I) Fellowship which was earlier in the ASRB score card for awarding marks is now removed while some other fellowships such as NAAS

& NAMS fellowships have been included. NAVS (I) has never got any financial assistance as on date not even a proper office. NAVS (I) owes its existence to the Veterinary Universities and donations from corporate members. Our Hon. Minister Shri Parshottam Rupala Ji has asked the joint secretary LSM to examine the possibilities of financial assistance to the Academy which is still being examined. The office of the Academy is a small room and most of the times we survive by requesting others for a conference room even for our regular GC meetings. I request the Hon. Minister, Shri Parshottam Rupala Ji to help us to provide an office space and financial assistance.

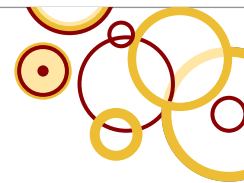
A committee was established in May/June 2019 by the competent authority recommending a new council to undertake research, education, extension and related activities in the Veterinary and Fisheries sector under the Ministry of Fisheries, Animal Husbandry and Dairying. The opinion from the experts of the Veterinary, Animal Husbandry, Dairying and Fisheries were sought. Based on the recommendations, a document drafting committee was constituted to pool the ideas and finalize the draft on formation of a separate council under the name "Indian Council of Veterinary & Fisheries Research" (ICVFR). The Committee has recommended that the new council ensures systematic research, education, training and extension to sustain development of Veterinary, Dairying, Animal Science, Fisheries and other allied sciences.

This council shall evolve appropriate strategies for prosperity of livestock and fish farmers through improved production to meet the overall objectives of food safety, nutritional security and public health for supporting the future of rural masses in India. The Council shall function autonomously under the ministry of Fisheries, Animal Husbandry & Dairying. The institutes of ICAR engaged in the two sectors should be shifted to the new council along with the policy institutions currently functioning within the two departments. But this proposal did not see the light of the day after it has gone from the Ministry to PMO. Hence, I appeal to Hon. Shri (Dr) Mohan Bhagwat Ji, President Rashtriya Swyam Sevak Sangh, Hon. Shri Parshottam Rupala Ji, Cabinet Minister for Fisheries, Animal Husbandry and Dairying to carve out Veterinary and Fisheries Research Institutes as ICVFR under the ministry of Fisheries, Animal Husbandry and Dairying which can result in very promising growth of the animal husbandry activities that has a potential to contribute at least 20 lakh crores to the GDP in next 5 years.

I take this opportunity to request both the dignitaries for providing a reasonable office space along with financial assistance for day to day functioning of the Academy.

Kind Regards  
Cordially Yours

  
(DVR PRAKASH RAO)



## THE ACADEMY

### EVENTS & ENDEAVOURS

**Modern Science needs to be linked with traditional wisdom for sustainable development: Dr Mohan Bhagwat**



National Academy of Veterinary Science (NAVS), New Delhi in association with Maharashtra Animal & Fishery Sciences University, Nagpur organized XX Annual Convocation-cum-Scientific Convention from 20-21 June, 2022 at Silver Jubilee Auditorium of Nagpur Veterinary College, Nagpur. The convention was based on the theme of "Restructuring Veterinary Education, Research and Extension for Enhancement of Livestock and Poultry Production to Boost GDP".

The inaugural function was held in the presence of Dr Mohan Bhagwat, Sarsanghchalak, Rashtriya Swayam Sewak Sangh, as a chief guest. Union Minister of Fisheries, Animal Husbandry and Dairying, Shri Parshottam Rupala ji was the guest of honor. Dr DVR Praksah Rao, President of NAVS (India), Col (Dr) Prof AM Paturkar, Vice-Chancellor of MAFSU, Dr Dakshinkar, Vice-Chancellor of Kamdhenu University, Durg and Shri Tarun Shridhar, Former Secretary of Animal Husbandry, New Delhi were prominent personalities present on the dais.

During the inaugural session, about 20 eminent Veterinarians were felicitated with fellowship of NAVS (India). The Padmashree awardee veteran Veterinarians Dr ML Madan, Dr KK Sarma and Dr Sasamma Iype were felicitated in this event for their remarkable achievement. Apart from this, the honorary fellowships were bestowed on Dr Mohan Bhagwat, Shri Parshottam Rupala, Shri Sunil Kedar, Dr Tarun Shridhar and Dr Umesh Chandra Sharma.

Dr Prakash Rao highlighted the need of establishment of Indian Council of Veterinary Research, so that sufficient funds may be available for research to achieve overall development of Veterinary & Animal Husbandry field.

Dr Mohan Bhagwat, being a veterinarian and alumni of Nagpur Veterinary College was well aware of the problems faced by veterinarians and therefore he was affirmative about

the need to establish Indian Council of Veterinary and Fisheries Research. He further pointed out that the world is witnessing the side effects of modern technology, therefore for sustainable development of agriculture and animal husbandry it should be linked with traditional knowledge.

Central Animal Husbandry & Dairying Minister Shri Parshottam Rupala informed that Prime Minister, Shri Narendra Modi recognizing the importance of Animal Husbandry and Fisheries in Agriculture sector to achieve the target of doubling farmer's income, has separately established Ministry of Animal Husbandry and Fisheries in the centre. It will help to improve the rural economy.

### Recommendations emerged from 20th Annual Convocation-cum-Scientific Convention

The two days 20th Annual Convocation-cum-Scientific Convention (20-21 June, 2022) was the platform to the gatherings of well-known academicians, researchers, governing council members, NAVS fellows and Vice-Chancellors who are concerned with promoting knowledge and applications of innovative technologies. Deliberations were held to help in deciding the future of veterinary education, research and extension activities by the policy makers and administrators. The convention started with the Key note address of Dr Tarun Shridhar, Former Secretary (ADF) to Govt of India. There were total four technical sessions spread in two days.

#### Technical Session-I

Technical session-I was held on 20th June from 03.00 to 05.30 PM. The session was chaired by Dr AT Sherikar, Former Vice-Chancellor, Maharashtra Animal & Fishery Sciences University, Nagpur with Dr. Abhijit Mitra, Director, ICAR-Central Institute for Research on Cattle (ICAR-CIRC), Meerut as the Co-chairperson. There were four presentations in this session.

### Recommendations emerged from the session:

1. There is immediate need for establishment of ICVFR similar to on the basis of ICAR.
2. 'One Health' programme is necessary to be implemented to control the emerging and re-emerging diseases of human being and animals.
3. Under lab to land programme strengthening of Key Village Kendra's is important as these play a vital role in rural economy by propagating information generated through research findings to the end users
3. Teaching, research & extension infrastructure needs to be improved for quality education.

### Technical Session-II

Technical session-II was held on 21st June from 09.30 AM to 12.00 PM. The session was chaired by Dr KML Pathak, Former DDG (Animal Sciences) ICAR, New Delhi with Dr RN Chatterjee, ICAR Directorate of Poultry Research, Rajendranagar, Hyderabad as the Co-chairperson. There were six presentations in this session.

### Recommendations emerged from the session:

1. Good Manufacturing Practices should be developed and maintained in Veterinary Biological Production.
2. Climate change is real and thus Livestock and Poultry Industries should gear up for facing the challenges due to climate change and the research work should start in this direction.
3. Poultry Production Practices should be developed keeping export potential in the mind.
4. Processing facilities and Slaughter Houses are needed in every state in large numbers to help the farmers.

### Technical Session-III

Technical session-III was held on 21st June from 12.00 to 02.00 PM. The session was chaired by Dr Azad K Kaushik, Adjunct Professor, Department of Molecular and Cellular Biology, University of Guelph, Guelph, Ontario, Canada with Dr Ashok Kumar, ADG (Animal Health), ICAR, New Delhi as the Co-chairperson. There were three presentations in this session.

### Recommendations emerged from the session:

1. Formulation of National Livestock Extension Policy.
2. Formation of "Pashu Vigyan Kendras" on line of KVK for effective extension of Animal Husbandry and Veterinary services to stakeholders.

### Technical Session-IV

Technical session-IV was held on 21st June from 03.00 to 05.30 PM. The session was chaired by Dr DVR Prakash Rao, President, National Academy of Veterinary Sciences, New

Delhi with Dr Ramanuj Banerjee, Scientist-'F' & Member Secretary, RDI & PRISM, Department of Scientific & Industrial Research, Ministry of Science & Technology, New Delhi as the Co-chairperson. There were five presentations in this session.

### Recommendations emerged from the session:

1. The industries should inform the Universities about their problems and requirements routinely and the scope for funding for the solutions may also be defined.
2. A national level portal should be developed where all the technologies available must be put by the academia/institutes, where the industry can reach for solutions, and similarly, where the industry can put their problems/requirements and academia/institutes can approach the industry for the funding and related project/solution.
3. Universities can organize an interactive session with the industry every two or three years.
4. NAVS should act as a bridge between the academia and industry.
5. The Industries should organize seminars/workshops/conferences in collaboration with Universities for students & alumni for exchange of current needs & solutions.

## Minutes of 11th Governing Council Meeting of NAVS (I)

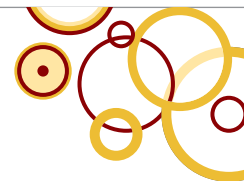
The 11th Governing Council (GC) meeting of NAVS (I) was held on 03 June, 2022. The meeting started at 12.00 PM with the welcome address by Dr DVR Prakash Rao who apprised the house that Dr Azad Kumar Kaushik, Prof of Immunology from Canada has donated Rs 10.0 lakhs for institution of award in the name of his beloved father Late Dr RK Sharma, former Professor & Head, Department of Veterinary Extension Education, HAU Hisar. The President mentioned that the above award is the result of efforts made by Maj Gen Shri Kant, past President. The President appealed to all the GC members to seek financial support from various Institutions/Corporate Offices to strengthen the Academy financially. Further, the President informed the house that Venky's India Ltd has agreed to become the Corporate Member of the Academy by paying Rs 5.0 Lakhs as their contribution to the corpus fund of the Academy.

GC members approved the following awards of the Academy as recommended by various committees:

- (a) NAVS (I) - Dr CM Singh Award for Excellence in Veterinary Sciences: Dr KML Pathak, Former Vice-Chancellor, DUVASU, Mathura
- (b) NAVS (I) - Dr DVR Prakash Rao Life Time Achievement Award-cum- Late Smt Sundari Prakash Rao Memorial Endowment Lecture: Dr SK Ranjhan, Former President NAVS (I)
- (c) NAVS (I) - Dr Vallabh Mandokhot Memorial Award for Outstanding Young Woman (Field) Veterinarian: Dr Aditi Sharma, Veterinary Officer, Department of AH, Uttarakhand
- (d) NAVS (I) - Young Scientist Award in Veterinary Sciences:

### DISCLAIMER:

The views expressed by various authors in this publication are their own and not necessarily that of the NAVS(I). Further, news items related to selected scientific and academic advances published in this newsletter are sourced from varied sources, including scientific journals, newspapers, websites etc. They are solely meant for developing educational awareness among the members of the Academy.



Dr Sachin Kumar, NDRI, Karnal, Haryana

## Minutes of 12th Governing Council Meeting of NAVS (I)

The 12th Governing Council meeting of NAVS (I) was held on 19 June, 2022 at MAFSU, Nagpur. The meeting started at 07.00 PM with the welcome address by Dr DVR Prakash Rao, President NAVS (I). The President emphasized that the major issue of the Academy as on date, is to work for establishment of ICVFR. He reiterated the need of interacting with various Institutions/Corporates to seek their membership with the aim of achieving a corpus of Rs 2.0 crore to cater for meeting the annual financial requirements of the Academy out of bank interest accrued.

1. The following agenda points were discussed and decisions taken accordingly:

(a) Deliberation on the recommendations of various selection-cum-evaluation committees for the Academy awards. A committee consisting of the following was constituted to address the points recommended by various selection cum evaluation committees:

- (i) Maj Gen Shri Kant SM, VSM (Retd)
- (ii) Prof (Dr) AM Paturkar
- (iii) Dr BN Tripathi
- (iv) Dr AC Varshney
- (v) Maj Gen ML Sharma (Retd)

(b) Discussion on the views expressed by Dr BN Tripathi through an email was forwarded to GC members and NAVS (I) Fellows on 15 June, 2022. The Secretary General suggested that keeping in view the various concerns raised by some of the GC members and Fellows, the issue of discussion on amendment of Rules & Regulations of the Academy scheduled to be held during general body (GB) meeting on 20 June, 2022 may be deferred. The suggestion was accepted and approved by the house.

During discussion, it was decided that the existing committee will review the draft amendments in the light of points raised by various Fellows/GC members and re submit the draft in format depicting only those Rules & Regulations which need to be amended (first column) followed by revised/amended /suggested Rules & Regulations (second column) and their justification (third column).

The issue was further deliberated, some of the GC members suggested to include Prof (Dr) MP Yadav in the committee. Dr Ashok Kumar suggested that because of his busy schedule, the name of Prof (Dr) MP Yadav be included in the committee in his place. The suggestion was accepted by the house.

(c) Venue for next convocation- The Secretary General informed the house that Vice-Chancellor, LUVAS has offered to host next Convocation-cum-Scientific Convention. The issue was discussed and it was decided that the final decision for the venue of next convocation will be taken during GB meeting, after considering offers

from other universities.

(d) Formulation of guidelines for Dr RK Sharma Award - Instituted by Dr Azad Kaushik, Son of Late Dr RK Sharma, former Professor & Head, Department of Veterinary Extension Education, HAU Hisar. A committee consisting of the following was constituted to recommend guide lines and score card for the above award:

- (i) Dr MC Sharma - Chairman
- (ii) Dr HK Verma
- (iii) Dr YPS Dabas
- (iv) Dr Ravindra Sharma
- (v) Maj Gen ML Sharma (Retd)
- (vi) Rep of Dr Azad Kaushik

(e) Any other point with the permission of the Chair - Dr BN Tripathi, DDG (Animal Science) ICAR suggested that we must hold technical seminars/workshops more frequently on various contemporary issues. The point was well taken and approved by the house.

## Minutes of General Body (GB) meeting held on 20th June, 2022

The GB meeting of NAVS (I) was convened on 20 June, 2022 at 02.00 PM. The following agenda items were discussed:

1. Ratification of various Awards -
  - (a) Fellowship
  - (b) Associate Fellowship
  - (c) Membership
  - (d) Dr CM Singh Award for Excellence in Veterinary Sciences
  - (e) Dr DVR Prakash Rao Life Time Achievement Award-cum-Late Smt Sundari Prakash Rao Memorial Endowment Lecture
  - (f) Dr Vallabh Mandokhot Memorial Award for Outstanding Young Woman Veterinarian
  - (g) Young Scientist Award in Veterinary Sciences
2. Deferment of Amendment of NAVS (I) Rules & Regulations - This issue was deliberated and it was decided that the committee looking into the amendment be broadened and only the salient points which need immediate change be considered for the amendment.
3. Venue of next convocation - The next convocation will be held at Guru Angad Dev Veterinary and Animal Sciences University (GADVASU), Ludhiana (Punjab).
4. Technical Workshop/Seminar - It was decided that the Academy should organize Technical Seminars/ Workshop in collaboration with various Institutes/ Organizations. The next technical workshop on Control of FMD and Brucellosis will be held in Sep, 2022 in collaboration with GADVASU, Ludhiana.
5. Treasurer's report: Dr SK Gupta, Treasurer apprised the house about the financial position of the Academy. He informed the house that the Academy has Rs 1.33 crore in the form of FDs and Rs 19,32,000/- in saving bank account.

## FOOD FOR THOUGHTS

### LIVESTOCK NEWS

#### Punjab vet varsity produces first OPU IVF calf in state

Scientists of GADVASU, Ludhiana have produced the state's first elite female Sahiwal calf following the transfer of embryo produced by ovum pick-up and in-vitro fertilization (OPU IVF) technique. Vice-Chancellor, Dr Inderjeet Singh conveyed that a team of scientists led by Dr Narinder Singh and Gurjot Kaur Mavi achieved the feat.

So far, only a few labs have been able to standardize and successfully produce live calves using this technique in the country. The GADVASU scientists have established 37 pregnancies using OPU IVF embryos from Sahiwal cows which are due for calving in the coming time. The project is funded under Rashtriya Gokul Mission Program by Department of Animal Husbandry, Dairying and Fisheries (DADF), Govt. of India with main impetus to propagate the superior genetics of indigenous cattle breeds. (Express News Service Ludhiana | July 4, 2022)



*First elite female Sahiwal calf produced following the transfer of embryo produced by ovum pick-up and in-vitro fertilization technique*

#### GADVASU holds record production of 16 live piglets from one gilt of Large White Yorkshire breed

An exotic gilt of Large White Yorkshire (LWY) breed housed in Pig farm of GADVASU, Ludhiana records the production of 16 live piglets in first farrowing. This is one of the rarest incidences and first of its kind with such a large litter size produced by primiparous animals of swine species. The gilt was fed scientifically formulated maize-soybean based diets along with university made mineral mixture and common salt separately made for growing, breeding and adult animals for proper attainment of growth and body weight prior to mating. A proper scientific breeding plan was executed to avoid inbreeding and have optimum litter size. A total of 17 piglets were delivered out of which 16 survived. Dr Inderjeet

Singh, Vice-Chancellor admired the efforts made by the university scientists for contributing towards the upliftment of swine species. He advocated that such highly prolific breeds of pigs will be helpful for the pig farmers of Punjab for genetic improvement of their regular stock, and will play a pivotal role in socio-economic upliftment and nutritional security of rural people. Shri Giriraj Singh, Union Cabinet Minister of Rural Development and Panchayati Raj Department applauded the achievement of GADVASU on his Twitter handle and Facebook Page.

(<https://www.hindustantimes.com/cities/chandigarh-news/gilt-of-exotic-breed-gives-birth-to-16-piglets-at-gadvasu-101656703306911.html>)



*An exotic gilt of Large White Yorkshire breed housed in Pig farm of GADVASU, Ludhiana records the production of 16 live piglets*

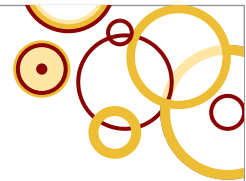
#### Research.com ranked GADVASU as top notch Veterinary and Animal Sciences University

Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana was placed as number one university amongst Best Animal Science and Veterinary Universities in India and at number 213 globally in the 1st edition of Research.com ranking based on data collected from Microsoft Academic Graph, the most prominent and well-established bibliometric database available to the scientific community. Position in the ranking was based on scientists D-index (Discipline H-index), which only includes papers and citation values for an examined discipline for the faculty of a given university.

Dr YPS Malik, Dean, College of Animal Biotechnology, GADVASU based on his research publications was adjudged top rated scientist at national level and at 423rd place globally, attracting 4878 citations. Interestingly, the second best scientist from an ICAR institute had 3108 citations.

(<https://www.apnikheti.com/en/pn/news-details/all/research-com-ranks-gadvasu-as-number-one-university-of-country-amongst-the-animal-sc-and-vet-universities>)





## SPLENDOUR SHINING FELLOWS

### Murrah Man on National Advisory Panel for Animal Husbandry & Dairying

Dr Inderjeet Singh, Vice-Chancellor, GADVASU, Ludhiana has been nominated as a member of the National Advisory Committee for Animal Husbandry and Dairying sector constituted by the Government of India. Dr Inderjeet Singh was bestowed with the Academic Leadership Award at the India Animal Health Summit and Awards-2022. Dr Singh has been presented with this honour for his exemplary contribution towards the growth and development of animal health and production. Congratulations to Dr Inderjeet Singh, a Fellow of NAVS for this commendable achievement.



Dr Inderjeet Singh has been entrusted with the task of prescribing and advocating policies related to cattle and dairy development, feed and fodder, poultry, piggery, sheep, goat, animal health and other livestock components for giving a positive fillip to the livestock sector in India by the committee formed under the chairmanship of Union Minister of Fisheries, Animal Husbandry and Dairying, Shri Parshottam Rupala ji

### Team of GADVASU research scientists conferred SRI RAMLAL AGARWAL AWARD

Team of scientists from Department of Veterinary Medicine, GADVASU, Ludhiana have been conferred with prestigious SRI RAMLAL AGARWAL AWARD, 2021 for their breakthrough research entitled "Effect of Herbal Biocholine and Herbal Vitamin E Selenium in prevention of Ketosis, Hepatic Lipidosis and Subclinical mastitis in dairy animals". The award consisting of a Citation, Gold medal and INR 25000/- was bestowed by the award committee constituted by Indian Herbs Specialities Pvt. Ltd. The research is considered by the award committee an excellent contribution for advancement of Ethno Veterinary medicine. It is pertinent to mention here that Department of Veterinary Medicine is credited with cutting edge research in areas of production/ metabolic and deficiency diseases in dairy animals with more than 25 theses/ dissertations in the area. Dr. SNS Randhawa and Dr. BK Bansal are Fellows of NAVS(I) and Dr. SNS Randhawa is also Governing Council Member of NAVS(I).



L to R 1. Dr. Sushma Chhabra, Principal Scientist (Department of Veterinary Medicine), 2. Dr. SNS Randhawa (Ex Director of Research-cum-Dean PGS, GADVASU), 3. Dr. Suraj Koujalagi (SMS, ICAR-KVK, Belagavi), 4. Dr. Randhir Singh (Assistant Professor, Department of TVCC), 5. Dr. CS Randhawa (Professor-cum-Head, Department of Vety. Medicine) 6. Dr. BK Bansal (Principal Scientist, Department of Veterinary Medicine).

## INSTITUTIONAL LIFE MEMBERS



Lala Lajpat Rai University of Veterinary & Animal Sciences Hisar



Chhattisgarh Kamdhenu Vishwavidyalaya Durg



Deen Dayal Upadhadhaya Veterinary and Animal Sciences University, Mathura



Rajasthan University of Veterinary & Animal Sciences Bikaner



Maharashtra Animal & Fisheries Sciences University Nagpur



Bihar Animal Sciences University Patna



Karnataka Animal, Fishery & Veterinary Sciences University, Bidar



Sri Venkateshwara Veterinary University Tirupati



Kamdhenu University Gandhinagar



Kerala Veterinary and Animal Sciences University Pookode



Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana

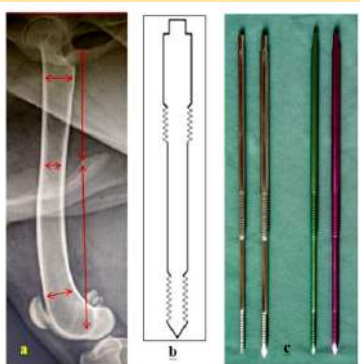


Khalsa College of Veterinary & Animal Sciences Amritsar

## THE ACADEMIA NEW REVELATIONS

### Designing of Double Threaded Intramedullary Pins for Canine Long Bone Fracture Fixation

Department of Veterinary Surgery and Radiology, GADVASU, Ludhiana has indigenously designed an innovative double threaded intramedullary (DT IM) pin (stainless steel and titanium) for the repair of long bone fracture fixation in small animals. The implant has been designed under the research project "Designing and evaluation of various configurations of threaded intramedullary pins for canine long bone fractures" funded by the Science and Engineering Research Board (SERB). Dr Ashwani Kumar, Professor (Veterinary Surgery and Radiology) was the Principal Investigator of this project. The results are published in the Indian Journal of Animal Sciences [92(7): 819-824].



Radiographic morphometry of the long bone medullary canal (a), Schematic design of double threaded IM pin (b), Indigenously designed double threaded (Stainless Steel and Titanium) intramedullary pins for canine long bone fracture fixation (c).

The developed pin is a kind of best-fitting intramedullary implant and offers a viable alternative method for fixation of various long bone fractures in small animals, providing stability leading to better functional outcomes with reduced implant related complications.

## TIDBITS SOUPCON

### Want to prevent pandemics? Stop spillovers

Spillover events, in which a pathogen that originates in animals jumps into people, have probably triggered every viral pandemic that has occurred since the start of the twentieth century. An analysis of disease outbreaks over the past four centuries indicates that the yearly probability of pandemics could increase several-fold in the coming decades, largely because of human-induced environmental changes. Fortunately, for around US\$20 billion per year, the likelihood of spillover could be greatly reduced. This is the amount needed to halve global deforestation in hotspots for emerging infectious diseases, drastically curtail and regulate trade in wildlife and greatly improve the ability to detect and control infectious diseases in farmed animals. That is a small investment compared with the millions of lives lost and trillions of dollars spent in the COVID-19 pandemic. The cost is also one-twentieth of the statistical value of the lives lost each year to viral diseases that have spilled over from animals since 1918. (Nature | Vol 605 | 19 May 2022)

### Indigenous vaccine developed for lumpy skin disease (LSD) in cattle

In a major breakthrough, ICAR-National Research Centre on Equines (ICAR-NRCE), Hisar in collaboration with ICAR-Indian Veterinary Research Institute (IVRI), Izatnagar has developed a homologous live-attenuated LSD vaccine "Lumpi-ProVacInd". The Centre plans to commercialize this vaccine, developed by the two institutes of ICAR, at the earliest in order to control LSD, which has led to the death of cattle in six states. As of August 8, Rajasthan has reported 2,111 deaths of cattle, followed by Gujarat at 1,679, Punjab at 672, Himachal Pradesh at 38, Andaman & Nicobar at 29 and Uttarakhand at 26.

The new technology was released by Union Agriculture Minister, Shri Narendra Singh Tomar and Union Fisheries, Animal Husbandry and Dairying Minister, Shri Parshottam Rupala at an event held in the National Capital. While addressing the event, Shri NS Tomar said "It is our big responsibility to save animals." He stressed expanding the production capacity of this vaccine so that it reaches the ground level at the earliest to vaccinate 30 crore animals. (<https://www.dailyexcelsior.com/icar-develops-vaccine-for-lumpy-skin-disease-in-cattle/>)

### Scientists in Bhopal developed India's first indigenous vaccine for bird flu

Scientists at Bhopal-based National Institute of High Security Animal Diseases (NIHSAD) have succeeded in making a vaccine to protect birds from the bird flu virus. It is country's first indigenous vaccine for bird flu. To stop this virus spread, till now the vaccine is being imported. Bird flu-avian influenza subtype H9N2 kills the ability of millions of chickens and birds to lay eggs every year. There are two types of virus H9N2. First low pathogenic virus and second high pathogenic virus. The vaccine will protect the chickens from low pathogenic virus. The vaccine formula prepared by the institute will be shared with private companies very soon. (<https://timesofindia.indiatimes.com/city/bhopal/nihasad-scientists-in-bhopal-develop-vaccine-for-bird-flu/articleshow/93441826.cms>)

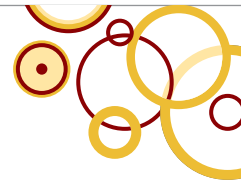
#### INSTITUTIONAL LIFE MEMBERS (NGO)



#### CORPORATE LIFE MEMBERS



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## BROOKE HOSPITAL FOR ANIMALS (INDIA)

*An Organisation Committed to Equine Health & Welfare and the Development of the Marginalised Equine Owning Community*

Brooke Hospital for Animals (India) or Brooke India (BI) is an affiliate of the Brooke, which is a United Kingdom-based international equine charity, focusing on the welfare and care of equines (horses, donkeys and mules). Brooke's vision is of a world in which working horses, donkeys and mules are free from suffering and have a life worth living.



*Renu Devi, equine owner from Sonipat, with her mule*

BI's journey in India towards equine welfare started two decades back when it was registered as a Section 8, Not for Profit Company under the Companies Act. Equids in India mostly work in harsh environments like Brick Kilns and face never-ending health troubles. This situation was mainly due to a lack of financial resources and knowledge on good management practices amongst the equine owners and insufficient understanding of equine health care by Local Health Providers (LHP).

BI's initial step as an intervention involved providing free veterinary services at different congregation points and organising Intensive Equine Care Camps (IECC) to spread awareness on welfare oriented husbandry practices and preventable injuries & diseases. From 2006 onwards, BI started focusing on establishing permanent intervention units and started expanding its operations to other states such as Andhra Pradesh, Rajasthan, Hyderabad and other parts of Uttar Pradesh. The BI team also introduced Community Engagement for exploring sustainable solutions for equine welfare and community development. This period saw the formation of male and female Self Help Groups called Equine Welfare Groups, the use of Participatory Rural Appraisal tools and increasing community participation. BI team saw the congregation of equines, equine owners, traders and local service providers at Equine Fairs as an excellent opportunity for a large-scale intervention. BI teams intervened to spread awareness on equine welfare issues, provide quality training on equine care and ensure equine welfare-friendly facilities and resources at these fairs.



*IECC Camps Luniyavas donkey fair*

BI teams also focused on strengthening the local service delivery system for working equines, including quality farriery services for hoof care, accurate and appropriate veterinary first aid during health emergencies, hair clipping, and welfare-friendly saddlery material. They also ensured compassionate handling while

delivering any of the services. These interventions were incorporated in Brooke's Theory of Change, in 2016. This theory promotes strengthened animal health policy environment and thriving equine owning communities.



*Equines working at Brick Kilns*

Currently, BI operates directly through 32 Equine Welfare Projects (EWP) across 10 States and Union Territories in India, thereby reaching out to approximately 3.16 lakhs working equids and the equine owning community that owns/rears them. BI has multi-disciplinary teams with core strengths in Animal Health & Welfare, and Community Development, including Human behaviour Change, Gender Empowerment, Livelihoods and Resilience. Some of the notable achievements made by the team over the years include:

- Advocating the revision of Glander's Compensation- From INR 50 to 25,000 for horses and INR 16000 for mules/donkeys
- Inclusion of Equids in Livestock under the National Livestock Mission Schemes and thereby making them eligible for equine insurance.
- Advocating the issue of Animal Welfare Board of India (AWBI) advisories for Equine Fairs, Shrines & Pilgrim sites
- Introducing BI's innovative projects for ensuring sustainable availability of green fodder, through Azolla cultivation and Hydroponics techniques successfully across its intervention areas.
- BI teams worked throughout the COVID 19 pandemic. They supported the community by providing emergency treatments, alternative livelihood options, first aid kits and feed & fodder for the equines.

In the upcoming years, BI will focus on strengthening the Community Based Organisations, linkages with government welfare schemes, have robust disaster response capacity, advocate policy revisions on equine welfare issues, and enhancing the knowledge and skills of veterinary students on animal welfare, compassionate handling and upskilling the local farriers and animal health providers.



*Quality Farriery Services*

BI's team is proud of its journey and aspire to keep bringing a positive change for vulnerable and marginalised working equines and the rural communities, whose lives we have not touched yet.

Introducing

For the First Time in India

Zydus AHL

**VetPlasma™**

**PLASMA  
VOLUME  
EXPANDER**

**INDICATIONS AND USAGE**

VetPlasma is used primarily to treat acute hypovolemia & shock in conditions like Blood loss, diarrhoea, etc

**DOSAGE AND ADMINISTRATION**

Daily dose and rate of infusion depend on the animal's blood loss, hemodynamics and on the hemodilution effects

**Recommended Dose:**

**Large Animals (Cattle & Horse) :**

8-10 ml/kg body weight/day, up to maximum 20 ml/kg

**Small Animals (Dog, Cat, Pig, Sheep & Goat) :**

10-20 ml/kg body weight/day

Administer by intravenous infusion only.

The initial 10 to 20 ml should be infused slowly, keeping the animal under close observation due to possible anaphylactoid reactions

**PRESENTATION**

250 ml & 500 ml plastic bottle.



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