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## e-Newsletter

# Guru Angad Dev Veterinary & Animal Sciences University, Ludhiana (Punjab)

[www.gadvasu.in](http://www.gadvasu.in)

## July - September 2022 (3)

### From the Desk of the Vice-Chancellor



Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana disseminates its research and development outcome for benefitting the farmers and other stakeholders through an array of activities. The University started on normal functioning after the dampener due to COVID-19 restrictions and organised *Pashu Palan Mela*, exhibiting its products, processes and best practices for awareness and enrichment of knowledge of farmers for livestock rearing and related activities on scientific grounds. Inauguration of *Mela* by S. Bhagwant Singh Mann,

Hon'ble Chief Minister of Punjab and his keen interest in the latest research and developments in livestock sector was the morale booster for the participants. S. Laljit Singh Bhullar, Hon'ble Minister of Animal Husbandry, Fisheries and Dairying also graced this mega event of the University, bringing farmers, experts, entrepreneurs on a single platform for exchange of knowledge and assimilation of ideas. Similarly, State Level Pear *Mela* organized by Krishi Vigyan Kendra (KVK) of the University at Village Booh (Tarn Taran) provoked the interest of farmers in horticulture. Organization of workshops, trainings, seminars, camps and awareness programmes, etc. do hold regular activities of the University and its Krishi Vigyan Kendras (KVKs) for scientific information dissemination amongst farmers.

The University scientists are continuously excelling in research endeavours. The Ovum Pick-Up *In vitro* Fertilization (OPU-IVF) Calf produced by the University marks the advent of a new era in propagation of the superior genetics of indigenous cattle breeds in the state. The record production of 16 live piglets from a gilt of Large White Yorkshire breed is another stupendous achievement for genetic improvement of pigs for the upliftment of socio-economic condition of rural folks and encouraging entrepreneurship in this sub-sector. The University has entered in Memorandum of Understanding with various institutions/organisations/corporate houses for coordination and utilization of potential of both the parties for elevating the livestock sector.

Recognising the research leadership of the University, the Department of Animal Husbandry and Dairying, Government of India has identified College of Animal Biotechnology of the University as Center of testing for the emerging diseases, viz. Lumpy Skin Disease and African Swine Fever for different states and union territories. The university has been able to attain these milestones with the diligent efforts of faculty, students, and staff. The faculty has brought laurels to the University earning awards, recognitions and honours.

I appreciate the sincere efforts of GADVASU fraternity and earnestly hope that they will keep up this proactive momentum for further ascendancy of the University.

**(Inderjeet Singh)  
Vice-Chancellor**

### ***Pashu Palan Mela***

Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana organized two days *Pashu Palan Mela* on 23-24 September 2022. S. Bhagwant Singh Mann, Hon'ble Chief Minister of Punjab inaugurated the *Mela*. S. Laljit Singh Bhullar, Hon'ble Minister of Animal Husbandry, Fisheries & Dairy Development and Transport, Sh. A Venu Prasad (IAS), Additional Chief Secretary to the Chief Minister, MLA's of District Ludhiana, Dr. S.S. Gosal, Vice-Chancellor, Punjab Agricultural University and members the Board of Management, GADVASU also graced the occasion.

The Hon'ble Chief Minister visited various stalls in the *Mela* and showed keen interest in the latest research and development activities in the livestock sector. He had impromptu conversation(s) with farmers and discussed about the issues and challenges being faced by them. Theme slogan of the *Mela* was "*Vigyan da fado larh, Sikhran te jao charh*". GADVASU showcased research, educational and extension programmes at the *Mela* for the benefit of farmers. University publications on different subjects of livestock farming were also put on sale. The experts delivered talks on various aspects of livestock, poultry and fish farming, and acquainted the farmers about the mechanism and procedures to overcome the problem(s) being faced by them. The *Mela* witnessed an overwhelming response from farmers of Punjab vis-à-vis adjoining states.



### ***State Level Pear Mela on "Advances in Pear Cultivation"***

Krishi Vigyan Kendra of GADVASU at Booh (Tarn Taran) in collaboration with Punjab State Farmers and Farm Worker's Commission, Mohali and Department of Horticulture organized State Level Pear Mela on "**Advances in Pear Cultivation**" at its campus to enrich the farmers' knowledge on latest varieties, cultivation, post-harvest technology, processing, export potential and marketing of the produce. S. Fauja Singh, Hon'ble Cabinet Minister, Freedom Fighters, Defence Services Welfare, Food Processing and Horticulture, Punjab graced the event as the Chief Guest and S. Laljit Singh Bhullar, Hon'ble Cabinet Minister, Animal Husbandry, Fisheries and Dairy Development & Transport, Punjab was the Special Guest. Dr. Kashmir Singh Sohal, MLA, Tarn Taran and Sh. Naresh Kataria, MLA, Zira also graced the occasion.



### Research and Academic Activities

#### GADVASU Successfully Produces First OPU IVF Calf in Punjab

GADVASU scientists produced an elite female Sahiwal calf following the transfer of embryo produced by ovum pick up and *in vitro* fertilization (OPU-IVF) technique. Dr. Inderjeet Singh, Vice-chancellor congratulated the ETT scientists, Dr(s) Narinder Singh and Gurjot Kaur Mavi for producing first OPU IVF calf in Punjab state. So far, only a few laboratories have been able to standardize this technique and successfully produced live calves in India. The University 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.



#### GADVASU Holds Record Production of 16 Live Piglets

An exotic gilt of Large White Yorkshire (LWY) breed housed in Pig farm of GADVASU 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 praised 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.

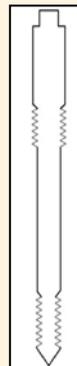


#### Designing of Double Threaded Intramedullary Pins for Canine Long Bone Fracture Fixation

Department of Veterinary Surgery and Radiology, College of Veterinary Science, Ludhiana has indigenously designed an innovative double threaded (stainless steel and titanium) intramedullary pin 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). 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.



Indigenously designed double threaded (Titanium and Stainless Steel) intramedullary pins for canine long bone fracture fixation.



### Development of Technology for Preparation of *Chhana podo*

Department of Dairy Technology, College of Dairy Science and Technology, GADVASU has developed the technology for preparation of *Chhana podo* (baked sweet cottage cheese). The product has good shelf-life of up to 21 days under refrigerated conditions. The developed technology is ready to transfer for the benefit of dairy farmers and budding entrepreneurs interested to start/develop their business venture(s).



### MoU for Promotion and Improvement of Beetal Goats

GADVASU, Ludhiana and Green Pockets Private Limited signed a Memorandum of Understanding for promoting income of farmers through goat farming. Both the establishments joined hands to tackle the present bottlenecks in goatery and to make it a sustainable venture on scientific basis in the state. The MoU was signed by Dr. JPS Gill, Director of Research, GADVASU and Mr. B S Brar, Director of Green Pockets.



### NABARD Team visits GADVASU

Mr Raghunath B, Chief General Manager, National Bank for Agriculture and Rural Development (NABARD) along with Mr Shushil Kumar, Additional General Manager, and Cluster Officer(s) visited GADVASU, Ludhiana to have an assessment and interaction in contemplated projects, mutually beneficial for overall development of farming community. Dr Inderjeet Singh, Vice Chancellor highlighted that NABARD has provided funds to the University for strengthening of infrastructure, research and extension related activities.



Two new project proposals, i. e. “**Development of VET MOOCs on Goatery, Poultry and Dairy Farming vis-à-vis Establishment of MOOC Lab at GADVASU**” and “**Development of Demonstration Vehicle for Popularization of Use of Renewable Energy Sources for Value Addition of Milk at Village Level**” were also discussed. It was emphasized that looking at the increasing queries of farmers and stakeholders, an additional setting up of a Tele-Advisory Kendra for prompt redressal of their problems need to be developed with support from NABARD.

### KVK Tarn Taran Earns Research Project

Krishi Vigyan Kendra of GADVASU at Booh (Tarn Taran) earned a research project worth Rs. 24.99 lakhs from NABARD for “**Deciphering the role of Artificial Intelligence in Dairy farms at border area of district Tarn Taran, Punjab, India**”. Tarn Taran district is being considered as a hub of dairy farmers and the research project on Artificial Intelligence will bring a new era in the dairy sector to augment the livestock farmers' income. The project team comprises of Dr. Suresh Kumar, Principal Investigator (PI), and Dr. Balwinder Kumar, Dr Ravi Kant Gupta and Dr. Neeraj Kashyap as Co-PIs.



Dr. Suresh Kumar

### Centre of Emerging Diseases at GADVASU

Department of Animal Husbandry and Dairying under Ministry of Fisheries, Animal Husbandry and Dairying, Govt. of India (GOI) identified College of Animal Biotechnology, GADVASU as the Centre of Testing for the Emerging Diseases *i.e.* **Lumpy skin disease (LSD)** for Chandigarh, Punjab, Ladakh, Jammu & Kashmir states/union territories and **African swine fever (ASF)** for Punjab, Ladakh, Jammu & Kashmir, Chandigarh, Haryana, Uttar Pradesh, National Capital Territory (NCT) of Delhi, Uttarakhand and Rajasthan states/union territories.



Activities under Institutional Development Plan  
(IDP) - NAHEP



#### Visit(s) by International Professor(s) and Guest Lectures



- Dr Baljit Singh, Vice-President, Research and Professor of Veterinary Anatomy, Department of Veterinary Biomedical Sciences, University of Saskatchewan, Canada visited Department of Veterinary Anatomy and interacted with undergraduate students on problem-based learning.



- Dr. Jalila Abu, Professor and Deputy Dean, University Veterinary Teaching Hospital and Dr. Hazilawati Hamzah, Associate Professor and Deputy Dean from University Putra Malaysia visited GADVASU and delivered lectures vis-à-vis practical training to students on various aspects of avian restraining, handling, medicine, anesthesia, diagnostic imaging, orthopedic and soft tissue surgery, and on different aspects of clinical pathology, respectively.

- Dr. Pawan Kumar, Professor-cum-Head, Department of Veterinary Anatomy, College of Veterinary Science, LUVAS, Hisar visited Department of Veterinary Anatomy from 29.8.2022 to 2.9.2022 and interacted with students



- Dr. O.P. Choudhary, Assistant Professor, Department of Veterinary Anatomy and Histology, College of Veterinary Sciences and Animal Husbandry, Aizawl, Mizoram visited Department of Veterinary Anatomy, GADVASU from 12.9.2022 to 16.9.2022 as guest faculty and interacted with students.





- Dr. Naresh Kumar Rakha, Senior Scientific Officer at IIT Ropar (Former Dean PGs, LUVAS, Hisar) visited the Department of Veterinary Microbiology, GADVASU, Ludhiana and delivered lectures to students under Skill Development Programme for the students.



- Dr. Pratibha Goyal, Professor and Former Director, School of Business Studies, Punjab Agricultural University, Ludhiana was the Guest speaker in the Department of Veterinary Microbiology, GADVASU, Ludhiana and delivered expert talk to students.



- Dr. Sarabjit Singh, Professor and Head, Department of Agricultural Journalism, Languages & Culture, Punjab Agricultural University (PAU), Ludhiana was the Guest speaker in the Department of Veterinary Microbiology, GADVASU from 01.08.2022 to 02.08.2022. He delivered lectures to the students under Skill Development Programme.

- Dr. P.S. Minz, Senior Scientist from Division of Dairy Technology, NDRI Karnal delivered lectures on various topics to students of College of Dairy Science and Technology, GADVASU.



- Dr Ramakant Lawaniya, Technical Support Specialist, Hygiene International, New Delhi delivered four expert lectures under Students Skill Development Programme to the students of College of Dairy Science and Technology, GADVASU.



- College of Dairy Science and Technology organised a Students Skill Development Programme on “Communication, CV Writing and Personality Development”, wherein expert(s) delivered lectures on various aspects of the theme of programme.
- Dr Farhat Umar, Personal Development Coach from Jammu and Kashmir delivered lectures on the topics of transforming dreams into reality, science of setting and achieving goals, power of habits, etc. to the students of College of Dairy Science and Technology, GADVASU.
- College of Dairy Science and Technology organized the Skill Development Programme for undergraduate students under the aegis of Institutional Development Plan (IDP) operational in the University. Invited expert(s) delivered soft skill lectures on the topics “Motivation and decision making” and “Leadership Attributes”.



- Dr Vishal Bector, Associate Director (Industry Linkages), PAU, Ludhiana delivered five lectures on the topics of motivation and decision making, leadership attributes, life and livelihood, group dynamics and conflict management to students of College of Dairy Science and Technology, GADVASU.

### Fisheries Undergraduates Undertook Training Abroad

GADVASU flagged off its first batch of 20 B.F.Sc. students for 2 weeks International training in International Centre of Excellence in Seafood Science and Innovation (ICE-SSI), Faculty of Agro-Industry at Prince of Songkla University (PSU), Hat Yai, Thailand, to augment professional competency of students through capacity building.

### Exposure Visit(s) of Students



College of Fisheries organized inter-state exposure visits of undergraduate students to provide them extensive field experience, offering effective learning resources and exemplary entrepreneurial experience. Students visited the fish farm of decorated progressive fish farmer, Mr. Sultan Singh of Village Butana, Nilokheri in Haryana, honoured with 'Padma Shri' in 2019 for his excellence and outstanding contributions in promoting fish farming in northern India for last 30 years. The students also visited Sher-e-Kashmir University of Agricultural Sciences and Technology, Jammu.

### GADVASU Celebrates 76<sup>th</sup> Independence Day



GADVASU celebrated the 76<sup>th</sup> Independence Day of India with a great fervor and bliss. Dr. Inderjeet Singh, Vice-Chancellor hoisted the National Flag in the University premises paying tributes to the brave hearts who contributed towards the freedom of the country. The festivities of Independence Day were dedicated to 'Azadi ka Amrit Mahotsav-75 years of Independence'. Dr. Singh motivated the students to pursue research in view of future needs and provided an overview of the University's collaborations with foreign institutes admiring high quality research work of GADVASU. The Vice-Chancellor acknowledged the contribution of Diaspora fraternity of India and alumni of the University towards their existing countries vis-à-vis native motherland. Further, he motivated scientists, employees and students of the University to put their best for strengthening the institute. The University students presented patriotic songs and poems. The University fraternity participated in the celebrations enthusiastically.

### Award(s)/Honour(s)/Recognition(s)

#### Dr. Inderjeet Singh nominated as the member of the National Expert Committee for Animal Husbandry and Dairying Sector

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. The committee under the chairmanship of Shri Parshottam Rupala, Union Minister of Fisheries, Animal Husbandry and Dairying has been entrusted with the task of prescribing and advocating policies related to cattle & dairy development, feed and fodder, poultry, piggery, sheep, goat, animal health and other livestock components for giving a further positive flip to the livestock sector in India.



Dr. Inderjeet Singh also got 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.

#### Research.com ranks GADVASU as top notch Veterinary and Animal Sciences university



GADVASU, Ludhiana got placed as number one university amongst 'Best Animal Science and Veterinary Universities in India' and pinned at 213<sup>th</sup> rank globally in the 1st edition of Research.com ranking based on data collected from Microsoft Academic Graph, a prominent and well-established bibliometric database of this type available to the scientific community. Dr. Y.P.S. Malik, Dean, College of Animal Biotechnology was adjudged top rated scientist at national level and secured 423<sup>rd</sup> place globally with his research publications attracting 4878 citations.

#### Dr. Y.P.S. Malik bring laurels to the University

- Dr. YPS Malik, Dean, College of Animal Biotechnology received the Fellow Award of National Academy of Veterinary Nutrition and Animal Welfare (NAVNAW) conferred at College of Veterinary Science and Animal Husbandry, Nanaji Deshmukh Veterinary Sciences University (NDVSU), Jabalpur, M.P. on September 21, 2022.
- The World Veterinary Association inducted Dr. Malik as a policy member in the pharmaceutical stewardship group.
- Dr. Malik got appointed as a member of Veterinary Council of India to make a road map for the Continued Veterinary Education programme.



#### Fisheries Scientist Earns an International Visiting Researcher Fellowship

Dr. Prabjeet Singh, Assistant Professor, College of Fisheries earned two weeks "Visiting Researcher Fellowship" at International Centre of Excellence in Seafood Science and Innovation (ICESSI), Prince of Songkla University (PSU), Hatyai Thailand under "Reinventing Faculty Programme". Under this fellowship, he got training in advanced seafood processing technologies to extract functional nutraceutical/industrial by-products, especially from shrimp.



#### Scientist bags Chairmanship in American Society

Dr. Jagmohan Singh, Subject Matter Specialist (Plant Protection) at Krishi Vigyan Kendra, Barnala of the University brought laurels by bagging the position of the Chairman of Host Resistance Committee, American Phytopathological Society, United States of America for the year 2022-23. Dr. Singh took the charge of chairmanship from Dr. Ye Xie, Associate Professor, Ohio State University, United States.



### Best Thesis Award

Dr. Kritima Kapoor, Assistant Professor, Department of Veterinary Anatomy got the 'Best Thesis Award' for Ph.D. degree at the conference organized by ICAR IGFRI Srinagar, ICAR NAHEP, Birsa Agricultural University, Ranchi and NADCC Baramulla, Jammu & Kashmir.



### Congress Attendance Fellowship

Dr. Sanjay Choudhary, Assistant Professor, Department of Livestock Production Management earned the Developing Country Congress Attendance Fellowship (DCCAF)-ISAE-2022 for travelling to North Macedonia for presenting the research abstract.



### S. Laljit Singh Bhullar, Hon'ble Cabinet Minister for Animal Husbandry, Fisheries and Dairy Development and Transport visits College of Veterinary Science, Rampura Phul

S. Laljit Singh Bhullar, Hon'ble Cabinet Minister of Animal Husbandry, Fisheries and Dairy Development and Transport Department, paid his maiden visit to College of Veterinary Science, Rampura Phul. The minister had a meeting with the college faculty in presence of Dr. Inderjeet Singh, Vice-Chancellor and discussed about the further development and progression of the college.

S. Bhullar visited different state-of-the-art facilities of the college and appreciated the role of college and the University in upliftment of the marginalized and middle class farmers of the state.



Dr. Inderjeet Singh, Vice-Chancellor welcoming S. Laljit Singh Bhullar, Hon'ble Cabinet Minister, Punjab

### Ornamental Fish Festival

Ornamental Fish Festival organized by College of Fisheries (COF) to promote ornamental fisheries through public amusement witnessed an enthusiastic public response showcasing visual delight and interest of people for ornamental fish. The event kicked off with inauguration by the Chief Guest, Dr. Inderjeet Singh, Vice Chancellor, GADVASU and remained in its full swing with hundreds of footfalls, including school children, traders, students, general public and scientists of the University. The aquaria made by fisheries students with the eye-catching themes and different ornamental fish varieties displayed in captivating aquarium setups to enthrall the visitors were the main attractions of the festival. The winners of the themed aquarium fabrication, promotional tagline, poster making and fish rearing competitions held during the festival were felicitated.



The Vice-Chancellor inaugurating the festival



School kids during their visit at Ornamental Fish Festival

## Webinar(s)/Seminar(s)/Workshop(s)/Training(s)

### World Rabies Day

College of Veterinary Science, Rampura Phul celebrated the World Rabies Day by organizing multiple programmes:



College faculty vaccinating pets

- College in collaboration with Intas Pharmaceuticals Ltd (NUVO) organized a Free Anti-Rabies Vaccination-cum-Awareness camp at its Veterinary Clinical Complex, wherein a total of 80 pets and pet owners were vaccinated free of cost by the University expert(s).
- College held an awareness camp-cum-interactive session for students of DM School, Kararwala under the theme '**Rabies: One Health Zero Deaths**'. Drawing-cum-poster making competition was also held and the winners were awarded with prizes. More than 200 students took part in the event.



Expert(s) delivering lecture(s) to school children

- College in collaboration with Civil Hospital, Rampura Phul hosted an awareness camp at the Hospital premises. The faculty from the college raised awareness amongst the patients and hospital staff on rabies in animals and its prevention. More than 50 people attended the camp. The event was sponsored by Virbac Animal Health India Pvt Ltd.
- In collaboration with Virbac Animal Health India Pvt Ltd., college also organized a seminar on rabies for faculty of College of Veterinary Science.

### Panel Discussion on African Swine Fever



Panel discussion on African Swine Fever in progress

GADVASU organized an online panel discussion to educate farmers and other stakeholders about African Swine Fever (ASF) in pigs. Expert(s) discussed about the spread of disease and stressed that it must be differentiated from Classical Swine Fever in which posterior paralysis is not common. Strategies to curb the spread of disease were also discussed. Expert(s) emphasized on developing standard operating procedures for containing ASF as Punjab has the best pig germplasm. More than 120 participants joined this discussion.

### Panel Discussion on 'Lumpy Skin Disease'



Panel discussion on Lumpy Skin Disease in virtual mode

GADVASU organized an online panel discussion on Lumpy Skin Disease (LSD) of animals to inform the farmers and other stakeholders about the epidemic and bust various myths related to it. Expert(s) apprised the participants about the disease, its spread by vectors, disease symptoms, vaccination, preventive measures, the appropriate method of disposal of the carcass of infected animal and cleared myths about its transmission through milk to humans. The methodologies to enhance the immunity of animals, treat the disease and prevent vector attacks were discussed. A total of 160 participants took part in the discussion.

### Interactive meet with Shrimp Farmers



Dr. Inderjeet Singh, Vice-Chancellor and fisheries expert(s) at farm

The University team of expert(s) led by Dr. Inderjeet Singh, Vice-Chancellor visited village Shajrana and village Gaddan Dob in Fazilka to review the progress of Shrimp Farming demonstration units and conduct an on-farm interactive meet with the farmers of the region. Dr. Singh encouraged the farmers to adopt scientific shrimp farming practices and to convert their zero earning waste lands into a remunerative resource. He also apprised the gathering of various utility services of the University for capacity building and technical support. The University has developed three shrimp farming units under Rashtriya Krishi Vikas Yojna project to demonstrate the best management practices, in special reference to biosecurity arrangements, to produce export quality shrimp for optimized economic sustainability.

### Industry-Expert Meet on World Zoonoses Day



Dr. JPS Gill, Director of Research inaugurating a demonstration model

Centre for One Health organized the Industry-expert/Faculty meet on the occasion of World Zoonoses Day under the ICAR NAHEP-Institutional Development Plan. Invited Expert(s) delivered talks on “**Enhancements in elemental analysis by Liquid chromatography inductively coupled plasma mass spectrometry (LC-ICPMS)**”, “**Novel host-centric approaches against microbial and zoonotic infections**” and “**Fresh milk quality and quality test to ensure milk safety**”.

### Workshop on ‘Climate Change and Animal Production’



Release of literature at the workshop

GADVASU, Ludhiana organized a workshop under the theme ‘**Climate change and animal production in Punjab**’ under National Adaptation Fund on Climate Change (NAFCC) funded multi-institutional project “**Towards Climate Resilient Livestock Production System in Punjab**”. Experts emphasized on creating awareness about climate change amongst farmers and other stakeholders. Information regarding the weather linked insurance and temperature humidity index was provided. The reproduction, disease forecasting and monitoring in animals under the project were also discussed.

### Training on treatment of lameness in dairy animals



The Vice-Chancellor distributing certificates to the participants

Directorate of Extension Education and Department of Teaching Veterinary Clinical Complex jointly organized a workshop on “**Lameness in Dairy Animals- Causes and Alleviation**” for veterinary officers. The University expert(s) imparted technical knowledge on anatomical structure of the hoof and the predisposing factors leading to lameness, forms and causes of lameness, diet of dairy animals according to their production status, methods of treating hoof abnormalities and the most commonly occurring lesions in the hoof of the animals. The technique of “**Functional Claw Trimming**” for diagnosis and treatment of lameness were also demonstrated.

## Training programme on Dairy Farming



Participants of training on dairy farming

Department of Veterinary and Animal Husbandry Extension Education, GADVASU organized a training programme on dairy farming. Trainees were imparted theoretical and practical know-how on diverse aspects of dairy farming encompassing nutritional and health management, comfortable housing, first-aid management, preventive vaccination and deworming, breed improvement through utilization of better germ plasm, value addition of milk etc. They also had hands-on-practice on recording basic vital parameters like rectal temperature, respiration rate, restraint, calculating weight of animals without measuring balance and milk testing.

## Training on Goat Farming



Trainees with the University expert(s)

Department of Veterinary and Animal Husbandry Extension Education organized a training programme on Goat Farming. A total of 16 trainees participated in the training and gained knowledge about goat farming enterprise. Expert(s) delivered talk(s) on breeds of goats, housing plan, breeding techniques, feed management, shed designs, weather management, vaccination protocols, diseases and their prevention, economics of goat farming etc. An exposure visit to the Integrated Farming System designed and developed by Punjab Agricultural University, Ludhiana was organized.

## On-Farm Meets to Mark National Fish Farmers Day



On-farm meet at village Badbar

College of Fisheries started a series of on-farm meet(s) to mark the National Fish Farmers' Day (NFFD) under the projects ICAR-National Campaign on "Emerging Aquaculture Systems and Practices" and Rashtriya Krishi Vikas Yojana (RKVY) projects, in collaboration with Institutional Development Plan (IDP) of ICAR-National Agriculture Higher Education Project (NAHEP). The NFFD celebrations flagged off with on-farm meets at the fish farm of S. Sukhpal Singh, Village Badbar (Barnala) and shrimp farm of S. Dilbagh Singh, S. Navdeep Singh and S. Davinder Singh in village Fakharsar Theri (Sri Muktsar Sahib). A total of 100 stakeholders, attended the event(s).

## Independent Poultry Association meeting



Meeting of Independent Poultry Association at the University

Independent Poultry Association (IPA) working under the aegis of GADVASU conducted a monthly seminar. The University expert(s) delivered talks on management of broilers during monsoon season and physical and chemical characteristics of broiler feed. Dr. Pramod Damane from Hipra India Pvt. Ltd. highlighted the importance of Biosecurity and acquainted the farmers regarding the different vaccines of the company against Newcastle and Infectious Bronchitis diseases used via oral, oculonasal and spray methods. The participants were informed about the University Feed Analytical Laboratory facility.

## Activities under Farmer FIRST Project



Project team with residents of Hamidi

- GADVASU under ICAR sponsored Farmer FIRST Project adopted one more village viz. *Hamidi* of Block *Mehal Kalan*. A meeting was held by the project team members with residents of Hamidi, where the scientists informed the gathering about various activities and interventions to be conducted in future.
- A training camp on value addition of milk products was organized at adopted village *Dhaner*. Expert(s) briefed the participants about milk adulterants, their harmful effects on health, and making of value added products from milk. Milk adulteration testing kits were also provided to farmers for checking milk adulterants at their own household level.
- S. Jagtar Singh of village-Moom, an innovative farmer and a Farmer FIRST Project beneficiary associated with GADVASU since November 2016 was awarded at National level with “**Innovative Farmer Award**” for adopting “**Integrated-Framing-System (IFS); Agri-Horti-Dairy Model**” under the theme “**Doubling Farmers Income**” on the occasion of Foundation Day of ICAR-NAARM at Hyderabad.



Participants of training camp

- A training camp was organized at *Mehal Kalan* village wherein a total of 15 farmers took part. The participants were apprised about silage making and vegetable kitchen gardening. Demonstration kits of vegetable seedlings were also provided to the farmers to promote nutritional gardening.

## Workshop on “Pig Diseases and Health Management”



University officers and experts releasing literature

College of Animal Biotechnology along with the Directorate of Extension Education organized a workshop on “**Pig diseases and health management**”. Expert delivered talk(s) on emerging health issues in pigs, various infectious diseases, especially in the context of emerging African swine fever in the neighboring Uttarakhand state, importance of adopting various biosecurity measures to get rid of various health problems and zoonoses in the piggery sector. Two booklets on infectious diseases were released.

## National Workshop on “Ethical Considerations in Scientific Writing”



Participants with expert(s) and the Dean of College of Animal Biotechnology

College of Animal Biotechnology, GADVASU in collaboration with the Association of Microbiologists of India organized a national workshop on “**Ethical Considerations in Scientific Writing**”, in hybrid mode. Expert(s) held detailed discussions on publishing process and the know-how of the ISBN, copyright related issues, principles of scientific writing and structure of various forms of manuscripts while emphasizing on unbiased writing with clarity and avoiding logical fallacies, and issues of planning and executing book and e-book publication, commercial and ethical aspects and author-editor-publisher tripartite relationship. Expert(s) motivated the scientists to pass down their knowledge in terms of books as the country has a huge gap in scientific books from native authors.

### Training(s) to Promote Aquaculture Technologies

- College of Fisheries conducted an on demand training on 'Best Management Practices for Shrimp Farming in Inland Saline Areas' for 20 fish/shrimp farmers from Mathura, Uttar Pradesh.



Training at demonstration unit at RRTC, Talwara

- A training on 'Pangas Catfish Farming and Processing' was conducted at the demonstration unit established by the University at its Regional Research and Training Center, Talwara, under RKVY project. A total of 27 participants were apprised about the added advantage of pangas farming, offering three times higher productivity/profitability.
- A group of 27 farmers was imparted practical skills in 'Carp Culture' during a 5-days training programme at College of Fisheries.

### Workshop on 3D Bioprinting



Workshop on 3D Bioprinting

College of Animal Biotechnology organized a workshop on the topic "The Potential of 3D Bioprinting in Life-Sciences" on August 29, 2022. The representatives of M/s Altem Technologies, Bengaluru demonstrated and explained the process of 3D Bioprinting.

### Expert Lecture on "Structure Assisted Single Molecule Multi-Targeting of SARS-CoV2"

College of Animal Biotechnology under DBT/Wellcome Trust India Alliance scheme organized an expert lecture on "Structure Assisted Single Molecule Multi-targeting of SARS. Dr. Shailly Tomar, Professor, Indian Institute of Technology Roorkee delivered the expert talk.

### Health Talk Series



Mr. Vivek Vansal delivering talk

College of Veterinary Science, Rampura Phul organized Health Talk Series Session-4 on 8th September, 2022 in collaboration with The Art of Living. Mr. Vivek Vansal delivered a talk on "Ways to Develop Emotional Strength and Mental Stability in Life" with special emphasis on the clarity, confidence and consciousness to increase the concentration and how to remain mentally stable during exams. Dr. Minakshi shared her views about the role of vagus nerve and the parasympathetic nervous system to keep the mind and body relaxed and calm during unfavourable conditions.

### Farmer Welfare Camp on Lumpy Skin Disease



Participants of 'Farmer Welfare Camp'

College of Veterinary Science, Rampura Phul in collaboration with Markfed Cooperative Society organized "Farmer welfare Camp on Lumpy Skin Disease Awareness and Scientific Management of Dairy Animals" at village Mehraj, Block-Phul, Bathinda on 1st September 2022. A Lumpy Skin Disease awareness camp was also organized at village Allike, (Bathinda)

### Lecture on Food Safety

College of Veterinary Science, Rampura Phul organized a lecture on the topic of "Food Safety: Yesterday, Today and Tomorrow" on 4th July 2022. Dr Jiwan Sidhu, PAU Alumnus, Director, Food Safety and Quality, Kuwait University, UAE was the Chief Speaker who laid emphasis on various concerns regarding Food Safety & Quality and stressed on the importance of various hygiene practices to ensure Food Safety.

### Workshop on Writing Perfect Research Articles



University officer(s) honoring the Guest Speaker Prof. Naresh Rakha

Directorate of Human Resource Management organized a workshop on “**How to write perfect research publication for high impact journals and dissertation**”. The Guest Speaker, Prof. Naresh Rakha, Former Dean, Post Graduate Studies, LUVAS, Hisar enlightened the participants on formulating research projects of direct application by the stakeholders, ingenious recording of research observations and explicit presentation. He also shared his views on the techniques to overcome procrastination and writers’ block.

### Partition Horrors Remembrance Day Observed

Directorate of Students’ Welfare, GADVASU as per guidelines of the University Grants Commission observed the ‘**Part-ition Horrors Remembrance Day**’ to showcase the sufferings of the partition affected people in accordance with the message floated by Sh. Narendra Modi, Hon’ble Prime Minister of India during his Independence Day Speech last year. The event witnessed a digital exhibition, sharing of experiences of migrated families from Pakistan in 1947 and apprising of the young generation about the pain of millions of people and sufferers during partition. The patriotic and nationalistic songs were performed by students.



### Student Awareness Camp

College of Animal Biotechnology organized an awareness camp sensitizing the school children at Govt. Girls Senior Secondary Smart School, Mansuran, Ludhiana regarding the scope and perspective of B.Tech. Biotechnology.



### Tree Plantation Drive



Dr. Inderjeet Singh planting a tree sapling

The Landscaping Wing of GADVASU organized a Tree Plantation Drive in the University campus as a part of celebrations of India’s 75<sup>th</sup> *Azadi ka Amrit Mahotsav* under the aegis of World Bank funded IDP-NAHEP project operational in the University. Dr. Inderjeet Singh, Vice-Chancellor inaugurated the plantation drive and said that plantation is one of the most engaging, environment friendly activities, thus everybody should participate in tree plantation to conserve and protect the planet. Dr. Baljit Singh from University of Saskatchewan, Canada and officers of the University also planted the saplings.

### Blood Donation Camp



Blood donation camp

Commemorating contributions of Guru Angad Dev Ji towards society, Guru Gobind Singh Study Circle (GGSSC), unit of the University organized a Blood Donation Camp in collaboration with Dayanand Medical College and Hospital, Ludhiana. Dr. Inderjeet Singh, Vice-Chancellor inaugurated the camp and emphasized that blood donation is another kind of ‘SEWA’ catering to the needy in critical emergencies. The students, faculty and staff of various colleges of the University donated a total of 100 units of blood during the camp.

## Activities of Krishi Vigyan Kendra(s) (KVKs)

### National Nutrition Week



Participants of awareness programme

KVK, Booh, Tarn Taran organized awareness events under the National Nutrition Week at its campus and in different villages of Tarn Taran. A total of 68 farmers and Anganwadi workers participated in the event(s). Expert(s) imparted knowledge on significance of adequate nutrition for self-sufficient lifestyle, and motivated the trainees to adopt traditional dietary pattern for maintaining their health status. An attempt was made to promote Nutri-Garden amongst the participants by distributing them vegetable seed kits.

### “Scientific Dairy Farming” Training Programme



Training on ‘Scientific Dairy Farming’

KVK, Booh, Tarn Taran organized a training programme on “Scientific Dairy Farming” under ICAR 14: Establishment of new KVK at village Booh, district Tarn Taran scheme. A total of 20 farmers attended the training. Expert(s) disseminated knowledge about the breeds and infertility management of dairy animals, lay out plans, importance of vaccination in dairy animals and made them aware about different types of diseases, their possible treatments, reproductive management, artificial insemination, nutritive value of milk and various value addition techniques etc..

### Training Programme(s) on “Scientific Goat Farming”



Participants of training with KVK expert(s)

- KVK, Booh (Tarn Taran) organized a training programme on “Scientific Goat Farming” under ICAR 14: Establishment of new KVK at village Booh. A total of 28 farmers attended the training and brushed up their knowledge. Expert(s) imparted scientific knowledge to the participants about the breeds and reproductive management of goats, importance of vaccination, artificial insemination and disease management, economic evaluation of goat farming by demonstrating the procedure involved in record keeping and enlightened trainees about various integration practices between fisheries and livestock and discussed how to better utilize waste of one system (livestock) as feed input for fish farming.
- KVK, S.A.S. Nagar (Mohali) organized a vocational training on “Scientific Goat Farming” at village Akalgarh (Mohali) to enhance the skills of farmers with new technological applications. A total of 38 farmers took part in the training programme and gained technical inputs regarding management aspects of goat rearing, nutritional requirement, feed formulations, housing for goats, selection of breeds, recordkeeping, reproductive management, common diseases control and economics of goat farm, etc.

### KVK Tarn Taran organizes exposure visit of farmers

KVK, Booh (Tarn Taran) organized an Exposure visit of Farmer Producer Organization members under the project “Formation of FPO of Dairy farmers at Tarn Taran” funded by National Bank for Agriculture and Rural Development (NABARD) at Young Innovative FPO Gurdaspur,



Participants during exposure visit at Young Innovative FPO, Gurdaspur

Punjab to provide them extensive field experience. A total of 30 farmers participated in the visit to dairy processing unit and learnt various new technologies regarding value addition of milk. Experts apprised the participants regarding importance and steps involved in formulation of FPOs and enlightened them about the benefits of associating themselves with FPO.

### Training-cum-Awareness Programme



Training-cum-awareness programme on Area Specific Mineral Mixture

KVK, S.A.S. Nagar (Mohali) in collaboration with district level ATMA organized training-cum-awareness programme at village Suhali to create awareness about the Area Specific Mineral Mixture (ASMM) supplementation for dairy animals. A total of 54 farmers attended the programme. Experts elaborated the functions of different minerals in animals' body and disease occurrence in dairy animals due to mineral deficiency. A progressive farmer, S. Jagdeep Singh Gill also shared his views on different aspects of dairy farming along with vermicomposting and organic cultivation of different vegetable crops and cereals. ASMM was also distributed to participants free of cost.

### Trainings on Hydroponic Vegetable Cultivation



KVK expert(s) imparting training on hydroponic vegetable cultivation

KVK, S.A.S. Nagar (Mohali) conducted training-cum-awareness programmes in collaboration with Mahindra Swaraj Ltd. (Mohali) in Kambala and Kandala villages of District Mohali, to sensitize farmers for adoption of hydroponic vegetable cultivation for self-reliance, to get safer food at households along with conservation of water. A total of 100 farmers participated in these trainings and got benefitted.

### Vocational Training on Fish Farming



Vocational Training on Fish Farming

KVK, S.A.S. Nagar (Mohali) organized a "Vocational training on fish farming" to encourage the youth for entrepreneurship development and to update the technical knowledge of practicing fish farmers. Expert(s) delivered technical lectures on different aspects of fish farming viz. pond design and construction, management practices, pangas farming, re-circulating aquaculture system, fish farming through biofloc technology, feeding strategies, culture of live food organisms, ornamental fish farming and the propagation of aquatic plants. An exposure visit of trainees was conducted to the integrated fish farm of S. Amarpreet Singh Hansaro, Chief Minister Awardee, who shared his success story with the trainees and encouraged youth to tap the tremendous potential of fish farming.

## Awareness Programme on “Lumpy Skin Disease in Dairy Animals”



Participants of awareness programme with KVK expert(s)

KVK, Booh, Tarn Taran organized an awareness programme on “**Lumpy Skin Disease in Dairy Animals**”. A total of 50 farmers attended the programme. Expert(s) apprised the participants about the symptoms of LSD *viz.* high fever, appearance of highly characteristic nodular skin lesions of 10-50 mm in diameter on the skin of the head, neck, perineum, genitalia, udder and limbs. The causes of disease, its transmission, pathogenesis, and management strategies including prevention and vaccination were discussed. The myths regarding consumption of milk produced by an infected animal were also clarified.

## Vocational Training on “Scientific Vegetable Farming”



Vocational Training on “Scientific Vegetable Farming”

KVK, S.A.S. Nagar (Mohali) organized a vocational training on “**Scientific Vegetable Farming**” at Village Chanalon (Mohali). Expert(s) delivered lectures on cultivation practices of vegetables, nursery raising, polyhouse farming, urban farming, organic farming, importance and methods of preparation of vermi compost, etc. Expert(s) emphasized on use of trap crops, use of pheromone, light, water and sticky traps for control of insects.

## Dairy farmers from Bihar visit Krishi Vigyan Kendra, Booh (Tarn Taran)

Thirty five farmers from Bihar pursuing training on Dairy farming from Northern Regional Demonstration and Training Centre, National Dairy Development Board, Jalandhar (NDDDB) visited KVK, Booh (Tarn Taran) and got apprised about the various activities of KVK for socio- economic upliftment of the farmers. Expert(s) informed the visitors about silage feeding in dairy animals, setup of integrated farming system, importance of FPOs and steps involved in its formulation, reproductive management and artificial insemination in dairy animals, importance of vaccination, different types of diseases and their possible treatments etc.

## In-service Training Programme on “Organic Vegetable Kitchen Gardening”



Training programme on vegetable kitchen gardening

Krishi Vigyan Kendra (KVK) of GADVASU at S.A.S. Nagar (Mohali) organized an in-service training on Horticulture entitled “**Organic Vegetable Kitchen Gardening**” to promote crop diversification and create awareness on safe and organic vegetable produce. A total of 50 trainees participated in the training programme and got benefitted.

## Retirement

Dr Sandeep Sodhi Kakkar, Professor and Head, Department of Dairy Chemistry, College of Dairy Science and Technology retired on 30<sup>th</sup> September 2022 after serving the University at various positions for more than 30 years. She was also holding an additional charge of Head, Department of Dairy Technology and Department of Dairy Microbiology, College of Dairy Science and Technology.

