



## *e-Newsletter*

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

**Top Ranked State Veterinary University of India as per  
ICAR Ranking for the Year 2019**

*www.gadvasu.in*

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### January - March 2021 (I)

#### From the Desk of the Vice-Chancellor



Guru Angad Dev Veterinary and Animal Sciences University (GADVASU) undertakes the applied research envisioned to mitigate the problems of livestock and augment the economic returns of farmers for furtherment of livestock sector. The scientific knowledge and technologies developed are disseminated through extension activities to make these available to the farmers and other stakeholder.

In this pursuit, the University, with the support of Government of Punjab, has planned to extend the specialized veterinary services through establishment of Multi-Specialty Veterinary Hospital(s) and Regional Research-cum-Training Centre(s) in remote areas in the State so that the farmers from respective areas who cannot ferry the sick animals to GADVASU for treatment may have access to the specialized veterinary services in their region. This has been fructified at Village Sappanwali, Fazilka. The University has also entered in several Memorandum of Understanding (MoU) with industry for optimum utilization of the technologies developed by its scientists for benefitting the livestock sector.

I feel pleasure that for expediting the administrative and official activities and practices, new Statutes of the University (administrative and pensions) have been compiled. These would serve as ready reckoner(s) for the University fraternity, enhancing the work efficiency and smooth functioning of official accomplishments for overall ascendancy of the GADVASU. The newly established Directorate of Human Resource Management (DHRM) will have a dynamic role of assisting the University Administration for continuous growth and development of human resources of the University by identifying the strengths and gaps and providing an objective mechanism for monitoring this. The University has a vibrant work culture. The DHRM has been entrusted with the responsibility to cherish excellence by creating a dynamic and challenging professional development environment.

GADVASU has made a remarkable progress in academics too. Granting of the prestigious master's teaching programme with specialization in Animal Biotechnology (M.Sc. -Biotechnology) by the Department of Biotechnology (DBT), Ministry of Science and Technology, Government of India adds another feather in the cap of the University. The Institutional Development Plan (IDP) has been pivotal for strengthening of academic infrastructure in the University encompassing smart classrooms, advanced computer laboratories etc. The outcome of 'Fisheries Development Project' funded under Pradhan Mantri Matsya Sampada Yojana (PMMSY) will be crucial to boost up the production potential of marine and inland aquatic resources.

I attribute the academic, research and extension accomplishments of the GADVASU to the sincere and meticulous efforts of students, staff and faculty under the supervision of young and energetic team of University Officers, despite testing times in COVID-19 Pandemic.

**(Inderjeet Singh)**  
**Vice-Chancellor**

## Laying of Foundation Stone of GADVASU's Multi-Specialty Veterinary Hospital and Regional Research-cum-Training Centre, Fazilka

Sh. Sunil Kumar Jakhar, President, Punjab Pradesh Congress Committee, S. Manpreet Singh Badal, Hon'ble Finance Minister, Punjab and Sh. Vijay Inder Singla, Hon'ble Public Works Department and Education Minister, Punjab laid the foundation stone of Multi-Specialty Veterinary Hospital and Regional Research-cum-Training Centre (MSVH & RRTC) at Village Sappanwali (Fazilka).

Dr. Inderjeet Singh, Vice-Chancellor of GADVASU informed that the University has taken an initiative to extend the specialized veterinary services through establishment of MSVH & RRTC at different locations of the State, first being at Village Sappanwali, Fazilka. Spread on a land area of 25 acres, having a budgetary estimate of Rs. 62.14 crores, the centre's dedicated Veterinary Hospital will be equipped with the state-of-the-art facilities for promotion of area specific need based research. This will also be pivotal in imparting trainings to the farmers for rearing livestock in scientific manner for their economic upliftment through integrated farming.



## Sh. V.K. Janjua (IAS) and Other members of the Board of Management visit GADVASU

Shri. V.K. Janjua, IAS, Additional Chief Secretary, Department of Animal Husbandry, Dairy Development & Fisheries, Punjab and other members of the Board of Management of GADVASU visited the University where an exhibition was held to show-case various activities of GADVASU. The Board approved various agendas including establishment of Directorate of Human Resource Management and Statutes of the University for expedition of the academic and administrative activities.



## Yeoman Service by Covid Testing Laboratory

GADVASU has contributed significantly by testing more than 2.5 lakh samples at its COVID Testing Laboratory. Dr. J.P.S. Gill, Director Research and Nodal Officer of COVID Laboratory shared that the Corona Warriors of the University are working continuously in three shifts and in this hour of crisis more than 1500 samples are being tested daily.

Dr. Inderjeet Singh, Vice-Chancellor commended the entire Covid Laboratory team for this meticulous achievement. He expressed his gratitude to the Hon'ble Chief Minister of Punjab, Capt. Amarinder Singh for showing such a confidence in the University by opening COVID Laboratory under 'Mission Fateh' of the state. Dr. Singh also acknowledged the support and cooperation extended by Sh. Varinder Kumar Sharma, IAS, Deputy Commissioner, Ludhiana and Dr. R.K. Bagga, Ex-Civil Surgeon, Ludhiana.



## Teaching and Research Activities

### GADVASU bags prestigious national postgraduate programme

College of Animal Biotechnology (COABT) has been granted a prestigious master's teaching programme in Animal Biotechnology viz. M.Sc. (Biotechnology) by the Department of Biotechnology (DBT), Ministry of Science and Technology, Government of India.

The programme includes a financial support of Rs. 1.80 Crore for strengthening of teaching and research facilities in the College. Every year 10 students from various states of the country will enrol for this postgraduate programme in COABT and DBT will provide fellowships and contingencies for their research work. Admissions to the programme will be made through the Graduate Aptitude Test–Biotechnology (GAT-B) conducted by the Regional Centre for Biotechnology on behalf of the Department of Biotechnology, Government of India.

Dr. Inderjeet Singh, Vice-Chancellor congratulated Dr. Yashpal Singh Malik, Dean COABT and coordinator of the programme and his team for bringing a prestigious national level programme to the University and said that it will ensure quality teaching, training and nurturing excellence in Biotechnology education for generating applied research and development activities in the country.

### Processed Yoghurt Cheese: A new addition in the basket of GADVASU

Mr. Venus Basal, Assistant Professor in Dairy Technology has optimized the method for the manufacturing of 'Processed Yoghurt Cheese'. Having lower fat content and rich in minerals particularly calcium and phosphorus, the product will give an additional healthy alternative to the consumers in comparison to other spreads available in the market and could be a good source of nutritionally rich milk proteins in the diet of consumers. Dr. Inderjeet Singh, Vice-Chancellor congratulated the scientists of College of Dairy Science & Technology for standardization of this technology. He invoked entrepreneurs, dairy industry and other stake holders to visit the University for evaluation and adoption of various technologies developed by its' scientists.



### University pacts with BCL industries for livestock feed

GADVASU, Ludhiana and BCL Industries Limited, Bathinda, Punjab, signed a Memorandum of Understanding (MoU) to study the utilisation of Dried Distillery Grains with Solubles (DDGS) as livestock feed. On the behalf of GADVASU, Dr. J.P.S. Gill, Director of Research and on the behalf of BCL Industries Ltd., Mr. Kushal Mittal, Joint Managing Director signed the MOU in the presence of Dr. Inderjeet Singh, Vice-Chancellor, GADVASU. Dr. Singh congratulated the faculty of the Department of Animal Nutrition and Officials of BCL industries for this academia-industry joint venture, whose outcome would be crucial in raising income of livestock farmers.



Dr. Inderjeet Singh, Vice-Chancellor handing over signed copies of MoU to Dr. Gill and Sh. Mittal

### College of Animal Biotechnology organizes its first Foundation Day

College of Animal Biotechnology celebrated its' foundation day. During the festivity, the competitive events organized witnessed marvelous enthusiasm and participation from the students. Dr. A.K. Rawat, Advisor, Department of Biotechnology, Government of India, New Delhi and Dr. K. Kumanan, Former Director of Research, Dean, Faculty of Basic Sciences, Tamil Nadu Veterinary and Animal Sciences University graced the occasion on cultural eve-cum-prize distribution. Dr. Inderjeet Singh, Vice-Chancellor, GADVASU advised the students to take up their studies as-well-as involvement in co-curricular activities for all round personality development.

## University bags 'Fisheries Development Project'

College of Fisheries, GADVASU received fisheries development project with 100% Central Government support under Pradhan Mantri Matsya Sampada Yojana (PMMSY) launched by Ministry of Fisheries, Animal Husbandry and Dairying, Government of India. The project aims to harness the production potentials of marine and inland aquatic resources. Under this project, the college will develop a 'Capacity Building Resource Centre' with a total budget of Rs. 183.85 lakh, for promoting low volume intensive aquaculture technologies viz. re-circulatory aquaculture system (RAS) and biofloc aquaculture in the region through an integrated research, adopting demonstration-cum-skill development module. Further, the facility will cater the much sought-after training needs to set up intensive aquaculture systems in Punjab and its neighboring states.

### GADVASU Scientist Leads the Central team for investigation of Avian Influenza Outbreak

Dr. J.S. Bedi, Director, Centre for One Health has been assigned to lead the Central team of three members for monitoring and epidemiological investigation in the epicenters of Avian Influenza Outbreak of 2021, constituted by Ministry of Fisheries, Animal Husbandry and Dairying, Department of Animal Husbandry and Dairying, Government of India.

### Launch of website of Institutional Development Plan (IDP) and reference material

A dedicated website for IDP, GADVASU showcasing the events of past and forth-coming events, team members and resource materials for the students was launched by Dr. R. C. Agrawal, DDG education and National Director, NAHEP.



Dr. R.C. Agrawal inaugurating the website of IDP

Four orientation booklets and Internship pack, and other scientific literature were released by Dr. Inderjeet Singh, Vice-Chancellor, GADVASU for ready reference of students.



Dr. Inderjeet Singh releasing the reference material

### Creation of new facilities under IDP

New facilities encompassing smart classrooms and advanced computer laboratories have been created under IDP for strengthening academic programmes for improved learning outcomes. CCTV cameras have been installed in and around campus to ensure safety of students, faculty and staff as-well-as the University stores. Personal lockers and bookcases have been introduced for the safety of belongings and convenience of students.

### Republic Day Celebrations

The University celebrated the 72<sup>nd</sup> Republic day with patriotic fervor and enthusiasm.

Dr. Inderjeet Singh, Vice-Chancellor, Chief Guest of the function unfurled the National Flag and highlighted the importance and spirit of the Indian Constitution for the development and prosperity of people. R&V Sqn. NCC cadets of GADVASU presented the guard of Honour. Dr. Singh added that by virtue of the University's achievements, many national and international institutes are interested to collaborate in different areas. Dr. Singh invoked the need for setting up priorities and goals by the University fraternity in the light of New Education Policy of the country. Students were honored for their achievements in different extra-curricular activities. Students and staff members filled colors, emotions and rhythm with their performances in the function. Officers, teachers, employees and students of the University attended the function with a great zeal.



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

#### Dr. Y.P.S. Malik honoured with National Fellowship

Dr. Yashpal Singh Malik, Dean, College of Animal Biotechnology was bestowed with the prestigious 'Fellow Award' of the Biotech Research Society, India (BRSI) for his contributions and achievements in the field of Animal Biotechnology. His contribution on zoonotic pathogens affecting both humans and animals was adjudged for this prestigious award. Dr. Malik is leading the team of experts at GADVASU in the area of animal genomics, molecular diagnostics and vaccinology for facilitating the livestock sector.



#### Dairy Microbiologist got Associateship of National Academy of Dairy Sciences

Dr. Harsh Panwar, Assistant Professor (Dairy Microbiology) has been conferred Associateship of National Academy of Dairy Sciences - India for 2021.



#### Inspiring Lady Veterinarian Award

Dr. Simarjeet Kaur has been bestowed with Inspiring Lady Veterinarian Award 2021 by Pashudhan Praharee on the occasion of International Women's Day 2021.



#### Fisheries Scientists brought laurels

Fisheries scientists brought laurels during the 4<sup>th</sup> International Conference on "Current Approaches in Agricultural, Animal Husbandry and Allied Sciences for Successful Entrepreneurship (CIAAAH ASSE-2021)" organized by the Agro Environmental Development Society (AEDS), in collaboration with Centre for Agribusiness Incubation and Entrepreneurship, Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya, Gwalior (Madhya Pradesh) India.

- Dr. Amit Mandal was conferred with 'Young Scientist Award in Fisheries Science' for his presentation on 'Comparative dosage evaluation of castor bean (*Ricinus communis*) seed as fish toxicants for tilapia (*Oreochromis mossambicus*) and its residual toxicity effect on Amur carp (*Cyprinus carpio haematopterus*)'.



- Dr. Sachin Onkar Kharnar bagged 'Best Fisheries Scientist Award-2021' for paper presented under the theme 'Ornamental Fisheries: An approach towards livelihood generation'.



#### Awards in IDP-NAHEP Sponsored National e-Conference

The University scientists and students bagged award(s) in the IDP-NAHEP sponsored National e-conference on 'Igniting young minds for sustainable growth through entrepreneurship and skill development: a vets vision' held at GADVASU, Ludhiana.

- Dr. Pavan Kumar was awarded first prize for his poster entitled 'Entrepreneurship development through meat and egg processing' presented under Theme I: Value Addition and Entrepreneurship Development.
- Dr. Leishangthem Geeta Devi bagged first prize for poster presentation 'Control of zoonotic tuberculosis: a one health approach' under Theme III: One Health Concept.
- Dr. Jyoti got first prize for her presentation 'Integrated and sustainable control of cattle tick infestation' under Theme IV: Clinical management of animals.



- Dr Kritima Kapoor, College of Veterinary Science, Rampura Phul got first prize for poster presentation on emerging aspects of livestock sector with its integration with other sectors in e-canvas theme 'Strategies for doubling farmer's Income'.
- Postgraduate students: Dr. Moon Moon Satpathy, Kriti Singh, Ravneet and Niharika Thakur, and Undergraduate students: Harphool Singh, Pulkit Sharma and Guranjanpreet Singh also seized first prize(s) for presentation of their work(s) under different themes of the e-conference.
- The team of Pulkit Sharma, Guranjanpreet Singh, Amanpreet Kaur from College of Veterinary Science, Ludhiana won the overall championship while team of Aastha and Sakshi Bhardwaj attained the second position in quiz event 'Vet Intellectuals'.

### GADVASU Scientists appointed as Master Trainers under PMFME

- Dr. Om Prakash Malav and Dr. Rajesh V. Wagh have been nominated as Master Trainers in Meat and Poultry Products Processing for Punjab state under the Centrally Sponsored Prime Minister Formalisation of Micro food processing Enterprises Scheme (PMFME Scheme), Government of India.
- Dr. Amandeep Sharma, Associate Professor (Dairy Engineering) and Dr. Gopika Talwar, Assistant Professor (Dairy Engineering) have been trained as Master Trainers for imparting 'training to trainers' by Ministry of Food Processing Industries through NDRI, Karnal under PMFME.

### Animal Biotechnologists Brought Laurels during e-Symposium

- Dr(s) Afnan Saleem, Satparkash Singh, B.V.Sunil Kumar, R.K. Choudhary and R.S. Sethi bagged the 'Young Scientist Award' for their presentation on 'Lysyl oxidase as a marker for diagnosis of canine mammary tumors' in e-symposium sponsored by Society of Immunology and Immunopathology (SIIP) on 'Emerging Focus on Immunology in Augmenting Animal & Human Health' organized by College of Animal Biotechnology, GADVASU.

- Dr(s). Gurvinder Kaur, Saloni Singla, Ramneek and R.S. Sethi bagged 'Best Oral Presentation' and 'Best Poster Presentation' awards for their presentations on 'Exposure to 2,4-D downregulates the pulmonary expression of Gsk3 $\beta$  in a mouse model' and 'Exposure to 2,4-D induces oxidative stress and upregulation in Wnt signaling pathway in mouse lung', respectively.

### Best/Innovative Article Award(s)

Articles submitted to 'Agriculture & Food: e-Newsletter' by the fraternity of College of Animal Biotechnology were adjudged winners for the Best/Innovative Article Award(s).

- Article entitled 'Common Routes of Pesticides Exposure and its Protective Measures' authored by Srishti Prashar, Nasrul I. Shaikh, Prakriti Sharma, S.S. Sodhi and R.S. Sethi got 'Best Article Award'.
- Paper on 'Pesticide Usage and its Impact on Biodiversity' by Nasrul I. Shaikh, Srishti Prashar, Prakriti Sharma, and R.S. Sethi also bagged 'Best Article Award'.
- Publication entitled 'Pesticide Residues in Food' contributed by Prakriti Sharma, Srishti Prashar, Nasrul I. Shaikh, S.S. Sodhi and R.S. Sethi received the 'Innovative Article Award'.

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

#### International e-symposium on immunology

College of Animal Biotechnology organized International e-symposium sponsored by the Society of Immunology and Immunopathology (SIIP) under the theme "Emerging Focus on Immunology in Augmenting Animal & Human Health". Dr. B. N. Tripathi, Deputy Director General (Animal Sci-

ences), ICAR, New Delhi inaugurated the e-symposium along with Dr. Inderjeet Singh, Vice-Chancellor. A total of 163 participants took part in the symposium. Dr. Praveen Malik, Animal Husbandry Commissioner, Government of India, New Delhi was the Chief Guest of the valedictory function along with Dr. K.P. Singh, Vice-President, SIIP and Dr. R.S. Chauhan, Secretary General, SIIP. The symposium concluded with recommendations to have state-of-the-art national level research centre for immunological work to effectively control various emerging and re-emerging diseases by One Health approaches.

#### International webinar on Next Generation Sequencing

College of Animal Biotechnology organised an international webinar on the successes and challenges of Next Generation Sequencing (NGS) in

The image shows a presentation slide on the left and a video conference grid on the right. The slide is titled "PIM Depletion Reduces IL-8 Expression and Lung Inflammation" and features a bar graph comparing IL-8 expression in Marmosets haemorrhagic and Marmosets haemorrhagic and gadolinium chloride (GdCl3). The graph shows a significant decrease in IL-8 expression in the GdCl3 group. Below the graph is a microscopic image of platelets labeled "IL-8 in platelets". The video conference grid shows several participants in a grid layout, with the name "rsharma" visible in the bottom right corner. The text "E-symposium in progress" is displayed at the bottom of the slide.

Veterinary Diagnostics under the Institutional Development Plan (IDP) cell of the University. Expert(s) shared that the DNA sequencing has revolutionized the field of genomics and is helpful in characterization of the whole genome sequence of a previously identified pathogen. The usefulness of technique in mapping and comparing the respiratory viromes of commercial chickens, backyard poultry, and migratory birds was discussed. The techniques like NGS and genome sequencing are pivotal for early detection of pathogens and taking apt measures in combating COVID-19 like infections. Around 100 scientific fraternity participated in the webinar, which was also live streamed on 'Facebook'.



Dean, COABT honouring expert(s)

### International e-Training Course on Biotechnological Approaches

College of Animal Biotechnology organized training course on '**Biotechnological Approaches in Animal Research and Disease Diagnosis**' aimed to provide skill-based learning of biotechnological techniques to post-graduate students, faculty and other stakeholders of veterinary and animal sciences. A total of 127 participants attended the online training. Expert(s) disseminated scientific knowledge on burgeoning techniques of molecular biology that could make a significant contribution to the scientific communities and societies. The strategies of vaccine development and production of rapid diagnostic assays were also discussed.

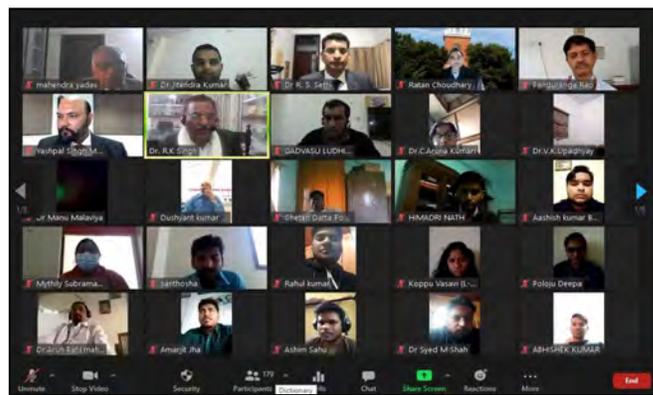
### Celebration of 'World Water Day'

- College of Dairy Science and Technology held an international webinar on 'Water Footprint Analysis in Dairy Sector' to mark the World Water Day. Expert(s) delivered talk(s) on 'Water/Energy/Dairy Nexus for Regional Sustainability and Resilience', water foot printing concept, nanobubbles technology and its applications in agriculture, fisheries and dairy sector.

- College of Fisheries celebrated the World Water Day virtually advocating not to overexploit, misuse, waste and pollute freshwater resources, so as to conserve water for future generations. Expert(s) highlighted the importance of water in human life in general and its' role in fisheries sector with special reference to freshwater aquaculture. The efforts made by the University to promote low volume aquaculture technologies, involving species and culture system diversifications were discussed. Multiple utility of water through recycling with a message 'No drop of water shall go waste' was promoted. The celebration concluded with the thoughtful message "*Let our water bodies breathe to make us breathe*".

### International Webinar on COVID-19 Pandemic: Concerns & Perspectives

College of Animal Biotechnology organized an International Webinar on '**COVID-19 Pandemic: Concerns & Perspectives**' in collaboration with the Indian Virological Society (IVS) for updating the knowledge of participants on the COVID-19 pandemic. The webinar attended by more than 500 participants took in its' ambit the invited talks and panel discussions by eminent scientists from the national and international academics, research and industry. The webinar was also live streamed on *Facebook* and *YouTube*. Expert(s) elaborated the structure and transmission of COVID-19 virus, efforts for the development of COVID-19 vaccine, challenges associated with its' safety, transport and delivery of vaccine, interconnection of SARS-CoV-2 with emergence of various infectious diseases, role of veterinarian in response to COVID-19 situation and Indian COVID-19 scenario, supported by authentic data.



Webinar on COVID-19 Pandemic

### Dairy Farming Training Course

The University conducted dairy farming training course aimed at giving an impetus to farmers to start their own enterprises to bring diversification in agriculture and generate employment avenues, which is need of the hour for economic sustainability. The training programme embarked on various aspects of dairy farming viz. breeds and breed improvement, reproductive management, Artificial Insemination, comfortable sheds, feed and fodder, green fodder availability round the year, vaccination and deworming, clean milk production, first-aid, value addition of dairy products etc. An exposure visit to dairy farm, pathology laboratory, clinics and information centre was also organized to inculcate entrepreneurship and practical skills amongst the farmers.



Dr. Inderjeet Singh, Vice-Chancellor releasing reference material

### Entrepreneurship Oriented Training on Ornamental Fish Breeding Techniques

Department of Aquaculture, College of Fisheries conducted training on 'Breeding and Seed Production of Livebearer Ornamental Fish' for developing entrepreneurial skills amongst graduating students, under ICAR Development Grant 'Strengthening and Development of Higher Agricultural Education in India SC-SP Component'.

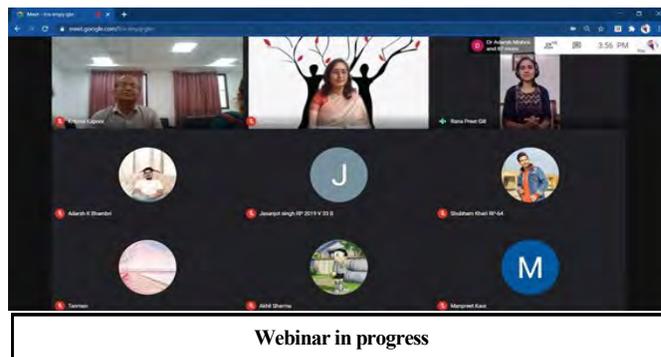


Training on Ornamental Fish Breeding Techniques

The students were apprised of the promotional schemes offering fiscal support for ornamental fisheries entrepreneurship and were guided to develop business plans for establishing small scale backyard ornamental fish breeding and seed production unit, as a start-up enterprise with less land and credit requirements. Video on ornamental fish breeding, developed by the department under the aforementioned scheme of ICAR, was also provided to the students for future reference and guidance.

### International Women's Day

College of Veterinary Science, Rampura Phul celebrated International Women's Day, organizing a webinar on 'Role of Women in Veterinary Science'.



### Livestock Nutrition Awareness Week Celebrated

GADVASU celebrated Livestock Nutrition Awareness Week taking in its' ambit diverse activities viz. a workshop on 'Recent Trends in Livestock Nutrition to optimize their Productivity', exposure visit to feed manufacturing plant of Markfed in Kapurthala, hands-on training for manufacturing mineral mixture, Refresher Training for Field Veterinarians at Batala and a training programme on Balanced Nutrition for Dairy Farmers at village Manupur in Ludhiana district.

Krishi Vigyan Kendra(s), Mohali, Barnala, and Tarn Taran also organized awareness camps and training programmes on the importance of balance nutrition for the farmers.

Dr. Inderjeet Singh, Vice-Chancellor said that promoting balanced nutrition is critical to boost productivity of livestock in India. Thus, the livestock farmers must embrace latest technological developments for feeding management of their animals.

### Training programme(s) on Goat Farming

Department of Veterinary and Animal Husbandry Extension Education, GADVASU organized three training programmes on Goat Farming for the empowerment and upliftment of small and marginal farmers by disseminating them knowledge about the scientific livestock rearing practices. The training programme encompassed the diverse topics of goat farming viz. breeds, breeding, management, shed design, weather management, vaccination protocols, diseases and their prevention, value addition of meat, milk, economics of goat farming etc. The practical training on handling of goats, measuring temperature, signs of healthy animals, age determination by seeing dentition and hoof management was also imparted.



Training on goat farming

### Webinar Series by Centre for One Health

Centre for One Health of GADVASU organized a national webinar series for Strengthening of higher education in veterinary and animal sciences under the ICAR scheme. The expert delivered talk(s) on water hygiene and its importance in animal husbandry practices, emerging zoonotic diseases and their relevant management strategies, Antimicrobial Resistance, recent diagnostic tools for parasitic zoonoses, epidemiological and management perspectives of Avian Influenza viruses, epidemiology and diagnostic of Q fever in India. The students actively participated and interacted with the experts.

### Training on Scientific Rearing of Livestock

Department of Livestock Production Management organized two training programmes on '**Scientific Goat farming as a source of income for rural farmers**' and '**Rural upliftment through scientific Poultry farming**' under the aegis of Rashtriya Krishi Vikas Yojana (RKVY) programme operational in the University. A total of 25 farmers actively participated in each of the training programmes and got benefitted.

### IFFA Meeting of held at College of Fisheries

The meeting of Innovative Fish Farmers Association (IFFA), Punjab was held at College of Fisheries providing a platform for fish farmers to discuss their queries related to fish culture. In view of the transition phase of winter to summer, expert(s) advised farmers to take special care of water quality and feeding management. The participants were also apprised about different schemes under 'Pradhan Mantri Matsya Sampda Yojna (PMMSY)', recently launched by the Department of Fisheries, Ministry of Fisheries, Animal Husbandry and Dairying, New Delhi for development of Fisheries in the country in a holistic manner. Expert(s) interacted with the farmers and addressed their queries with respect to plankton productivity, balanced feeding strategies and health management of fish during the summers.



Participants of IFFA Meeting with University Expert

### Entrepreneurial Training in Aqua Clinic Techniques

Department of Aquatic Environment, College of Fisheries conducted '**Entrepreneurial Training Program in Aqua Clinical Techniques**' for post-graduate students under the aegis of the ICAR Development Grant 'Strengthening and Development of Higher Agricultural Education in India - SC-SP Component'. The students were imparted practical knowledge from setting up an 'Aqua-Clinic' to the advanced techniques in disease diagnosis and management, with the major objective of fostering their mindset towards entrepreneurship in aquacultural practices. Students received hands on training for evaluating antibacterial activity of phage through spot and plaque assays. Entrepreneurial video on aqua-clinical techniques and an aquaculture health management guide for prevention and treatment of common diseases in freshwater fish developed under the same grant, were also provided to the students for reference.

### Training programme(s) on Poultry Farming

Department of Veterinary and Animal Husbandry Extension Education organized two training programmes on Poultry Farming. The participants were imparted basic knowledge on different aspects of poultry farming i.e. breeds and breeding techniques, feeding management of different categories of birds, day to day care and seasonal management, shed design and structures, weather management, light requirement, vaccination protocols, diseases and their prevention, value addition of egg and meat, economics of poultry farming business etc. Besides theoretical lectures, practical exposure on handling of birds, measuring vital parameters, signs of health was also provided to the trainees.



Participants of training on poultry farming

### Training Programme on Hygienic Meat Production and Processing

Department of Livestock Products Technology organized a training programme on 'Hygienic Meat Production and Processing for Value Added Meat Products' for the meat industry personnel and entrepreneurs belonging to SC/ST categories with an intention to educate them about clean meat production practices, preparation of value added meat products and entrepreneurship development, under the financial support by Rashtriya Krishi Vikas Yojna. The training comprised of the topics of basics of meat hygiene, visit to poultry processing plant, acquaintance with the machinery and equipments, slaughtering and dressing operation of poultry, sheep, goat and pig etc.



The trainees were also apprised about the FSSAI norms and other legislations for setting up a butcher's shop. Practical demonstration of preparation of chicken pickle and preparation of value added emulsion based meat products was also provided.

### Workshop on Recent Advances in Livestock Management

Directorate of Extension Education organized workshop on 'Recent advances in Livestock management for enhancement of livestock productivity' for scientists of livestock production from KVKs of Punjab. Expert(s) discussed the possibilities of integrated farming systems to increase the income of pig and fish farmers. Dr. Inderjeet Singh, Vice-Chancellor highlighted the efforts being undertaken by the University for enhancing livestock productivity and urged the scientists to encourage the farmers for record keeping and identification of elite animals for the propagation of superior germplasm. He also stressed on the need to unify the extension services of the University and its related departments for the benefit of farmers.



Dr. Inderjeet Singh distributing certificates of participation

### Training programme on 'Skill Development in Viral Disease Diagnosis and Prophylaxis'

College of Animal Biotechnology conducted training programme on 'Skill Development in Viral Disease Diagnosis and Prophylaxis', under the aegis of the research project 'Molecular characterization of Canine Distemper Virus field isolates for selection of suitable vaccine candidate(s)' under the DBT-GADVASU-Canine Research Centre and Networks programme. The training witnessed participation of a total of 90 scientific fraternity. The programme was also live streamed on Facebook.

### Trainings to prepare students for National/ International competitions

College of Animal Biotechnology organized a series of expert lectures and training programmes to prepare students for National/International competitions under ICAR scheme 'Strengthening and Development of Higher Education in India'. Expert (s) deliberated talks about the artificial intelligence in animal health, carrier opportunities in biological sciences, public speaking, start-up entrepreneurship, ABCD of Happiness, online tools to access information, scientific writing skills to match the standards of high impact journals, stress management and communication skills for entrepreneurship development.

### Virtual Training on Best Management Practices for Shrimp Farming

College of Fisheries organised training programme on 'Best Management Practices (BMPs) for Shrimp Farming'. A total of 78 participants attended the training programme and got benefitted. The participants were sensitized about the importance of abidance to biosecurity, BMPs and food safety standards in successful adoption of shrimp farming in inland states like Punjab, Haryana, Rajasthan, Uttar Pradesh etc. Complete package of practice for shrimp farming in inland saline areas, along with major constraints, remedial adaptive measures and guidelines, was provided to the participants through effectually tailored technical sessions.



Virtual training in progress

### Training Programmes on Dairy Entrepreneurship/Farming

- College of Veterinary Science, Rampura Phul conducted training programme for 'Dairy Farmers/Entrepreneurs' under Skill Development Programme, Pradhan Mantri Kaushal Vikas Yojana (PMKVY) sponsored by the Ministry of Agriculture & Farmers Welfare and Ministry of Skill

Development and Entrepreneurship (Agriculture Skill Council of India). The training programme covered different aspects of dairy farming viz. selection of quality dairy animals, scientific breeding strategies, shelter/housing, feeding, reproduction, healthcare and processing of milk for value addition etc. to inculcate entrepreneurship skills amongst the dairy farmers.



Trainees with experts

- College of Veterinary Science, Rampura Phul organized a training programme for farmers of scheduled caste on Dairy Farming at village Panjkosi (Fazilka) under Rastriya Krishi Vikas Yojana. A total of 80 farmers participated in the programme and got benefitted. Expert(s) apprised the participants about various aspects of dairy farming viz. farm management, nutrition and reproductive health, etc. The participants were provided area specific mineral mixture, Uromin brick and relevant literature free of cost.



Distribution of mineral mixture and other material to participants

### Veterinary Polytechnic and RRTC Kaljharani, Bathinda organized Dairy training

Veterinary Polytechnic and Regional Research and Training Center, Kaljharani, Bathinda organized Dairy training programme under the scheme 'RKVY-12-DEE: Enhancement of Production and Productivity Potential of Livestock, Poultry and Fisheries Sector for Socio-economic upliftment of the farmers of Punjab'. A total of 30 dairy farmers belonging to SC category participated in the event and gained knowledge from expert(s) about scientific dairy farming.

### Workshop on Antibiotic Susceptibility Testing

The Department of Veterinary Microbiology and Centre for One Health of the University organized national level online workshop for academicians, research scholars and Veterinary Officers for capacity building on Antibiotic Susceptibility Testing under the scheme 'ICAR Niche Area of Excellence on Antibiotic Resistance: Animal Human Interface'. A total of 60 professionals participated in the event. Expert(s) apprised the participants about the upcoming role of participatory epidemiology in context with the public health issues like antimicrobial resistance and explained various case studies going on at Centre for One Health in participatory mode to address the antimicrobial resistance at human-animal-environmental interface. The participants were provided an overview on practical application of the conventional as well as novel molecular tools for Antimicrobial Resistance Testing.

### Skill Development Training Programmes on Livestock

Department of Livestock Production Management organized two training programmes on '**Backyard poultry farming for inculcation of entrepreneurial skills among young farmers of Punjab**' and '**Experiential learning for youth of Punjab for developing entrepreneurial skills in piggery**' under the aegis of ICAR, Entrepreneurial development programme for SC Beneficiaries. The participant farmers were imparted hands-on-training on various aspects of backyard poultry farming and experts delivered lectures with practical tips on basic principles of housing and rearing, brooding care, nutritional requirements and health aspects of poultry. Farmers were apprised about various aspects of pig farming viz., care of young piglets, adults as well as housing, breeding, health and marketing.



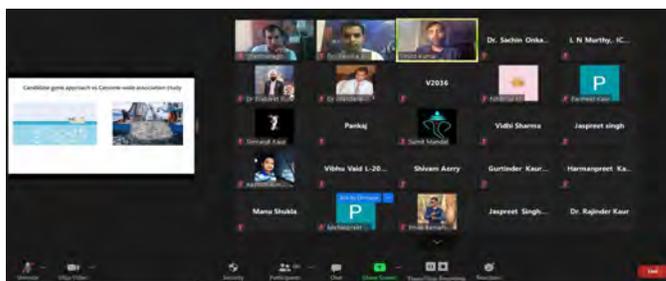
Participants of the training programme

### National Science Day

- College of Veterinary Science, Rampura Phul celebrated National Science Day under the theme '**Future of Science Technology and Innovation (STI): Impacts on Education, Skills and Work**' to develop interest in Science amongst youth and make them realize its importance. An essay writing and elocution competition was conducted for undergraduate students.



- College of Fisheries celebrated 'National Science Day' in virtual mode. Expert(s) delivered talk(s) emphasizing the importance of studying the fundamentals of genetics to understand the mechanisms of diseases in humans. A College Level Quiz Competition was also organized for students of the college in which a total of 53 students took part.



Webinar on National Science Day

### Training on fish processing, value addition and marketing

College of Fisheries organized a training on '**Fish Processing, Value Addition and Marketing**', imparting scientific knowledge along with practical exposure to participants in handling of fish and shellfish, operation of different processing machinery and processing methods etc. Hands-on-training session was also arranged on preparation of value-added products viz. fish/shrimp pickle, fish fingers, fish sausage, fish cutlets etc. A special session on 'Role of mass media in marketing' was organized to sensitize the trainees about modern marketing strategies.

### Cleanliness Drive

College of Veterinary Science, Rampura Phul organized cleanliness drive was conducted at its campus. The faculty members and students participated enthusiastically in the drive under 'Swacch Bharat' ideology.



Cleanliness Drive

### Training programmes on 'Stress Management' and 'Skills for Successful Career'

College of Fisheries conducted the training programmes on 'Stress Management' and 'Skills for Successful Career' in collaboration with PAMETI, under Scheduled Caste-Sub Plan (SC-SP) Component - Strengthening and Development of Higher Agricultural Education in India, aimed at capacity building of students to manage personal/academic stress and enhance their stress resilience capacity and professional efficiency. Expert(s) delivered lectures on CODE M (decode your mind), health and stress, effective presentation skills to improve social media presence etc. Time management games were also organized.

### Training on Skill Development on Advanced Bioinformatics in Genome Analysis

College of Animal Biotechnology and Project Monitoring Unit of the Department of Biotechnology of GADVASU conducted a 21 days e-training programme on 'Skill Development on Advanced Bioinformatics in Genome Analysis of Livestock and Pets' for faculty, scientists, researchers, and postgraduate students. The training sponsored by the Department of Biotechnology-funded collaborative research project: 'Parentage determination and cytogenetic profiling in dogs' was attended by a total of 263 participants. Experts delivered talk(s) and hands-on training on programming languages (R, Python, Perl), advanced bioinformatics tools, and pipelines for big-data analysis.

### Webinar on Awareness on Avian Influenza

College of Veterinary Science, Rampura Phul organized a national webinar on 'Awareness on Avian Influenza in Perspective of Poultry and Human Health' to create awareness amongst participants about the disease, its zoonotic aspects and the associated myths.

### Radio/Television (TV) Talks

- Dr. Meera D. Ansal and Dr. Abhishek Srivastava delivered a TV talk on 'Automated Aquaponics System' for Prime Asia TV.
- Dr. Meera D. Ansal delivered a TV talk on 'Automated Aquaponics System' for DD Jalandhar.
- Dr. Ajeet Singh delivered a Radio Talk on 'Macchi de prcessing de naal aamdan vadhauna' in Punjabi language for AIR, Jalandhar.
- Dr. Prabjeet Singh delivered a Live TV talk on 'Shrimp farming in Punjab' at DD Jalandhar .

### Achievements of students/alumni

- Ms. Anamika Singh, Ph.D. student of Department of Dairy Microbiology, College of Dairy Science and Technology has bagged prestigious INSPIRE Fellowship of the Department of Science and Technology, Government of India.
- Mukul Sain, an alumni of Department of Dairy Engineering, CODST secured All India 3rd Rank in ICAR-AICE JRF/SRF (Dairy Engineering). and got admission in Ph.D. at ICAR-National Dairy Research Institute (NDRI).
- Dr. Rohish Kaura, an alumni of the Department of Animal Genetics and Breeding was appointed as Veterinarian in the Department of Zoology, University of Delhi, New Delhi.
- Mr. Mohnit Singh, Fisheries Graduate got placement as 'Senior Technician' in CP Aquaculture (India) Pvt. Ltd.
- Mr. Harshdeep Singh, Fisheries Graduate got placement as 'Executive-Technical' in Feed Marketing Division, Growel Feeds Private Limited at Abohar (Punjab).
- Apeksha Jangir, an alumni of the Department of Livestock Products Technology cleared the ICAR-SRF examination and got admission in Indian Veterinary Research Institute, Izatnagar, Bareilly, Uttar Pradesh for Ph.D. degree in Livestock Products Technology.

## Activities of Krishi Vigyan Kendras

### Dr. Harish Nayyar, Special Secretary, Agriculture, Government of Punjab visits KVK

Dr. Harish Nayyar, Special Secretary, Agriculture, Department of Agriculture & Farmer Welfare, Government of Punjab visited KVK, Booh. Dr. Nayyar took a keen interest in the crop residue management project, demonstration units and various extension activities organized by the KVK. A total number of 60 farmers participated in the programme. Dr. Nayyar advised the farmers to practice organic and natural farming for sustainable food production and elaborated about the various ongoing agricultural projects of Government of Punjab. He applauded the efforts of KVK for uplifting the economic status of farmers of the area by imparting them skill development trainings and advice on scientific agriculture and livestock farming.



Dr. Balwinder Kumar, Associate Director, KVK honouring Dr. Nayyar

### International Women's Day

- Krishi Vigyan Kendra, Booh (Tarn Taran) celebrated the International Women's Day under the theme '**Women in Leadership in Agriculture: Entrepreneurship, Equity and Empowerment**'. A total of 30 women participated and interacted with panel of experts for opportunities of empowerment in agriculture, livestock and allied sectors. The participants were encouraged to practice subsidiary occupation viz. value addition of milk and meat products, garment designing and embroidery etc. to abet their household income to nourish their family adequately.
- KVK, S.A.S. Nagar (Mohali) celebrated International Women's day at its premises. Experts apprised the participants about the women empowerment and their role in the present scenario. In recognition of their efforts, progressive women were felicitated and vegetables seed kits were distributed amongst the participants.



Felicitation of progressive woman on International Women's Day

### Workshop on World Water Day

- KVK, Booh organised a workshop on the *World Water Day* under topic '**Water use efficiency and appropriate crop**' to create awareness about the global water crisis, advocating the 'Sustainable Development Goal (SDG) 6: Water and Sanitation for all by 2030' of the United Nations.
- KVK, S.A.S. Nagar (Mohali) also celebrated *World Water Day* at its premises. The expert(s) encouraged the participants for integrated farming system to make judicious use of water.



Expert interaction with farmers

### KVK, Tarn Taran Celebrated World Pulses Day

KVK, Booh celebrated *World Pulses Day* under the theme '**Nutritious Seeds for a Sustainable Future**'. Officials from Department of Agriculture, Tarn Taran and Project Directorate ATMA also participated in the programme. Expert(s) informed the participants about nutritional and environmental benefits of pulses as part of sustainable

production system, significance of legume and pulses as source of healthy diet for human and livestock, intercropping with pulses to increase farm biodiversity and creates a more diverse landscape for animals and insects.



World Pulses Day celebration

### Vocational training on Scientific Poultry Farming

KVK, SAS Nagar (Mohali) organized vocational training on “Scientific Poultry Farming” and honed up the skills of participants about breeds of poultry, construction of poultry housing, method for homemade feed formulation, protection from hot and winter climate, control and vaccination for different diseases, etc. Participants were provided practical knowledge for identification of healthy and sick birds, method of feed preparation and vaccination of birds and an exposure visit to poultry farm at village Tira was also arranged.



Vocational training on Scientific Poultry Farming

### KVK, Mohali celebrates ‘National Poultry Day’

KVK, S.A.S. Nagar (Mohali) celebrated National Poultry Day to create awareness amongst people about the importance vis-à-vis nutritional value of poultry and poultry product(s). Experts shared that poultry meat, egg and poultry products are the cheapest source of animal protein, essentially required for the holistic development of body. These boost the immune response of the human body to fight against diseases.

### Training on Precision Dairy farming

KVK, Booh organized awareness-cum-training programme at village Ghariala (Tarn Taran) on precision dairy farming and processing of dairy produce. Expert(s) imparted scientific knowledge to the participants about techniques of dairy farming and encouraged them for value addition of dairy produce for better economic returns. Further, the participants were advised to formulate self-help group(s) by joining hands with fellow farmers under technical guidance of KVK. Scientists enlightened the trainees about the techniques to convert ‘Waste to Wealth’.

### Vocational Trainings on Scientific Dairy Farming and Value Addition of Dairy Products

- KVK, Booh organized a vocational training programme on ‘**Scientific dairy farming for self-employment**’. A total of 25 farmers attended the training programme and got benefitted. Expert(s) acquainted the participants about breeds and feeding management of dairy animals, lay out plans, marketing of dairy produce, etc.
- KVK, Booh conducted a vocational training on ‘Value addition of dairy produce for self-employment’ at Village Naurangabad (Tarn Taran). Expert(s) encouraged the participants for reconciling a subsidiary occupation by adopting value addition techniques for dairy produce and delivered talk(s) on nutritional profile of milk, scientific milk processing techniques, value addition to milk, price fixation and marketing techniques of value added milk products, etc. The participants were also informed about the financial support facilities provided by government agencies to start these ventures.



Training on Scientific Dairy Farming

- KVK, Handiaya (Barnala) organized training programme on scientific dairy farming in association with PAMETI, Ludhiana and Department of Agriculture, Barnala. A total 35 farmers participated in the training programme. Expert(s) imparted tips on scientific dairy farming to the participants encompassing the topics of housing, feeding, breeding, management requirements, fodder production and conservation, dairy nutrient requirements, computation and formulation of balanced ration, etc. An exposure visit of trainees was also arranged at Dairy Farm, Goat Farm and Poultry Farm at GADVASU, Ludhiana.



Training programme on scientific dairy farming

### Vocational Training on Scientific Goat Farming

KVK, Booh organised a Vocational Training Programme on scientific goat farming. A total of 25 farmers participated in the training programme and got benefitted. Expert(s) honed up knowledge of participants about feed and fodder management for goats, goat breeds, reproductive management, diseases and their possible treatment, lay out plans, nutritive value of goat milk and its therapeutic importance, etc. Dr. Inderjeet Singh, Vice-Chancellor encouraged the participants to adopt goat farming as a subsidiary enterprise with small capital investment and advised them to adopt breeding techniques as per the University recommendations.



Training on Scientific Goat Farming

### Vocational Training on 'Scientific Pig farming'

KVK, Booh organised Vocational Training Programme on 'Scientific Pig farming' in collaboration with Agricultural Technology Management Agency (ATMA), Government of Punjab. A total of 25 farmers attended the training programme and enriched their knowledge about breeds and feeding management of pigs, different Punjab Government schemes related to pig farming, marketing of pigs, soil health and animal production, nutritive value of pig meat, waste products and their management, lay out plans, vaccination in pigs, reproductive management and artificial insemination, economic evaluation, record keeping etc.

### Training cum awareness programme on dairy farming

With the motive to develop small dairy farmers and bee-keepers, KVK, Mohali organized a training programme-cum-awareness camp on Livestock nutrition. Expert(s) imparted tips regarding livestock management, feeding system, dairy shed and disease management in dairy animals etc. Mineral mixture and the University literature were distributed to the farmers.

### Training on 'Nutritional Deficiency in Dairy Animals'

KVK, SAS Nagar (Mohali) organized training programme on 'Nutritional Deficiency in Dairy Animals' for SC/ST farmers at village Khizrabad. Expert(s) encouraged the trainees to rear animals in scientific manner and adopt balanced ration for dairy animals for maximizing their economic returns. Participants were imparted scientific knowledge about feed formulation of dairy animals, nutritional deficiency in dairy animals and their remedies. Mineral mixture and uromin licks were distributed free of cost amongst trainees.



Participants of Training on Nutritional Deficiency in Dairy Animals

## Launch of Bee Keeping Mini Mission-1 at KVK Tarn Taran

Dr. Inderjeet Singh, Vice Chancellor inaugurated scientific Bee Keeping Mini Mission-1 under the National Bee Keeping and Honey Mission (NBHM) at KVK, Booh. The mission was announced as part of the Atam Nirbhar Bharat scheme by Government of India with an aim to achieve the goal of 'Sweet Revolution' in the country. A total of 50 farmers along with officers from state department, sarpanches and students participated in the programme. The Vice-Chancellor shared that the Govt. of India has approved a new Central Sector Scheme and awarded the farmers regarding importance of beekeeping as part of the Integrated Farming System in the state. The main objective of this mission is to promote holistic growth of beekeeping industry for income and employment generation for farm and non-farm households. Dr. Singh also discussed about the medicinal value of honey. Dr. Balwinder Kumar, Associate Director (training) emphasized on setting up of beekeeping as subsidiary business apart from the rearing of livestock. He urged the farmers to formulate FPOs, Self-help groups regarding beekeeping mission.



Dr. Inderjeet Singh, Vice-Chancellor inaugurating the Bee Keeping Mission

## Awareness workshop-cum-On-Farm Trial on assessment of hemoglobin status of adolescent girls

KVK, Booh in collaboration with Community Health Centre, Kasel organized an awareness workshop entitled 'Impact of iron rich foods on hemoglobin status of adolescent girls' at Government Senior Secondary School, Village Gaggobua, District Tarn Taran. A total of 50 adolescent girl students of 9<sup>th</sup> to 12<sup>th</sup> standards participated in the event. Students were informed about current sce-

nario of anemic status of women and its' impact on obstetric outcomes, maintenance of appropriate hemoglobin level by following dietary recommendations of Indian Council of Medical Research, diverse array of strategies to curb the menace of anemia. Blood samples for assessment of hemoglobin status of participants were also taken.



Experts interacting with students

## Scientist-Dairy Farmer Interaction

KVK, SAS Nagar (Mohali) organized 'Scientist-Dairy Farmers Interaction' at Chunni Kalan, Mohali. More than 40 dairy farmers took part in the programme and got benefitted. Expert(s) talked about the prevalence of mastitis in dairy animals, predisposing factors enhancing the mastitis menace, scientific management and tips for preventing and control of the mastitis, feed composition to ameliorate the effects of heat stress, feed additives like yeast, vitamins and bypass fat to be included in the ration, making of pellet cattle feed, etc. KVK also put up its stall displaying various extension activities. Mineral mixture, uromin licks and bypass fat were also distributed to the dairy farmers.



Scientist-Dairy Farmers Deliberating

## Awareness programmes on Crop Residue Management

- KVK, S.A.S. Nagar (Mohali) conducted awareness programmes at Khalsa Senior Secondary School, Kurali and Govt. Middle School, Salamatpur to apprise students regarding Crop Residue Management. Competitions of slogan writing, poster making and speech for effective management of crop residue were held under the programme. Highlighting ill-effects of crop residue burning, expert(s) encouraged the students to create awareness amongst their parents and neighbours for *in-situ* and *ex-situ* management of crop residue.
- KVK, S.A.S. Nagar (Mohali) organized workshop on ‘Sustainable Approaches for Management of Crop Residues’ for the officials of district. A total of 38 officials from three departments viz. Agriculture and Farmers Welfare, Horticulture and Soil Conservation participated in the workshop held to deliberate upon the various aspects of stubble burning. The significance of crop residues management in maintaining soil health and the issues and challenges being faced by the farmers in crop residue management were discussed.
- KVK, S.A.S. Nagar (Mohali) organized Field Day at Villages Baraudi and Tajpura. Expert(s) motivated the farmers to not to burn the crop residue and manage it by using suitable machinery and imparted knowledge to the farmers about utilization of crop residue as mulching in horticultural crops, use of paddy straw as animal feed, various crop residue management machines and production practices for Summer crops.



Awareness Programme on Crop Residue Management

## KVK, Tarn Taran celebrates *Swachhta Pakhwada*

KVK, Booh organized ‘Swachhta Pakhwada’ to create awareness amongst masses about maintenance of hygiene at residential and work places. Dr. Balwinder Kumar, Associate Director (Training) appealed the farmers to maintain their surrounding clean and green. About 250 farmers and faculty members participated in the event. Kisan Diwas was also celebrated as part of the programme under the theme ‘**Lets** convert the waste to wealth’. Further, group discussion on establishment of integrated livestock entrepreneurship was held.



Celebration of Swachhta Pakhwada

## Skill Training on Organic Input Production

KVK, Booh in association with Punjab Agricultural Management and Extension Training Institute (PAMETI), Ludhiana and National Institute of Agricultural Extension Management (MANAGE), Hyderabad organized a skill training on ‘**Organic Input Production for Organic Farming**’. The participants were imparted training on production of compost, vermicompost, waste decomposer, jeevamrit, beejamrit, sanjivan, pachgavya, amritpani, etc. The tips on soil health management through green manuring, biofertilizer, oil cakes and other means such as crop residue incorporation were also provided by the experts.

## Vocational training programmes on Scientific Kitchen Gardening

KVK, S.A.S. Nagar (Mohali) organized vocational trainings under the themes ‘Kitchen Gardening and post-harvest management of vegetables’ and ‘Scientific Kitchen Gardening and Processing of Vegetables’ at villages Khizrabad and Kansala, respectively under the NABARD sponsored project on ‘Promotion of Kitchen Gardening’.

### Visit(s) of the Vice-Chancellor to outstation(s)/enterprise(s)

#### Integrated Livestock Farming Models is need of the hour for Higher Economic Returns- Dr. Inderjeet Singh

In view of continuous rise in production costs, the University advocates the adoption of Integrated Farming Models involving synergistic combination of suitable farming systems. In this context, a delegation of experts led by Dr. Inderjeet Singh, Vice-Chancellor visited integrated fish-cum-livestock farms in Barnala and Sangrur district to review their progress and requirements through an on-farm interaction. The farmers engaged in fish-cum-pig-farming informed that they could run respective farms scientifically owing to the technical support received from GADVASU and KVK at Handiaya, Barnala. The Vice-Chancellor said that fish-cum-pig farming is one of the most profitable integrated farming setups, where pig waste can be economically recycled into fish ponds, which can be used as a reservoir to irrigate the agricultural fields, saving input cost on crop fertilizers. Dr. Singh advocated the adoption of such farming systems for optimized utilization of available resources for higher economic returns and sustainability.



#### Goat farming a profitable venture for landless farmers

Dr. Inderjeet Singh, Vice-Chancellor visited KVK, Booh and reviewed its' extension activities. The Vice-Chancellor addressed the trainees of skill oriented vocational training course conducted under the theme 'Scientific Goat Farming', attributing goat as the *poor man's cow* and *mobile refrigerator*. Dr. Singh expressed his concerns about the prevalent figures related to goat meat production in Punjab, as more than three fourth of the goat meat consumed in the state is imported from other states.

The Vice-Chancellor acquainted participants about a huge potential for entrepreneurship development in goat farming sector in the state and advised that KVK and farmers should jointly make endeavours towards promoting the state a self-sufficient province in goat meat production and to carry these ventures forward towards its' export. Further, he suggested the farmers to practice good marketing techniques of goat milk by identifying the nearby hospital



Dr. Inderjeet Singh addressing the participants of training programme

settings around their whereabouts to cater health requirements of dengue patients in this critical scenario of COVID-19 pandemic and exacerbate their income with minimum investment. Dr. Singh also motivated the farmers for backyard poultry farming to ensure regular daily income.

The Vice-Chancellor along with KVK team visited the modern high-tech dairy farm at village Sohal and imparted scientific knowledge regarding escalating silage production as well as organic fodder production by utilizing animal excreta produced at the dairy farm.

### Need to conserve Nili Ravi Buffalo for better economic returns– Dr. Inderjeet Singh

KVK, Booh organized a workshop on Nili Ravi buffalo at its campus. A total of 200 farmers participated in the programme for honing up their knowledge and skills with scientific inputs from the University expert(s). The Vice-Chancellor graced the occasion as the Chief Guest and said that Nili Ravi buffalo, a native to the state of Punjab plays a pivotal role in fulfilling the requirement of milk and dairy products in the region. Hence, there is need to conserve the buffalo breed to help farmers to get handfull economic returns. Dr. Singh expressed concerns about decline in the Nili Ravi buffalo population, and the production of more non-descript animals which are not having true to breed characteristic.



The Vice-Chancellor inaugurated the Animal Science Laboratory at KVK, in which semen of buffalo bull of Nili Ravi will be available to the farmers. The state-of-the-art facility of semen bank will be vital for improving the overall production and productivity potential of Nili Ravi buffaloes. Farmers brought Nili Ravi buffaloes and bulls for display in the workshop and best buffalo and bull were awarded in the event. An informative pamphlet on Nili Ravi buffalo was also released on the occasion.

#### Retirement of Faculty

Dr. Padma Nath Dwivedi retired from the University on attaining the age of superannuation, after serving more than 34 years in the field of Veterinary Sciences. GADVASU Teachers' Association held a farewell function in the honour of Dr. Dwivedi. Dr. Inderjeet Singh, Vice-Chancellor appreciated the contribution of Dr. Dwivedi in the field of veterinary microbiology. His research, academic and administrative achievements were discussed and acknowledged in the farewell function. Dr. Dwivedi obtained his BVSC & AH, M.V.Sc. and Ph.D. degrees from Jabalpur, Punjab Agricultural University (PAU), Ludhiana and University



Dr. Inderjeet Singh, Vice-Chancellor honouring Dr. Dwivedi

of London, respectively. He started his carrier from PAU as Assistant Professor in 1986 and became Head of the Department, Dairy Microbiology, College of Dairy Science and Technology, GADVASU in 2018. He is recipient of several awards and fellowships including prestigious DAAD Fellowship and Commonwealth Scholarship. He has published more than 125 research papers in national and international journals.

He also rendered his services in the University as the President of University Dance, Drama and Music Club, Incharge of Speakers' Forum, Incharge of University Sports, Associate NCC Officer and Chief Hostel Warden.

#### Sad Demise of Dr. Barri

Dr. Darshan Singh Barri, an eminent artist and retired Welfare Officer of the University left for the heavenly abode. Dr. Barri was graduate in music and Ph.D. in Punjabi Kissa Poetry. He not only honed the skills of the students of the University in cultural activities but also brought many accolades for the institution. Being a popular face in Punjabi films and theatre, he was also an international level Kabaddi commentator. He was instrumental in the establishment of the Punjabi Bhawan at Ludhiana. The University fraternity has adieved his loss with great emotion.

