



e-Newsletter

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

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October - December 2021 (4)

From the Desk of the Vice-Chancellor



Guru Angad Dev Veterinary and Animal Sciences University (GADVASU), Ludhiana is doing exemplary work for upliftment of the livestock sector, which is reflected through its academic, research and extension activities.

The construction work of the Instructional 'Model *Gaushala*' has been initiated and it will become operational soon, providing an educational role for other establishments to utilize the potential of stray cattle through scientific and cost-effective housing and management. The University emphasizes on continuous education/learning and strengthening of the technical skills of students by organizing trainings, educational series, seminars etc. Besides developing human resource(s) having sound technical knowledge, the University aims at honing up the overall personality of students. Under the aegis of the Institutional Development Plan (IDP) operational at GADVASU, the colleges/ departments of the University organize motivational talk(s)/programmes for students and faculty. The activities conducted under 'Clean India' and 'Fit India Freedom Run 2.0' programmes aim at harnessing the reverence of students with the nature. The educational tour(s) of students are organized to give them practical exposure to the academic and extension activities.

The University has been assisting the Government and national/international agencies through research endeavours vis-à-vis by providing technical support in policy formulation and implementation. The University in collaboration with National Academy of Veterinary Sciences (NAVS) has prepared a policy paper on diagnosis and control of rabies which would serve as a blueprint for the stakeholders for elimination of dog mediated rabies by 2030. Assignment of Antimicrobial Resistance (AMR) Survey on the Priority Bacterial Pathogens in the Asia-Pacific Region to GADVASU scientist by Food and Agriculture Organization-Federation of Veterinary Association (FAO-FAVA) is an honour for the University. Grossing the virtues of Information Technology for reaching out to the masses, the University has developed a Mobile Application for creating awareness on antimicrobial resistance.

KVKs of the University have been doing a commendable job of providing technical guidance to the stakeholders in remote areas. The formation of Farmer Producer Organization (FPO) under the project earned by KVK, Booh (Tarn Taran) would be pivotal for accretion of economic returns of the farmers of the region., and for others to emulate.

The scientist(s) and students have brought laurels to the University in form of award (s)/honour(s)/recognition(s). I congratulate them and wish the scientific fraternity of the University would continue with this legacy.

I wish a very Happy, Healthy and Prosperous **NEW YEAR - 2022** to all faculty, staff and students of the University and their families.

(Inderjeet Singh)
Vice-Chancellor

Hon'ble Minister of Food, Civil Supplies and Consumer Affairs, Punjab lays foundation stone of the Instructional *Gaushala* at GADVASU

Sh. Bharat Bhushan Ashu, Hon'ble Minister of Food, Civil Supplies and Consumer Affairs, Punjab laid the foundation stone of 'Instructional *Gaushala*' at GADVASU. Sh. Balkar Singh Sandhu, Mayor of Ludhiana also graced the occasion. Sh. Bharat Bhushan Ashu said that the novel idea of Instructional *Gaushala* would play an educational role for other *Gaushala*'s to run their establishments in scientific and cost-effective manner.

Dr. Inderjeet Singh, Vice-Chancellor, GADVASU informed that S. Tript Rajinder Singh Bajwa, Hon'ble Minister of Rural Development and Panchayats, Animal Husbandry and Fisheries & Dairy Development, Punjab sanctioned a project to the tune of Rs 107.31 lakhs to GADVASU to set up a Model *Gaushala* to find the viable solution of stray cattle. Dr. Singh further added that the Model *Gaushala* will demonstrate the actual potential of stray cattle that can be harnessed in the form of income generation, genetic improvement of germ-plasm through Embryo Transfer Technology (ETT).



Mobile Application on Awareness on Antimicrobial Resistance

Dr. Inderjeet Singh, Vice-Chancellor, GADVASU launched the mobile application on antimicrobial resistance for creating awareness amongst masses on public health issues assisted with the technological interventions. The Application developed under the ICAR Niche Area of Excellence Programme on 'Antibiotic Resistance: Animal-Human Interface' comprises of various chapters encompassing basic information on the use of antibiotics, mechanisms of antimicrobial resistance, spread of antimicrobial resistance at human-animal-environment interface, information on the available diagnostics, prevention and control strategies on antimicrobial resistance, including international and national regulations.



Dr. Inderjeet Singh, Vice-Chancellor launching Mobile App

Release of Policy Paper on 'Diagnosis and Control of Rabies in India by 2030'

Dr. Inderjeet Singh, Vice-Chancellor, GADVASU, Dr. Praveen Malik, Animal Husbandry Commissioner, Government of India and Dr. H.S. Kahlon, Director, Department of Animal Husbandry, Punjab released the policy paper entitled 'Diagnosis and Control of Rabies in India by 2030' developed by the Centre for One Health, GADVASU in collaboration with the National Academy of Veterinary Sciences (NAVS), New Delhi. Dr. Malik appreciated the collaborative efforts of GADVASU and NAVS to come up with the comprehensive document highlighting the present epidemiological status and various prevention and control strategies for the fatal endemic disease in Indian context. Dr. Inderjeet Singh expressed that the visionary document will serve as a reference source for the researchers, scientists and academicians to achieve the mission of 'Elimination of Dog Mediated Rabies in India by 2030'.



Release of policy paper on rabies

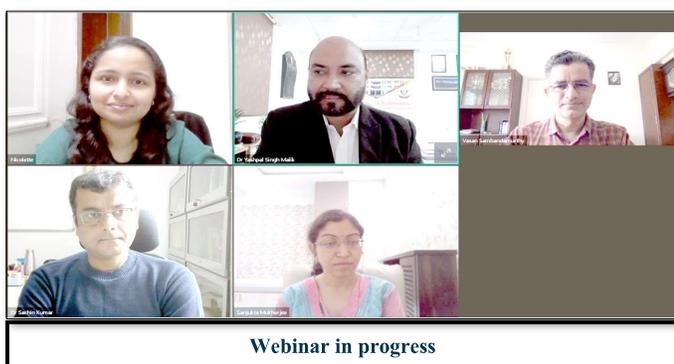
Teaching and Research Activities

GADVASU Biotechnologist Accomplishes FAO-FAVA Project

Dr. Yashpal Singh Malik, Dean, College of Animal Biotechnology acted as Principal Coordinator and Investigator (PCI) in the Food and Agriculture Organization-Federation of Veterinary Association (FAO-FAVA) Antimicrobial Resistance (AMR) Survey on the Priority Bacterial Pathogens in the Asia-Pacific Region. The project taking in its ambit the study of use of antimicrobials in animal farming system in India, making a ground zero report based on the response of stakeholders from cattle, pig, poultry and aquaculture was submitted successfully to FAO-FAVA.



Yearlong Educational Series on Biotechnology Begins



Webinar in progress

Short course on 'Fish Feed Formulation and Manufacturing'



Release of Compendium

College of Animal Biotechnology started a Continuing Biotechnology Education (CBE) lecture series in association with IIT Roorkee and the DBT/Wellcome Trust India Alliance for regular ascendancy of the skills of budding researchers. The participants of the series will get an opportunity to learn from and interact with the eminent experts in the field of disease diagnosis, biotechnology and related subject(s). The maiden event of the CBS series witnessed participation of 200 stakeholders. The expert delivered talk on '**Genetically Engineered Vaccines: Modern Era of Vaccines**', explaining about the vaccine development.

College of Fisheries imparted short course on '**Fish Feed Formulation and Manufacturing**' for the academic year 2021-22 with focus on producing skilled human resources for self-employment in the field of fish feed manufacturing with expansion of aquaculture (fish/shrimp) activities. The candidates were imparted scientific knowledge and practical exposure about feed formulation and manufacturing encompassing the nutritional requirements of fish, feed ingredients and their proximate composition, additives, feed storage etc. An exposure visit to Dr. Attar Aqua Feed, Dadri, Haryana was also arranged.

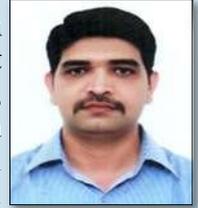
Laboratory facility for Rabies Diagnosis

A dedicated BSL-2 laboratory facility for Rabies diagnosis has been developed in the College of Animal Biotechnology under the scheme 'RKVY-12: Enhancement of Production and Productivity Potential of Livestock, Poultry and Fisheries sector for socio-economic upliftment of the farmers of Punjab; sub-head: B.1: Establishment of Centralized Research Laboratory at GADVASU'. The laboratory is equipped with state-of-the-art high end equipment for ante-mortem diagnosis of rabies in animals using GADVASU developed Taqman Real Time PCR.



Research project on ‘Development of Phage-based Strategies for Biocontrol of Antibiotic Resistant Aeromonas Species in Fishery Products’

Department of Aquatic Environment, College of Fisheries bagged the research project on ‘**Development of Phage-based Strategies for Biocontrol of Antibiotic Resistant Aeromonas Species in Fishery Products**’ from Department of Atomic Energy (DAE), Board of Research in Nuclear Sciences (BRNS), Government of India. The project with the grant of Rs. 28.11 lakhs, lead by Dr. Anuj Tyagi as Principal Investigator (PI) will focus on alternate strategy viz. use of ‘phages’ to control important fish pathogen, i.e. Aeromonas affecting fish/fishery products along with gastroenteritis in humans.



NABARD funded project on ‘Formation of Farmer Producer Organization (FPO) of Dairy Farmers at Border Area of District Tarn Taran’

KVK, Booh (Tarn Taran) received a research project from the National Bank for Agriculture and Rural Development (NABARD) for ‘**Formation of Farmer Producer Organization (FPO) of Dairy Farmers at Border Area of District Tarn Taran**’. The outcome of the project will be pivotal to enhance the economic strength and market linkages of farmers. Dr. Suresh Kumar, Principal Investigator said that the formation of FPO will facilitate the strengthening of knowledge base of dairy farmers ensuring clean milk production and value addition of dairy produce at the border belt of Punjab.



Activities under Institutional Development Plan (IDP)



GADVASU organized expert lecture(s)/ program me(s) on diverse topics of significance for students, staff and faculty, dedicated to ‘*Azadi Ka Amrit Mahotsav*’ commemorating the 75 years of India’s Independence, with support from the Institutional Development Plan (IDP) operational at the University, funded by the Indian Council of Agricultural Research – National Agricultural Higher Education Project (ICAR-NAHEP):

- An expert talk was organized on ‘**Legal Awareness**’. A total of 81 participants attended the seminar. The speaker enlightened the participants about free legal services being provided by Legal Services Authority for women, children and physically challenged and further explained the legal aspects dealing with veterinary services .



Talk on Legal Awareness

- Centre for One Health organized a motivational lecture under the theme ‘**Memory, Time Table and Personality**’ to apprise the students about importance of memory and time table in one’s curriculum vis-à-vis life in general. The speaker explained how *memory* is the faculty of brain in which data/ information is encoded, stored and remembering happy *times* may offer protection for mental health. The significance of time management in professional and personal life was discussed.



- Department(s) of Veterinary Anatomy and Live-stock Products & Technology jointly organized a motivational talk on ‘**How to be successful in Life**’. A total of 80 students participated in the seminar and learnt the tips for being passionate and focused on goals to attain success in life.

- Department of Veterinary Physiology and Biochemistry organized a motivational talk on '**Vision and Dreams**'. A total of 46 participants attended the seminar. The speaker motivated the students to have dreams, which can be transformed into reality with full passion.



Talk on 'Vision and Dreams'

- Department of Teaching Veterinary Clinical Complex (TVCC) organized a motivational talk on '**As you sow, so shall you reap**' for students and faculty. The speaker delivered talk on human ethics, responsibilities, values and overall outcome of human behaviour.



Expert lecture in progress

- Department of Veterinary Pathology organized a motivational talk on '**How to keep oneself highly motivated**'. The speaker focused on the key points encompassing self-love, compassion and gratitude towards others to stay motivated and progressive in life.



Motivational talk on 'How to keep oneself highly motivated'

- Directorate of Human Resource Management organized a Guest Lecture on '**Physiology of Canine Olfaction**'. A total of 110 students and faculty members attended the lecture. Lt. Col. Surinder Saini, a highly decorated Army Dog training expert from Remount Veterinary Corps sensitized the faculty and students on the subject.



Dr. SPS Ghuman, Dean honouring Lt. Col. Surinder Saini

- Directorate of Human Resource Management organized a lecture for the female faculty, staff, and students exclusively on '**Common Health problems of Women: Our Health-Our Responsibility**'. The eminent gynecologist and obstetrician Dr. Venus Bansal, Senior Consultant, Orison Hospital, Ludhiana shared her views and discussed about the common age-related and gynecological problems with 80 participants.



Dr. LD Singla felicitating Dr. Venus Bansal

- Department(s) of Veterinary Pharmacology & Toxicology and Veterinary Parasitology jointly organized a motivational talk on '**Emotional intelligence**'. The speaker discussed the pivotal role of emotional intelligence in a balanced happy life and explained the ill effect(s) of stress, phobias, anxiety, grief and worry on functioning of vital organs of the body. The participants were apprised about the various strategies for managing stress.

- Department of Veterinary Surgery and Radiology, organized a motivational lecture under the theme ‘Never say Never’. The speaker motivated the audience to never let the adversities in life belittle and encouraged them to stay focused at attainment of goal(s).



Talk on ‘Never say Never’ in progress

- Department of Veterinary and Animal Husbandry Extension Education organized a motivational talk for faculty and students under the theme ‘Purpose of Life’. Mr. Inderpal Singh, Honorary Director, Nankana Sahib Education Trust, Guru Nanak Engineering College, Ludhiana delivered a talk on the diverse aspects of human life.



Participants of motivational talk on ‘Purpose of Life’

- College of Fisheries organized an expert lecture on ‘Art of living life with finite sources and wealth’. A total of 75 students participated in the programme. Expert emphasized on the way of living life and making friends and enjoying valuable time as student.

- College of Fisheries organized student-industry Interface on ‘Ornamental Fisheries-Present Status, Challenges and Future Prospects in Punjab’ to promote entrepreneurship skills amongst fishery graduates. The platform brought together various stakeholders, viz. ornamental fish traders, state fisheries officers of Punjab and students. Expert(s) sensitized the participants about the hidden business opportunities in ornamental fisheries and emphasized on the need to revolutionize the ornamental fish industry in inland states.



Participants of student-industry interface

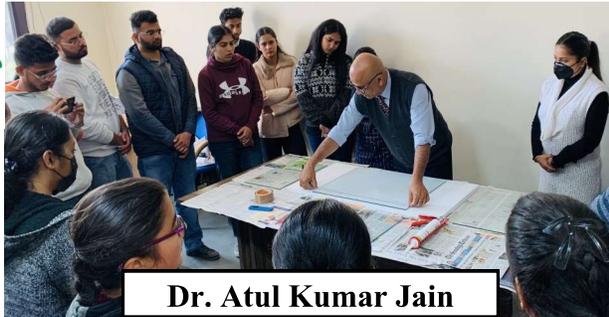
- College of Fisheries organized an expert lecture on ‘Self-Empowerment’. A total of 65 students participated in the programme and got benefitted. Expert discussed about the diverse aspects leading to self-empowerment comprising fitness (health), confidence, passion, belief, etc. were discussed.



Participants of expert lecture on ‘Self-empowerment’

- College of Fisheries organized an expert lecture on ‘Scientific Temper – A way of Life’. A total of 75 students attended the lecture. Expert delivered talk on linking science in various activities, accuracy and precision and qualities of a teacher. The best qualities which one should imbibe to succeed in research were discussed with examples of iconic personalities in diverse fields.


Dr. Shamasundar B.A.

Dr. Shivaprakasha S.M.

Dr. Atul Kumar Jain

Dr. Deepjyoti Baruah
GADVASU Fisheries Graduates get Appointed as Fisheries Officers

Fourteen graduates of College of Fisheries, GADVASU joined as Fisheries officers (FOs) in the Department of Fisheries, Punjab. Congratulating the appointees, Dr. Inderjeet Singh, Vice-Chancellor expressed his happiness with the efforts made by the university in augmenting professional competency of graduates, and added that youth shall come forward to explore the vibrant field of fisheries offering promising national/international career opportunities in public/private sector and entrepreneurship.


GADVASU COVID-Testing Laboratory: Touching a new Milestone in One Health

The COVID-19 Viral Diagnostic Laboratory (VRDL) at GADVASU is a dedicated ICMR, New Delhi accredited Coronavirus Testing Laboratory. The VRDL was established at GADVASU on 1st August 2020 to enhance the testing capacity of the Punjab state in the wake of rising COVID case load. The laboratory initially started with testing of 100 samples daily, which gradually escalated to more than 2000 samples per day; even touching a peak of around 3000 samples a day. Owing to its competence, the Government endowed the laboratory with additional high-performance instruments viz. automated RNA extractor, real-time PCR machines etc. Department of Health Research in collaboration with UNICEF identified the VRDL at GADVASU as a High-Throughput COVID-19 Testing Facility. Subsequently, this facility received 3 RT-PCR machines and 1 automated RNA extraction machine. The laboratory has successfully completed testing of more than 5,00,000 samples.



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

GADVASU Officers elected to the executive of Indian Society for Buffalo Development

- Dr. Inderjeet Singh, Vice-Chancellor, GADVASU has been elected as the President of the Indian Society for Buffalo Development (ISBD) in the General Body Meeting of the society. The outgoing President Dr. S. S. Dahiya congratulated the new executive committee and expressed his faith in the able leadership of Dr. Singh to take the legacy of ISBD further to new heights.
- In the same meeting, Dr. SPS Ghuman, Dean, College of Veterinary Science was elected as Secretary of the Indian Society for Buffalo Development (ISBD).



Biotechnologist gets Recognized for his Scientific Contributions

Dr. Yashpal Singh Malik, Dean, College of Animal Biotechnology has been inducted as a member of the Committee for the Purpose of Control and Supervision of Experiments on Animals (CPCSEA) of the Government of India for the period of 2021-2023.



Veterinary Pathologists Bring Laurels at International Congress

The fraternity of Department of Veterinary Pathology participated and presented their research work in the Virtual International Veterinary Pathology Conference-2021 organized by Rajasthan University of Veterinary and Animal Sciences, Bikaner and bagged following awards:

- Dr. Kuldeep Gupta, Professor was conferred as 'Fellow of Indian Association of Veterinary Pathologists (FIAVP)' for the year 2021 for his contribution to Veterinary Pathology.
- Dr. Bashetti Prafullata Nilkanth, bagged the 'IAVP-Dr. Ram Raksha-Kiran Shukla Award for M.V.Sc. thesis accomplished under guidance of Dr. N.D. Singh.



- Dr. Jasmine Kapoor was awarded 'IAVP-Dr. S. Damodaran Award' for Best Oncology Paper/Case Report published in 'Indian Journal of Veterinary Pathology' under the title 'Pathology of ocular tumor in bovine' co-authored by Harmanjit Singh Banga, Nittin Dev Singh and Sidhartha Deshmukh.
- Dr. Vikas Jaiswal, Ph.D. student, got 'Savithree Jibachch Sinha Best Poster Award' for his research work co-authored by A.P.S. Brar, B.S. Sandhu, L.D. Singla, Deepti Narang, Geeta D. Leishangthem and Prabhdeep Kaur.



University Scientists bag awards at the conference of Indian Meat Science Association

The faculty and students of Department of Live-stock Products Technology, GADVASU participated in the 10th conference of Indian Meat Science Association and International Symposium on 'Holistic Approach to the Meat Food Quality and Safety in Continuum from Farm to Fork' organized by Sardar Vallabh bhai Patel University of Agriculture and Technology, Meerut and earned laurels:

- Dr. Om Prakash Malav, Assistant Professor bagged 'Best Paper Award' for his research work on 'Development of dog biscuits incorporated with chicken liver powder'.
- Dr. R.V. Wagh, Assistant Professor got 'Best Paper Award' for his work on 'Optimization of SOP for the ultrasonic extraction of bioactive compounds'.
- Dr. Mehak Jandyal, Ph.D. scholar won Best Paper Award for her research work on 'Development of high fiber pork sausages and extension of its shelf life by incorporating combination of phytoextracts'.
- Dr. Ishani Parmar, M.V.Sc. student won 1st prize in poster presentation for her research on 'Development of low fat pork patties using response surface methodology'.



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

National Symposium on 'Scientific interventions to address challenges for sustainable buffalo production'

College of Veterinary Science, Ludhiana in collaboration with Indian Society for Buffalo Development (ISBD), Hisar organized the National Symposium on 'Scientific interventions to address challenges for sustainable buffalo production' with the support of National Bank for Agriculture and Rural Development (NABARD), Government of India. A total of 200 scientists and students from across the country participated in the symposium. Dr. Inderjeet Singh, Vice-Chancellor, GADVASU presided over the inaugural session. In his presidential remarks, Dr. Singh emphasized on the pivotal role of buffalo to the country's economy and highlighted that such events provide platform and opportunities to scientists and students for the dissemination and exchange of knowledge and ideas.



Inauguration of ISBD

Dr. Gurbachan Singh, Former Chairman, Agricultural Scientists Recruitment Board, New Delhi graced the occasion as Chief Guest and Dr. S.K. Ranjhan, Hind Agro Ltd. Industries was the Guest of Honour.



Release of Compendium

Dr. S.S. Dahiya, President, ISBD highlighted the role played by Society in uplifting veterinary profession and livestock industry. During the inaugural ceremony, compendium of scientific papers was also released. Scientists and students presented their research findings.



Dr. Inderjeet Singh, Vice-Chancellor felicitating Mr. K.S. Sangha

Mr. K. S. Sangha, Managing Director, Milkfed, Punjab was the Chief Guest of the Valedictory function. Dr. Praveen Malik, Animal Husbandry Commissioner, Government of India graced the occasion as the Guest of Honour. Scientists were honoured with awards under different categories. The best poster and oral presentation award(s) under different themes of the symposium were also presented to the scientists and the students.



Distribution of Awards

World Antimicrobial Awareness Week

Centre for One Health celebrated the World Antimicrobial Awareness Week under the theme '**Spread Awareness, Stop Resistance**' proposed by WHO from 18th -24th November, 2021 by organizing the following activities:

- Expert lectures stressing upon the need to target human, animal and environmental sectors holistically and the importance of Infection control and prevention to tackle the emerging Antimicrobial Resistance (AMR) challenge were organized.
- An awareness talk was delivered to the medical stream students of Government Senior Secondary School, Punjab Agricultural University, Ludhiana, apprising them about the concept of AMR, with emphasis on prudent use of antibiotics. They were also demonstrated basic microbiological techniques employed for antibiotic sensitivity test. A quiz competition was organized and the prizes were distributed to the winners.



School students with University expert(s)

- Expert lecture was held about the global emergence of antibiotic resistance bacteria in humans, animals and environment which pose a big challenge in treatment of patients with invasive bacterial infections.



Participants of expert lecture

World Food Day

Centre for One Health celebrated the **World Food Day** under the aegis of ICAR-Institutional Development Plan-National Agricultural Higher Education Project (IDP-NAHEP):

- A workshop under the theme '**The Food We Eat: Impact on Health and Environment**' was organized. An expert talk was delivered on '**Risk and Mitigation actions of Residues in Fresh Raw Milk with respect to Food Safety and Public Health Perspective**'.



Workshop in progress

- An awareness camp was organized in collaboration with the Police DAV Public School, Ludhiana. The University expert(s) interacted with students and highlighted the importance of food quality and strategies to keep food safe.



- A seminar was organized under the theme '**Food safety, security and waste management**'. An exposure visit of the participants to the Verka Milk Plant, Ludhiana was conducted.



- KVK, Booh (Tarn Taran) celebrated the World Food Day at Government School, Kirtowal (Tarn Taran). A total of 106 students participated in the programme. Expert(s) delivered lecture(s) on better food for healthy life and imparted scientific knowledge to the participants on various aspects of food.



School students participating in World Food Day event

- KVK, Barnala organised National Campaign on World Food Day at village Wazid ke Khurd. A total of 21 farmers took part in the programme.

National Milk Day

College of Dairy Science and Technology (CODST) celebrated the National Milk Day on 26th November, 2021; centenary of birth of Dr. Verghese Kurien, 'Father of White Revolution in India'. The theme of the event was '**Milk and milk products for healthy and happy India**'. Dr. Inderjeet Singh, Vice-Chancellor, GADVASU was the Chief Guest of the occasion. The celebratory event witnessed following activities:

- An Ice cream and Pizza Festival was organized by the students of CODST. The products prepared by the students of the college from the milk produced at the University dairy farm were exhibited and put on sale. In addition to the University fraternity, students from Police DAV Public School, Ludhiana visited the Ice cream and Pizza festival and relished the products prepared and sold by the students. They also visited the Experimental Dairy Plant of the college and saw various operations of the plant.
- A two days free '**Milk adulteration testing camp**' was organized where milk samples brought by the consumers purchasing milk from unorganized sector i. e. milk vendors was tested.



Dr. Inderjeet Singh, Vice-Chancellor during Ice cream and Pizza festival

- A series of awareness talks(s) on '**Milk for young India**' at various schools of Ludhiana was organized.



Lecture on 'Milk for Young India'

Capacity Building Programme on Immunohistochemistry

College of Animal Biotechnology organized training programme on '**Immunohistochemistry-Diagnostic tool in Molecular Biology**' for capacity building of students by providing them hands on training for strengthening their practical knowledge. The participants were given hands on practice on the immunohistochemistry along with delivery of lecture(s) on tissue fixation, antigen retrieval, selection of antibodies, quantification of data etc.



Capacity Building Programme on Immunohistochemistry

Training Programme on Laboratory Animals

Department of Livestock Production Management (LPM) conducted hands on training on 'Ethical Issues, Management and Breeding in Laboratory Animals' to provide technical guidance and information on ethical issues related to Laboratory animals to the participants. Hands on practical training was imparted for handling laboratory animals along with techniques for drug administration and fluid collection.



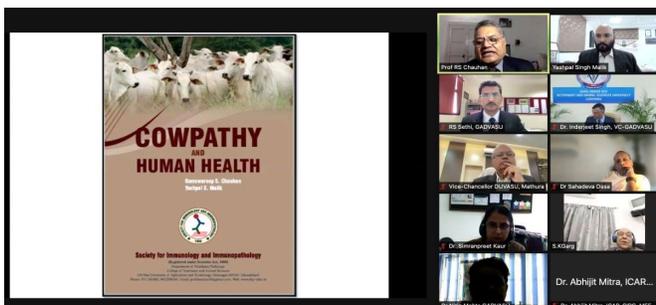
Training Programme on Laboratory Animals

University fraternity apprised about Dengue Fever Prevention

Directorate of Human Resource Management (DHRM) organized an expert lecture on 'Prevention of Dengue Fever' for the University fraternity. Expert explained the intricacies of the viral infection and explained how by becoming more vigilant and by taking simple steps people can prevent the rapidly spreading seasonal viral disease. Expert also apprised the participants about medication to be taken in dengue and advised to take abundance of fluids and rest in recovery phase as the best method of managing dengue.

National Webinar on 'Cowpathy and Human Health'

College of Animal Biotechnology in association with the 'Society for Immunology and Immunopathology' organized the National Webinar on 'Cowpathy and Human Health'.



Public Awareness Drive to Promote Fish Consumption

College of Fisheries (CoF) conducted 'Fish Consumption Awareness Drive' to enhance the consumer/public awareness for fish consumption. Dr. Inderjeet Singh, Vice-Chancellor, GADVASU hailed the efforts and active participation of students in the awareness drive and impressed upon the contribution of fisheries sector towards enormous socio-economic growth in terms of food, nutritional security, livelihood, employment opportunities and revenue generation.



Dr. Inderjeet Singh, Vice-Chancellor inspecting students' creativity

Various activities, including publicity (handouts/articles/posters/media coverage), fish food festival, sale of fish products and poster making competition were organized with active participation of the students to instill entrepreneurial marketing skills amongst them.

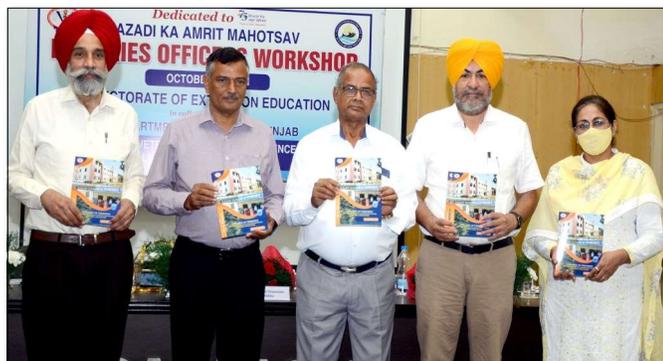


Poster for promoting fish products consumption

A tagline contest was conducted to develop some attractive catchy phrases fostering the urge to consume fishery products.

Fisheries Officers Workshop

Directorate of Extension Education organized 'Fisheries Officers Workshop' in collaboration with College of Fisheries, GADVASU and Department of Fisheries, Punjab. The workshop offered a common platform to scientists, extension workers, farmers and students to get abreast with the technological advancements, emerging issues and required actions for sustainable development of fisheries sector.



Release of workshop reference material by the Vice-Chancellor and Director and Warden of Fisheries, Punjab

Dr. Inderjeet Singh, Vice Chancellor, GADVASU was the Chief Guest of the programme. He emphasized that the University and State Fisheries Department shall play an effectual complimentary role to ensure optimized economic utilization of fresh water and saline water fisheries resources available in Punjab. Dr. Madan Mohan, Director and Warden Fisheries, Punjab was the Guest of Honour.

Meeting of the Innovative Fish Farmers Association of Punjab (IFFA)

College of Fisheries organized a meeting of the Innovative Fish Farmers Association of Punjab (IFFA). Mr. Debtanu Barman, Director, Aquaone Centre, Kolkata delivered guest lecture and interacted with farmers on important aspects of aquaculture for reaping maximum production from respective ponds.



Activities of Krishi Vigyan Kendra(s) (KVKs)

Scientific Advisory Committee (SAC) Meetings



- The meeting of the Scientific Advisory Committee (SAC) of KVK, Booh (Tarn Taran) was held under the chairmanship of Dr. Inderjeet Singh, Vice-Chancellor, GADVASU. Dr. Nachiket Kotwaliwale, Director-ICAR-CIPHET and expert(s) from GADVASU, Punjab Agricultural University (PAU), Ludhiana and Government Department(s) and farmers participated in the meeting. Dr. Balwinder Kumar, Associate Director of KVK presented the progress report and proposed action plan for the year 2022-23.



- Scientific Advisory Committee Meeting of KVK, Barnala was held on 22nd December 2021 under the Chairmanship of Dr. Inderjeet Singh, Vice-Chancellor, GADVASU. Dr. Rajbir Singh, Director, ICAR-Agricultural Technology Application and Research Institute, Zone-I, Ludhiana and Dr. JPS Gill, Director of Research, GADVASU, Ludhiana Co-Chaired the meeting. Dr. P. S. Tanwar, Associate Director, KVK, Barnala presented action taken report for decisions taken during last SAC Meeting and elaborated the achievements of KVK Barnala.

The Vice-Chancellor provided valuable suggestions in meetings of both KVKs for framing the future action plan and improving their activities and services.

World Fisheries Day



World Fisheries Day at village *Bhurakona*

- KVK, Booh (Tarn Taran) celebrated the World Fisheries Day at village *Bhurakona* (Tarn Taran). A total of 50 farmers participated in the programme. Expert(s) motivated the participants to adopt fish farming for better income.



Fish pickle preparation demonstration

- KVK, S.A.S. Nagar (Mohali) organized the Fish pickle preparation demonstration for the participants under the Central Institute of Fisheries Technology Scheduled Castes Sub-Plan (CIFT-SCSP) sponsored project.

World Soil Day

KVK, Booh (Tarn Taran) celebrated the World Soil Day under the theme '**Halt Soil Salinization, Boost Soil Production**' at village *Gharka* to create awareness amongst the farmers regarding soil test based fertilizer application in agricultural and horticultural crops. A total of 115 farmers and officials of agricultural department attended the programme.



World Soil Day celebration at village *Kattu*

- KVK, Barnala organized awareness programme under the theme '**Importance of soil as a critical component of the natural system and as a vital contributor to human wellbeing**' at village *Kattu* (Barnala). A total of 30 farmers participated in the programme.

Vocational Training on 'Scientific Pig Farming'



Training on 'Scientific Pig Farming'

KVK, Booh (Tarn Taran) organized a Vocational Training programme on '**Scientific Pig farming**'. A total of 20 farmers attended the training and got benefitted. Expert(s) disseminated knowledge to the participants about breeds of pigs, their feeding management, lay out plans, vaccination, diseases and their possible treatments, nutritive value of pig meat, waste products and their management.

Vaccination Camp

RRTC, Talwara organized vaccination camp for Enterotoxaemia Vaccine for the goat farmers of the Kandi area. Vaccination of 50 goats was conducted at the farmers' doorsteps and the booster vaccine dose was also provided.

Animal Welfare Camps

Regional Research and Training Centre (RRTC), Talwara organized animal welfare camps in village(s) *Dharampur* and *Dohar* (Hoshiarpur). A total of 60 farmers participated in these programmes and got benefitted. Expert(s) imparted scientific knowledge to the participants about the management of common problems related to dairy farming.



Animal Welfare Camps

Chicks distribution camp-cum-training programme

KVK, S.A.S. Nagar (Mohali) organized chicks distribution camp under frontline demonstration and training on 'Rearing of chicks during winter'. Expert(s) motivated farmers to initiate backyard poultry farming for better economic returns vis-à-vis to secure nutritional requirement(s) and imparted them scientific know-how about rearing of chicks. The participants were distributed 300 quality and healthy chicks of Desi cross and Karaknath breeds.



Mahila Kisan Divas

- KVK, Booh (Tarn Taran) celebrated Mahila Kisan Divas under the theme 'Equity and Empowerment' at *Harike* (Tarn Taran). A total of 50 women participated in the programme and interacted with the KVK expert(s).



Mahila Kisan Divas at Harike

- KVK, Barnala celebrated 'Mahila Kisan Divas' at Village *Handiaya*. A total of 24 farmers participated in the event and got benefitted. The experts delivered talk(s) and held discussions with the participants about role of farm women in agriculture and animal husbandry.



Skill development training on Fish processing and Value addition

KVK, Booh (Tarn Taran) organized Skill development training on 'Fish processing and Value Addition'. Expert(s) imparted scientific knowledge to the participants and demonstrated value added fish products to provide hands on experiential learning to the trainees. An exposure visit to the college of fisheries, GADVASU, Ludhiana was organized.



Training on Fish processing and Value addition

Awareness Programme(s) on Crop Residue Management



Vice-Chancellor and other dignities visiting exhibition

- KVK, S.A.S. Nagar (Mohali) organized a capacity building and awareness generation programme on ‘**Combating Environmental Pollution by Biomass Burning & Improving Livelihood by Promoting Circulatory Rural Economy**’. A total of 200 farmers and officials of District Agriculture and Farmers’ Welfare Department participated in the programme. Expert(s) delivered lecture(s) on diverse aspects of paddy straw management, soil health issues, DSR technology, weed and machinery in wheat cultivation etc. The Guest of Honour, Dr. J. S. Samra, Senior Advisor (Renewable Energy Programme), CRRID, Chandigarh discussed the various ways of utilizing paddy straw and informed about the enterprises involved in procurement of straw. Dr. Inderjeet Singh, Vice-Chancellor cautioned the farmers regarding crop residue burning and highlighted its harmful effects on human health. An exhibition was also organized in which private companies, Farmer Producer Organization, Self Help Group and entrepreneurs displayed their products.



Farmers Awareness Camp at village Jallewal

- KVK, Booh (Tarn Taran) organized Farmers Awareness Camp on Crop residue management under the theme ‘**In-situ management of paddy straw**’ at village *Jallewal* (Tarn Taran), one of the two villages adopted by KVK for paddy straw management. A total of 68 farmers participated in the event.



Kisan Mela at Amarkot

- KVK Booh (Tarn Taran) in collaboration with ICAR-ATARI, Zone-I organized Kisan Mela on ‘**Promotion of Agricultural Mechanization for in-situ Management of Crop Residue**’ at *Amarkot*. A total of 400 farmers and stakeholders participated in the event for learning new and improved agricultural practices for conserving environment.



Awareness Camps-cum-Front Line Demonstration

- KVK Booh (Tarn Taran) organized ‘**Awareness Camps-cum-Front Line Demonstration**’ on Treatment of paddy straw with urea and molasses for feeding in dairy animals. A total of 100 farmers were imparted training under these programme.
- KVK, Barnala organised awareness campaign on Crop Residue Management at Government Senior Secondary School, Handiaya (Barnala). A total of 456 students were apprised about the ill effects of stubble burning and strategies for crop residue management.



KVK, Barnala officials distributing certificates to students

- KVK, S.A.S. Nagar (Mohali) trained 25 farmers of village *Mundhon Mastana* on **'In-situ Crop Residue Management'**. Expert(s) apprised the farmers regarding harmful effects of burning crop residues on environment and human health, and appealed them to mix residues in the fields itself and/or use it as animal feed after treatment instead of burning.

Workshop on 'Vegetable Production and Processing'



Workshop on 'Vegetable Production and Processing'

KVK, S.A.S. Nagar (Mohali) in collaboration with APEDA, New Delhi and ICAR-ATARI, Ludhiana organized Workshop-cum-Vegetable Farmer's meet on **'Vegetable Production and Processing'** for capacity building of farmers for vegetable based export oriented agri-supply chain. A total of 200 participants took part in the workshop.

Vocational Training on 'Nursery seed production of vegetable and flower crops'



KVK, Booh (Tarn Taran) organized vocational training on **'Nursery seed production of vegetable and flower crops'**. A total of 35 farmers attended the training programme and got apprised about the importance of vegetable and flower crops for agriculture diversification.

Vocational training course on Beekeeping



Vocational training course on Beekeeping

KVK, S.A.S. Nagar (Mohali) conducted vocational training on beekeeping at the District Administrative Complex, S.A.S. Nagar in collaboration with the Department of Agriculture and Farmers Welfare, S.A.S. Nagar.

National camp on 'Agriculture and Environment'



KVK, Booh (Tarn Taran) organized National awareness campaign under the theme **'Agriculture and Environment: the Citizen Face'**. A total of 38 school students took part in the event. Expert(s) ignited the young minds about organic farming, types of environmental pollutions and use of resource conservations technologies.

Swachhta Campaign

KVK, Booh (Tarn Taran) organized **'Special Swachhta Campaign'** from 02-31 October, 2021, taking in its ambit various cleanliness activities. A total of 383 farmers and faculty members took part in the programme.

Students' Activities

'Fit India Freedom Run 2.0'

GADVASU organized 'Fit India Freedom Run 2.0' as a part of *Azadi Ka Amrit Mahotsav*, celebration of 75 years of India's independence, under the aegis of Ministry of Youth Affairs and Sports. Dr. Inderjeet Singh, Vice-Chancellor presided over the event and flagged off the run. Addressing the participants, Dr. Singh appreciated the enthusiastic involvement of students from constituent colleges of GADVASU.



A total of 200 students ran around the campus of the Veterinary College complex. The officers of the University and heads of the departments joined the event to motivate the participants.

Clean India Programme

- The National Service Scheme (NSS) volunteers of GADVASU took part in the 'Clean India Programme' in commemoration with *Azadi ka Amrit Mahotsav* under the initiative of Government of Punjab. Students painted the tree trunks covering the area of 2 Kilometers in University campus.



- The NSS Volunteers of the College of Veterinary Science, Rampura Phul cleaned the surroundings of the college, imparted awareness amongst the residents of the town to encourage their involvement in global fight against single use plastic and planted 200 saplings of trees in college premises.

Horse Show

Cadets from 1 Pb R & V SQN NCC presented an enthralling horse show as an opening event of the 243rd Remount Veterinary Corps (RVC) day, under the guidance of Col. S.K. Bhardwaj Commanding Officer of the Unit. Dr. Satyavan Rampal, Director Students Welfare-cum-Estate Officer, GADVASU was the Chief Guest of the occasion. The show was organised to break the shackles and let the cadets show their equestrian skills and also to motivate the other students of College of Veterinary Science to take up this adventurous sports.

Study Tour of Interns



- Department of Veterinary and Animal Husbandry Extension Education organized a study tour of intern students. The students visited the adopted villages of GADVASU in Mehal Kalan Block (Barnala) under ICAR funded Farmer FIRST Project of the University. They were apprised about various input services, interventions and extension activities implemented by the project team of the University in the operational area.



- Students visited to Krishi Vigyan Kendra (KVK), Barnala and learnt about the mandate, objectives and functioning of KVK and its extension activities, input services and programs conducted for the farming community.