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## e-Newsletter

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

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

January - March 2023 (I)

### From the Desk of the Vice-Chancellor



Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana ensures the constant dissemination of scientific knowledge under its ambit in research and development endeavors for benefiting the farmers and other stakeholders through various extension activities. *Pashu Palan Mela* of the University is the mega platform for livestock sector stakeholders for exchange of technical knowledge. The *Pashu Palan Mela* of the University was organized during March 2023 under the theme 'Eco-Friendly Livestock Farming', promoting sustainable and climate resilient livestock farming. The University showcased research, education and extension outcomes/activities and demonstrated its exceptional germplasm at the *Mela*. To promote scientific livestock farming in the state and recognize the progressive approach of farmers towards this respectable and noble profession, the University bestowed four farmers with the 'Chief Minister' award in different categories, selected on competitive basis. The Krishi Vigyan Kendra (KVK) of the University at Booh (Tarn Taran) also organized a *Kisan Mela* to promote agricultural mechanization for *In-situ* management of crop residues, to get rid of the ill effects of this menace.

Fisheries and aquaculture are growing sectors having potential to provide multifold economic returns. Moving a step ahead towards furthering entrepreneurship in these, the University has established the 'Capacity Building Resource Centre for Intensive Aquaculture Technologies', to serve as a prospective resource for demonstration, capacity building and innovative Research and Development for up scaling the intensive aquaculture technologies in eco-friendly manner.

The University opened up second sale point to educate folks about the adulteration and preservative free milk and milk products of the highest purity. Anyone can visit this sale point and can buy and taste the healthy, delicious and chemical free milk and milk products.

The University warrants the continuous learning and strengthening of the technical skills of students and faculty by organizing trainings, educational series, seminars etc. Under the aegis of the prestigious Institutional Development Plan (IDP) at Guru Angad Dev Veterinary and Animal Sciences University, the University facilitated training of faculty and students abroad to give them international exposure. Likewise, the overseas professor(s) who have visited the university and interacted with the students have provided the latter a larger view of worldwide veterinary and animal sciences practice(s). Several faculty member(s) and student(s) have brought laurels to the institution by bagging awards/ honours/ recognition. I appreciate their sincere efforts in bringing accolades for the University.

I am deeply saddened with the loss of four of our beloved young and promising students in an unfortunate road accident. This indelible void that can never be filled has left us shaken and grief-stricken.

I want to thank all the faculty members, researchers, students and staff who work tirelessly to enrich this University vis-à-vis for ascendancy of the livestock sector. Your dedication and passion are instrumental in making this University a beacon of hope for farmers/ entrepreneurs.

**(Inderjeet Singh)  
Vice-Chancellor**

### *Pashu Palan Mela*

Guru Angad Dev Veterinary and Animal Sciences University (GADVASU), Ludhiana organized *Pashu Palan Mela* from 24-25 March 2023 under the theme '**Eco-Friendly Livestock Farming**'. Dr. S. S. Gosal, Vice-Chancellor, Punjab Agricultural University (PAU), Ludhiana inaugurated the Mela. S. Kuldeep Singh Jassowal, Director, Dairy Development Department, Punjab also graced the occasion. Dr. Gosal applauded the efforts of GADVASU in transfer of technology for benefitting the masses and stated that the international and national collaboration(s) of the university have earned fruitful results for the scientific and farming community. The University showcased its' research, education and extension outcomes/activities at the *Mela*.

The excellent germplasm of the University was showcased. The University exhibited its technologies and imparted knowledge through farmers-scientists interaction(s). Technical lectures on various aspects of scientific livestock, fish and poultry rearing were delivered urging farmers to adopt the respective best practices. Live demonstrations on the various technologies including Milk Testing Kit, Mastitis Diagnosis Kit, Teat Dip Practice and Acaricide Drug Application were conducted. University publications on different subjects of livestock farming were also available for sale. Special interactive session on livestock rearing in the scientific way was organized consisting of live lectures from experts and question(s)-answer(s) for participants. The Self-Help Groups trained by the University also displayed their value added products.

Mobile Application(s) on '**Reproductive Management and Practices**', and '**Artificial Intelligence**', a book on '**Dairy Farming**', a monograph on '**Leptospirosis**', folders on '**Water analysis of dairy sector of Punjab**', leaflets and folders on different veterinary related subjects were also released by the dignitaries.



Dr. Sukhpal Singh, Chairman, Punjab State Farmers' and Farm Workers' Commission was the Chief Guest on the concluding day. The University bestowed the '**Chief Minister Award**' to four best farmers in Buffalo, Fish, Pig and Goat categories to encourage scientific farming in the state. The Mela concluded with a message to rear livestock in a befitting manner with respect to ecology and nature.



### Inauguration of Capacity Building Resource Centre

Shri. Jatindra Nath Swain (IAS), Secretary, Department of Fisheries (DOF), Ministry of Fisheries, Animal Husbandry and Dairying, Government of India (GOI) inaugurated the ‘**Capacity Building Resource Centre for Intensive Aquaculture Technologies**’ developed at GADVASU, under the aegis of Pradhan Mantri Matsya Sampada Yojana (PMMSY). Shri Sagar Mehra, Joint Secretary, Department of Fisheries, Sh. Jasvir Singh, Director and Warden Fisheries, Punjab also graced the occasion. GADVASU has been the first university to receive 100% funding (Rs. 139.05 lakhs) for the said project under PMMSY, and the developed Centre is being visualized as a catalyst to boost the Blue Revolution in the region, in special reference to enthusiastic youth seeking self-reliance. Dr. Indejeet Singh, Vice-Chancellor of the University said that the Centre will serve as a prospective resource for demonstration, capacity building and innovative Research and Development for up scaling the intensive aquaculture technologies like recirculatory aquaculture and biofloc based aquaculture systems as per regional needs and climate. Young professional degree holder entrepreneurs, Mr. Khushwant Singh (M.F.Sc) and Mr. Gurwinder Singh (M.V.Sc.), who ventured into shrimp farming after completing their post-graduation from the University were also honored.



### Inauguration of Milk Parlour

GADVASU started a new sale point near its administrative block for facilitating pure and fresh milk and milk products to the public. Dr. Inderjeet Singh, Vice-Chancellor of the University inaugurated the outlet and said that this sale point is another effort of the university to serve the society by providing them chemical and preservative free milk and milk products of the highest purity, with utmost safety. Apart from packed pasteurized milk, various products including Sahiwal cow Ghee, Paneer, Milk Cake, Burfi, Mozzarella Cheese, Flavored milk and Ice cream of different flavors are also available at this outlet. The products are manufactured and packed in Experimental Dairy Plant of the University from the fresh milk produced at GADVASU dairy farm.





## Activities under Institutional Development Project (IDP)



### Training of University Faculty/ Students Abroad

- **Dr. Swaran Singh Randhawa**, Director of Clinics, along with students visited Hebrew University, Israel for 15 days to have international exposure, from 16-30 January, 2023.



- **Dr. Mrigank Honparkhe**, Principal Scientist-cum-Head, Department of Veterinary Gynaecology and Obstetrics attended the 3 months international training at Western College of Veterinary Medicine, University of Saskatchewan, Canada from September 28, 2022 to December 28, 2022.



- **Dr. Sushma Chhabra**, Professor, Department of Veterinary Medicine attended the hands on training in Veterinary dermatology at the Veterinary Hospital, Jerusalem, Israel from 16-30 January 2023.



- **Dr. Raj Sukhbir Singh**, Professor, Teaching Veterinary Clinical Services Complex visited College of Veterinary Medicine, University of Wisconsin-Madison, Wisconsin, USA; for 3 weeks (1-21 March, 2023).



- **Dr. Ashwani Kumar Singh**, Professor, Department of Veterinary Gynaecology and Obstetrics attended one month training at Swedish University of Agricultural Sciences, Faculty of Veterinary Medicine and Animal Science, Uppsala, Sweden from December 03, 2022 to January 03, 2023.



- **Dr. Pankaj Dhaka**, Assistant Professor, Centre for One Health, completed 03 months International training programme under the guidance of Professor Jeroen Dewulf, Department of Internal Medicine, Reproduction and Population Medicine, Ghent University, Belgium.



- GADVASU sent 10 students of B.Tech. (Dairy Technology) for an international training programme at University of South Australia (UniSA), Adelaide, Australia from March 08-22, 2023, to have an international exposure to the facilities and techniques at reputed institute, helping them to expand their knowledge domain and acquire latest practical skills.



Students going for training at Australia

- **Dr. Sunil Kumar**, Assistant Professor (Dairy Technology) from College of Dairy Science & Technology completed six months (from 15<sup>th</sup> August 2022 to 15<sup>th</sup> February 2023) of international training as Visiting Academic (Post Doc) at the School of Agriculture and Food Science at The University of Queensland, Brisbane, Australia.



### Visits of international expert(s) to GADVASU

- **Prof. Ido Braslavsky**, Head, Institute of Biochemistry, Food Science and Nutrition, The Hebrew University of Jerusalem, Israel visited Department of Veterinary Gynaecology and Obstetrics, College of Veterinary Science, Ludhiana from 05.02.2023 to 20.02.2023 and delivered lectures to students on cryobiology.
- **Dr. Fabienne D. Uehlinger**, Associate Professor, Western College of Veterinary Medicine, University of Saskatchewan, Saskatoon, Canada visited GADVASU from 24.02.2023 to 02.03.2023.

- **Dr. Rubin Joe**, Associate Professor and Graduate Chair Department of Microbiology, University of Saskatchewan was guest faculty in the Department of Veterinary Microbiology, College of Veterinary Science, Ludhiana from 26 February 2023 to 03 March 2023. He delivered lectures to students on antigenic characteristics, pathogenesis and diagnosis and control of various bacterial diseases.
- **Dr. Bikash Sahay**, Research Associate Professor, Department of Infectious Diseases & Immunology University of Florida, USA visited Department of Veterinary Gynaecology and Obstetrics, College of Veterinary Science, Ludhiana from 25.02.2023 to 11.03.2023 and delivered talk(s) to students on uterine infections and gut microbiota.
- **Dr. Radhashankar Narayanan**, CEO, Smart Series, visited Department of Veterinary Gynaecology and Obstetrics, College of Veterinary Science, Ludhiana as expert and delivered lectures to student on Soft Skill Development from 27.02.2023 to 03.03.2023.
- **Dr. Nidhi Bansal**, an Associate Professor from the School of Agriculture and Food Sciences at The University of Queensland, Australia, visited the College of Dairy Science and Technology, Ludhiana, and interacted with students, delivering lectures on various significant topics, including the chemistry of milk components, liquid milk processing, fat-rich dairy products, fermented milk products, cheese processing, non-thermal processing & preservation, and current scenario and future outlooks for the dairy industry.



- **Dr. Amandeep Chohan**, Clinical Associate Professor, UC Davis School of Veterinary medicine, USA, imparted training on techniques in emergency and critical care management of small animal patients to GADVASU students from February 3-10 2023.

### Skill Development Programme for students

College of Dairy Science and Technology organized a week-long Students Skill Development Programme for the undergraduate students under IDP-NAHEP Project. Mr Sanchit Jain, State Coordinator (Punjab and Chandigarh), Art of Living Programmes and Certified Corporate Trainer delivered lectures on the topics 'Mantras for Success' and 'Mind and Success'.



### 74th Republic Day Celebrations

GADVASU, Ludhiana celebrated the Republic Day with patriotic fervor and enthusiasm.

Dr. Inderjeet Singh, Vice-Chancellor, the 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. He admired the unity in diversity of the country. Dr. Singh highlighted the achievements of the University during last one year and urged the students and staff members to work wholeheartedly to serve the society more enthusiastically. Faculty members were honoured for their academic, research and extension contributions, achievements and exemplary work, earning laurels for the university. Cultural events were also organized.



## Research Activities

### MoU with HIMEDIA Laboratories Private Limited

GADVASU, Ludhiana and HiMedia Laboratories Private Limited, Maharashtra signed a Memorandum of Understanding (MoU) for developing Human Resources in the field of Molecular Biology, Biotechnology and Microbiology. The MoU was signed by Dr. J.P.S. Gill, Director of Research, GADVASU and Dr. Rajas, Director, Molecular Biology, HiMedia in the presence of Dr. Inderjeet Singh, Vice-Chancellor of the University. Dr. Singh added that the research leads taken up by the faculty of GADVASU will be converted into field use technologies for companion and farm animals with technical help of HiMedia.



### MoU with Carus Laboratories for meritorious students

GADVASU, Ludhiana signs Memorandum of Understanding (MoU) with Carus Laboratories, a fast-growing animal healthcare company based in Karnal (Haryana) to award meritorious students annually. The Carus Laboratories will award scholarships/awards to three meritorious students in the oath-taking ceremony of passing-out students of B.V.Sc. & A.H. on the basis of their composite merit (OGPA) in the veterinary clinical subjects, namely medicine, surgery, gynaecology and clinics.

### Projects Earned

- ◆ **Dr. Nirbhay Kumar Singh**, Professor-cum-Head, Department of Veterinary Parasitology earned a project entitled “**Development of surveillance and mitigation tools for the management of anthelmintic resistance in small-ruminants**” worth **Rs. 89.1 lakhs**, funded by Ministry of Fisheries, Animal Husbandry & Dairying, Government of India, under the National Livestock Mission.
- ◆ **Dr. Vijay Kumar Reddy (PI), Dr. Amit Mandal, Dr. Siddhnath and Dr. Vikas Phulia (Co-PIs)** bagged a research project on “**Improvement of Livelihood Status of the Scheduled -Caste SC population of Punjab State through Biofloc Fish Farming and Value Addition of Produced Fish**” worth **Rs. 54.21 lakhs** funded by the Department of Science and Technology (DST) - Science For Equity Empowerment and Development (SEED).



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

#### University Biotechnologist bring laurels at International Level

- **Dr. YPS Malik**, Dean of College of Animal Biotechnology was selected to Chair the Picobirnaviridae Family Group in the World Health Organization (WHO). He has also been opted as member of the WHO Prioritization Advisory Committee (PAC) of epidemic and pandemic threat.
- Dr. Malik also received Sabin Vaccine Institute Travel Grant Award for attending the 14th International Rotavirus Symposium, held in Bali, Indonesia from March 14-16, 2023. Dr Malik presented his work on '**Complete genomic analysis of a small ruminant rotavirus reveals an artiodactyl type genomic constellation with multispecies re-assortments**'.



#### Scientist(s) represent the University at International Institution(s)

- **Dr. Nirbhay Kumar Singh**, Professor-cum-Head, Department of Veterinary Parasitology attended the FAO Acaricide Resistance Management of Livestock Ticks Kickoff Meeting held at Addis Ababa, Ethiopia from 8 to 10 March, 2023.
- **Dr. J.S. Bedi**, Director, Centre for One Health– visited the Royal Veterinary College (RVC), London, UK from March 29 - April 02, 2023 under a collaborative research project between GADVASU and RVC funded by Gates foundation.



#### University Faculty bag laurels at Annual Convention of Indian Society for Veterinary Medicine

Student and faculty of Veterinary Medicine of GADVASU participated in the 39<sup>th</sup> Annual Convention of Indian Society for Veterinary Medicine held at College of Veterinary and Animal Science, G.B. Pant University of Agriculture and Technology, Pantnagar, during February 22-24, 2023 and bagged prizes/awards. Dr. S.S. Randhawa, was awarded Fellowship of the Indian Society of Veterinary Medicine and Dr. Randhir Singh, Assistant Professor got appreciation award. Dr(s). G.S. Preet, Surbhi Gupta, S.S. Randhawa, Shabnam Sidhu, S. Chhabra, C.S. Randhawa, N.K. Sood, Tanvika Sangwan, Neetu Saini, A. Anand and Amrjeet Bisla got best oral/poster presentation award (s) for their research work.

#### Young Scientist Award

Dr. Alveena Ganai, Assistant Professor, Department of Veterinary Parasitology earned the '**Young Scientist Award**' in the International Conference on Latest Trends and Innovations in Pharmaceutical and Biosciences held at Kota, Rajasthan on March 18, 2023. She also bagged the '**Best Scientific Oral Presentation Award**' in the conference.



#### Scientist bags award at Annual Convention of SVBBI

Dr. Chanchal Singh, Associate Professor bagged the Best Paper/Best Poster Award for presenting research paper on '**Assessment of growth, hemato-biochemical, micromineral and antioxidant parameters associated with weaning in pigs**' at the Annual Convention of SVBBI organized by the Department of Veterinary Physiology and Biochemistry, College of Veterinary Science and Animal Husbandry, NDVSU, Jabalpur, from 5-6 January, 2023.



#### Scientists earn laurels at National Conference

The faculty and students of the Department of Livestock Production Management participated in the 29<sup>th</sup> Annual Convention of Indian Society of Animal Production & Management (ISAPM) - 2023 held at Odisha University of Agriculture & Technology, Bhubaneswar and brought laurels to the University by bagging awards/honours.

Dr(s). Daljeet Kaur, Mandeep Singla and Ravi Kant Gupta were bestowed with felicitation awards for their contribution in different technical sessions. Ph.D and postgraduate students also earned award(s).

### Award for Best Publication in Journal

**Dr. Manvesh Kumar Sihag**, Assistant Professor, Department of Dairy Chemistry, College of Dairy Science and Technology got the Best Paper Award at the 49<sup>th</sup> Dairy Industry Conference held from 16<sup>th</sup> to 18<sup>th</sup> March, 2023 at Gandhinagar, Gujarat, for the article “**A Comparative study on the S-values of cow and buffalo ghee calculated using equations specified in ISO (17678) method of determining the milk fat purity by gas chromatographic analysis of triglycerides**” published in Indian Journal of Dairy Science, 2021.



### Award at Punjab Science Congress

**Dr. Adarsh Mishra**, Assistant Professor, College of Animal Biotechnology received the Best Oral Presentation Award for the work “**Immunoinformatic analysis of structural capsid protein of porcine parvovirus 1 and porcine parvovirus 2**” during the 26<sup>th</sup> Punjab Science Congress organized at Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab.



### Award(s) at Fisheries and Aquaculture Conference - An Ecological Perspective

Following faculty members of College of Fisheries (COF) got conferred with award(s) in the “**Fisheries & Aquaculture Conference - An Ecological Perspective**” (IESFAC-2023) conference held at GADVASU, Ludhiana in collaboration with Indian Ecological Society, PAU, Ludhiana from February 22-24, 2023:

- **Dr. Parbjeet Singh** - ‘Fellow of Indian Ecological Society’
- **Dr. S. N. Datta** - ‘Fellow of Indian Ecological Society’
- **Dr. Amit Mandal** - Best Poster Presentation award’ for poster entitled “Effects of Dietary Partial Replacement of Fish Meal by De-oiled Castor Cake on Growth Performance, Immune-haematological Status, Digestive Enzymes Activity, and Flesh Quality of GIFT Tilapia (*Oreochromis niloticus*)”.
- **Dr. Ajeet Singh** - Best Poster Presentation award’ for poster entitled “Nutritional and Textural Characteristics of Fish Protein Powder and Fiber Enriched Biscuits”

- **Dr. Vijay Kymar Reddy S.** - ‘Best Poster Presentation award’ for poster entitled ‘Quality Attributes of Biscuits Supplemented with Protein Isolates from Pangas Processing Waste’.
- **Dr. Abhishek Srivastava** - Best Poster Presentation award’ for poster entitled ‘Ameliorative Immunity Benefits of Ashwagandha (*Withania somnifera*) Root Powder in an Indian Major Carp Species *Labeo rohita* (Ham.)

Students namely Sumit Rai and Sahil (Ph.D.) scholars and Taranpreet Singh and Mohit Kamboj 9M.F.Sc. students) also got awards for presenting their research work.

### Awards at International workshop on Genome Editing

- **Dr. Vishal Sharma**, Assistant Professor, College of Animal Biotechnology received the Best Poster Presentation Award (Third prize) in International workshop on “**Genome Editing for food security and Environmental sustainability**” organized at GADVASU.
- **Dr. Gurvinder Kaur**, Teaching Fellow of College of Animal Biotechnology received Best Poster Presentation Award (Second prize) in the same conference.

### Farmer Associated with KVK Tarn Taran Honoured at National Level



S. Prabhpal Singh Dhillon being awarded by the Hon'ble Union Minister

S. Prabhpal Singh Dhillon, a progressive farmer from village Kasel, associated with KVK, Booh (Tarn Taran) has been conferred with ‘**IARI Innovative Farmer Award 2023**’ during the *Pusa Krishi Vigyan Mela* held at Indian Agricultural Research Institute (IARI), New Delhi. Sh. Kailash Choudhary, Minister of State for Agriculture and Farmers Welfare, Govt. of India; Dr. Himanshu Pathak, Secretary and Director General, ICAR, and Dr. A.K. Singh, Director and Vice-Chancellor, IARI, New Delhi presented the award.

### Union Cabinet Minister releases the policy papers published by GADVASU and NAVS



Hon'ble Union Minister Shri. Parshottam Rupala Ji and Dr. DVR Rao, President NAVS, releasing the policy papers

Shri. Parshottam Rupala, Hon'ble Union Cabinet Minister of Fisheries, Animal Husbandry and Dairying, Government of India and Dr. D. V. R. Prakash Rao, President, National Academy of Veterinary Sciences (NAVS), India released the policy papers on “**Trans-boundary viral diseases of Livestock- Foot and Mouth disease (FMD), Lumpy skin disease (LSD) and African Swine Fever (ASF)**” and “**Leptospirosis- a neglected disease**” published by GADVASU and NAVS. These policy papers are based on the scientific deliberations and recommendations of a two days National Workshop and Brainstorming on ‘Strategy on control and eradication of formidable Trans-boundary viral diseases of Livestock- Foot and Mouth disease (FMD), Lumpy skin disease (LSD) and African Swine Fever (ASF)’ held at GADVASU from November 14-15, 2022.

### Vice-Chancellor invokes rural students for higher education



Dr. Inderjeet Singh, Vice-Chancellor and Officer(s) of the University at Dairy Farm, Rar Sahib

Dr. Inderjeet Singh, Vice-Chancellor, GADVASU visited the dairy farm established by the Rara Sahib Trust with the technical support of the University. The officers and expert(s) of the University also accompanied him. Dr. Singh emphasized on rearing the livestock on scientific lines and gave valuable suggestions to the staff working at Dairy Farm. He assured that the university will provide all possible support for the improvement of the farm by ensuring expert services. Dr. Singh also gave suggestions regarding designs of animal shed, silage unit, feed store, milking parlor and bio-gas plant.

Baba Baljinder Singh ji, Mukhi, Sampardaye Rara Sahib also discussed different and important aspects of animal husbandry and education. He also presented token(s) of blessings to Dr. Inderjeet Singh and accompanying officials.

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

#### International Workshop on ‘Genome Editing for Food Security & Environmental Sustainability’

GADVASU in collaboration with McGill University, Canada, University of Saskatchewan, Canada and Punjab Agricultural University, Ludhiana organised an International Workshop on ‘**Genome Editing for Food Security and Environmental Sustainability**’. A total of 120 participants took part in the workshop. Mr. Patrick Hébert, Consul General of Canada was the Chief Guest of the event and Dr. Baljit Singh, Vice-President Research, University of Saskatchewan, Canada was the Guest of Honour. Dr. Inderjeet Singh, Vice-Chancellor, GADVASU was the Chief Patron of the workshop. Expert(s) emphasised the need of collaboration and team work to fix ongoing complex global issues. Besides scientific deliberations by a galaxy of invited speakers, a hands-on training on ‘Gene editing: What, Where, When and Why?’ was also conducted. Dr. S. S Gosal, Vice-Chancellor, PAU was the Chief Guest of the Valedictory function.



## National Conference on Ecological Perspectives of Fisheries



The Dignitaries with the Awardee(s)

GADVASU, in collaboration with Indian Ecological Society, Punjab Agricultural University, Ludhiana organised the national conference on 'Fisheries and Aquaculture: An Ecological Perspective' (IESFAC-2023) from February 22-24, 2023. The participants deliberated on eco-friendly innovations, advanced technologies and recommendations for sustainable development of fisheries sector to achieve the envisaged production targets, within the realms of environmental well-being, climate change, public health and food safety. The inputs on quality, climate smart technologies, diversification, intensification, conservation of aquatic resources, health management, exotics, antimicrobial resistance, one health concerns, food quality/safety, postharvest management, circular bio economy, public awareness, domestic consumption and capacity building of stakeholders with a strong inter-institutional linkages were pondered. An interactive Academia-Farmer-Industry session was held, addressing the key issues related to shrimp farming to resolve the recently witnessed marketing bottlenecks, in special reference to inland states. The best oral/poster presentations, travel grants and conference partners/sponsors/ co-sponsors were felicitated. Dr. Inderjeet Singh, Vice-Chancellor and Conference Chair expressed that recommendations from the conference will certainly help in shaping the fisheries sector towards sustainability to cater human needs with due respect to environmental well-being and social welfare, to harness optimal economic benefits from aquatic resources.



Farmer-Scientists Interface

## PUM Experts visit GADVASU



Discussion with PUM Netherlands Experts in progress

PUM Netherlands Sector Coordinator for Small Ruminants Mr. Gerrit, Senior Expert Mr. Merks along with PUM Representative-India Mr. K.R. Jain visited GADVASU, Ludhiana and interacted with the University fraternity. Dr. Inderjeet Singh, Vice-Chancellor emphasized the need to work on a cluster-based approach for inviting experts and solving farming related problems. Discussion were held on various problems related to dairy, and goat farming.

## Advanced Training on Animal Reproduction



Discussion with PUM Netherlands Experts in progress

Department of Veterinary Gynaecology and Obstetrics, College of Veterinary Science organized a training on "Advanced Insights on Theriogenology to Ameliorate Reproductive Health of Domestic Animals" under the aegis of ICAR. A total of 25 scientists took part in the training. Expert(s) imparted knowledge and hands-on training on different aspects of male and female reproduction. The participants were acquainted with techniques and strategies to improve herd fertility by incorporation of the latest reproductive technologies viz. advanced methods of heat detection, modulating follicular dynamics, ultrasonography, infrared thermography etc.

## Training on Mushroom Cultivation

GADVASU organized training camps for farmers under ICAR funded 'Farmer FIRST' project at adopted villages in Block Mehal Kalan (Barnala). A total of 50 farmers were trained and provided bags for cultivation of mushroom.

### Entrepreneurship Development Programme on 'Processing and Value Addition of Meat'



Participants with the University expert(s)

Department of Livestock Products Technology (LPT), College of Veterinary Science, Ludhiana organized an Entrepreneurship Development Programme on '**Processing and Value Addition of Meat**' under the aegis of ICAR SC-SP Scheme. A total of 15 participants took part in the training aimed at educating them about clean meat production practices, processing and value addition of meat by preparing different types of products and preservation of meat products for entrepreneurship development.

### Workshop on 'Quality Milk Production'



Dr. Inderjeet Singh, Vice-Chancellor addressing the participants

The Directorate of Extension Education, GADVASU in collaboration with ICAR-Agricultural Technology Application Research Institute, Zone-1, Ludhiana organized a workshop on '**Quality Milk Production**' for the officers of Dairy Development Department. Dr. Inderjeet Singh, Vice-Chancellor of the University and the Chief Guest of the programme encouraged the field functionaries to work in close association with researchers of GADVASU to acquire new skills and knowledge for their further dissemination amongst farmers, and pressed upon the need to motivate the farmers to work on quality of milk to reap the benefits from dairy farming since there is an increasing awareness regarding food safety. Expert(s) discussed about different aspects of milk production.

### Training programme for Women in Dairy Sector

College of Dairy Science and Technology, GADVASU and Department of Extension Education & Communication Management, Punjab Agricultural University, Ludhiana organised a training programme on '**Value Addition of Milk and Milk Products for Women in Dairy Sector**' at village Himanyupura under a project funded by the National Commission for Women, New Delhi. A total of 30 participants attended the training and got benefitted. Expert(s) delivered talk(s) on value addition of milk and milk products, importance of entrepreneurship for rural women in the dairy sector, economic benefits of value addition, entrepreneurial aspects, the requisites for starting a milk processing enterprise, including machinery, FSSAI rules and regulations, packaging material, marketing strategies and bank schemes for loans etc.

### Workshop on Goat Farming



Participant getting certificate from the Expert(s)

The Directorate of Extension Education, GADVASU conducted a workshop on '**Prospects of Goat Farming in Punjab**'. A total of 45 participants attended the programme. Dr. Inderjeet Singh, Vice-Chancellor graced the workshop as the Chief Guest. Mr. Ad Merks, Senior Expert from PUM Netherlands was the Special Guest of the event. The Vice-Chancellor underpinned the goatery towards the economy of resource poor farmers and said that it has the potential to generate employment avenues in the rural areas. Mr. Ad Merks delivered a key note lecture on goat production and management practices followed in the Netherlands. Expert lectures were delivered on goat diseases and goat management. The Farmer-Scientist interaction was also conducted.

## Empowerment of Farmers for Enhancing their Income



Dr. Inderjeet Singh, Vice-Chancellor addressing the participants

Directorate of Extension Education organized a training on 'Empowerment of dairy farmers for enhancing their income' for the scientists of Krishi Vigyan Kendras (KVK) in collaboration with ICAR-Agricultural Technology Application Research Institute, Zone-1, Ludhiana. Dr. Inderjeet Singh, Vice-Chancellor was the Chief Guest of the occasion. Expert(s) delivered lectures on methods and strategies for empowerment of farmers.

## Training on Poultry Farming



Distribution of certificates to the participants

Department of Veterinary and Animal Husbandry Extension Education organized a specialized training on poultry farming. A total of 23 trainees participated in the training and gained technical knowledge about different facets of scientific poultry farming. Practical demonstrations were also organized regarding post-mortem, identification of disease, value addition of egg and meat, along with a visit to integrated farm.

## Seminar for progressive pig farmers

Directorate of Extension Education organized a seminar for progressive pig farmers. Expert(s) imparted scientific knowledge on prevention and control measures against the spread of zoonotic diseases between pigs and humans, consumption of processed meat products, myths regarding meat consumption, value addition to processed pig meat products.

## Mobilization-cum-Awareness Programme on Formation of Dairy FPO



Mobilization-cum-Awareness Programme on Formation of Dairy FPOs

The Directorate of Extension Education organized a Mobilization-cum-Awareness Programme at Village Mushkabad (Ludhiana) under the project 'Promotion of Farmers Producer Organization (FPO) on Dairy Farming in District Ludhiana' funded by National Bank for Agriculture and Rural Development (NABARD).

## Training program on Basic life support

GADVASU in collaboration with CLIO Mother and Child Institute, Ludhiana organized the hands on training programme on Basic Life Support (BSL) for the students to provide them the tips on how to save life barehanded and for an emergency preparedness in a medical emergency.



## Workshop on Meditation for Excellence in Totality

Directorate of Students' Welfare, GADVASU organ used a workshop on 'Meditation for Excellence in Totality' under the aegis of 'Azadi Ka Amrit Mahotsav'. A total of 100 National Service Scheme (NSS) volunteers of the University attended the programme. The participants were exposed to a blend of meditative activities and games including teaching and practising of pranayama.



## One Day Workshop on Soft Skills

Directorate of Human Resource Management, GADVASU in collaboration with ICAR-National Academy of Agricultural Research Management (NAARM), Hyderabad organized a workshop on 'Development of Soft Skills for Entrepreneur-

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

### KVK, Tarn Taran organizes Kisan Mela



Krishi Vigyan Kendra, Booh (Tarn Taran) organised **Kisan Mela** on crop residue management under the project ‘**Promotion of agricultural mechanization and machinery for In-situ management of crop residues**’. A total of 800 farmers took part in the event. Smt. Surinderpal Kaur Bhullar wife of S. Laljit Singh Bhullar, Hon’ble Cabinet Minister, Punjab graced the occasion as the Chief Guest. Sh. Jagwinderjit Singh, Additional Deputy Commissioner, Tarn Taran was the Guest of Honour. The various initiatives of KVK for educating farmers to shun the paddy straw burning through various means of educational programmes were elaborated. Expert(s) delivered lectures on indigenous remedies for livestock management, integrated fish farming as a source for doubling farmers’ income, and vegetables and management of insect-pest in Kharif crop. Literature on crop residue management, Integrated Farming System and millets was released by the dignitaries. The crop residue machinery, seed, stalls of Self Help Group(s) and FPO(s) were put up for exhibition.

### Field day cum awareness programme on Canola sarson

KVK, Booh organized a field day-cum-awareness programme (Canola Day) under cluster frontline demonstrations on oilseed at village Cheema (Tarn Taran) to create awareness amongst farmers regarding health benefits, processing and marketing of Canola Sarson. A total of 100 farmers participated in the programme. Expert(s) imparted scientific knowledge on different aspects of oilseed crops cultivation.



Expert(s) interacting with the participants

### Session held on silage and hay at Silage School



Session on silage and hay

KVK, Booh, Tarn Taran organized a series of lectures on silage at **Silage School** established at Village Bhuchar Kalan (Tarn Taran), in collaboration with Agricultural Technology Management Agency, Department of Agriculture and Farmers Welfare, Tarn Taran. A total of 30 farmers attended the programme. Expert(s) imparted knowledge on scientific cultivation of fodder, planting methods, fertilizer application, weed and pest control and harvesting for ensuring better quality of silage.

### Condolence meeting in respect of the departed souls



Four students of College of Veterinary Science, Rampura Phul lost their lives in an unfortunate road accident on January 01, 2023. The condolence meeting(s) were held at Ludhiana and Rampura Phul campuses of the university to pay heartfelt tribute to the ill-fated students namely Lukesh Kumar, Rohan Sharma, Simrandeep Singh and Shail-ej Guleria. These students were in their fourth year of Bachelor of Veterinary Science and Animal Husbandry at Veterinary Science College, Rampura Phul. Dr. Inderjeet Singh, Vice-Chancellor, GADVASU, Deans, directors, teachers, employees and students of the university came to pay homage and their respect in this condolence meeting.

The students, staff and faculty of College of Veterinary Science, Rampura Phul also organised a candle march to pay tributes to the departed souls.

### NSS camp on 'Youth for Green Initiative'



Participants of NSS Camp

GADVASU organized week-long NSS Special Winter camp under the theme 'Youth for Green Initiative and skill development in Punjab', wherein 50 volunteers of the National Service Scheme (NSS) took part. The participants got hands-on training and exposure on skill development and saving the environment. A poster making competition was held and campus rally was also taken out to spread the message of channelizing youth for a green and clean environment.

### Rich haul by NCC cadets

Cadets from 1 Punjab R & V SQN NCC, GADVASU brought laurels in various equestrian events at national level in Republic Day camp, held at New Delhi. Three NCC cadets viz. Puneet Kaur, Yuvraj Singh and Makhan Verma were selected to participate in the prestigious Camp. Puneet Kaur won Gold medal in Dressage, Silver medal in Show Jumping and won 'Best Rider Girls runner up Trophy'. Yuvraj Singh won Gold medal in Dressage, Silver medal in Hacks, 'Best Rider Boys (Veteran) Runner up Trophy', and 'Best Show Jumper Trophy in the Horse Show'. Makhan Verma took Silver medal in Boys (Novice) in Hacks event. The cadets from 1 Pb R & V SQN NCC were declared as 'Overall Director General RVS Runner-up'.



### Overall Runner Up Trophy at All India Agricultural Universities Sports Meet



The winning team with the Vice-Chancellor

Students of GADVASU participated in the XXI All India Inter Agricultural Universities Sports & Games Meet 2022-23 held at Chaudhary Charan Singh Haryana Agricultural University, Hisar and brought laurels to the University. Mr. Sourav Uppal won Gold Medal in Shot Put, whereas in badminton, girls won championship and boys bagged 3<sup>rd</sup> position. Boys' basketball team bagged the Silver Medal. Team GADVASU was adjudged the overall runner up in this championship.