



e-Newsletter

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

www.gadvasu.in

Inside this issue:

Start-up and Entrepreneurship Grand Challenge under VLIIIF	2
USDA-funded Cochran Fellowship	3
Award(s) at the National Symposium	3
World Milk Day	3
Celebration of Parkash Purb of Guru Angad Dev Ji	4
Expert lectures delivered by University Faculty	5
Seminar(s)/Workshop(s)/ Training(s)	5-8
International Yoga Day	8

Editorial Board

Editor-in-Chief
Dr. Nirmal Singh
(University Librarian)

Editor:
Dr. Apoorva Shekhar
(Assistant Professor, Veterinary Physiology & Biochemistry)

Members:

Dr. H. S. Banga
(Registrar)

Dr. S.K. Uppal
(Dean, Postgraduate Studies)

Dr. J.P.S. Gill
(Director of Research)

Dr. P. S. Brar
(Director of Extension Education)

Dr. S.P.S. Ghuman
(Dean, College of Veterinary Science)

Dr. Meera D. Ansal
(Dean, College of Fisheries)

Dr. B. K. Bansal
(Dean, College of Vety. Sci., Rampura Phul)

Dr. R.S. Sethi
(Dean, College of Dairy Science)

Dr. V. K. Dumka
(Comptroller)

Design & content editing:
Sh. Dhiraj Kumar (Assistant Librarian)

News inputs:
Dr. Harpreet Singh, Associate Professor
(Communication)

Published by University Librarian on
behalf of the Vice-Chancellor,
GADVASU, Ludhiana

Contact Us at:

Editor (E-Newsletter)
GADVASU, Ludhiana
Ph. 0161-2414063-65
gadvasunewsletter@gmail.com

April - June 2024 (2)

From the Desk of the Vice-Chancellor



The earnest efforts of faculty, staff and students of Guru Angad Dev Veterinary and Animal Sciences University have been fostering academic excellence, innovation, and entrepreneurship, playing a pivotal role in shaping the future of livestock sector. The 'Start-up and Entrepreneurship Grand Challenge', organized by the Veterinary and Livestock Innovation and Incubation Foundation (VLIIF) of the University in collaboration with Start-up Punjab, is another landmark in the institution's endeavours to boost entrepreneurship. This initiative illustrates the concerted effort of the University to create an entrepreneurial ecosystem within the institution to transform ideas of the stakeholders into successful business ventures. It is a significant step towards encouraging an innovation oriented mindset amongst academic fraternity.

The newly introduced B.Tech. (Food Science and Technology) programme has received an overwhelming response from the aspiring students demonstrating the tremendous demand of this vital professional course. This success is further amplified by the strong recruitment support from the Punjab Dairy Development Board and Milkfed, which not only enhances the attractiveness of professional courses being offered by the University, but also assures the students of rewarding career opportunities upon graduation.

Celebration of the Parkash Purb of Guru Angad Dev Ji has been another profound moment for the University. The solemnity of the Bhog of Sri Akhand Path Sahib of Shri Guru Granth Sahib Ji worked as a poignant reminder of our foundational values. Guru Angad Dev Ji's legacy as a compassionate animal lover inspires us to prioritize animal welfare in our academic and professional endeavours.

The faculty of the University have been continuously bringing laurels to the institution. Bagging of USDA-funded Cochran Fellowship program (2023) on 'Improving import criteria and increased capacity for importing livestock genetics' by four faculty members of the University reflects their commitment to continuous learning vis-à-vis international standing. The University has been disseminating knowledge amongst the stakeholders through various extension endeavours. In this pursuit, a series of workshops, training programmes, seminars, panel discussion etc. have been organized including workshop on climate-smart dairy farming to discussions on biosecurity practices, reflecting the proactive approach of the University to addressing contemporary challenges in livestock sector.

By working collaboratively and harnessing the collective potentials, we can create lasting changes that benefits not only livestock sector but also society at large.

(Inderjeet Singh)
Vice-Chancellor

Start-up and Entrepreneurship Grand Challenge under VLIIF

Veterinary and Livestock Innovation and Incubation Foundation (VLIIF) of Guru Angad Dev Veterinary and Animal Sciences University organized a **'Start-up and Entrepreneurship Grand Challenge'** in collaboration with Start-up Punjab, Govt. of Punjab. Dr. Inderjeet Singh, Vice-Chancellor said that the University has taken the initiative for promotion of startups and development of an ecosystem for the growth of entrepreneurial culture in the institution. The Start-up and Entrepreneurship Grand Challenge has been organized as a part of the series of events under DST-NIDHI funded project to establish an inclusive Technology Business Incubator (i-TBI) in the University to foster innovation, entrepreneurship and excellence within the academic community. Dr. S.S. Gosal Vice-Chancellor, Punjab Agricultural University, Ludhiana was the Chief Guest of the event.



The two days event concluded on 28th June, 2024 encompassing lectures and an idea pitching session. Dr. Alix Hayden, Director, Innovation Mobilization & Partnerships, University of Saskatchewan, Canada; Dr. E.K. Radhakrishnan, MG University, Kottayam; Ms. Anima Mishra, Founder & CEO, Ekara Financials; Dr. Ramandeep Singh, Director, School of Business Studies, Punjab Agricultural University, Ludhiana; Mr. Rajneesh Tuli, State Lead Project Manager, Punjab Agro Industries Corporation, Chandigarh; CA Sahil Makkar, Chairman & CEO, Punjab Angels Network; Dr. Munish Jindal, Founding President, MENTORx; Mr. Jyoti Saroop, Founder and Managing Director, The Unati Cooperative Marketing cum Processing Society Ltd.; Dr. Radhika Trikha, Chief Operating Officer, AWaDH, Indian Institute of Technology, Ropar and Mr. Shibananda Dash, Director, Munjal Birmingham City University Centre of Innovation and Entrepreneurship delivered lectures on various aspects of entrepreneurship and also shared their personal experiences. In the idea pitching sessions, under Entrepreneur and student category best three were selected and cash prizes were given. Dr. Inderjeet Singh, Vice-Chancellor, congratulated the winners and appreciated the team VLIIF for their initiative to establish the ecosystem for entrepreneurship.



University Faculty got USDA-funded Cochran Fellowship

Dr(s). C.S. Mukhopadhyay, R.K. Choudhary, P.P. Dubey and Gurjot Kaur Mavi of the University were awarded USDA-funded Cochran Fellowship program (2023) on 'Improving import criteria and increased capacity for importing livestock genetics' from 8th to 22nd June 2024.



Best Oral Presentation Award(s) at the National Symposium

Dr. P. K. Singh, Professor, Dairy Technology, Dr. Anju Boora Khatkar and Dr. Ankit Goyal, Assistant Professor(s), Dairy Chemistry received the Best Oral Presentation Award(s) at the National Symposium on Food Processing 4.0, hosted by Department of Food Science and Technology, Punjab Agricultural University, Ludhiana, on April 30, 2024. Dr. Singh's presentation was on the topic of effect of micro fluidization treatment on the flow behaviour of ice cream mix and its sensory properties. Dr. Khatkar's research focused on the ultrasound-assisted restructuring of soy protein for enhanced nutritional profiles in instant noodles, and Dr. Goyal's study was on the effect of detoxification on nutrients and antinutrients of Wild Apricot Kernel.



World Milk Day



College of Dairy and Food Science Technology of the University in association with the Indian Dairy Association (IDA) North Zone (Punjab Chapter) celebrated the World Milk Day-2024. The event, held under the theme 'Unveiling the Benefits of Fermented Dairy Products', highlighted the importance and numerous health advantages of fermented dairy products in daily diet and human health. Dr. Inderjeet Singh, Vice-Chancellor underscored the role of World Milk Day in promoting dairy's nutritional value and reaffirmed the University's dedication towards advancing dairy science through education, research, and community engagement. Expert(s) discussed benefits of fermented dairy products such as *Dahi*, *Lassi*, and cheese, citing their probiotic properties that support digestion, immune health, and overall well-being. A total of 250 participants from dairy industries, dairy development department, farmers, faculty and students attended the programme. Invited expert(s) Dr. Ramit Mahajan, Professor of Gastroenterology, Dayanand Medical College and Hospital, Ludhiana; Dr. Kiran Bains, Dean, College of Community Science, Punjab Agricultural University, Ludhiana and Dr. G.S. Rajorhia, Former President of IDA and Principal Scientist delivered lectures on critical role of gut health in immune function and mental well-being, impact of fermented dairy products on the gut microbiome, and strategies for expanding the diversity of fermented milk products in the market, respectively.

University Celebrates Parkash Purb of Guru Angad Dev Ji



The University celebrated the Parkash Purb of Guru Angad Dev Ji by solemnizing the Bhog of Sri Akhand Path Sahib of Shri Guru Granth Sahib Ji. The University was established in 2006 on the name of the second Sikh Guru, Guru Angad Dev Ji, a thorough animal lover. A number of sick and injured animals got treatment in his personal care. The soulful *Kirtan* of holy Gurbani was cited and community *Langar* was served.

Students of College of Dairy and Food Science and Technology visited Nestle India Ltd



College of Dairy and Food Science Technology organized industrial educational visit of B. Tech. (Dairy Technology) and postgraduate students to Nestle India Ltd., Moga on June 29, 2024. A total of 20 students visited the food processing plants and different divisions of Nestle India Ltd., Moga and learned the production processes and machinery involved in manufacturing of ghee (Everyday), sweetened condensed milk (Milkmaid), milk powder (Everyday Dairy Whitener), milk power vending mixing - packaging and infant formula (Cerelac Manufacturing).

New Degree Programme in Food Science and Technology receives Overwhelming Response

College of Dairy and Food Science Technology's newly introduced B.Tech. (Food Science and Technology) programme received an overwhelming response from admission seekers, filling all open, reserved, as well as self-financing seats in the first round of counselling. The programme designed to equip students with cutting-edge knowledge in food safety, processing technologies, and innovative product development, has quickly become a top choice amongst students. The regular recruitment drives undertaken by Punjab Dairy Development Board, Milkfed, Punjab as well as other cooperative agencies have enhanced the attractiveness of these courses. Graduates in Dairy Technology programmes are well-positioned to secure rewarding positions in public and private sectors, adding to the appeal of these degrees.

Expert lectures delivered by University Faculty

- **Dr. Ratan K. Choudhary** delivered an expert lecture at DST-Science and Engineering Board sponsored High end workshop on ‘**Advanced Techniques for Assessment of Biomarkers of Oxidative Stress in Clinical Samples of Animals**’ on the topic ‘**Flow cytometry: Principles, sample preparation, data analysis and applications**’, organized by Division of Veterinary Biotechnology, Indian Veterinary Research Institute (IVRI), Izatnagar on 29th April 2024.
- **Dr. Ratan K. Choudhary** delivered an expert lecture at DST-Science and Engineering Board sponsored High end workshop on ‘**Basic Techniques for Stem Cell Research**’ organized by Division of Veterinary Biotechnology, Indian Veterinary Research Institute (IVRI), Izatnagar in March 2024.
- **Dr. Abhishek Srivastava**, Assistant Professor, College of Fisheries delivered an expert lecture on ‘**Economics of Setting Up Aquaculture Businesses**’ under Skill Training of Rural Youth (STRY) organized by Punjab Agriculture Management and Extension Training Institute (PAMETI), Ludhiana on 26th April, 2024.

Students of Punjab Agricultural University visit College of Fisheries

Students of Diploma in Agriculture, Punjab Agricultural University, Ludhiana visited the Instructional-cum-Research Farm, College of Fisheries, Ludhiana to learn about various fisheries activities at the fish farm on May 24, 2024.



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

International workshop on Stem Cells and Lactation Biology

College of Animal Biotechnology of the University organized an international workshop on the recent developments in stem cell research and bovine mammary gland biology. The event was organized under the aegis of Department of Biotechnology, Govt. of India funded project on ‘**Investigating the Role of Adipose Tissue-Derived Stromal Vascular Fractions (SVFs) Combined with Xanthosine in Veterinary Regenerative Medicine**’ to upgrade knowledge of students. Dr. James Sherley from Asymmetrex®, LLC, delivered a talk on Kinetic Stem Cell (KCS) counting, a groundbreaking technology enabling accurate measurement of stem cell populations without protein markers, potentially expediting research and therapies. Dr. Feng Qi Zhao, Professor at the University of Vermont, highlighted the role of glucose transport in milk production.



Panel Discussion on Quality Silage

Directorate of Extension Education of the University organized a Panel Discussion to clarify the misconceptions of farmers about use of silage and to educate them against the adverse effects of poor-quality silage. Expert(s) explained the methods for silage making including design of bunkers, chaffing of fodder, proper pressing, covering and scraping, and emphasized on importance of regular testing of silage. Further, the ill effect(s) of poor quality silage on health and production of animals were discussed. A total of 100 field functionaries and farmers attended the panel discussion.

National Workshop on 'Advanced Techniques for Assessment of Biomarkers of Oxidative Stress in Clinical Samples of Animals'



Department of Veterinary Physiology and Biochemistry, College of Veterinary Science, Ludhiana organized a workshop on 'Advanced Techniques for Assessment of Biomarkers of Oxidative Stress in Clinical Samples of Animals' under the aegis of Scientific Engineering Research Board (SERB), Department of Science & Technology, Government of India, from 22nd April to 3rd May, 2024. The participating students were given hands-on training in handling and troubleshooting the advanced equipment, and were imparted skills regarding techniques related to analytical biochemistry, molecular biology, cell culture, genomics and proteomics. A total of 25 participants attended the workshop. Dr. Inderjeet Singh, Vice-Chancellor chaired the concluding session and impressed upon the significance of skill enhancement to excel in respective fields.

Training Programme on 'Fish Farming'



College of Fisheries organized a training programme on 'Fish Farming', taking in its ambit the comprehensive technical sessions on the complete 'Package of Practice' for fish farming along with intensive aquaculture technologies, covering practical aspects. For real-time exposure, one day visit was organized at fish farm of a progressive farmer and modern fish market in Ludhiana.

Training programme for farmers and entrepreneurs in Dairy Sector



College of Dairy and Food Science Technology organized a training programme for dairy farmers and entrepreneurs under the theme 'Value Addition of Milk and Milk Products' from 13th - 22nd May 2024. The programme delved into various aspects of dairy business, equipping participants with the skills and knowledge to thrive in this industry.

Training on Climate Smart Dairy Farming



Directorate of Extension Education of the University conducted a training on 'Climate Smart Dairy Farming' for the officials of Dairy Development Department of Punjab. The expert(s) discussed climate change as a major concern worldwide for all the stakeholders of dairy industry and emphasized that the animal health expert(s) have associated the recent outbreaks in livestock with weather changes with resultant poor reproduction and milk production losses in dairy animals. The importance of adaptation and mitigation measures in dairy farms encompassing recent innovations in automation and designs of animal sheds for promoting animal welfare were discussed. The positive effects of precise nutrition planning on milk production and improved agronomic practices for efficient resource utilization in fodder production were elaborated. Waste management methods to reduce pollution from dairy farms and use of farm waste as a resource were also underpinned.

Workshop on Strengthening of Veterinary Hospitals Biosecurity



Centre for One Health of the University organized a workshop on ‘**Development of Clinical Biosecurity Assessment Protocol**’ impressing upon strengthening biosecurity practices for veterinary hospitals. Field functionaries, faculty and research scholars took part in the event. Besides delivery of expert lectures, participants were engaged in detailed discussions on four key themes *viz.* personal biosecurity practices for veterinarians and animal handlers; biosecurity practices concerning clinical equipment and infrastructure; cleaning, disinfection, and waste disposal; and biosecurity standards for animals and clients to implement biosecurity at veterinary hospitals. Dr. J.P.S. Gill, Director of Research appreciated the Centre for One Health for its efforts in addressing such applied animal and public health related issues and reaffirmed the Centre’s commitment to advancing biosecurity standards to mitigate risks in clinical settings.

Farmer-Scientist Interface-cum-Interaction on Silage Making



Krishi Vigyan Kendra (KVK) of the University at Booh (Tarn Taran) organized a ‘**Farmer-Scientist Interface-cum-Interaction**’ meet to create awareness amongst the dairy farmers about silage making in scientific way. A total of 48 farmers participated in the event and got benefitted. Expert(s) elaborated various quality aspects of silage and techniques to check its quality, advanced techniques for cultivation of fodder crops, and educated the participants about scientific silage production technology. Further, the importance of right stage harvesting of fodder crops for silage making, dimensions of silo pit, method of filling it, packing density and management of silo pit post feeding were discussed. The participants were also informed about different gynecological diseases of dairy animals and their preventive measures.

Programme to Enhance Digital Literacy



National Service Scheme (NSS) wing of the University conducted a series of lectures to enhance digital literacy amongst students and provide them a deeper understanding of the digital landscape in the present educational framework. Under the programme, a pilot study was conducted amongst volunteers across all four on campus colleges of the University in collaboration with J-PAL South Asia. Subsequently, based on inputs of students, a series of sessions was organized covering techno-related topics *viz.* ‘Hooked on Screen’, ‘Technology Deaddiction’, ‘Commitment Devices’, ‘Thinking Traps’ and ‘Tips and Tools to Increase Willpower’. Mrs. Gulneet Chahal, Assistant Director of Publications, Punjab Agricultural University, Ludhiana was the Guest Speaker.

Meeting with Progressive Livestock Farmers Association

The University conducted monthly meeting with Progressive Livestock Farmers Association sponsored by M/s Neospark on 14th May, 2024. A total of 81 farmers attended the meeting and gained scientific knowledge. Expert delivered lecture(s) on economically pressing issues of mastitis and repeat breeding, highlighting the concept of mastitis control in dairy farms as a management problem. The importance of following clean milking practices, pre and post milking protocols, dry cow therapy, issue of repeat breeding, selection of good quality semen, timely artificial insemination, feeding of balanced ration and importance of biosecurity at dairy farm were discussed.

Seminar on 'Benefits of Fermented Dairy Products'

College of Dairy and Food Science Technology of the University in collaboration with the Indian Dairy Association (IDA), North Zone, Punjab Chapter, organized a seminar on 'Unveiling the Benefits of Fermented Dairy Products' on June 22, 2024. The expert(s) from dairy industry, medical professionals and academia delivered insights on various aspects of fermented dairy products, including their production, nutritional value and health benefits. A question-answer session was also conducted where the participants interacted with the speaker(s) and got their queries addressed.

Panel Discussion on Hardware Disease in Dairy Animals

The University organized a panel discussion on 'Hardware disease in dairy animal'. The experts elaborated that increasing mechanization of farming operations in agricultural and dairy sectors coupled with construction industry had resulted in increased incidences of hardware ailments in dairy animals, and pointed that incidences of hardware disease in dairy animals have grown over time, as demonstrated by number of cases received at the University hospital. The expert(s) demonstrated using a model that how these metallic objects lodge in the reticulum, the second section of the stomach of dairy animals. Further, the higher success rate of surgical interventions with diagnosis at early stage was underscored. The preventative measure of placing a cow magnet in dairy cows older than six months was also discussed.

Lecture on Art of Motivation

Human Resource Management Centre of the University in association with NSS Wing organized a lecture on the 'Art of Motivation through Goal-setting'. Mr. Rizwan Uddin, Commissioner, Regional Provident Fund, Jammu was the Guest Speaker. He emphasized the pivotal role of motivation in overcoming obstacles and realizing one's aspirations and shared practical strategies and insights on effective goal-setting techniques. Students were imparted valuable tips to navigate challenges and pursue excellence in their academic, professional and personal endeavours.

International Yoga Day

The NCC cadets of 1 Pb R&V Squadron of the University celebrated the 10th International Yoga Day on 21st June, 2024. A total of 200 cadets performed various Yoga Asanas in Unit premises and Annual Training Camp site. Capt. Dr. Nittin Dev Singh, Associate NCC Officer apprised the cadets about theme of the Yoga Day 2024 viz. 'Yoga for self and Society' and emphasized that being the NCC Cadet(s), it's their responsibility to keep themselves fit and also propagate the same in the society. Commanding Officer Lt. Col. Anshul Reothia said that Yoga is of utmost help in boosting one's immunity and overall health. National Service Scheme Volunteers of the University also took part in these Yoga Day festivities as well as in the yoga session held by Isha Foundation.

