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GADVASU

Newsletter

Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana (Pb.)

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From Vice-Chancellor's desk

Achieve 6 per cent growth rate in livestock sector

It has been a year since we started publishing GADVASU Newsletter which received an overwhelming response from all quarters associated with animal husbandry, dairy and fishery sectors. I wish to get your greater involvement in realizing our goals. While, we intend to share our latest achievements of research and technologies, our focus also is to establish partnerships in adding new dimensions to teaching, training, research and dissemination of technologies.

Our scientific staff has made valuable contributions in last few years of the existence of this University. With their continual unflinching efforts, I am sure we shall transform this Institution as a major Centre to guide national policy decisions and provide expert/advisory services to enhance and support growth in livestock and fishery sectors. Our immediate priority is to have a Vision Document "A living document" defining priorities and thrust areas to respond to the present and future challenges facing livestock and fishery sectors.

Livestock diseases and environmental pollutants affecting animal and human health are the major concerns today. In order to address these issues, an Animal Disease Registry and Tissue Bank is being established to develop disease data base so as to cater to the regional and national needs of integrated and advanced diagnosis and develop diagnostic assays, kits and procedures for rapid and precise diagnosis of various livestock diseases. The other focus is to strengthen capacity and capabilities for estimating residues due to

pesticides and heavy metals in foods of animal origin with the aim to study the role of these environmental pollutants and zoonotic pathogens on animal and human health so as to establish their putative role in causation of various diseases including cancer in affected populace in certain districts of Punjab. In tune with that, an International Workshop on Environmental Pollutants and their Impact on Human and Animal Health was held. This was in pursuance to a collaborative research

research projects. Although, we have sent/got a number of research grants during the last few years, I strongly feel that each scientist must have at least a research grant as a leader. Once we achieve this target, there would be enough funds to do quality research.

The Government of India has initiated Twelfth Five Year Plan exercise and constituted a number of working groups to make in-depth analysis and suggest suitable programmes for implementation to achieve targeted growth rates in various sectors. I am chairman of the working group on "Animal Husbandry and Dairying". The targeted growth rate for livestock sector is 6 per cent. To plan and implement programmes to achieve the above growth rate is both an opportunity and a great challenge. I am also the chairman of Sub-group on Animal Sciences of the Department of Agricultural Research and Education (ICAR), wherein addition to producing quality manpower, addressing priorities through research and generating cost effective technologies, focus is to strengthen SAU system and develop synergies between ICAR and SAUs to avoid duplication and optimise research and technology output. I would be happy to receive your inputs and suggestions about priorities as well as approach including partnership with industry and NGOs for achieving our objectives and targeted growth rate in Animal Husbandry and Dairying sector.



The twelfth plan targeted growth rate for livestock sector is 6 percent.

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Dr. V. K. Taneja

project on 'Environmental pollutants and zoonotic pathogens in Punjab: their impact on animal and human health' with University of Saskatchewan, Saskatoon, Canada under International Partnership Fund Programme. I am further of the view, that a Centre for Public Health and Zoonosis should be established, which should embody the increasing role of veterinary medicine in protecting and enhancing not only animal health, but human and environmental health as well. It should co-ordinate the activities of a consortium of researchers from the university as well as other governmental agencies.

Excellence of an Institute is judged from the number of external funded


(Vijay Kumar Taneja)
Vice-Chancellor

insight

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GADVASU invites Applications for Chief Minister's Awards

GADVASU will confer Chief Minister's Award in the field of dairy farming, poultry farming, fish farming as well as pig / goat farming. These awards have been funded by the hon'ble Chief Minister to boost the livestock sector in the State and shall consist of cash prize as well as citation, medal and shawl. Dr. K.S. Sandhu, Director, Extension Education informed that now there are separate awards for cow and buffalo farmers. The cash prize for buffalo and cows is ₹21000/- each for poultry/fisheries ₹11000/- and for pig/goat farming ₹5100/-. Application forms may be downloaded from university website www.gadvasu.in.

Research Accomplishments

● **Better quality pork sausages were prepared by incorporating natural preservative** ingredients in the sausage formulation such as L-carnosine 100 ppm+L-carnitine 200 ppm level. These significantly improved physico-chemical quality of pork sausages have a shelf-life of 20 days. Nutritional profile of these sausages are: moisture 62.07%, protein 17.29%, fat 10.85% and ash 3.12%.



● **Lycopene rich pork patties have been developed with incorporation of 12.5% tomato pulp (TP)** in the pork emulsion formulation. It has been found that addition of TP improves different physico-chemical (pH, titrable acidity) properties and storage during refrigerated (4±1°C) storage under aerobic packaging condition. The products exhibited shelf life up to 15 days. The developed patties also have good nutritional profiles viz. moisture 56.45%, protein 15.28%, fat 16.10%, ash 4.29%, energy 214 kcal/ 100g and lycopene content 15.52 mg/kg.



● **The genetic improvement of cattle and buffalo at university dairy farm resulted in average lactation yield of 6557 kg in cattle and 2763 kg in buffalo.** The maximum 305-day milk yield for an individual cow in the herd was recorded as 7496 kg. Five breeding crossbred bulls were selected for the ICAR field progeny testing programme. Six cows and thirty one buffalo bulls/ bull calves and thousands of semen doses were supplied to the farmers and other dairy development agencies for the genetic improvement of cattle and buffalo population in the State. A total of ten elite cow calves have been produced in the field through embryo transfer technology, during the last one year.

● The commercial broiler (IBL-80), commercial stock "Satluj Layer", Rhode Island Red which lays tinted (brown) eggs have been developed. Three strains of quail namely **Punjab Quail-1, Punjab Quail-2 and Punjab Quail-4 have been developed.**

● **Standardized Breeding technology for Catfish (*Heteropneustes fossilis*).**

● Breeding and seed production techniques for egg laying and live bearer fishes standardized. **On-farm aquaculture trials conducted in salt affected water logged areas in Fazilka, district Ferozepur to assess the possibilities of fresh water carp culture in inland saline waters revealed average productivity of 2.5 tonnes/ha/yr in salinity up to 10 ppt.**

● **Mapping revealed wide-spread mineral deficiencies** particularly the calcium, phosphorus, copper, iodine, zinc and manganese in dairy animals at different levels in different zones of Punjab and accordingly area specific mineral mixture has been recommended. The highest deficiency for calcium was found in south western districts and for zinc and manganese in central districts. On the other hand, mineral toxicities e.g. fluorosis was observed in south western districts (Bathinda, Mansa, Sangrur) and selenosis in Hoshiarpur and Nawanshahr districts of Punjab.

● **New treatment regimens**

- Use of hormones (GnRH, PGF2 α and progesterone) was 100% successful for inducing estrus in an-estrous buffaloes, but satisfactory fertility was achieved only when progesterone releasing intra-vaginal device was inserted along with PGF2 α and GnRH administration.

- GnRH and HCG administration as anti-luteolytic strategies on 5th day or on 12th day after breeding were found to improve first service conception in buffaloes (71% with GnRH and 47% with HCG as compared to 29% in control group).

- Progestagens along with Ovsynch protocols (GnRH- PGF2 α -GnRH) were most effective in alleviating repeat breeding due to hormonal imbalance and resulted in conception rates upto 62 per cent.

Futuristic Research

Research Project	Source	Budget
<ul style="list-style-type: none"> Niche Area of Excellence in "Research and Technological Interventions for Sustainable Aquaculture in Punjab". Confirmation of lactation performance and animal safety of dairy animals of the <i>Bos</i> spp. and <i>Bubalus</i> spp. treated with recombinant bovine somatotropin. Improvement of udder health and milk quality through application of mastitis control programme under field conditions. Processing of Turkey meat into different value added meat products and popularization thereof. Establishment of Instructional poultry processing Unit and Poultry Products Manufacturing Unit. Experiential Learning Scheme on development, storage and marketing of value added meat products. Name of Project : "Isolation and characterization of animal adenoviruses for development of a novel viral vector for vaccine delivery." Pharmacokinetics-pharmacodynamics integration and toxicological studies of fluoroquinolones and cephalosporins in buffalo species. Studies on the evaluation of outer membrane protein (OMP) genes of <i>Leptospira interrogans</i> for development of PCR based diagnostics as well as production of recombinant OMPs and their immunological characterization. Molecular characterization of cytolethal distending toxin (CDT) of genus <i>Salmonella</i> and exploring its applicability as novel delivery vehicle and potential antitumor agent. 	<p>ICAR</p> <p>Eli Lilly Asia Inc. (Elanco)</p> <p>Punjab State Farmers Commission.</p> <p>Livestock Development Board, Punjab.</p> <p>Ministry of Food Processing Industries.</p> <p>ICAR-22</p> <p>DBT</p> <p>DST</p> <p>UGC</p> <p>DBT</p>	<p>₹ 40 lakhs (2010-11) Total Budget: ₹ 3 crores.</p> <p>₹ 12.45 lakhs (2010-11) Total Budget: ₹ 67.03 lakhs.</p> <p>₹ 65.60 lakhs.</p> <p>₹ 5.416 lakhs.</p> <p>₹ 25 lakhs.</p> <p>₹ 10.81 lakhs.</p> <p>₹ 26.37 lakhs</p>

'Pashu Palan Mela' March 17-18, 2011

'Pashu Dhan Hai Vardaan, Sohni Kamaai ate Ghar di Shaan.'



Dr. V. K Taneja, Vice Chancellor, GADVASU, advised farmers to find avenues in livestock professions and further assured the farmers that university will always be at their beck and call. Various exhibits and live display of University products were put up. Various stalls by important private sector organizations dealing with production/marketing of animal feed, medicine, vaccines, animal germplasm, animal farm machinery, milk and meat processing machinery, fodder seed and banking institutions were also put up. Demonstrations on various aspects of fisheries were carried out and demonstration stall of Fisheries got 3rd Prize for depicting the activities.

Transfer of Technologies through Trainings

- Fourteen fish farmers of Bathinda district were imparted one-day training on March 21, 2011.
- More than sixty fish farmers from Jammu and Kashmir, Sangrur, Hoshiarpur, Gurdaspur and Faridkot districts visited College of Fisheries in March 2011.
- Department of Veterinary and Animal Husbandry Extension Education, organized animal welfare camps at Village Malan (Kot Kapura), Ballawal Saunkari, Khirnia (Samrala) and provided treatment facilities and consultancy to the dairy farmers. A large number of cases of gynecology, medicine and surgery were treated in this camp by experts from GADVASU. Farmers were even provided with free medications.
- Central Institute of Post-Harvest Engineering and Technology (CIPHET) has collaborated with College of Fisheries for their Institutional project entitled, "Refinement and evaluation of fish descaling machine and entrepreneurship development".

Special responsibilities given to GADVASU Vice-Chancellor

Dr. VK Taneja, Vice-Chancellor of Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana, has been made **Head of working group "Animal Husbandry and Dairying"** for the 12th Five-Year Plan (2012-17). The Planning Commission Government of India has nominated Dr. Taneja as the Chairman of the working group on Animal Husbandry and Dairying, which would frame the policies, programmes, etc for promotion of dairy and animal husbandry. The committee would evaluate the ongoing programmes and modify/suggest new programmes to achieve targeted growth rate.



New Appointments

Dr. S.N.S. Randhawa, joined as **Director of Research**, w. e. f. May 11, 2011. Earlier, Dr. Randhawa was working as Dean, Post-Graduate Studies.



Dr. (Mrs.) Neelam Bansal, has been promoted as Professor and joined as Professor cum Head, Department of Veterinary Anatomy, w.e.f. April 7, 2011.



Dr. Kulbir Singh Sandhu, joined as **Director Extension Education** w. e. f. May 11, 2011. Earlier, Dr. Sandhu was holding the post of DSW-cum-EO.



Dr. S.P.S. Sangha, joined as Director, Students Welfare-Cum-EO w.e.f. June 16, 2011. He has been holding additional charge of Dean College of fisheries, and was also COE.

Dr. Harpal Singh Sandhu, Professor of Veterinary Pharmacology and Toxicology joined as **Dean, College of Veterinary Sciences** on May 11, 2011. Earlier, Dr. Sandhu has served as Head, Department of Pharmacology and Toxicology.



Dr. Sushil Prabhakar joined as Controller of Examinations w.e.f. June 16, 2011.



Dr. R. S. Brar, has been given additional charge of University Librarian. He joined the post on May 19, 2011. Earlier, Dr. Brar has served as Head, Department of Veterinary Pathology and as Visiting Professor, University of Saskatchewan, Canada.

Superannuation

- Dr. MPS Bakshi, Head, Animal Nutrition retired on January 31, 2011
- Dr. P.K. Trehan, Professor ABG with charge of Librarian, retired on March 4, 2011

Workshops/Training Organised

- **Animal Husbandry, Dairy and Fisheries Officers Workshop:** A total of 321 delegates from all over Punjab attended one day workshop on January 20, 2011, in which four different technical sessions were organised at GADVASU, Ludhiana to plan the future strategies in livestock sector of the State. Ms. Usha R Sharma, Secretary, Animal Husbandry, Dairy Development and Fisheries departments was the chief guest and Dr. VK Taneja, Vice Chancellor, GADVASU presided over the function. On this occasion, Dr. H S Sandha, Director, Animal Husbandry, Sh. Inderjeet Singh, Director, Dairy Development and Sh. PK Sood, Director and Warden Fisheries were present and chaired their respective sessions. Dr. Kulbir Singh Sandhu, Director of Extension Education, GADVASU welcomed the delegates and highlighted the university's extension programmes.



- **Adopt dairy farming for the progress of Punjab:** Department of Veterinary and Animal Husbandry Extension Education organised a 15 days (31.1.2011- 14.2.2011) dairy farming training for 46 farmers of Punjab and neighbouring States, with the theme "Adopt dairy farming for the progress of Punjab". Dr. R. S. Sahota was the Course Coordinator and Dr. Navdeep Singh and Dr. Simrinder S. Sodhi were the Technical Coordinators. Dr. H.K. Verma, Prof. -cum- Head, interacted with the farmers and dealt with their queries and explained in detail about value addition of dairy products and the current and future scenario of dairy industry. The experts from banks and insurance companies also delivered their lectures regarding rules and facilities provided by them to give boost to dairy farming.
- Department of Veterinary and Animal Husbandry Extension organized a **one day**

refresher training course on feed manufacturing, balanced and quality feed for milch animals in collaboration with Dairy Development Department, Punjab for thirty nine **feed millers/manufacturers** on February 19, 2011. Dr. Parminder Singh, Course Coordinator said that latest developments in the field of feed manufacturing technology were discussed. Dr HK Verma, Head, Veterinary Extension opined that such trainings on improving and manufacturing quality of food ingredients, storage, ration formation, standard set-up-of plant, machinery maintenance and unconventional feed stuffs is boon for feed manufacturers.

- Dr. S. S. Singh, Dean, COVS inaugurated the two days **Anti-rabies Vaccination Camp** for staff and students working in the



Veterinary hospital. It was organized from February 23-24, 2011 in collaboration with the PAU Hospital. Dr. S. Prabhakar, Head, Department of Teaching Veterinary Clinical Complex informed that a total of 125 students and 35 staff members were vaccinated during the camp. Dr. D. S. Pooni, Chief Medical Officer, PAU Hospital opined that control of stray dog population is pre-requisite for control of rabies besides this preventive exercise.

- **One week training programme** for the pig owners from February 21-25, 2011 was organised to improve their skills in pig rearing. Dr(s) J.S. Hundal and S. S. Sodhi were the Technical Coordinators for this training.



- **Monthly meeting of Innovative Fish Farmer's Association:** Monthly meetings of Innovative Fish Farmers Association (IFFA) was held on February 21, 2011 at GADVASU. Dr. S.K. Kansal, Co-ordinator of IFFA, Dr. Meera D. Ansal, Scientist (Fisheries) and Dr. Abhishek Srivastava,

Assistant Professor (Fisheries), College of Fisheries, GADVASU coordinated the meeting and the queries of farmers were attended. Technical knowhow for construction and preparation of new production pond and integrated fish farming with livestock farming was also provided to the farmers. Mr. Ranjodh Singh Grewal, President, IFFA and Mr. Ajit Inder Singh, Secretary, IFFA updated the activities of the association with special reference to refinement of marketing channels and establishment of a fish processing unit for higher profits.

- **Twelve farmers from Una (HP) undertook five day programme from February 14-18, 2011 on "fish farming".** The participants were imparted technical knowhow for different aquaculture practices. Dr. A. Dhawan, Dean College of Fisheries gave tips on enhancing profits in fisheries. Visit of participants to the fish farms of some progressive fish farmers in village Nanokey near Nabha and village Payal, district Ludhiana were also arranged. Dr. Meera D Ansal, was technical coordinator of the training programme.



- **College of Fisheries**, organised a one day training on culture and breeding of ornamental fishes and fabrication of aquarium. Thirty farmers from different villages of Bathinda district undertook training. The experts imparted the technical knowledge about the various fish culture, management practices such as rearing, feed management, water quality management, health management etc. as well as breeding aspects of various fish species. Mr. V. K. Dogra, Assistant Director Fisheries (ATMA), appreciated the efforts of GADVASU in promoting fisheries.



Conferences Attended

- **Dr Devendra Pathak, Assistant Scientist and Dr. Abhed Pandey, Assistant Professor (Fisheries)** attended 5 day training on "Nanotechnology: Opportunities Applications in Veterinary Sciences" at PAU, Ludhiana from March 7- 11, 2011.
- **Dr. J. Sahoo, Professor-cum-Head and Dr. M.K. Chatli, Associate Professor** attended and presented research papers in the 11th Indian Veterinary Congress and XVIII Annual Conference of Indian Association for the Advancement of Veterinary Research and National Symposium on "Veterinary Science and Education on Move: Critical Gaps and Needs" at Appolo College of Veterinary Medicine, Jaipur from February 11-12, 2011.
- **Dr. M.K. Chatli** presented paper in 14th Punjab Science Congress, Theme: Role of Scientific Innovations & Knowledge in Economic Development at Sant Longowal Institute of Engineering & Technology, Longowal from February 7-9, 2011.
- **Dr. K Dua, Senior Scientist-cum-Head** presented a lecture on "Climate change and animal health risks in animals" at the 29th Annual Convention of ISVM held at Mumbai in February 2011.
- **Dr. J. Sahoo**, presented research papers in the IX Annual Conference of Indian Association of Veterinary Public Health Specialists & National Symposium on "Veterinary Public Health: New Horizon for Integrating the Animal Production, Food Safety and Human Health" at Bombay Veterinary College, Mumbai from January 28-29, 2011.

Sports/Cultural Events for Overall Development of Students

- Vice Chancellor, Dr. VK Taneja inaugurated the 5th Annual Athletic meet of GADVASU held on February 9, 2011. Students of all the constituent colleges and affiliated college of the University i.e. Khalsa College of Veterinary and Animal Sciences, Amritsar actively participated in this athletic meet. Sh. Yurinder Singh, Deputy Commissioner of Police, Ludhiana was the chief guest on this occasion. **Mr. Gurinder Singh Chahal** and **Ms. Priyanka Rana** were adjudged the **best male and female athletes**, respectively.



- **Patriotism and festivity marks Republic Day celebration**

Dr. V. K. Taneja, extended his congratulation on 62nd Republic day of country and paid rich tributes to Dr. B. R. Ambedkar and martyrs of freedom struggle. Students filled colours, emotions and rhythm with their performances in the function. Officers, teachers, employees and students of the University enthusiastically attended the function.



- **Boys hostel shows a novel way to inculcate sports values amongst students**

A cricket tournament comprising of 12 teams of Hostel students was organised. Dr. P. S. Brar, Warden, Hostel No.3 and 9 said that the funds have been used for the welfare of the students on hostel sports events. Students showed their full vigour in the final match. Mandeep Singh Dhami and Sandeep Bhullar coordinated the tournament. Dr. P. N. Dwivedi president Dance Drama & Music club also attended the function.



Sports High Fliers in All India Inter-University Competitions

- **Participation of students in 12th All India Inter Agricultural University Sports and Game Meet at Kerala Agricultural University, Vellanikkara, Thrissur, Kerala from February 16-20, 2011.**

A total of 43 universities took part and GADVASU grabbed 2nd Runners-Up position.



Team Managers, **Dr. P.N. Dwivedi, Dr. APS Brar & Mrs. Nidhi Sharma**, accompanied students to Kerala. **Gaurav Sharma**, internship student won **Gold in Table Tennis (M)** **Gurinder Singh Chahal** and **Karanpreet Kaur** got **Gold in 800 metres** men & women respectively. **Priyanka Rana & Ramneet Kaur** clinched **silver medals in 400 m (w) & 100 (w)** respectively. Another bronze medal was secured in 100 metres relay (W).

GADVASU participated in All India Inter Veterinary Badminton, Table-Tennis Tournament & Professional Quiz competition held from March 23-25, 2011 at G.B. Pant University of Agriculture & Technology Pantnagar (UK). A total of 19 students from College of Veterinary Science were accompanied by the **Team Managers, Dr. P.N. Dwivedi & Mrs. Nidhi Sharma**. **Gaurav Sharma & Gurvinder Singh** 2nd & 3rd yr. BVSc students won **Table Tennis Trophy**. Apart from TT Trophy, two silver medals were grabbed by Badminton (M) & (W) respectively. **Rajandeep Singh**, internship student and **Rajan deep Singh Multani**, 3rd year BVSc student were Runner-up in Badminton (M) where as **Karandeep Kaur Mann**, internship student and **Neha Sharma** 3rd year BVSc student were declared Runners-up in Badminton (W).



Infrastructure Developments

- * A new lecture hall with capacity of 120 students has been built at Silver jubilee block of GADVASU. >>>>
- * In anatomy department, the Osteology laboratory, dissection hall and a separate embalming room has also been created for fixation of animals.
- * New cafeteria has been developed.
- * Water Quality Laboratory established under niche area excellence project of ICAR.
- * New Blocks constructed in Hostel No. 5 and 8. >>>



Equestrian Activities by NCC Cadets

Five Cadets of R&V Squadron participated in various equestrian activities during Republic Day Camp and Prime Minister Rally 2011 and won a gold medal, three silver medals, one bronze medal and two cadets ranked fourth position. The unit also won Dr Roop Jyoti Sharma Trophy, 3rd time in a row. Another first runner-up cup was achieved in Best rider Boys category. Maj. Mangesh, Commanding Officer, NCC, GADVASU congratulated all winners.



Honours/Awards/Recognitions

- **Dr. Gurpreet Kaur**, Assistant Professor, Department of Veterinary Microbiology, GADVASU, Ludhiana has won the Young Scientist Award for her paper entitled "Diagnosis of Canine Parvovirus using Nested-PCR and comparison of blood profile in affected dogs" co-authored by **Dr(s) Mudit Chandra, Harsimran Kaur, Ramneek and P.N. Dwivedi** at the recently concluded National Symposium and VIII Annual Congress of the Indian Society for Advancement of Canine Practice organized at Sher-e-Kashmir University of Agricultural Sciences and Technology, Jammu. 
- **Dr. JPS Gill**, Professor and Head Veterinary Public Health has been awarded Dr. S.P. Singh Best Paper Award for the paper "Studies on pesticide residues in market milk and its public health significance" authored by **Dr(s) JPS Gill, JK Sharma and RS Aulakh** by Indian Association of Veterinary Public Health Specialist at IX Annual Conference of IAVPHS & National Symposium on Veterinary Public Health at Bombay Veterinary College, Mumbai. 
- **GADVASU Scientists' Research Paper**, "Exotic inheritance, milk yield, body condition scores and some blood constituents in healthy and lame crossbred dairy cows" by **C.S. Bahga, Simarjeet Kaur, C.S. Ahuja and M.L. Mehra**, presented by **Dr. Simarjeet Kaur**, Asstt. Animal Geneticist was adjudged the best paper during poster presentation and the poster bagged the first prize and a cash prize of Rs 1000/- in the VIII Annual Convention of Society for Conservation of Domestic Animal Biodiversity (SOCDAB) & National Symposium on "Animal Genetic Resources for Sustainable Livestock Sector in India" at Orissa University of Agriculture & Technology (OUAT), Bhubaneswar. 
- **Dr. Ashwani Kumar**, Assistant Professor of the Department of Veterinary Surgery and Radiology, presented a research

paper in 18th Annual Conference of Indian Association for the Advancement of Veterinary Research and National Symposium entitled "Ultrasonographic evaluation of traumatic reticuloperitonitis in cows and buffaloes" which was adjudged second best research paper in the 'Dr. Rishendra Verma Young Scientist Award' session. This research work was co-authored by **Dr(s) N.S. Saini, V. Sangwan and J. Mohindroo**.

GADVASU scientists honoured at the 29th Annual Convention of Indian Society of Veterinary Medicine at Bombay Veterinary College, Mumbai in February 2011.

- **Dr. Kirti Dua**, Professor cum Head, Department of Clinical Veterinary Medicine was bestowed the Fellowship in the field of Veterinary Medicine.
- **Dr. Naimi Chand**, Asstt Professor in Veterinary Clinical Medicine received best oral presentation award on equine colic paper co-authored by Dr(s) S. K. Uppal, C.S. Randhawa, R.S. Singh, Ashwani Kumar, D. K. Gupta and Kirti Dua.
- **Dr. C.S. Randhawa**, Professor and **Dr. B.K. Bansal**, Sr. Scientist (Mastitis) received "Best Paper Presentation Award".
- **Dr(s) A.Q. Mir, Ashique Hussain and R.K. Bharadwaj** received best oral, poster and poster presentation awards, respectively in different scientific sessions.
- **Dr. A.K. Jain**, Sr. Animal Geneticist and **Dr. M.L. Mehra**, Sr. Animal Geneticist(s) of the department of Animal Genetics and Breeding acted as **Co-Chairman** for a special technical session for Young Scientist Award and on "Evaluation and Utilization of Indigenous Animal Genetic Resources: Current Status and Future Strategies", respectively.
- **Dr. S.K. Uppal** was the chairman in the equine and pack animal medicine session and **Dr. B.K. Bansal** acted as Judge in the best field veterinarian award presentation.
- **Dr Rakesh Ranjan**, Assistant Professor, Veterinary Medicine is in the Editorial board of the Indian Journal of Veterinary Medicine published by ISVM.

NEW TECHNOLOGY GENERATED

- Standardization of *in vitro* dissolution for cystoliths in dogs.
- Echocardiography was standardized in dogs for diagnosis of cardiac disorders.
- Ultrasound guided biopsy was used for diagnosis of abdominal affections in large animals.
- Modified T-plate was used successfully for repair of supracondylar fractures of femur in dogs.
- Ultrasound was used for diagnosis of abdominal affections of bovines and equines.
- Laparoscopic diagnosis of abdominal affections in dogs.
- Immuno-pathological techniques were standardized for rapid and precise diagnosis of various animal and poultry diseases.
- Standardization of processing quality of Buffalo Mozzarella cheese produced with direct acidification method.
- Mineral deficiencies and toxicities have been identified in dairy animals in different zones of Punjab and accordingly, area specific mineral mixture has been recommended.
- Breeding Technology for Catfish (*Heteropneustes fossilis*) standardized
- Overwintering of fresh water prawn carried out successfully under poly-house conditions.
- The fan pad system can be more efficient system of cooling for broiler chick production during hot-dry season by lowering the ambient temperature by 2.66°C and relative humidity to the level of 9.64% of the shed thus enhancing the growth and reducing the mortality percentage.

VISITS ABROAD

- **Dr Swaran Singh Randhawa**, Associate Professor, Department of Clinical Veterinary Medicine, E & J attended the 16th International Symposium on "Lameness in Ruminants" held at Rotorua, New Zealand from Feb 28-March 3, 2011. He presented two oral papers and one poster at the said conference. Dr. Randhawa is currently undertaking research work on pathogenesis of laminitis in horses at Western College of Veterinary Medicine at University of Saskatchewan, Saskatchewan, Canada from May 1 June 30, 2011. 
- Four Scientists, **Dr(s) M.K. Chatli, Deepak Deka, Mudit Chandra and C.S. Mukhopadhyaya** have been selected for training in the USA/Canada on aspects of Molecular disease diagnosis, functional genomics and value addition of livestock products.
- Five scientists, **Dr(s) SPS Ghuman, Rakesh Ranjan, R.K. Aggrawal, Pathak and Abhey Pandey** have been selected for training in emerging areas of nanosciences etc.
- Three scientists **Dr(s) A. S. Sirohi, M. Honparkhe and Ashwani Kumar** have got trainings in the subject matter of their field under Human resource development programmes.

Distinguished Visitors

- **Dr. K. Sharma, ADG (Education)** and **Dr. G. Prasad, ADG (Animal Health)** visited College of Fisheries in March 2011.
- ICAR team visited the University to review National Agricultural Innovation Project entitled “**Sustainable livestock based farming system for livelihood security in Hoshiarpur district of Punjab**” awarded to GADVASU for 4 years (2008-12). A high powered team of scientists from Project Implementation Unit (PIU), New Delhi comprising Dr. Bangali Babu, National Director, National Agricultural Innovation Project (NAIP) and Dr AP Srivastava, National Coordinator, NAIP Component III, reviewed the project. The team accompanied by Dr AL Saini, Principal Investigator of the project, visited the operational area of the project namely **Bhunga, Dasuya, Hajipur and Talwara blocks of Hoshiarpur district** on April 7, 2011 to exhibit the activities at the farmers' fields in Bhatoli and Khangwari villages.



- **Dr. Deva Kumar, ADG (EPD), (ICAR)** visited all the three colleges of University, School of Animal Biotechnology, Library, Vet. hospital, Bio Gas Plant, Poultry Farm, Milk processing plant and Students' Hostels on April 18, 2011.

- **Sh. G.S. Sandhu, Financial Commissioner (Animal Husbandary, Dairy and Fisheries)** – paid a visit to the University on April 21, 2011.

- **Sh. S C Agrawal, Chief Secretary, Punjab** visited the Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana on April 29, 2011. Sh. Agrawal accompanied with Deputy Commissioner Sh. Rahul Tiwari along with Dr. VK Taneja, Vice Chancellor, GADVASU and officers of University



visited the university dairy farm, biogas plant, fishery farm and poultry farms. Sh. Agrawal also visited the Small Animal Clinic, Clinical Diagnostic Lab and different units of the veterinary hospital. Later an interaction between dairy, goat, pig farmers and fisheries farmers was organized to acquaint the chief secretary about the various issues, problems and constraints faced by the livestock farmers of Punjab. Sh. Aggarwal also inaugurated the **Hi-tech, GADVASU library**.

National & International Linkages and related Workshops

A Canadian delegation led by **Dr Karen Chad**, Vice President Research, University of Saskatchewan visited GADVASU. Canadian delegation included **Ms. Peggy Schmeiser**, Director of Govt. Relations University of Saskatchewan, **Dr. George W. Maslany**, Vice President, Academics, University of Regina, **Brad Michinik** and **Lionel Labelle** from Saskatchewan Trade and Export Partnership, **Chad Breg** from Saskatoon Regional Economic Development Authority and Al Schoz. Canadian team was impressed by the progress made and facilities available in GADVASU. A MOU with University of Saskatchewan was earlier signed to undertake a collaborative research project on “Environmental Pollutants and Zoonotic Pathogens in Punjab: Their Impact on Animal and Human Health”.



Dr. V. K. Taneja emphasized that consistent and effective strategies are needed to check environmental pollutants while inaugurating an **International Workshop on Environmental Pollutants and their impact on Human and Animal Health** organized by the Department of Veterinary Public Health GADVASU on January 24, 2011. Dr. John Gordon, Director of Canadian Center for Health and Safety in Agriculture, Dr. Baljit Singh Associate Dean (Research), Western College of Veterinary Medicine, University of Saskatchewan, Saskatoon, Canada, experts from PAU, Ludhiana, Dr. Sameer Malhotra from PGI, Chandigarh, Dr. Satpal Verma of Pollution Control Board attended the meet. The panel discussion of project coordinators, investigators with Canadian counterparts of



collaborative research project was held on January 25, 2011 at GADVASU to plan future strategies of this research project.

Department of Veterinary Surgery & Radiology organized a national level **advanced refresher training course on “Diagnostic and Surgical Procedures in Veterinary Patients”** under the aegis of Center of Advanced Faculty Training (CAFT), ICAR. Dr N.S. Saini, Director CAFT and Professor-cum-Head of the Department informed that 25 candidates representing 11 States participated. Dr. P.D. Juyal, Registrar of the University inaugurated the training and Dr. S.S. Singh, Dean, College of Veterinary Sciences was the Guest of Honour.



A 21-day training course on “Advances in Applications of Diagnostic Techniques in Veterinary Theriogenology” was held at ICAR Center of Advanced Faculty Training in Gynaecology and Reproduction, Dept of Veterinary Gynaecology and Obstetrics from Feb 16-March 8, 2011. Nineteen participants from various parts of India attended the training course.



Preparation of teaching aid: Dr(s) SPS Ghuman, J Singh and M Honparkhe, Dept of Veterinary Gynaecology and Obstetrics prepared a 216 minutes DVD entitled 'Practical Aspects of Theriogenology in Bovines' for improving the practical knowledge of under graduate students. The aspects covered in the DVD include anatomy of female bovine genitalia, transrectal palpation of genitalia, pregnancy diagnosis in bovines, fetal malpresentations/correction, fetotomy technique, Sharma's method of uterine detorsion in buffaloes, epidural anesthesia, Buhner's suture and stages of semen collection, semen freezing up to artificial insemination.

Book Exhibition held: Dr. Simrat Sagar Singh, Dean, College of Veterinary Science inaugurated the two-day book exhibition from February 14-15, 2011. Books on recent developments in the Veterinary, Animal Sciences, Fisheries, Dairy Technology, Biotechnology and allied subjects were displayed by Nineteen renowned book sellers/ publishers from various parts of Northern India. Dr. P.K. Trehan, Professor and Ex-librarian, opined that besides strengthening the library collections, this exhibition will definitely stimulate the reading interest amongst the students and faculty of the university.



Religious, Cultural fest marks completion of five Years

Kehkashan 2011 culminated with splendour and grandeur

Girls of Hostel No. 5 organised Kehkashan 2011 marking completion of five glorious years of GADVASU. **Dr. V. K. Taneja, Vice Chancellor, was the Chief Guest and Dr. Kulbir Singh Sandhu, Director Students' Welfare was the Guest of Honour.** The hostellers worked hand-in-hand in order to make the occasion a grand success. The students presented various items such as mime, choreography, mono acting, songs, group dances and solo performances during the programme. One of the highlight of the function was the fashion show wherein contestants dressed in fashionable dresses competed for various titles. **Dr. Taneja said, "I am glad that the function has been a great success. Girls are outshining boys in every field, be it academics, sports or cultural events."** The Warden, Girls Hostel, Mrs. Nidhi Sharma said, "The objective of this function is to use it as a forum for the students to showcase their talent."



On the occasion of sixth foundation day GADVASU organised *Akhand Path* followed by *langar* where University calander was also released



Exhibition held on Foundation Day

Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana, Punjab celebrated its 6th foundation day on April 21, 2011. On this occasion Mr.



G.S. Sandhu, Finance Secretary, was the chief guest and Dr. A. K. Srivastava, Director-cum-Vice Chancellor, National Dairy Research Institute, Karnal was the Guest of Honour whereas Dr. VK Taneja, Vice-Chancellor, presided over the function. An exhibition displaying activities of various departments was held besides a free vaccination camp for dogs.

GADVASU launches user friendly Website

Dr. V.K. Taneja, Vice Chancellor, hoisted the new university website replacing the old one under the domain name www.gadvasu.in. University website has been totally restructured keeping in view the constitution of new colleges, institutes and school of animal biotechnology. Many new features like Helpline for the farmers, Frequently Asked Questions (FAQs) about the various disciplines related to Veterinary and Animal Science, Dairy, Meat and Egg technology and Fisheries have been started besides many other novel features. Dr. Kusumakar Sharma, ADG (HRD), Indian Council of Agricultural Research (ICAR) graced the occasion along with University officers.



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