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**68th Pakistan Annual Flower Show 2019**



68th Pakistan Annual Flower Show 2019 organized by Horticultural Society of Pakistan (HSP) in collaboration with DHA and CBC opened on Thursday evening at DHA AK, Khan Park, on Seaview. A colorful ceremony was held on the occasion in which winner organizations, groups and individuals were awarded trophies and prizes. Lt Gen Humayun Aziz, HI(M), Commander 5 Corps and President Executive Board DHA was the chief guest of the function. The Corps Commander lauded the efforts of HSP for organizing a splendid flower show. He emphasized the need for organizing lively and creative activities like flower shows in the metropolis for promoting positive and health trends in society. He said that horticulture and gardening promotes the culture of tolerance, empathy and harmony and urged the citizens to change Karachi into a peaceful city of aroma, colours and flowers. President HSP Mr Kaleem Farooqui in his welcome address outlined the activities of his organization. He said that HSP was passionately engaged in giving greener and beautiful environment to Karachi. DHA clinched over all first position in the Flower Show and was awarded the coveted Abdul Sattar Pirzada Trophy. DHA Nisar Shaheed Park, DHA Nursery Phase IV, DHA Gzri Hill and DHA Head Office Mustafa Masjid clinched first positions in their respective categories. Flag Staff House and Administrator DHA House also got top positions in Gardens of Official Bungalows. Administrator DHA Brig Ibrar Hussain Bhatti was also present on the occasion. The Floral Show opened for the general public upto 24th Feb 2019 (Sunday).



**Family Carnival and PET Show 2019 held at Defense Authority Creek Club**



Family Carnival and PET Show 2019 by Rude Planet Kennel was held at Defence Authority Creek Club with great fanfare. The show is one of the biggest family carnivals and an exciting event in which people come with their beautiful pets, birds and even reptiles. The truly entertaining and interesting series of activities unfolded at the Pet Show included Cats, Dogs, Birds and Reptiles Shows. The display of these well trained and groomed pets was a rare delight to watch. The presence of Horses and Lions added excitement and colour to the overall event. The event was also a funfair for kids. There were enchanting horses and camels rides, magic show, photography with pets and a number of exciting games full of fun and thrill. The children and parents enjoyed the event a lot. Food Court and other stalls of interest were there for the people where they flocked and enjoyed a variety of delicious foods and drinks. Lucky draws added charm to the event. The PET Show overall was a recreational cum entertaining activity which provided moments of joy and excitement to the people.



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## سندھ پولیٹری بورڈ کا تیسرا اجلاس 26 فروری کو کراچی میں صوبائی وزیر کی زیر صدارت 3 گھنٹے جاری ہوا

اجلاس میں پاکستان پولیٹری ایسوسی ایشن کے مرکزی چیئر مین طہیل ستاری زیر صدارت پولیٹری انڈسٹری کے نمایندگان نے شرکت کی۔ اجلاس میں چیئر مین ڈاکٹر سید بلوچ، ڈائریکٹر سندھ اسٹیٹ ٹیٹ آف ایگرائزمنٹ ڈاکٹر عزیز گل، ڈاکٹر کینر پولیٹری یونیورسٹی سندھ ڈاکٹر سید شاکر علی اور ڈی ایچ ٹیکریٹری مسداسحاق ایچ کے چیئرمین کی زیر صدارت پولیٹری انڈسٹری کے نمایندگان نے شرکت کی۔ اجلاس میں چیئر مین ڈاکٹر سید بلوچ، ڈائریکٹر سندھ اسٹیٹ ٹیٹ آف ایگرائزمنٹ ڈاکٹر عزیز گل، ڈاکٹر کینر پولیٹری یونیورسٹی سندھ ڈاکٹر سید شاکر علی اور ڈی ایچ ٹیکریٹری مسداسحاق ایچ کے چیئرمین کی زیر صدارت پولیٹری انڈسٹری کے نمایندگان نے شرکت کی۔

اجلاس میں چیئر مین ڈاکٹر سید بلوچ، ڈائریکٹر سندھ اسٹیٹ ٹیٹ آف ایگرائزمنٹ ڈاکٹر عزیز گل، ڈاکٹر کینر پولیٹری یونیورسٹی سندھ ڈاکٹر سید شاکر علی اور ڈی ایچ ٹیکریٹری مسداسحاق ایچ کے چیئرمین کی زیر صدارت پولیٹری انڈسٹری کے نمایندگان نے شرکت کی۔ اجلاس میں چیئر مین ڈاکٹر سید بلوچ، ڈائریکٹر سندھ اسٹیٹ ٹیٹ آف ایگرائزمنٹ ڈاکٹر عزیز گل، ڈاکٹر کینر پولیٹری یونیورسٹی سندھ ڈاکٹر سید شاکر علی اور ڈی ایچ ٹیکریٹری مسداسحاق ایچ کے چیئرمین کی زیر صدارت پولیٹری انڈسٹری کے نمایندگان نے شرکت کی۔

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# Veterinary News & Views

Faisalabad

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## UVAS ALUMNI ASSOCIATION HOLDS ITS 10<sup>TH</sup> ANNUAL REUNION AT RAVI CAMPUS PATTOKI

Lahore: The Alumni Association of the University of Veterinary and Animal Sciences (UVAS) Lahore arranged its 10<sup>th</sup> annual reunion at Akram Complex of Ravi Campus Pattoki. Former Governor Punjab Lieutenant General (ret) Khalid Maqbool and Former Secretary Livestock and Dairy Development Department Punjab Mr Akhlaq Ahmad Tarar co-chaired the reunion function while Former UVAS Vice-Chancellor Prof Dr Manzoor Qureshi and a large number of alumni from across Pakistan and AJK participated. In which drama & cultural performance, alumni member visits of different departments of Ravi campus, Music gala, rifle shooting and archery contests featured the event. Khalid Maqbool also planted saplings in front of Akram Complex.



Speaking on the occasion, Khalid Maqbool said that progress of our country lies in exports and he emphasized on the value addition of poultry meat and dairy products to enhance the export of Pakistan towards international markets for the uplift of national economy. He said that a large number of stakeholders, students, researchers and farmers not only from Punjab but also from all over the Pakistan getting maximum benefits from UVAS by getting its quality of education and research for the uplift of farming community and livestock sector. He said UVAS play a vital role for the uplift poultry & dairy industry and national economy of Pakistan. He said UVAS flourishing day by day with state of the art laboratories and infrastructure development for practical work of their students. Akhlaq Ahmad Tarar shared his past memories and struggle for the establishment of UVAS. He said that I really feel glad to see the facilities of UVAS especially its Ravi Campus Pattoki

equipped with state of the art facilities and infrastructure. He acknowledged the role of UVAS especially for the treatment of animals. He said he feel proud to know about the achievements of UVAS not only in the curricular activities through its quality of education even in the sports activities as well. He thanked UVAS for selecting him as a life time alumnus. In his address, Vice-Chancellor Prof Dr Talat Naseer Pasha listed the curricular and extra-curricular achievements, infrastructure development, trainings, international conferences & congress of the UVAS and its development projects and clinical and advisory services for the benefit of poor farming community.

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# SPRING FESTIVAL-2019 AT UVAS

QIRAAT, NAAT AND AZAAN, DOCUMENTARY COMPETITIONS HELD AT UVAS

Lahore: Spring Festival 2019 began at the University of Veterinary and Animal Sciences (UVAS) Lahore on Monday with the theme of "Peace and Harmony". On the first day, competitions of Naat-Qiraat, Azaan and Documentary were arranged by the Senior Tutor Office.

In Qiraat competition male category, Hafiz Shakir (DVM) got first position, Hafiz Rauf (IBBT) got second position and Hafiz Furqan (Business School) got third position while in female category Mariam Naeem (DND) got first position, Hajra Awais (Business School) got second position and



hammad Salman (Business School) got third position while in female category Maria Rasool (DND) got first position, Saira Aziz (DVM) got second position and Sidra Qurban (BS) stood on third position. In Azaan competition, Hafiz

Abdullah won 1<sup>st</sup> position, Khurram (IBBT) got 2<sup>nd</sup> position while Hafiz Ta-hir (IBBT) got 3<sup>rd</sup> position. In Spring to life documentary competition, funny videos Faiza Waheed team (DND) got first position, Abdur Rehman team (DVM) got second and Hammad Bhatti team (IPS) got third position. In life at UVAS documentary competition, Hammad Latif team won 1<sup>st</sup> position, Usama Team got 2<sup>nd</sup> position while Hira and Saleha team stood on 3<sup>rd</sup> position. In Reporter competition, Amina Sattar (Microbiology) won 1<sup>st</sup> position, Hifza Saleem (IPS) got 2<sup>nd</sup> and Saleha Hafsa stood on 3<sup>rd</sup> position. Renowned Naat Khawan Asif Sarhadi and Qari Aziz ur Rehman were chief guests on the occasion and gave awards to the Naat-Qiraat contest winners while UVAS Vice-Chancellor Prof Dr Talat Naseer Pasha and UVAS Senior Tutor Prof Dr Kamran Ashraf were also present on the occasion. A large number of students and faculty members were present in the event. Students from various departments participated in these competitions. Similar competition also held at UVAS Ravi Campus Pattoki.

## INTERNATIONAL WORKSHOP ON CELL CULTURE ARRANGED BY DEPARTMENT OF ANATOMY UNIVERSITY OF AGRICULTURE FAISALABAD

Faisalabad: Adoption of modern practices in livestock and agriculture sector is essential to increase productivity, and ensure food security as a step towards poverty alleviation, said University of Agriculture Faisalabad Vice Chancellor Dr Zafar Iqbal Randhawa. He addressed International Workshop on Cell culture arranged by Department of Anatomy University of Agriculture Faisalabad at New Senate Hall. Dean Dr Zafar Iqbal Qureshi, Chairman Dr Anus Sarwar, Turkish Scientist Dr Korhan Altunbas, Dr Artya Yagci also spoke on the occasion.



The Vice Chancellor said that the university was making all out efforts to ensure practical knowledge in the syllabus in order to produce skilled manpower. He stressed upon the scientists to produce the tangible research work to address the problems of the common man and the farming community. He said livestock

contributes approximately 56 percent of value addition and nearly 11 percent to gross domestic product (GDP). He said that research in the medical field is expanding and involves major emerging areas with influential effects and regeneration approach. Animal tissue culture plays a substantial role in the field of biotechnology. He said that Allah Subhano-tallah guides humans in Quran about human beings creations and way to spent lives. He urged the participants to spend their lives as per golden principles of Quran and Sunnah.

## PROVINCIAL MINISTERS LIVESTOCK FROM KPK, BALUCHISTAN & PUNJAB VISITED UVAS RAVI CAMPUS

Lahore: The Minister Livestock **Khyber Pakhtunkhwa (KPK)** Mohibullah Khan, Minister Livestock Baluchistan Mitha Khan Kakar and Minister Livestock Punjab Sardar Husnain Bahadur Dareshtai paid a visit along with UVAS Vice-Chancellor Meritorious Prof Dr Talat Naseer Pasha and Secretary Livestock & Dairy Development Department Punjab at University of Veterinary and Animal Sciences (UVAS) Lahore's Ravi Campus Pattoki. They visited different departments of Ravi Campus including Akram Complex



and Central Laboratory Complex (CLC) which is comprising of different laboratories including Animal Nutrition Lab, Diagnostic Lab, Genetics and Genomics

UVAS a documentary also feature on the occasion. Vice-Chancellor Prof Dr Talat Naseer Pasha briefed them on the UVAS academic research, trainings & advisory services, clinical & disease diagnostic facilities, various laboratories analysis test and short term training programmes etc. The Ministers appreciated UVAS state-of-the-art disease diagnostic labs facilities, quality of education & research, dairy management training and providing clinical services for the benefit of poor farming community.

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CHINA'S IMPORT OF US SOYBEANS CLIMBS IN JAN
BEIJING: China's imports of US soybeans nearly doubled in January from the previous month as cargoes booked after a Sino-US trade truce arrived in the world's top oilseed importer according to Chinese customs data published late on Monday.
China brought in 135,814 tonnes of US soybeans in January, up 95 percent from 69,298 tonnes in December. But the figure was still down 99.7 percent from...

QUIZ, MASTER OWL, TAXIDERMISTRY AND CEMS (MEDICAL EMERGENCY) COMPETITIONS HELD AT UVAS

Lahore: The University of Veterinary and Animal Sciences (UVAS) Lahore in connection with Spring Festival 2019 arranged various competitions including Quiz, Master Owl, Taxidermy and CEMS (first aid medical emergency) competitions held here on Tuesday in City Campus Lahore. Students from various departments participated in these competitions.



In Quiz competition, Shaob Khan/Imran Shahid Institute of Bio-Chemistry & Bio-Technology (IBBT) team won 1st position. Danish Raza/Usman Ali (Doctor of Veterinary Medicine) team got 2nd position while Sajid Ali/Mahnoor Idrees (Doctor of Nutrition & Dietetics) team stood on 3rd position.

DONKEYS' EXPORT TO CHINA NOT YET MATERIALIZED

Peshawar: The export of donkeys to China has not yet been materialized due to delay in submitting required documents by the investors and companies. The livestock department officials told this scribe that many Chinese companies had evinced their keen interest in establishment of donkey farms and their exports but the KP government had planned to deal only with state-owned companies or state-owned investor-in-china.

The government would provide all legal and technical support to the investors. The MOU was terminated due to indigibility of the investor to produce the required documents. The officials said that Chinese companies also expressed their interest in the exports of donkeys. They were asked to present the required documents in this regard. However, they responded that they would submit the documents after Chinese New Year celebrations at the end of February.

Pakistan's investment in Pakistan's livestock and agriculture sector. Main purpose of the plan is to prevent illegal smuggling of donkeys to foreign countries, because the donkeys are used for medicines and meat consumption in China.

The proposed project will help improve the socio-economic status of donkey-rearing communities and also improve the health and production of local donkeys. An official said that new technologies would also be introduced. Work on capacity-building of donkey breeders and services they provide would also be done.

The officials said that the government had planned to establish two donkey farms initially in D.I. Khan and Mardan districts. The KP livestock department would focus on building donkey farms in order to breed donkeys to increase its population. Around 70,000 people use donkeys as working animals in KP province. During PML-N government, Economic Coordination Committee (ECC) led by Hon. Finance Minister Chaudhary Pervaiz Elahi placed a temporary ban on the export of donkey hides, after the customs in Karachi seized 35,000 skins of donkeys destined to China.

PFA SEALS THREE FOOD UNITS OVER ADULTERATION



Lahore: The Punjab Food Authority (PFA) on Tuesday sealed a fat rendering unit, marabha (jam) unit and a sweets factory during an operation against unhygienic and adulterated food items in the province. According to a statement released from the ministry, PFA discarded more than 11,000 kilograms prepared food and raw material including 4,000kg animal's fish (fat), 1600kg standard oil, 2800kg marabha covered with the fungus layers and 500kg vermicelli.

usage of unhygienic ingredients and Sarwar and Suresh Food was sealed over insanitary condition. PFA vigilance team sealed Chashti Food over selling unhealthy cooking oil and adulterated sweets in Bahawalnagar. Usama Abouzair was sealed over selling expired items in Kabirwala.

CHINA TO GIVE \$1BN GRANT FOR EARLY HARVEST PROJECTS

Islamabad: China would give \$1 billion grant to Pakistan for early harvest projects of socio-economic development and agriculture sectors under the second phase of China-Pakistan Economic Corridor, it is learnt. According to the sources, China would provide this grant for early harvest and pilot projects during the next three years. Both the countries have agreed on the second phase of the CPEC. Most of the projects relating to socio-economic development included vocational training particularly in the provinces, capacity building of hospitals and pilot projects of agriculture sector.

The project titled 'Khyber-Pakhtunkhwa-China Sustainable Donkey Development Programme' is expected to bring Rs 1 billion. It is aimed at attracting Chinese investment in Pakistan's livestock and agriculture sector. Main purpose of the plan is to prevent illegal smuggling of donkeys to foreign countries, because the donkeys are used for medicines and meat consumption in China.

participate in the meetings. According to a press release issued by the ministry, the government of Pakistan is committed to strengthen the China-Pakistan all-weather strategic cooperative partnership and build closer China-Pakistan community of shared future in the new era. The CPEC vision has been expanded based on the priority and the government's vision for making it a true gateway for progress and prosperity under the slogan of 'One Corridor, Many Doors'.

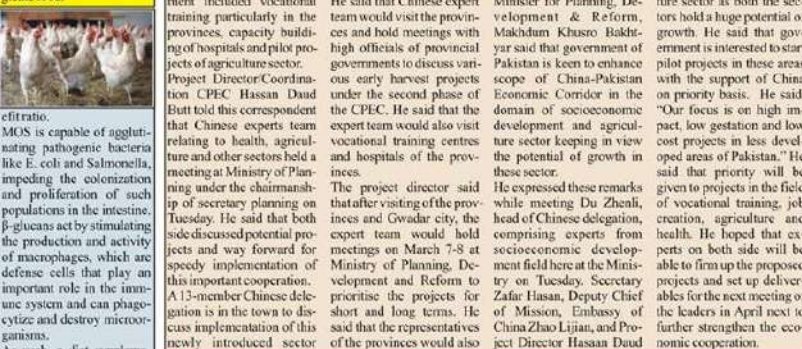
where also present on the occasion. The minister said, "We have come a long way in defining a sustainable way forward in the win-win cooperation framework between China and Pakistan." The federal and provincial governments are making all-out efforts to realise the planned CPEC projects as soon as possible, he added. The minister said that in the second phase, scope of CPEC is being enhanced in the domains of social sector development and agriculture sector as both the sectors hold a huge potential of growth. He said that government is interested to start pilot projects in these areas with the support of China on priority basis. He said, "Our focus is on high impact, low gestation and low cost projects in less developed areas of Pakistan." He said that priority will be given to projects in the field of vocational training, job creation, agriculture and health. He hoped that experts on both side will be able to firm up the proposed projects and set deliverables for the next meeting of the leaders in April next to further strengthen the economic cooperation.

BRAZIL BANS THE USE OF GROWTH-PROMOTING ANTIBIOTICS

The measure aims to improve the quality of animal feed and decrease infections caused by consumption of contaminated food. The SDA (Department of Agricultural Defense), which is under the MAPA (Ministry of Agriculture, Livestock, and Supply, Brazil), publicized in December the ban on the use of antibiotics that promote animal growth. "The use of the microbes tylosin, lincomycin, virginiamycin, bacitracin and tiamulin as performance-promoting additives in food-producing animals will be banned," stated the instruction, which appears in Ordinance No. 171.

(WHO), due to its possible influence on human health. According to data from the Organization in 2018, based only in the Americas, about 77 million people per year become sick after consuming contaminated food. Of these, 9 thousand die, including 2 thousand children. In Brazil, from 2007 to June 2016, 90.5% of cases of diseases transmitted through food were caused by bacteria, with the most commonly found serotype being Salmonella spp. (7.5%), followed by Escherichia coli (7.2%) and Staphylococcus aureus (5.8%).

additives which, valuing the quality of life of animals as well as the quality of meat that will be consumed, possesses a range of products that substitute growth promoters and act in a natural way in the organism of broilers and pigs, one such product being Immunowall®. Immunowall® is a natural solution that aids in the reduction of contamination and the prevention of problems caused by pathogens. Based on this principle, Immunowall® stands out among other products by being comprised of a dense cellular yeast wall, Saccharomyces cerevisiae, and fer having high concentration levels of beta-glucans and transmission of pathogenic bacteria to other organs in the body.



ILLEGAL HUNTING OF ENDANGERED BIRDS GOES UNCHECKED IN SHANGLA

SHANGLA: Illegal hunting of national bird chakor and other endangered species is on the rise in Shangla district which needs immediate attention of the wildlife department and the district administration. The wildlife department officials have miserably failed to take action against the illegal hunters despite repeated reminders by local activists through social media. Fazal Subhan Afghani, a poet, told Dawn that several groups of hunters, including some professional hunters from other districts, had been invited by local poachers, who were involved in poaching of the national bird and other species which are on verge of extinction across the country.



Department officials should act to put brakes on this evil, demanded Saad Zahir Khan, a local. The hunters even poach migratory birds due to which half of them have already returned back, Sanatullah, a social activist, deplored. Deputy ranger of wildlife department, Swat region, Misbauluddin Told Dawn that only six members of the staff could not cover the whole district to protect chakor and other birds from being hunted. He said shortage of staff, lack of awareness among the people and far off locations were major causes of growing trend of illegal hunting of birds. He said action would be taken against violators of the law, adding public support was essential to overcome the menace. The official also suggested the government to establish wildlife division in three ranges of Shangla district to help control illegal poaching of precious birds.

MACAU OVERTURNS 14-YEAR POULTRY IMPORT BAN

Macau's government has announced it will revoke a ban on poultry meat from some Asian countries that has been in place since 2004.

A chief executive order posted by the country's Official Gazette announced the relaxation of the long-standing ban as it considered the risk of avian influenza to be reduced. In 2004 most types of poultry meat, eggs and hatching chicks were banned from a broad range of countries including Korea, Vietnam, Japan, Thailand, Cambodia, Laos, Indonesia, Taiwan and the provinces of Guangxi, Hubei and Hunan. The order revoking the ban says poultry products will now be permitted from those countries, subject to the



normal checks and controls. "Applications for the importation of poultry and products of avian origin from any country or region of the world are fully processed in accordance with the Macao Special Administrative Region and international control practices, with control

of the import of these goods. "Therefore, it is considered unnecessary to prohibit or impose restrictions on the importation of goods from certain countries or regions." Nearby Hong Kong produces a weekly summary of avian influenza cases, and notes that the latest reported case of the H7N9 virus infecting humans was in February last year. The latest report of the H5N6 strain infecting a human was in November 2018. No H5N1 infections were recorded in 2018, it adds.



# ویٹرنری نیوز اینڈ ویوز

پاکستان ویٹرنری ایسوسی ایشن کے ذریعے جاری ہونے والی پہلی اور واحد پاکستان میں ماہانہ شائع ہونے والی ویٹرنری جرنل

جلد نمبر 01 | 07:01 14 مارچ 2019 | صفحات 10 قیمت 150 روپے شمارہ نمبر 17 ABC سے تقصیر

ایڈیٹر: ڈاکٹر عزیز حسین  
ڈائریکٹر: ڈاکٹر عزیز حسین  
ڈائریکٹر: ڈاکٹر عزیز حسین



پاکستان ویٹرنری ایسوسی ایشن کے 100 ویں سالانہ اجلاس کے افتتاحی سیشن میں شرکت کرنے والے وفد کے اراکین اور میزبانوں کی ایک بڑی گروپ فوٹو۔

## ویٹرنری یونیورسٹی کے راولی کیمپس چینی میں صوبوں اور ایسوسی ایشن کی اہم ترین ملاقاتی تقریب کا انعقاد

سابقہ گورنر جنرل ریٹائرڈ لیفٹننٹ جنرل خالد رحیم اور سابق چیئرمین ایسوسی ایشن ڈاکٹر عزیز حسین کی سربراہی میں وفد نے راولی کیمپس چینی میں صوبوں اور ایسوسی ایشن کی اہم ترین ملاقاتی تقریب کا انعقاد کیا۔ تقریب میں صوبوں اور ایسوسی ایشن کے اراکین نے ایک دوسرے کو خوش آمدید کہا اور اپنی اپنی سرگرمیوں اور کامیابیوں کے بارے میں تبادلہ خیال کیا۔

## زیرو پروگرام کی محفوظ استعمال، احتیاطی تدابیر بارے میں سیمینار

کاشتکاروں کو بیماریوں اور ادویات کی فراہمی حکومت کی اولین ترجیح ہے: وزیر زراعت



وزیر زراعت کی سربراہی میں وفد نے راولی کیمپس چینی میں صوبوں اور ایسوسی ایشن کی اہم ترین ملاقاتی تقریب کا انعقاد کیا۔

## ویٹرنری یونیورسٹی میں جشن بہاراں فیسٹیول 2019

نعت، قرأت، آذان اور ڈاکٹریٹری کے مقابلوں کا انعقاد ہوا



9th Spring Festival میں شرکت کرنے والے وفد کے اراکین اور میزبانوں کی ایک بڑی گروپ فوٹو۔

## ویٹرنری یونیورسٹی میں جشن بہاراں فیسٹیول کے چارے کے طلبہ کے درمیان کھانا

ایڈیشنل سٹوڈنٹس ویلفیئر آفیسر نے طلبہ کو خوش رکھنے کے لیے کھانا پیش کیا



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## 100 سے زائد نمائندگان میں شہر خرمی کی کرشمہ فارمگ چارڈ

پاکستان ویٹرنری ایسوسی ایشن کے 100 ویں سالانہ اجلاس کے افتتاحی سیشن میں شرکت کرنے والے وفد کے اراکین اور میزبانوں کی ایک بڑی گروپ فوٹو۔

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## تقریر کا کہیں مفت چارے کی تقسیم کیلئے 25 کروڑ روپے کی گرانٹ منظور

تقریر کا کہیں مفت چارے کی تقسیم کیلئے 25 کروڑ روپے کی گرانٹ منظور۔ پاکستان ویٹرنری ایسوسی ایشن کے 100 ویں سالانہ اجلاس کے افتتاحی سیشن میں شرکت کرنے والے وفد کے اراکین اور میزبانوں کی ایک بڑی گروپ فوٹو۔

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ENGRO FOODS PLAYS LEADING ROLE TO STRENGTHEN DAIRY SECTOR

Lahore: Engro Foods Limited is one of the key sponsor & exhibitionist of the International Buffalo Congress (IBC) 2019 in Lahore. This event was inaugurated by Chief Minister Punjab, Sardar Usman Buzdar. The event was organized by the University of Veterinary and Animal Sciences (UVAS) that works towards showcasing the milk and meat potential of buffalo, nationally and internationally. Engro Foods is a purpose-driven enterprise, providing the growing population with the right nutrients in a sustainable way is one of the key challenges for the coming decades. Engro Foods also exhibited its 'Grass to Glass' concept at the exhibition that aims to maintain transparency of EFL's supply chain ensuring safe, nutritious, pure milk reaches the consumer. Dr. Muhammad Nasir, Senior Manager Scientific & Regulatory Affairs, represented Engro Foods at IBC 2019. Among other participants were Ministers of Livestock, Agriculture and Women Development along with 750 scientists including 50+ global well known Buffalo experts.

MADE IN CANADA LAB GROWN MEAT A POSSIBILITY AFTER GRANT FROM U.S. NON PROFIT

A group of Toronto scientists will soon attempt to develop a less-expensive way to grow lab-made meat after securing a grant from an American non-profit aiming to boost advances in cultured protein. Cellular agriculture has been touted as the future of food thanks to its smaller environmental footprint and consideration for animal welfare, but until recently much of the research has been done south of the border. Cultured food uses cell cultures to grow animal products like beef, eggs or milk in a laboratory without the need for livestock. Some companies have already made these kinds of products, but it's an expensive undertaking and no such items are readily available on store shelves yet. "This is our, my first foray into this kind of research," said Peter Stogios, a senior research associate at the University of Toronto and lead researcher on the winning project. He's trying to overcome what he sees as one of the biggest hurdles for the whole industry of cultured meat: an expensive component to what he likens to a broth needed to grow meat in a lab. The broth is composed of vitamins, minerals, amino acids and growth factors that are essential to sustain tissue culture. Those growth factors are very expensive, he said. "Can we create those proteins in molecules, those growth factors better, cheaper and actually make them more potent?" he said. The four-person team will cast a wide net to look at growth factors from other species, like birds and fish, and attempt to mix those with cow cells. They hope to start the initial phase im-

COMMERCIAL OSTRICH AND FARMING



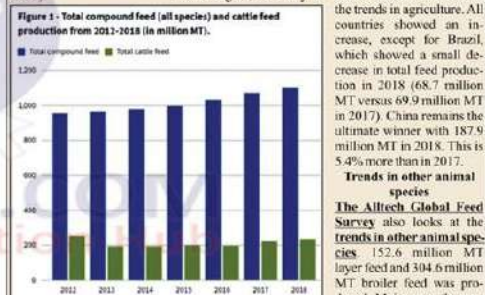
Ostrich, the largest bird of the world although incapable of flying, runs at 70kmph for 30 minutes to defend in case of any danger. Ostrich farming is one of the profitable business in the whole world as it is a source of meat, oil, leather and feathers. It is very economical in return as it consumes less fodder and capable of producing more meat. It has very unique physical characteristics as it can tolerate the temperature ranging from -2 degree Celsius to 56 degree Celsius easily. Commercial farming is successfully done in areas of high moisture, snow and desert areas in the whole world. An ostrich produce 17kg per annum Methane gas which is nearly equal to human making it one of the best animal of 21st century due to its adaptability in changing climate. One of the leading countries in Ostrich farming are Namibia, South Africa, Ethiopia, Australia, Iran, America and China. For successful Ostrich farming, more vacant place, feed containing surplus nutritional value including minerals and vitamins are required. Pakistan is a suitable region for Ostrich farming according to moderate weather conditions.

The demand of Ostrich meat is expanding in the whole world with every day. Meat is preferred because it contains low calories and fat. The taste of ostrich meat is well liked like beef. Ostrich egg is more than 10 months and it's like a cold but it is low in cholesterol even than chicken and fish. It contains iron three times that of Chicken so it is recommended for the deficiency of people having low iron in their diet. One out of three children each lacks iron in their body. Each 100g of Ostrich meat contains 4.9mg of iron. It is also beneficial for diabetes and hepatitis patients. According to FAO, each kilogram of Ostrich meat contains 21.9g of proteins which is higher than cattle and chicken protein amount. The leather of Ostrich is second most expensive after crocodile. Production is much lesser than consumption. The leather is very soft and durable. Each Ostrich produces 12-14sq feet leather. The price of Ostrich leather depends on presence of follicles. Old age Ostrich (more than 10 month age) is preferred for high quality leather. Leather contributes 45% profit in farming. Feathers of Ostrich also have economic importance. An Ostrich of more than 10 months yields feather weighing 1.5-2kg which is used for electronic and in women's attire. The feathers are also used in cleaning of 'Holy Kaaba'. Feathers contribute 5% profit in Ostrich farming. Another derived source is Ostrich oil which is one of the most expensive oils in the whole world which is used for relaxing joint pain. It serves as an excellent skin moisturizer. It also offers relief from blisters and sun burns. Ostrich belongs to 'Ratite' family. It has many breeds in the varying according to the color of their neck. Hybrid Ostrich can be obtained through cross breeding of blue and black neck ostriches. Red colored North African Ostrich is higher in height (2.5-3meters) while South African Black Ostrich is dominant in weight (100-150kg). Digestive system of Ostrich is just like chicken with only difference of absence of crop in it. Moreover it lacks gall bladder just like horses. The feed also just like poultry but it also eat fodder like animals. Clean water is also essential for Ostrich. 2.5liters of water is required with each kilogram of feed. Water uptake is increased under high temperature but it is reduced under reduced conditions. The nutritional factors of South Africa are best for Ostrich and it also relates with Pakistan. In early days, problem arise due to quality and quantity of feed. 30-40% of deaths are reported because of this factor. Ostrich consumes 600-650kg of feed every year for meat production. The protein content in feed for early days of chicks is fatal because it increase the weight of body making legs difficult to bear it. Pro-anthibiotics in early days should be preferred in early days and stool of flange Ostrich should be provided to small chicks that is helpful in production of favorable bacteria. Feed supplements also help in promoting digestion. Small and large Ostrich can engulf each and everything easily so the shelter area should be free of wires, stones and other hard objects that may prove fatal. Farming system mainly divided into three portions. Extensive System, Intensive system and semi-intensive system. Extensive system in which chicks are cradled with breeding flock for three months. In intensive system, chicks are taken in farm for 1 day to 3 months. In semi-intensive system, chicks are sheltered on artificial grass or cement floor. Temperature of the shed should be maintained in both summer and winter season. During winters, they must be kept in shed for 8-10 weeks. Over-population reduces growth and more prone to diseases and chicks start biting each other. The quality of chick can be determined by the weight, color, length of Ostrich chick. Moreover it should look healthy and cannot be infected easily. They should have quick response of standing if they are fallen. The beak and feet should not be injured. Color of eyes also determine quality of Ostrich chick. Bedding system for brooding of Ostrich chick should be properly managed. The bedding system must be favorable for chicks but mostly the bedding material is eaten by them so it needs to be covered if it is sand or plastic. They do so when feed is not in their access or inadequate amount is provided. In first two months, feed should be in form of mesh. Transport of Ostrich chick is also one of the factor that is responsible for the death. Travelling induces stress in chicks due to increased temperature. So, Ventral super light water and hyper mineral 1ml/2l water should be given in order to release stress of travelling. Endocrine system stabilized and becomes strong enough to cope with any external stress so brooding system should protect them in early days so that they cross fatal stage without any danger. Brooding starts from 30-32 degree centigrade and finishes at 24 degree centigrade at the age of 5 weeks. Moisture level should be maintained at 60-65% in order to make breathing easy for Ostrich chicks. The material for watering Ostrich chicks should be calcium free and washed with Pinkish KMnO4. Water should be appealing for them so add colors like green or yellow. The temperature of water for drinking must not exceed 36 degree centigrade. Inadequate water in diet ultimately leads to death so all those factors that overcome the intake of water should be eliminated. The apparatus used for feeding for chicks must be accessible and should not exceed height higher than the chest of chicks. They must be trained for proper feeding. Feed given to them must be divided in 4-5 times and not individually. Light factor also influence the health status of Ostrich chick. For this purpose, Mercury or Brown are more preferred. In early days, light should be provided consistently as it helps in water and feed intake. Ammonia is produced if excessively then it is dangerous too as it causes suffocation and burning of eyes if the amount is above 20ppm. Exhaust fans are used to eliminate ammonia in shed. Predators are dangerous for both open and closed shed areas so the animals like snake, cat, dog, vulture, fox or mongoose should be avoided. There should be no space in open or closed shed for entry of these predators. Appropriate fresh air is necessary in reduction of effect of unfavorable gases. If the concentration of CO2 is more than 0.03% in the shed then it causes problem.

WORLD PRODUCES MORE CATTLE FEED IN 2018

The global total compound feed production reach 1.103 billion metric tonnes (MT) in 2018. Over 237 million MT of this volume was cattle feed.

This is according to data from the Alltech Global Feed Survey. The 8th edition of the annual survey includes data from 144 countries and nearly 29,605 feed mills. In 2018, 1.103 billion MT of total compound feed (all species) was produced. This is an increase over the 1.07 billion MT produced in 2017. Also the total cattle feed production (dairy, beef and calves) increased from 224.4 million MT in 2017 to 237.8 million MT in 2018. Since 2015, the ruminant feed production on a global level has increased every year (Figure 1). The region that saw an increase of 3%, which will ensure it maintains its lead for now. Europe saw a small decline at barely 1%, mainly caused by declines in France and Lithuania. In the past, Europe has been followed by the Asia-Pacific region, but many of

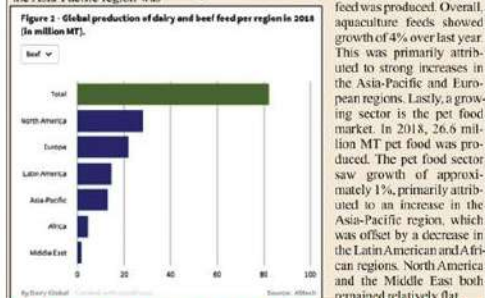


Trends in dairy cattle feed: If we look at dairy and beef feed production, we see that in 2018 this volume reached 213.3 million MT (Figure 2). In 2017, dairy was one of the few sectors that saw growth across all regions. A year later, in 2018, the global production of dairy feed grew with another 3%, with little regional differences. Dairy feed production remained relatively flat in Latin America and the Middle East. There was steady growth in North America and Europe. Africa's growth was primarily due to a significant increase in both Morocco and Nigeria. Also in 2017, Africa showed more than average growth figures (+10%) for its dairy feed production. Europe's shining star this year was Turkey, which saw an increase of 10% in dairy production. Of the total compound feed production of Turkey (25.5 million MT) around 27% is dairy feed. Other contributors in the region include Ireland, Russia and the UK. The growth for dairy feed in the Asia-Pacific region was

Table 1 - The biggest seven feed producers in the world between 2012 and 2018 (in million MT)

Period	China	United States of America	Brazil	Mexico	Spain	India	Russia
2012	108.54	161.48	66.28	28.58	21.23	24.84	23.35
2013	109.13	168.08	66.28	29.32	21.0	24.92	24.11
2014	107.40	172.45	66.11	30.7	21.58	24.43	25.86
2015	179.43	173.78	66.37	31.31	21.08	21.04	29.09
2016	187.2	180.7	66.53	33.88	31.85	21.26	29.09
2017	188.9	172	66.8	34.4	31	24.2	37.4
2018	187.9	177.2	66.7	34.6	34.5	30.7	39.2

contributed to this. As a result, the Latin American region now takes third place in beef feed production. Growth in Africa was seen in Sudan, Seychelles and Morocco. It is worth mentioning that the Middle East also produced a lot of feed



DUTIES, TAXES ON SOYABEAN OIL IMPORT DISCUSSED

Islamabad: Ministry of Commerce and local ghee and cooking oil industry on Monday discussed issues of imposition of duties and taxes on import of soyabean oil, duty and tax remission for export (DTR) scheme and harmonization of standards under World Trade Organization (WTO) regime. The delegation highlighted the different standards for the same product by provincial authorities is creating additional compliance and cost for the business community. It was agreed that different initiatives would be adopted to divert oil seeds import to local farmers so that Pakistan can become self sufficient in oil seed crop and foreign exchange could be saved. Pakistan is having oil seed production far below its potential that allows massive import of oil seed. Pakistan annually imports over 2.3 million MT of soyabean seed which is used to extract 418,700 MT of soyabean oil. The delegation is focusing on import substitution in the oil seed sector. The delegation appreciated business reforms package of the current government and expected that it would be very helpful in upkick of exports.

AGRI TOURISM DEVELOPMENT CORPORATION OF PAKISTAN

COBB RELEASES NEW MANAGEMENT GUIDELINES

Global poultry genetics giant Cobb Vintress has released new management guides and product supplements. Global poultry genetics giant Cobb Vintress has released new management guides and product supplements. The company says resources were updated to reflect top-performing flocks and provide best practices and recommendations to help maximize genetic potential. New management guide: The refreshed guides and supplements are presented in a colour-coded format to ensure that customers and distributors are able to easily find the information they need. "We're committed to the success of our customers, taking every action we can to help them succeed and