



ایگری ٹورازم

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خطرت شش
ایگری ٹورازم کی طرف سے پیش کیا گیا ہے۔ اس کی قیمت 1750 روپے ہے۔ اس کی خریداری کے لیے رابطہ نمبر: 0303-4000192۔

ایگری ٹورازم ڈیولپمنٹ کارپوریشن پاکستان قادر بخش فارم سٹرابیری کا طریقہ کاشت اور موسم



سٹرابیری میں تیار پروڈکٹ

ایگری ٹورازم ڈیولپمنٹ کارپوریشن کی طرف سے پیش کیا گیا ہے۔ اس کی قیمت 1750 روپے ہے۔ اس کی خریداری کے لیے رابطہ نمبر: 0303-4000192۔

سٹرابیری کے فوائد

سٹرابیری ایک غذائی اور طبی میوہ ہے۔ اس میں وٹامن سی، وٹامن ای، وٹامن جی، وٹامن بی، وٹامن اے اور وٹامن ڈی کی مقدار کافی ہے۔ اس کے علاوہ اس میں فلوئوئڈ، کلسیم، میگنیشیم، پتاشیم، سوڈیم اور لوہے کی مقدار بھی کافی ہے۔

ایگری ٹورازم ڈیولپمنٹ کارپوریشن

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Best for E-coli and Bacterial Enteritis and early chick mortality. (Prevention)
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COMPOSITION (Per Liter):
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Excipient sp..... 1000mg

PRODUCTION DESCRIPTION:
Vitamin E is a natural antioxidant which is essential for preventing oxidative damage to cells. It is also essential for preventing oxidative damage to cells. It is also essential for preventing oxidative damage to cells.

INDICATIONS:
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BOSAGE: 1ml/100g water for 4hrs in drinking water for 7 consecutive days
PACKING: 100ml
STORAGE: Store in cool & dry place away from sunlight

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Veterinary News & Views

Faisalabad

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HANDS-ON TRAINING WORKSHOP ON PHARMACOLOGICAL AND TOXICOLOGICAL PROCEDURES AT UVAS



Lahore: The Department of Pharmacology and Toxicology of the University of Veterinary and Animal Sciences Lahore organised a two-day hands-on training workshop on "Pharmacological and Toxicological Procedures" here on Friday.

Head of the Department and Professor of Pharmacology, Shaheen Medical and Dental College Lahore Prof Dr Shabbir Ali Raza chaired the concluding ceremony of the workshop and distributed certificates among participants and organisers while UVAS Vice-Chancellor Prof Dr Masood Rabbani chaired the inaugural session of the workshop. Acting Dean Faculty of Biosciences/Chairman Department of Pharmacology and Toxicology Prof Dr Ovais Omer, Dr Adil Rashid and a number of participants of training from UVAS, Shaheen Medical and Dental College and Riphah University Lahore attended.

The workshop was designed for the students and faculty members interested in learning techniques related to pharmacology and toxicology. Prof Dr Ovais Omer thanked the participants for participating in training from different universities of Lahore. Earlier, he said that the Department of Pharmacology and Toxicology is focusing on research and development of new drugs from natural and unconventional sources and study of plants/chemical interventions in domestic and laboratory animals, etc. Various aspects related to correct assay in-vitro model, used in drug toxicity determination, invitro techniques used in pharmacology research, lab animals handling and management, blood and tissue sample collection, in-vitro techniques, chorioallantoic membrane embryo and movement and embryo toxicity determination assays in pharmacological and toxicological research and assays on angiogenesis and their quantification, etc. were discussed in the two-day training.

UVAS INKS MOU WITH HUAZHONG AGRICULTURAL UNIVERSITY WUHAN (HZAU) CHINA TO ENHANCE SCIENTIFIC, EDUCATIONAL AND INSTITUTIONAL LINKAGES

Lahore: The University of Veterinary and Animal Sciences Lahore and Huazhong Agricultural University (HZAU) China have signed a memorandum of understanding to enhance scientific, educational and institutional linkages.

UVAS Director External Linkages, Chairman Department of Pharmacology Prof Dr Kamran Akhtar and Vice President, Huazhong Agricultural University, Wuhan, China Prof Zhou Chengzao signed the MoU in a ceremony held in Syedkaree Room City Campus Lahore on Sunday. UVAS Vice-Chancellor/Member-in-Chief Dr Talat Naseer Pasha, UVAS Pro VC Prof Dr Masood Rabbani and a number of UVAS faculty members and HZAU Chinese delegation were present on the occasion.

Under the MoU both parties would collaborate in various programs of education, research, extension & business development and technology transfer. They will exchange teachers, researchers, and students and also provide work scholarships. They would develop collaborative projects on education, researches and agricultural extension. Both parties will also organize joint academic programs, symposia, seminars and conferences.

The Chinese delegation led by Prof Zhou Chengzao and



other delegation comprising Mr Hu Changhao, Director/Dean, Department of International Cooperation & Exchange/International College, Mr Chen Sheng, Director, HZAU Alumni Office, Mr Hu Libao, Vice Dean, College of Animal Science & Technology/College of Veterinary, Mr Xu Xianyun, Vice Dean, College of Food Science & Technology and Ms Song Liyaling, Section Chief, Department of International Cooperation & Exchange, Dr

Shouli Music, Prodean/Dean, College of Horticulture. They also held a detailed meeting with Vice-Chancellor Prof Dr Talat Naseer Pasha and other senior faculty members of UVAS.

Speaking on the occasion, Prof Dr Talat Naseer Pasha said that UVAS is working very closely with the Government of Punjab, Livestock and Dairy Development Department Punjab, poultry and dairy industry and playing an active role for the development of livestock corridor (OPIC) and he said that UVAS is working actively to ensure safe and quality meat reaching the consumers. He mentioned with the help of Government of Punjab another veterinary university recently established named Christian University of Veterinary and Animal Sciences Bahawalpur (CUVAS) for development of livestock in south Punjab, which is the hub of livestock. He said that these ample opportunities in livestock/agriculture in the Pak-China Economic Corridor (OPIC) and we should get maximum benefits.

It has been Prof Zhou Chengzao thanked to UVAS for providing full support and cooperation and institutional linkages.

Earlier, in a separate meeting the Pro Vice-Chancellor Prof Dr Masood Rabbani briefed the Chinese delegation on the UVAS academic, research, extension & dairy advisory services, clinical & disease diagnostic facilities, development projects, vaccine production, various training programmes, national and international linkages, etc. He informed the delegation about the UVAS ranking among the top universities in Times Higher Education and QS World Top University Rankings. Meanwhile, Huazhong Agricultural University (HZAU) China alumni association of Pakistan ceremony held at UVAS. In which 50 Pakistani students who completed their PhDs from HZAU were attended. On the occasion new alumni association members were elected for one year. The newly elected office-bearers are Dr Mehtab-Ul-Din (President), Dr Amir-ud-Din (Vice President Punjab), Dr Farhan Anwar (Vice President Peshawar), Dr Adnan Hassan (Secretary) and Dr Usair Jia (Vice Secretary). Prof Dr Pasha and Prof Zhou Chengzao congratulated new alumni members.

Gift of love to prof. Dr. Zafar Iqbal randhawa acting VC U.A.F



A delegation comprising of eminent veterinarians and media persons paid a visit to Acting Vice Chancellor's office today. Delegation comprised of Dr. Zaheer Ud Din Avian Pathologist, Dr. Khalid Mahmood Shouq, Editor in Chief The Veterinary News & Views Weekly, Dr. Sijad Arshad (General Secretary Pakistan Veterinary Medical Association), Dr. Abdul Jabbar Abbasi (Pakistan poultry association, Dr. Qasim Altaf & Mr Hashim Muhtar (IPEX 2018), Mr. Yaseen Randhawa (CEO LEGUME HERBS), Dr. Tean Zaheer (Deputy Editor Technical The Veterinary News And View Weekly and others.

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پاکستان کی بڑی ترین اخباری ادارہ، ایف ایچ ایم کے زیر اہمیت اور کوشش میں جاری

ویٹرنری نیوز اینڈ ویوز

مفت روزہ
آؤٹ رینج گورنمنٹ
ایف ایچ ایم
آؤٹ رینج گورنمنٹ

15:08 13 اکتوبر 2018ء جمعرات 12 اگست 150 دسمبر 42 ABC سے تصدیق شد

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University of Veterinary and Animal Sciences, Lahore

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Final Test: 12-10-2018

Final Test: 19-10-2018

Final Test: 26-10-2018

Final Test: 02-11-2018

Final Test: 09-11-2018

Final Test: 16-11-2018

Final Test: 23-11-2018

Final Test: 30-11-2018

ویٹرنری کے شعبے میں ایف ایچ ایم کے بعد 2 سالہ ایسوی ایٹ ڈگری پروفگرام وقت کا ضیاع ہے

ہفت روزہ ویٹرنری نیوز اینڈ ویوز کی طرف سے کرائے جانے والے ایک سروے میں شرکاء کی رائے کا اظہار

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سروے میں شرکاء نے کہا ہے کہ ایف ایچ ایم کے بعد 2 سالہ ایسوی ایٹ ڈگری پروفگرام وقت کا ضیاع ہے۔ ہفت روزہ ویٹرنری نیوز اینڈ ویوز کی طرف سے کرائے جانے والے ایک سروے میں شرکاء کی رائے کا اظہار کیا گیا ہے۔

شتر مرغ کے پر بندے تیار ہیں، خریدار کوئی نہیں! کیا ہمیں اسی طرح مرنے کے لئے چھوڑ دیا جائے گا

فی الفور لائیو شاک جناب کو احکامات دیتے جا رہے ہیں کہ ہنگامی بنیادوں پر فارم سے حسب و قدر مقرر روایت پر پر بندہ خرید جائے۔ ریشہ دار مرد کو سوسٹی کے بنیادوں کی ادائیگی کو بھیج دیا جائے۔

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THE SHUHAHA PARK ESTABLISHED AT THE UNIVERSITY OF AGRICULTURE FAISALABAD TO PAY HOMAGE TO MARTYRS ON THE EVE OF DEFENCE DAY



In the park, trees on the names of martyred army personnel (Nishan Haideri) were planted. Publication Dr. Jalal Arif, Dr. Shazad Hussain and other notable planted the trees. Like other parts of country, national Defence Day was observed at the UAF with national zeal and enthusiasm. The main ceremony was organized by Office of

the UAF Vice-Chancellor Dr. Zafar Iqbal Bhattani in the presence of Major General Nishan Haideri, Major General Javed Khan, Major Shahidullah, Major Nadeem, Major Muhammad, UAF Registrar, Muhammad Hussain, Treasurer Tariq Saad, Senior Tutor Adnan Javed, Deans Dr. Allah Bakh, Dr. Masood Sadiq, Dr. Dr. Sajid, Dr. Zafar Iqbal Qureshi, Dr. Thar Siddiq, Principal Officer Public Relations and

distributed 4000 mousings plants among the society on the day under the supervision of Dr. Shazad Hussain. Addressing on the occasion, Dr. Zafar saluted the mothers, fathers, sisters, wives and brothers of the martyrs who gave their lives for defending the country. He said that the independence was a great blessing. Now, the duty lies on the shoulder of the nation to move the country to new horizons of the progress and prosperity. He said that the country had given marvelous things and we were enjoying freedom thanks to Pakistan. He said that it is time to give back the country in terms of hard-working, education and changing mindset. He said that the armed forces and the whole nation commemorated September 6 to pay tributes to martyrs and 'Ghazis' for their supreme sacrifices. He said that there was a time when the Muslims were ruling the world. There was a culture of accountability, unity, passion and hard-working when a layman can rule the rulers and they give answers. That afterward, we

HAZARD ANALYSIS AND DUST CONTROL
In feed mills, dust should be controlled to safeguard the health of the employees and the environment and to prevent dust explosions.



The dust generated by feed production, storage and transportation is accumulated in large quantities. The explosion concentration is 10-15% by volume. The ignition source has enough releasing energy density and total energy to ignite the combustion mixture.

Monitoring of feed dust. At present, many domestic feed factories have effective methods and measures for dust monitoring. Nowadays, most domestic feed factories have two kinds of dust monitoring methods: first is the dust sampler and the balance to measure the dust concentration of the air; the second is to borrow the direct and continuous dust measuring instrument to determine the dust content, and to feed the dust concentration directly through correction. Because the measurement accuracy of the dust sampler is relatively high, many countries include it in the standard dust concentration measuring instrument, but it cannot timely respond to dust pollution in the environment due to a complex process. A direct reading, fast dust measuring instrument has advantages of fast, direct, and timely response, but it has a larger error. Therefore, the overall level of dust monitoring instruments and testing technology in domestic feed factories is lagging behind. It is difficult to monitor the concentration of dust in the factory and evaluate the harm.

Control technology of feed dust. Feed factories should take existing national laws and industry standards as the basis for rational planning of raw material areas, setting the fire channels, using appropriate fire-resistant materials and safe and reliable prevention measures. The main measures are as follows: 1) Control the dust concentration and make it below the minimum explosion concentration, 2) Control

SOLVE AGRI PAK (PRIVATE) LIMITED IN COLLABORATION WITH ABS GLOBAL, USA LAUNCHED "SEXCEL SEXED GENETICS" IN PAKISTAN

Solve Agri Pak (Private) Limited in collaboration with ABS Global, USA launched "Sexcel Sexed Genetics" in Pakistan. An official launch ceremony was organized in Lahore to introduce the new sexed genetics made by ABS Global using 21st century technology designed to deliver more high value progenies to the dairy herds. The august launch ceremony was attended by a number of key stakeholders from Pakistani dairy sector including corporate & commercial dairy farms, dairy development organizations, milk processors, research and academia etc. Solve Agri Pak's Chairman Board of Directors Mr. Haroon M. K. Lodhi lauded the innovative technology introduced by ABS Global and wished that Sexcel is going to bring a lot of additional value for the dairy farmers in Pakistan.



proprietary technology for sexing bovine semen developed by ABS Global that has broken the monopoly in sexing bovine semen giving access to the 21st century technology that ABS customers deserve. Explaining the difference between the new technology and the old technology, Mr. Marc highlighted that this innovative technology does not subject the cells to the high pressures, electric currents and shear forces used to produce the sexed semen historically available to farmers. The result is a superior sexed genetics product that helps customers maximize their profitability in line with their individual economic and herd goals. He explained that data from ABS Global's Real World Data (RWD) database demonstrates that Sexcel achieves a 90 percent relative conception rate when compared to conventional semen and a higher relative conception rate than other sexed semen used by dairy farmers. RWD contains real results from real customers and is sourced from more than 37 million cows from herds located in key dairy markets throughout the world.

Speaking at the occasion, Solve Agri Pak's General Manager Dr. Waqar Shaikh reiterated that Solve Agri Pak is a value-adding partner in livestock dairy sector of Pakistan and bringing new technology with ABS, we are opening doors for our customers to fast forward their genetic progress. "We at Solve Agri Pak and ABS Global are bringing powerful tools including genetic audit, reproduction audit, genetic management system (GMS),

TEACHING ASSISTANT ORIENTATION



The students to express their views in a nice and mild way for the transformation of the society and that must not be misleading. He said that the country was blessed with talented youth so there was a need to sharpen their skills in order to fight with challenges of the modern era. He urged the students to leave no stone unturned to get the education and to become skilled manpower. He added that quality education would pave the way to compete with the rest of the world. He argued

work, while also providing farmers a choice of sexed genetics tailored to their specific needs including calving ease, milk production, feed efficiency, reduction in disease risk or any number of genetic traits. The Sexcel sexed genetics will be available in Pakistan from September 2018 onwards and will be marketed by Solve Agri Pak (Private) Limited, the exclusive distributor for ABS Global in Pakistan. For more details, contact 0304-1115566.

The process of feed production, purchase, sale, storage and transportation, especially during the summer, invariably cause a lot of dust. It is generally believed that the feed dust comes from two aspects: 1) Pure feed dust, generated by the process of feed production. Its quantity is related to the production method, process and materials and 2) Associated dust, produced during the transportation process of feed raw materials or finished products, due to the interaction between feed raw materials and finished products, such as mechanical damage of friction, extrusion, loading and unloading. The pollution of feed dust originates from dusting. The so-called dusting means that any dust, under the action of natural or mechanical forces, changes from the stationary state to floating in the surrounding air.

The damage of feed dust. Feed dust is a non-conductive flammable dust. The dust generated by feed production, storage and transportation is accumulated in large quantities. When it reaches a certain concentration of the explosive concentration after mixing with air, it can burn when meeting with a fire source, causing serious economic losses and even accidents. The danger of the explosion varies with the particle size of the dust. The smaller the dust is, the easier it catches fire, the more explosive it will be. It is generally believed that there should be four conditions for the explosion of feed dust: 1) The dust itself can be burned; 2) The concentration of the diffused dust is higher than the minimum

and eliminate the fire sources; 3) Use effective explosion-proof knowledge and 4) Strengthen the workers' explosion-proof education. Dust removal equipment is mainly used for separating dust from air; these include a mechanical dust collector, filter dust collector, wet dust collector and electrostatic precipitator. Most small and medium feed factories usually choose to install a fan in the warehouse, eliminating dust and poison gas in time, so as to have the effect of ventilation and cooling. A few large feed mills use a centrifugal precipitator and bag filter. Dust can also be recovered and utilized as feed that contains many nutrients, such as protein, feed cost and crude fibre. Recovery and utilization can reduce the cost and increase the efficiency of enterprises. It is also important to strengthen production management and improve process. Dust pollution in feed workshops is mostly caused by unreasonable production management. Therefore, strengthening production management in production workshops is an important part of dust control. Establish a strict management system to clean up the dust on the ground and equipment regularly. Properly combine production process, improve production technology, select a dust removal system to ensure the dust removal, and establish and improve various rules and regulations at the same time, so as to improve the working environment, improve equipment safety, improve the feed production efficiency and economic benefit. And finally, dust workers should improve and strengthen their self-protection and safety awareness.

Conclusion To sum up, the pollution of feed dust not only causes damage to workers' health and pollution to the environment, but also causes dust explosion. Therefore, we need to carefully analyze the source and diffusion of feed dust, and take effective technology to control dust pollution, so as to improve dust control and reduce dust control, to comprehensively promote the healthy and sustainable development of the feed industry.



ماحول بچاؤ
 محمد اسلم پوریچ

پانی ہماری زندگی کا سب سے اہم ترین ذریعہ ہے۔ ہمیں اسے محفوظ رکھنا اور اسے آلودہ نہ کرنے دینا ہے۔ پانی کی کمی ہمیں بیماریوں سے دوچار کرتی ہے۔ پانی کی آلودگی ہمیں مرنے والی بیماریوں سے دوچار کرتی ہے۔ پانی کی کمی ہمیں بیماریوں سے دوچار کرتی ہے۔ پانی کی آلودگی ہمیں مرنے والی بیماریوں سے دوچار کرتی ہے۔

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کروڑوں کی عدم ادائیگی ملکان کا توجہ تیز کرو

کاشتکاروں سے لگاتار سو فیوٹیوں کو ملکان کا شروع کر دیا۔

کروڑوں کی عدم ادائیگی ملکان کا توجہ تیز کرو۔ کاشتکاروں سے لگاتار سو فیوٹیوں کو ملکان کا شروع کر دیا۔

قریب پارکر، مویشیوں کو امراض سے بچانے کیلئے ویکسی نیشن مہم

قریب پارکر، مویشیوں کو امراض سے بچانے کیلئے ویکسی نیشن مہم۔



تھریڈنگ میٹنگ کے دوران زرعی ماہرین کی فیصلہ کاروری

تھریڈنگ میٹنگ کے دوران زرعی ماہرین کی فیصلہ کاروری۔

زرعی وینڈیو فیصلہ کاروری کے ذریعہ مویشیوں کو امراض سے بچانے کیلئے ویکسی نیشن مہم



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دیکھیں وہ نہیں سمجھتے کہ کیا ہے جدو جلد اور صحت

دیکھیں وہ نہیں سمجھتے کہ کیا ہے جدو جلد اور صحت۔

نوزائیدگی کی کارروائی 53 ہزار لیٹر پانی سے 50 ہزار تک

نوزائیدگی کی کارروائی 53 ہزار لیٹر پانی سے 50 ہزار تک۔

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ویٹری نیوز اینڈ ویٹری ڈیولپمنٹ کورپوریشن پاکستان۔

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HIGHER EDUCATION INSTITUTIONS IN PAKISTAN: A WAY FORWARD

PROFESSOR DR MUHAMMAD SARWAR *Tanmgha-e-Imtiaz* , OSU,US, Distinguished alumnus, Distinguished National Professor, Vice Chancellor, Gomal University, Dera Ismail Khan



Executive Summary

According to our Quid-i-Millat (Jinnah's education is a matter of life and death for Pakistan. The world is progressing so rapidly that without equipping education in education, not only shall we lag behind, but may be wiped-out altogether. The current global scenario is ever changing world where inventions find any country's knowledge based economy. The education system in Pakistan should have differential to society's expectations but unfortunately it could not. Government of Pakistan is aiming at reforming and restructuring the education system so that level of knowledge can be converted into goods and services, increasing societal requirements. The higher education commission (HEC) has made several attempts to improve higher education through introducing its numerous reforms. However, overall academic and research standards hardly improved with respect to global universities. The improvement in higher education quality has been under-represented by knowledge generated by country's higher education institutions hardly met societal needs. The higher education in Pakistan faces several obstacles, including unavailability of research facilities, required buildings, insufficient available resources, inefficient funding, poor infrastructure, faculty incompetence and its insufficient capacity building, poor governance and political interference, which hinders its progress. The higher education needs aggressive leadership to get its sustainable results, meeting future challenges. This policy document is expected to serve a guideline to transform our higher education into research oriented purposeful education. This document briefly describes the author's perspective of administrative and financial powers for good governance, quality, accessibility, entrepreneurial culture, need of incentive primary research, need of innovative research, necessity of unstarred research facilities, internationalization, preparation of university for CPEC, revised criteria bills for faculty appointment and retention. The policy would help universities be creative, constructive, competent and collaborative, facing new millennium's challenges with honor, excellence and competitive spirit.

Role of HEC, Islamabad

In 2002, a new and ambitious strategy to reform Pakistan's higher education system by establishing higher education commission (HEC), Islamabad. In line with the Government of Pakistan's development vision, HEC has been successful in making key reforms in higher education system by providing increased access to higher education, enhancing education quality, offering studying opportunities to youth in world class universities, provision of research and academic environment to student and faculty. For the purpose, HEC implemented several programs such as increase in PhD faculty strength, publications, member institutions, launching Ten-Track System, hiring foreign fac-

ulty, and other programs. The research is to be financed keeping in view civil society's needs, ensure education and research's relevance, assist in financial management, discourage political interference in universities, make efforts to ensure institutional sustainability, formulate mechanisms and ensure merit based university employee's appointment, including Vice Chancellors, Deans, Directors and head of Departments through search committees.

Leadership

Leadership, management and administration at Universities demand restructuring to attract, hire and retain visionary leaders. The process of merit based appointment through search committees should be strengthened. A model governance framework needs to be developed through reviving appointment in Universities Act through a high level committee that includes eminent academicians, researchers, business leaders and CEOs. There are many success stories in the higher education system in Pakistan. One of them is poor governance of institutions that ultimately questions quality education. University governance should be equipped with the best governance tools to lead the gap between management and academic. Measures are required to ensure a culture of accountability in Universities/DAL to clarify administrative procedures and to institute transparent quality assurance mechanism for faculty in universities. There is no place for bureaucratic government. It is equally different and effective governance system where Vice Chancellors, Deans, Directors and HOD work as an employees and facilitators. An excellent governance mechanism programs are required for university leadership and management in academic, policy planning, implementation and evaluation, monitoring, financial and project management, ethics, personnel, media, student services, intellectual intelligence, law and social management, decision making, problem management and result based management. In addition, specifically designed orientation programs are necessary for research oriented faculty, directors and senior management University staff.

Administrative powers

Considering new perspective of governance, administrative powers are required to be revised and redefined in the search and retention of the structure of Universities to further improve, strengthen and sustain its management and financial resources for smooth functioning. In the current scenario, there are certain imperfections in university academic and financial management which hinder its efficient operation. The Vice Chancellor being chief executive and principal accounting officer has been engaged in numerous day to day affairs that may better be managed at Departmental level. A constitutional institutional level (i.e., local oversight, academic planning, curricular activities and student affairs). In addition, the University's financial resources should be allocated in a justified manner after taking into account their strict limitations so that they are autonomous and also responsible for their expenditure. To provide autonomy in currently the most pressing issue in the higher education sector. Decentralized authority and provision of merit based appointments to departments/faculties in deciding their own course of action pertaining to institutional financial and staff management, compensation, students, and such academic freedom will assist in an administrative level higher education management. Therefore, amendments are necessary to re-define and delineate the academic and administrative powers to Deans/Directors/HOD/Chairs in order to define their role and arrangements for efficient functioning of concerned departments/faculties, constituent institutions and University. The proposed

managerial reform will also include efforts to function in an autonomous manner and the Vice Chancellor may focus on a major role in legislation, policy development, selection, drive strategy, funds generation, quality assurance, research thrusts and institutional sustainability to assure high level of quality education and research in the University. The proposed restructuring or devolution of powers to subject-specific academic units through appropriate legislation and provisions of Universities Act will further improve their management by trusting responsibility, accountability and transparency by giving representation to all academic heads in decision making, so as to enhance the quality of higher education at Universities.

China-Pakistan Economic Corridor (CPEC)

The CPEC is considered to be a game changer in socio-economic development of Pakistan and the region. The higher education sector has a great role to play in this project. All of human resources skills are required in all phases of the project, from its inception to the completion of the project. The CPEC by its nature has a high-tech industry to be developed under this project. This will be defining moment for the Universities to initiate relevant academic programs and modify their curricula in accordance with the needs of this project. The universities are required to develop technology and engineering programs to fully participate in this vast venture. Universities have to come up with long term plans to create a more dynamic and research oriented and research linkages with the CPEC. Universities have to have a high level of innovation and research oriented programs and even establish subsidiaries in China.

Access to Quality Higher Education

Quality education of HEC is the only way to improve the education. However, because of previous neglect for extended period of time on university education quality and student academic policy, Pakistan still has to provide more access to quality education. Measures are required both to expand supply and to boost demand. (i) expansion of existing infrastructure; (ii) establishment of general Universities at District level (iii) establishment of Women Universities; (iv) expansion of the potential of distance learning and virtual education; and (v) provision of undergraduate and post-graduate scholarships to students both in public and private sectors.

Higher Education Quality

Access to quality education through several reforms and applying new models, the overall quality of teaching and research in Pakistan University is very low. Therefore, recommendations are (i) to establish quality assurance agency at provincial HEC level; (ii) to establish quality assurance cell at HECs; (iii) emphasis on quality human resource development programs and to launch a program designed to equip both new and existing faculty with the necessary skills and competencies to ensure performance based evaluation of HEC faculty like TDS; (iv) provide laboratory, equipment and scientific material, separate budget should be allocated by provincial HEC; (v) align scientific degrees with international standards; (vi) revise curriculum on mandatory regular basis; (vii) special teaching training programs for newly appointed faculty

to be declared mandatory before appointment; (viii) opt only TDS system, phasing out BS system. Unless BS system is completely replaced with TDS, our educational institutes can hardly meet any progress. The universities must align their post-graduate studies (teaching and research). Special and immediate emphasis is required for doctoral and master level research. The idea, topic, feasibility, relevancy, applicability and potentiality of the research projects should be approved after deliberative discussions at departmental and faculty boards involving major and minor experts as well as external evaluators. The progress should strictly be monitored through supervisory committees after report.

Distance Education

Distance education, under this system, universities educate students in different countries by employing different technologies and offer online courses. Associations in this system, universities in different countries compare the course contents with the course work completed at some other universities and permit students to transfer their credits. Students can benefit from this system of learning formalization to transfer their credit hours in other universities.

Dual or Joint degree programs

This is a unique delivery mode, education providers from different countries work together to offer joint training programs and the students receive qualification from both providers, or a joint award from the collaborating partners. The main challenge for the key host country is to make higher education locally available at an affordable price. Transnational education should follow the trend of international education where English speaking countries like UK, USA, Australia and Canada attract nearly half of the total foreign students. Expanding distance education through any of the above modes of cooperation to other countries in excess demand for higher education at the most common strategy adopted.

Centralized Research Facility

Keeping in view the current financial allocation for higher education, resources are limited for provision of research facilities at Universities. It is very difficult to establish advanced laboratory at departmental level even for every profession. It takes decades until a faculty member is able to fully equip a laboratory which in our culture are naturally not shared with other faculty members but departmental students for research purposes. The establishment of a central research facility equipped with a wide range of equipment is the most efficient better mode of research facilities to the faculty and students. Centralized research facility will also provide a platform to integrate different disciplines research groups to work in collaboration of one another with diverse scientific interests.

Nurturing Innovative Research Culture

Scientific discoveries leading to industrial innovations, particularly through academic spin-offs, provide a classic image of universities contributing to economic development (e.g., Silicon Valley). In pursuance of economic development, the missing culture of research should be created, promoted and encouraged at Universities to discover and disseminate new knowledge, first as the precursor for developing a vibrant and progressive economy. In pursuance of this goal, advanced teaching and learning should be equipped with hi-tech technology tools, internet libraries and exploring world wide web. The research facility should provide students with every opportunity and facility to hone their skills of acquiring, comprehending, applying, analyzing, synthesizing and evaluating knowledge from diverse sources. University should ensure that all necessary avenues to providing up-to-date knowledge and increasing opportunities for national and international exposure. Additional efforts are required to conduct innovative research being done at Universities with governmental/private sector, business and industrial enterprises.

Problem solving approach

In growth in economy, it is crucial to have students from different parts of the world and offers an opportunity to improve diplomatic relations with other countries. After the onset of CPEC, higher education institutions would be in a favorable position to initiate the following programs:

- a) Franchise: In this scheme, domestic country allows a well reputed foreign institution to start degree program in home country. Terms and conditions of teaching arrangements, management or profit sharing, etc. could be set mutually by partners.
- b) Distance education: Under this system, universities educate students in different countries by employing different technologies and offer online courses.
- c) Associations: In this system, universities in different countries compare the course contents with the course work completed at some other universities and permit students to transfer their credits. Students can benefit from this system of learning formalization to transfer their credit hours in other universities.
- d) Dual or joint degree programs: This is a unique delivery mode, education providers from different countries work together to offer joint training programs and the students receive qualification from both providers, or a joint award from the collaborating partners. The main challenge for the key host country is to make higher education locally available at an affordable price. Transnational education should follow the trend of international education where English speaking countries like UK, USA, Australia and Canada attract nearly half of the total foreign students. Expanding distance education through any of the above modes of cooperation to other countries in excess demand for higher education at the most common strategy adopted.
- e) One of the major provincial HEC may initiate joint venture with Universities in other provinces. The initiative should be directed to make buildings that attract faculty and theoretical strategic planning skills, along with the human resource, management and other related programs. The training of the youth in various modes should be as per the emerging strategic thinking and skills that will give them sectors.

Relevance in higher education

The quality of a society depends on the quality of skills and actions of its citizens. In the coming years, universities have to continuously adjust and reposition themselves to changing knowledge requirements and society's demand. Our universities are facing many challenges for providing quality and relevant content system. The lack of relevant training and no proper policy for focusing on changes in society's educational requirements, is mainly due to the misemployment of its graduates. The curricula at universities are often slow to respond to changing needs in the wider economy, and fail to cater or help shape the careers of tomorrow. In current scenario, the knowledge and human skills are most critical aspects in developed countries. Universities have to face these academic programs, research and curriculum most relevant and up-to-date to the needs of the society. In this context, policy of quality assurance is necessary to promote relevance of higher education system to societal needs. Relevant higher education will enable students with the knowledge and competence they need to meet the challenges. Generally, efforts are required to change the approach of the graduates to create jobs rather seeking one.

Internationalization

In contemporary world, globalization has become a revolutionary development in higher education sector. It has become an important part of national trade policies that create financial resources to enhance educational and



well as produce problem solving research which can address the industrial as well as societal issues. University should be encouraged to initiate interdisciplinary academic programs in various disciplines.

Trans-disciplinary Research

In Pakistan, efforts are required to combine the scattered research of different groups working across Pakistan. There should be a mechanism that integrates various disciplines for mutual benefit. In this context, such programs (i.e. conferences, workshops, seminars, meetings) should be initiated by starting trans-disciplinary interactions within Pakistani Universities. This body should be given a mandate to stipulate the Universities from political interference. In the current scenario, the political interference in the higher education institutions has raised the question of academic freedom. This is a natural dilemma that faculty and student's involvement in politics has literally deteriorated the entire fabric of this important sector, and therefore, should be completely eradicated from the country.

University faculty appointments criteria

Since inception of the HEC, billions of rupees have been spent on the human resource development as a result thousands of PhD scholars have completed their PhD degrees in developed countries of the world. This is a natural dilemma that faculty and student's involvement in politics has literally deteriorated the entire fabric of this important sector, and therefore, should be completely eradicated from the country.

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Provincial HECs probable role

In the light of 18th constitutional amendment, it is now the responsibility of respective provincial government to manage and provide financial, technical and logistical resources for improving quality of education, research and ensuring research relevance and development meeting national and international standards. The provincial HEC should be headed by appointing an independent Commission, a reformed research and accreditation body would develop short and long term planning, monitor implementation of university act, research projects, quality stan-

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TRANSPARENCY, UPHOLDING OF MERIT AND AUSTERITY WOULD BE A HALLMARK AT UNIVERSITY OF AGRICULTURE FAISALABAD



Faisalabad. Transparency, upholding of merit and austerity would be a hallmark at University of Agriculture Faisalabad. This assertion was made by UAF Vice Chancellor Prof Dr Zafar Iqbal Randhawa while chairing the meeting of the Deans' committee here at New Syndicate Hall on Wednesday afternoon.

Applying the philosophy of merit, transparency and austerity of Prime Minister Imran Khan, the VC vowed to bring forth a role model governance system for other universities of the country. He assured the meeting that he would never interfere in the jurisdiction of the deans, rather encourage them to ensure merit and transparency.

Dr Zafar Iqbal Randhawa, while talking about administrative matters of the university, said that the management has started working on empowering the deans of the faculties so that different issues can be addressed and prompt action could be taken without waiting time in seeking approval of the vice chancellor. Constituting a task force, he asked the deans to get their minds and identify the bottlenecks in the smooth running of their administrative affairs and also recommend their possible solutions. He also urged the deans to come up with solid reforms relating to their administrative powers to make the system fool-proof, transparent and efficient.

Dr Zafar directed the Registrar to make arrangements for recruitment of teachers thereby to ensure student-teacher ratio as per with the global trends. He directed the meeting to ensure the foolproof arrangements on the eve of defence day. On the occasion, he said, in order to pay homage to the martyrs and make a permanent source of raising their ranks in honor, a Shohada Park would also be inaugurated where saplings on the Deans' committee level and martyrs would be planted in presence of the heirs and army officers.

It was briefed to the Vice Chancellor that the day will also dawn with the recreation of Quana at 8:30 am at central mosque UAF after that special program will be arranged at 9:00 am at New Senate Hall to pay tribute to martyrs. A 5-6 km walk will be taken with 4,000 flowers. The walk will also be followed at an abatement High School on first come first serve basis.

PFA TO TAKE ACTION AGAINST INFANT FORMULA COMPANIES OVER VIOLATIONS

Lahore. Punjab Food Authority (PFA) has announced initiating its action against infant formula companies as the business adjustment period will end on September 20.

In this regard, the authority has prepared its action plan which will take off without any discrimination against the violators, said PFA DG Usman while chairing a meeting here on Sunday. He said he has given a go-ahead for taking strict action besides reviewing the progress of PFA's Technical Wing. The PFA DG said PFA would not spare anyone found guilty of violating PFA rules after ending the deadline. He said manufacture companies of infant formula could not mention the word 'infant' or 'baby' on their formula in a satisfactory substitute for human breast milk on the packaging of their products, as per the orders of Supreme Court.

He added infant formula companies could not give free samples of their products to doctors in hospital for the marketing purpose, added PFA, medical courts will provide infant formula products to customers only on prescription/recommendation of doctors.

He said PFA will remove stock of all companies from the market which will not bring a reform and failed to meet the PFA food regulations after September 20, 2018. Besides, PFA would take action against violators as per the law. He also directed Monitoring and Vigilance Wing to more vigilantly monitor the activities of infant formula companies' employees in hospitals and markets.

Meanwhile, Punjab Food Authority (PFA) continued its special drive on substandard manufacturing units in Lahore region, marking the second day by sealing 24 food businesses and penalizing 51 food businesses for violating the principal food law. On the direction of Punjab Food Authority, general kitchen, food safety teams under the supervision of Food Safety Officers (FSOs) visited 147 production units from Lahore to Rawalpindi, Muhammad Usman said as many as 188 production licenses were inspected on the second day of the drive in Punjab. He said PFA inspected 57 kaffi production units in Lahore region, 15 penalized and 25 served with warning notices. In Rawalpindi Region, PFA sealed four kaffi production units, 16 FDOs were penalized and served notices for improvement on 26 units. As well as, food safety teams charged 20 food business operators with heavy fine tickets in south region, and served notices on 32 outlets and sealed 10 production units.

CHICKEN FARMERS ADAPT NASA'S MARS TECHNOLOGY

That new an agri-tech start up company Thive Multi Visual is devising a chicken-weighting robot based on the rover developed by NASA to explore the red planet Mars.

The company plans to kit out the vehicle with cameras that can weigh chickens by sight alone. Thermal-imaging fair and other gadgets will monitor indicators such as body heat and humidity.

Space technology And an indoors GPS system, also adapted from space technology, will allow the robot to drive itself around and self-charge, while sensors will prevent it running over birds.

Thive MV is one of 7 companies supported by the European Space Agency's Business Incubation Centre, which is based at Hatfield, Oxon.

Clair Lewis, Thive MV chief executive, said there were a number of start-up firms applying space technology to farming.

She told the Economist that one of the reasons so many farming start-ups were reporting space hardware was that farmers were slow to adopt new technology, leaving the door open for entrepreneurs to exploit.

The sector also suffered from patchy data collection, and it was also helpful, she said, that space technology is so robust and designed to withstand toxic substance, making it ideal for farm life.

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NECROTIC ENTERITIS IN CHICKENS: AN IMPORTANT DISEASE CAUSED BY CLOSTRIDIUM PERFRINGENS

Dr. Zia ur Rehman Research Officer PFI Jaba Manshehra
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INTRODUCTION:
Necrotic enteritis (NE) is the most common and financially devastating bacterial disease in modern broiler farming. Early signs of an NE outbreak are often watery feces and diarrhea, and an increase in mortality, that may not be significant. A strong dehydration is observed. The skin is stretched on or adhered to body musculature and is barely removed. Chickens at the age of 25 weeks are usually affected. NE is also encountered in less particularly near the period of the beginning of egg laying or post-egg laying. Necrosis commonly associated with necrotic enteritis in chickens, marked congestion of liver, responsible for its dark red to black appearance, is present. However, the depression of growth rate and feed efficiency of birds become noticeable by day 35 due to anatomical damage and the subsequent reduction in digestion and absorption of food.

NE is a complex, multifactorial disease with many unknown factors that influence its occurrence and the severity of outbreaks. In particular, sporadic outbreaks of NE can occur frequently in farms where antibiotics are not used as growth promoters, coxical infections are not controlled, the husbandry practices is not strict.

Predisposing factors for the rapid proliferation of *C. perfringens* and the onset of NE include other dietary and husbandry factors such as damage to the intestinal mucosa through coxical infection or a change in the normal intestinal microflora as a result of a change in diet formulation, such as inclusion of a high level of viscous cereal grains and/or animal by-products like fish and meat meal.



What causes Necrotic Enteritis?

Clostridium perfringens, a spore-forming, Gram-positive, anaerobic bacterium, causes a variety of diseases throughout the animal kingdom. Each disease in each animal species tends to be caused by particular strains of *C. perfringens* and is defined by the tissue tropism and toxin profile of the bacterium.

It is an infectious disease caused by *Clostridium perfringens*, which is a gram-positive, anaerobic bacterium that can be found in soil, litter, dust and in low levels in the intestine of healthy birds. *Clostridium perfringens* only causes NE when it transitions from non-toxin producing type to toxin producing type. There are five types of *C. perfringens* (A, B, C, D and E) which produce a number of toxins (alpha, beta, epsilon, zeta and CPB). The virulence agent is *C. perfringens* perfringens, mainly from type A and more rarely from type C. The produced "A" and "P" toxins from *C. perfringens* type A and type C respectively, are responsible for the necrosis of intestinal mucosa. The toxin is an enzyme (phospholipase C), it is believed to be a key to the occurrence of NE. However, a recent study has shown that an isolate that does not produce A toxin can still cause disease and is also highly infectious (Wolf 2018). NE has recently been identified in disease causing *C. perfringens* strains.

- Signs**
- Depression, • Ruffled feathers, • Inappetence, • Closed eyes, • Intermittent CPB, • Colored diarrhea, • Sudden death in good condition (chicks).
- Post-mortem lesions**
- Small intestine (usually middle to distal) thickened and distended
 - Intestinal mucosa with pale, granular membrane
 - Intestinal contents may be dark brown with necrotic material
 - Reflex of bile-stained liquid in the crop if upper small intestine affected
 - Affected birds tend to be dehydrated and to be refractory to medication.



Diagnosis

A presumptive diagnosis may be made based on flock history and gross lesions. Confirmation is on the observation of abundant rods in smears from affected tissues and a good response to specific medication, usually in less than 48 hours.

Treatment

Penicillins (e.g. phenoxymethyl penicillin, amoxicillin), in drinking water, or Bacitracin in feed (e.g. 100 ppm). Water medication for 3-5 days and in-feed medication for 5-7 days depending on the severity. Prevention

Penicillin in feed is preventive, high levels of most growth promoters and normal levels of ionophore anticoccidials also help. Probiotics may limit multiplication of bacteria and toxin production. In many countries local regulations or market conditions prevent the routine use of many of these options. Outbreaks of NE can be effectively prevented by including antibiotics such as bacitracin and avilamycin in the feed. In addition, an effective control of coxical infections can greatly reduce the risk of NE outbreaks. Furthermore, if antibiotics are not used in the feed, strict on-farm hygiene management practice, good climate control of the buildings.

GENERAL INTRODUCTION ABOUT BEHAVIOR, CHARACTERISTICS, PRODUCTS AND MEDICAL IMPORTANCE OF OSTRICH

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The ostrich is largest living bird and have biggest eggs compare to all living birds. Ostrich do not fly but run faster with the speed of 65 kilometer per hour. It has biggest eyes as compare to all land animals. Ostrich have large legs and neck but small head. The average size of male ostrich is 6 to 9 feet tall while female size is 5 to 6 feet. Ostriches mainly feed on plant matter and also eat insects. Without drinking water ostrich can survive for several days.



Semi-Arid areas are best all over the world.

The breeding season
Ostriches are seasonal breeders, breeding occur in specific season of the year. The breeding and mating season lasts from 6 to 8 month every year on average but it also depends on latitude and altitude of that specific region. In the northern hemisphere, breeding begins in March and ends in August, while in southern hemisphere region it starts from August and ends in March.



Behavior and Characteristics

Ostriches are wild, confident and aggressive bird hold its head and neck high, with the front of the body tilted upwards and the tail up, while a submissive bird will hold its head low and its tail down. They are mostly like to live in Arid, Semi-Arid and grassy plains lands, however they avoid wooded areas. Females and highly dense populated bodies Arid. Ostriches are mostly active at day time for their feeding and chatting. Except displaying, nesting and rearing they spend most of day light on their feet. At night, mostly they are inactive unless they were disturbed.

Meat
Ostriches produce cholesterol free and red meat which is similar in taste to Beef and veal meat and its nutritive value is also greater than beef and veal but it all depends on the age at the time of slaughter. It must contain high protein and less fat. A recent study carried by United States Department of Agriculture (USDA) in which they compare the nutritive value of beef and chicken meat with ostrich meat. The study results clearly indicates that ostrich meat is better than beef and chicken meat from health point of view because it contains less fat and less cholesterol as compare to other type of meats.

The consumer awareness about high cholesterol level in circulatory system which increase the incidence of heart attack, blockage of veins, and other heart and cardiovascular difficulties, increases the demand of ostrich meat in all over the world because it is safe as compare to other meats. The latest reports show that current production of ostrich meat is not enough to fill the requirement of most in some countries like Japan, America and Europe



Ostrich Eggs

Ostrich being a largest bird in the world we think that the egg size is also greater than other birds. In fact, the egg size is only 15% to 20% of the body size of the bird. The length of egg is 17x19 cm and width is 14x15 cm, the eggs vary from white to yellowish color.

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Ostrich Skin

Ostrich skin is one of the most luxurious leather. It is thick and soft and also used in manufacturing of shoes, purses, bags and jackets.

Medical importance

Ostrich body parts are also used for medical purpose in different human diseases like its leg tendon are used to replace torn tendon in humans because its tendon are strong and long enough to support human leg. In another advance research ostrich eyes are used in cornea transplant. Ostrich eye can see up to 12 km and its cornea is large it will be fit in human eye after trimming. Furthermore, ostrich brain is also used for the treatment of Alzheimer's disease.

Ostrich products

In last few decades ostrich farming is most profitable project among agricultural farming projects. Its farming are called "the farms of the future" due to large variety of possible products and their profitable potential. Most common products of ostrich farming are meat, feathers and hide.

Feathers

Ostrich feathers are most commonly used for dusting of equipment and fine machinery as well as also use in decoration of house, office and in fashion industry. The quality of feathers produced in Africa is better than those produced in Europe and America because feathers comes from Arid and

	Fat(gms)	Calories	Iron (mg)	Cholesterol (mg)	Protein %
Ostrich	2.50	140.00	3.20	83.00	26.90
Beef	9.30	211.00	3.00	86.00	29.90
Chicken	7.40	190.00	1.20	89.00	28.90
Turkey	5.00	170.00	1.80	76.00	29.30



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