UNIVERSITY OF VETERINARY AND ANIMAL SCIENCES LAHORE

Program IBC-2019 & National Livestock Show

For More Information

www.ibc2019.uvas.edu.pk

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Program International Buffalo Congress (IBC) 2019 & National Livestock Show

18-20th February, 2019

Hotel Pearl Continental Lahore, Pakistan

Congress Theme

"Subsistence to Commercialization"

Oral and Poster Presentations

Congress Secretariat

University of Veterinary and Animal Sciences, Lahore-5400 Pakistan

Tel: +92-42-9213653 Fax: +92-42-9211461 Email: info.ibc2019@uvas.edu.pk www.ibc2019.uvas.edu.pk

IBC 2019 Abstracts: Brief Summary!

Greetings to all the *Participants* and *Foreign Delegates* of International Buffalo Congress (IBC2019). We are privileged to share that ten thematic areas of buffalo research were selected by the IBC committee for this congress, namely: *Buffalo Health, Buffalo Nutrition & Feed Resources, Biotechnology, Buffalo Physiology, Buffalo Reproduction, Socioeconomic Aspects of Buffalo Production, Buffalo Management, Buffalo Breeding & Genetics, Environmental Aspects of Buffalo Production, Value Addition of Buffalo Meat & Meat Products and Value Addition of Buffalo Milk & Milk Products*. A website (http://ibc2019.uvas.edu.pk/) and an Abstract Information Management System - AIMS (http://aims.uvas.edu.pk/LAMS/login.aspx) were developed by the IT Centre (UVAS).

An overwhelming response was received and a total of 270 abstracts from all over the Pakistan and buffalo rearing countries were received. These abstracts were peer reviewed. Two hundred abstracts were accepted while 70 abstracts were rejected by the Technical Reviewers with 25 % rejection rate. The accepted abstract were selected for 102 oral presentations and 98 for the posters. Apart from large number of scientists from all over Pakistan, significant number of abstracts were also received from many buffalo rearing countries. These include Australia, Bangladesh, Bulgaria, Canada, China, Egypt, India, Iran, Iraq, Italy, Nepal, Philippines, Sri Lanka, Sudan, Thailand, UAE and USA.

We are highly impressed by the receipt of attention from researchers, scientists, practitioners, breeders, industry and students from all over Pakistan and around the globe to participate and be part of IBC2019 which is being organized in Lahore, Pakistan. It is very important indication of a great concern and interest of buffalo scientists and breeders to share and express the ideas and experiences among each other to help solve the problems in many areas of buffalo research.

The ***Scientific Program*** of IBC2019 offers excellent quality Plenary and Keynote Speakers along with short Oral and poster presentations. The entire program of IBC2019 is divided into an inaugural, plenary and 14 different technical and concluding sessions. Above all it also includes ***Buffalo Breeders& Industry Forum*** to discuss the field oriented problems related to the Buffaloes and to translate basic research into practical application. Hopefully these discussions will result in enrichment of knowledge of all participants.

We are thankful for the services rendered by the committee members of IBC 2019 and the excellent IT support provided by IT Department UVAS.

UNIVERSITY OF VETERINARY AND ANIMAL SCIENCES LAHORE

Congress Information

General Information

Location:

The congress will be held at Pearl Continental Hotel, Mall Road, G.O.R. - I, Lahore, Punjab. There are frequent rides (Taking 30 minutes) from *Allama Iqbal International Airport*, Lahore to PC Hotel, Lahore. The distance between airport and congress venue is 15 km. Lahore is the second biggest city in Pakistan. It is the capital of the province of Punjab. It is also known as the 'City of Gardens' because of its beautiful parks and gardens. This city is known for its rich culture and lively atmosphere.

Schedule of Events:

The on-site registration, inaugural session and reception dinner will be held on Monday, February 18, plenary sessions on different thematic areas will be held on 18, 19 February followed by closing session on February 20 evening. Post congress tour is scheduled for foreign delegates at Semen Production Unit Qadirabad on February 21, 2019.

Registration Hours:

On-site registration desk will be located in Pearl Continental hotel Lahore on January 18 and 19.

Important Contacts:

Flights and accommodation:	Dr. Rana M. Ayyub	(+923004297488 drranaayyub@uvas.edu.pk)
Technical matters:	Prof. Dr. Nasim Ahmad	(+923004800650 nasimahmad@uvas.edu.pk)
Local transportation:	Prof. Dr. M. Arif Khan	(+923009229260 marif@uvas.edu.pk)

Media Desk:

A media desk in foyer area of Hotel Pearl Continental will be available throughout the congress to provide a space to media representative to work.

Side line Meeting:

Side line meetings have been envisaged. A) Sino-Pak joint Research Center for buffalo B) Meeting of Minister Livestock Punjab Pakistan and country Representatives.

Camera, Video Camera and Cell Phone Policy:

Use of cameras, video cameras, tablets or smartphones (for calls and audio/ video recordings) is prohibited during oral and poster presentation to minimize disruption and unauthorized dissemination of data.

Distinguished Foreign Speakers at IBC 2019!

Prof. Dr. Kehuan Lu
Professor, Director Animal Reproduction Institute, College of Animal Science and Techonlogy, SKL for Conservation & Utilization of Subtropical Agro-bioresource, Guangxi University, Nanning, China. Prof. Lu is a dextrous buffalo researcher and he has worked intensively on advanced reproductive biotechnologies in buffalo. He will be giving a talk on "Strategies to improve reproductive efficiency of Swamp buffalo in China"
kehuanlu@163.com

Prof. Antonio Borghese
General Secretary International Buffalo Federation. He is from Rome, Italy. He is consultant for buffalo development in FAO. His areas of expertise are buffalo breeding and genetics. He is a sought-after speaker for buffaloes all over the world. His presentation is in Plenary on "Milk flow variability and economic implications"
antonioborghese@live.it

Prof. Dr. Bhuminand Devkota
Veterinary Science (Theriogenology), Coordinator, Post Graduate Studies Center, Agriculture and Forestry University, Rampur, Chitwan, Nepal. He is the current president of Asian Buffalo Association. His presentation is in Plenary on "Techniques of improving fertility of anestrus buffaloes in Nepal"
bdevkota@afu.edu.np

Dr. Tayyab Rahil
Director at Reproductive Biology/IVF, Baystate Medical Center, USA. He did his DVM & Masters (Animal Reproduction) from Pakistan and pursued his PhD from University of Minnesota, USA. He is a certified HCLD. He will be giving a talk on ***"Essentials of Embryo Culture System"***
tayyab.rahil@baystatehealth.org

Prof. B.M.A. Oswin Perera
Professor of Farm Animal Production & Health (Retired) and Visiting Professor, Faculty of Veterinary Medicine & Animal Science, University of Peradeniya, Sri Lanka. He is very experienced and well-reputed buffalo scientist from Sri Lanka. He has written several reviews on different aspects of buffalo reproduction. His presentation is in Plenary on "Buffalo production in Sri Lanka: current situation and future perspectives"
oswinperera@yahoo.co.uk

Distinguished Foreign Speakers at IBC 2019!

Dr. Libertado C. Cruz
Ex. Executive Director Philippine Carabao Center. Dr. Cruz got his basic degree in Animal Sciences from Unversity of the Philippines and pursed PhD in Animal Reproductive Physiology from the University of Illinois, USA. He is an able buffalo researcher from Philippine and he will be giving a talk on "Imperatives for International Collaborations to Enhance Genetic Improvement of Water Buffaloes"
pcc_oed@yahoo.com

Prof. Dr. Metha Wanapat
Research Professor at Khon Kaen University, Thailand. Visiting Professor at MTTK Research Institute, Finland has been awarded an Outstanding Professor in Science and Technology of Thailand. Presentation on "Buffering rumen pH and improving fermentation using rumen enhancers for buffaloes"
metha@kku.ac.th

Prof. Dr. Kazim Raza Chohan
Professor of Andrology at the SUNY, Syracuse, New York, USA. He did his DVM & Masters (Animal Reproduction) from Pakistan and pursued his PhD from University of Minnesota, USA. He is a certified HCLD. His early work on buffalo has been published in peer reviewed journals. His presentation is on "Detection of estrus in dairy buffalo: is she a convenient culprit?"
chohank@upstate.edu

Professor Dr. Amir Niasari-Naslaji
Distinguished Professor in Animal Reproduction Department of Theriogenology Faculty of Veterinary Medicine University of Tehran. He is a multidirectional and skillful theriogenologist with expertise on embryo production in buffalo and camel. His presentation is on "Effect of zebularine, epigenotoxic modifier on the in-vitro development of buffalo-bovine interspecies cloned embryos"
niasarinaslajiamir@gmail.com

Prof. Dr. Prem Kumar Uppal
President, Sahiwal and Indigenous Cattle Society & Patron Indian Association of Microbiologists. Director NRC on Equines and CIR on Buffaloes. His presentation is in Plenary on "Need for risk assessment for international movement of Buffaloes germplasm and their products"
profuppal@gamil.com

Distinguished Foreign Speakers at IBC 2019!

Prof. Dr. Giuseppe Campanile
Professor of Animal Science, Department of Animal Breeding, Science and Food Health, Veterinary Faculty of Naples University, Federico II-Italy. He has worked intensively in the field of buffalo reproduction and embryo transfer. His presentation is on "Corpus luteum function and embryo development in river buffalo"
giucampa@unina.it

Dr. Hamidreza Naderfard
Former Head Expert of Buffalo Development in Iran, Former Secretary Of Iranian Committee Of Agriculture Conservation And Former Deputy Head, Livestock Conservation, Ministry of Agriculture Tehran, Iran. His presentation is in Plenary on "Importance of buffalo conservation in Asian buffalo raising countries"
hnaderfard@yahoo.com

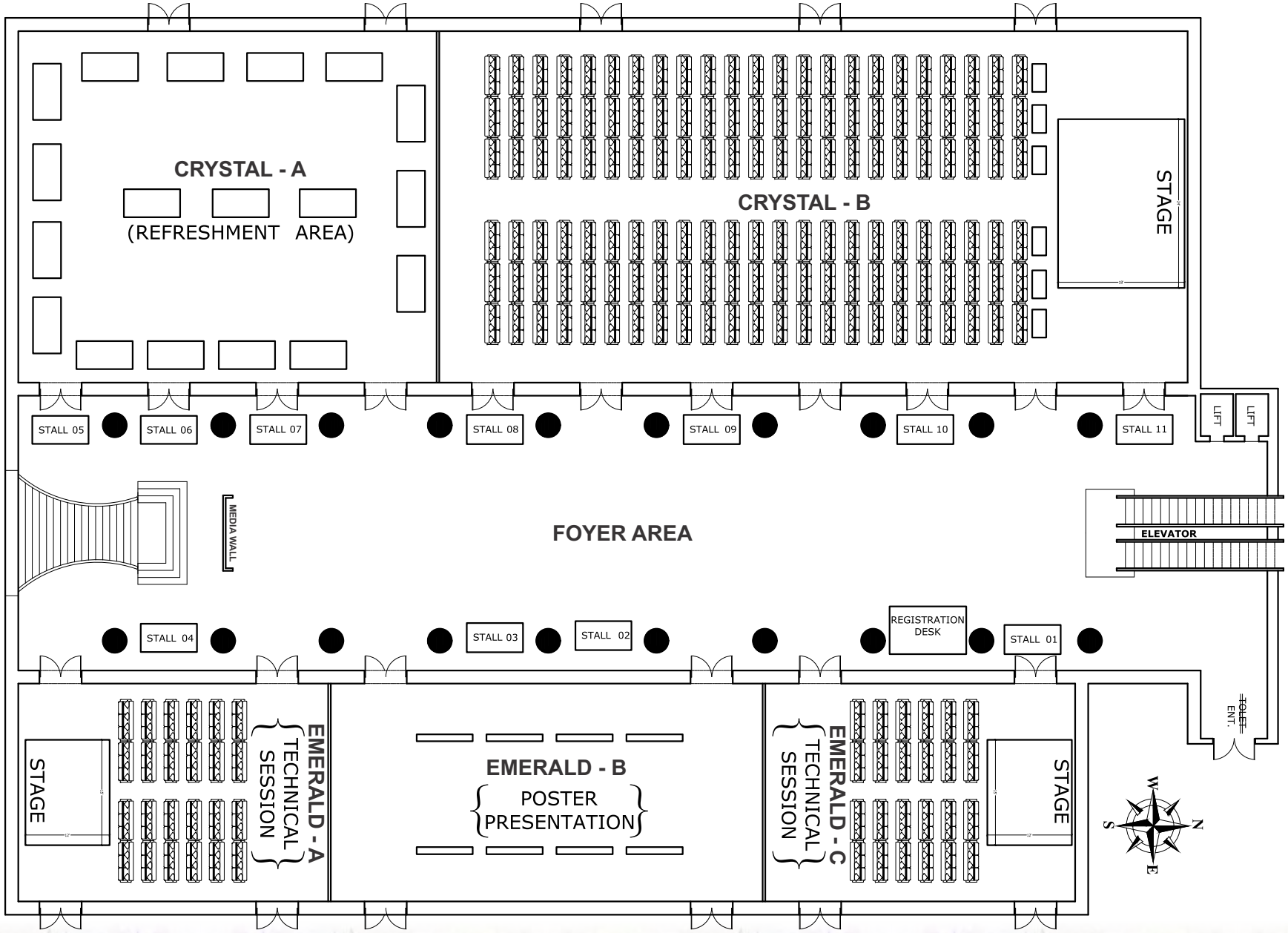
Prof. Dr. Mithat Direk
Agricultural Economy, Selcuk University, Konya, Turkey. Dr. Direk received his B.S., M.S., and Ph.D. degrees from Çukurova University in the City of Adana, Turkey. He will be giving a talk on "Impact of Foot-and-Mouth disease on livestock production in dairy sector"
mithatdirek@gmail.com

Dr. David McGill
Research Fellow Faculty of Veterinary and Agricultural Sciences The University of Melbourne, Werribee Victoria 3030 Australia. From last 10 years he is involved in extension work (ASLP) in Pakistan for improving the farming standards in rural areas of the country. His presentation is in Plenary on "Improving on-farm efficiency and profitability of smallholder dairy-beef farmers in Pakistan"
david.mcgill@unimelb.edu.au

Henry and Inge Koskamp
They are one of the most outstanding buffalo farmers in Western World. They are especially traveling from Canada to Pakistan for joining us in progressive buffalo farmers session and will participate in "Farmer Industrial Forum"
hikoskamp@gmail.com

Mr. S M Rajiur Rahman
Ph.D Research Fellow, Department of Dairy Science, Bangladesh Agricultural University, Mymensingh 2202. Bangladesh. His presentation will be on "Dairy Buffalo production system under Semi-intensive condition at the coastal area of Bangladesh"
bdevkota@afu.edu.np

FLOOR PLAN INTERNATIONAL BUFFALO CONGRESS
Pearl Continental Hotel, Mall Road Lahore



Instructions for Moderators!

Thank you for agreeing to be a Moderator of the session at International Buffalo Congress 2019.
Below are some tips/instructions to assist you with the said assignment. **Most importantly, please ensure you start and finish all presentations on time and keep order in the program**. Please note: a "Session" is the full time slot between one break and the next (i.e. all inclusive, consecutive presentations that run from the end of morning tea until lunch)

Before the session:

1. Review the abstracts for your session which have already been shared with you via email. Try to find some basic information about the presenters, chair and co-chair of your session for their introduction before inviting them on stage for their talk.
2. Please go to your hall 15 minutes prior to the commencement of your session to meet the presenters and familiarise yourself with the hall (As mentioned in the program book clearly)
3. Introduce yourself to the IT technician allocated to your hall for helping you in setting the presentations on multimedia.
4. You are advised to go through the presentations of the presenters to judge whether it can be completed in given time span or not. There are three types of speaker categories in IBC 2019. A plenary session (15 minutes) Keynote (10 minutes) and oral presentation (10 minutes). A presenter should complete his/her presentation three minutes before the allocated time so that we can spare some time for Q&A session. Advise the presenters that you will be signaling the time and ringing the bell when they have to stop.
5. Presentations of your session's speakers will be shared with you soon via email by organizing committee. If a presenter arrives with a USB to load slides, please direct them to the IT technician. The technician in your hall will also assist the presenters and trouble shoot technical issues if they arise.
6. In your allocated halls, there will be a Q&A microphone on a stand in the aisle. Ask a member of the audience/IT technician to be a microphone 'runner', if required, or direct delegates asking questions to go to the microphone.

During the Session:

1. **Begin the session on time and ask that all electronic devices are turned to silent**. It is the policy of IBC 2019 that use of cameras, tablets and smartphones (for calls or audio/video recording) is prohibited during oral and poster presentations to minimize disruptions and unauthorized dissemination of data.
2. Welcome the audience and announce the session topic/theme. Introduce yourself, Session Chair, Session co-chair.
3. Please use your phone to keep to time. Your phone is more accurate than having individual clocks.
4. Introduce each presentation with the title, the presenter, the presenter's affiliations and biography overview. Presenters will be asked to sit in the front row of the hall so they can move to the rostrum quickly at the end of the previous presentation.
5. If a presentation is withdrawn or a presenter does not arrive, bring the next presentation forward, use the time for questions.
6. **Please ensure each session starts and finishes on time**. The length of each presentation is listed in the program.
7. At the end of each presentation be prepared to ask a question yourself, if time allows and no questions are forthcoming from the audience.
8. Do not ask any questions if the presenter has used all their allocated time.

After the session:

1. After acknowledging the last presenter in your session, invite the Chair to sum up the session with their comments/ recommendations. Request the chair and co-chairs to exchange the shields. At the same time inform audience of any break, lunch, or other sponsored activities that evening following your session.
2. If your session is followed by a break or lunch inform audience when the next session will begin.
3. Remind the audience of exhibitors and poster sessions in the hall.

Inaugural Ceremony!

Time	Activity
08:45	Guests and Participants to be seated
09:00	Arrival of the Chief Guest, Sardar Usman Ahmed Khan Buzdar, Chief Minister, Punjab
09:05	National Anthem
09:10	Recitation from the Holy Quran
09:15	Welcome address by Meritorious Prof. Dr. Talat Naseer Pasha (*S.I.*), Vice Chancellor UVAS
09:30	Address by Mr. Ahsan Waheed, Secretary, Livestock and Dairy Development, Government of the Punjab
09:40	Address by Dr. Antonio Borghese, Secretary, International Buffalo Federation
09:50	Address by Sardar Husnain Bahadar Dareshak, Minister of Livestock and Dairy Development, Punjab
10:05	Distribution of Awards by the Chief Guest
10:15	Inaugural address by the Chief Guest
10:30	Inauguration of exhibition/ Refreshments

Monday 18th February, 2019 (Day 1)

08:00 – 16:00	Registration
09:00 – 10:30	Inaugural Ceremony (Crystal B Hall)
10:30 – 11:00	Tea/Coffee

Plenary Session

(1100-1300)

Crystal B Hall

Topic: Subsistence to Commercialization

Chair: Prof. Dr. Antonio Borghese (Italy)

Co-Chair: Dr. Mansoor Ahmed, DG (E) L&DD Punjab

Moderator: Dr. Muhammad Zahid Tahir, UVAS

Time	Title	Speaker	Country
11:00 – 11:20	Milk flow variability and economic implications	Antonio Borghese	Italy
11:20 – 11:40	Strategies to improve reproductive efficiency of swamp buffalo in china	Kehuan Lu	China
11:40 - 12:00	Need for Risk Assessment for international movement of Buffaloes germplasm and their products	Prem Kumar Uppal	India
12:00 – 12:20	Buffalo production in Srilanka: current situation and future perspectives	Oswin Perera	Sri Lanka
12:20 – 12:40	Improving on-farm efficiency and profitability of smallholder dairy-beef farmers in Pakistan	David McGill	Australia
12:40 – 13:00	Techniques of improving fertility of anestrus buffaloes in Nepal	Bhuminand Devkota	Nepal
13:00 – 14:00	Lunch/ Prayer break		
1400-1500	Evaluation of Posters for 1st, 2nd and 3rd Prizes		

Scientific Program Day 1

	Technical Session (Crystal B Hall) ***Buffalo Health-I*** (1400-1505) Chair: Prof. Dr. Zafar Iqbal Randhawa, (VC, UAF) Co- Chair: Prof. Yongsheng Liu (China) Moderator: Dr. Haroon Akbar, UVAS		Technical Session (Emerald A Hall) ***Buffalo Nutrition and Feed Resources-I*** (1400-1505) Chair: Dr RK Sethi (India) Co- Chair: Dr Sher Khan, DG L&DD KPK Moderator: Dr. Muhammad Afzal Rashid, UVAS		Technical Session (Emerald C Hall) ***Biotechnology-I*** (1400-1505) Chair: Prof. Dr. Kehuan Lu (China) Co- Chair: Prof. Dr. Zafar Iqbal Qureshi, Dean FVS, UAF Moderator: Dr. Sehrish Firyal, UVAS	
Time	Title	Speaker (Name/ Country)	Title	Speaker (Name/ Country)	Title	Speaker (Name/ Country)
14:00 – 14:15 **Keynote**	Prospects for the establishment of Foot and Mouth Disease Free Zone in Pakistan	Muhammad Afzal/ **Pakistan**	Effect of dried moringa leaves as feed additive on milk production and composition in Nili-Ravi buffaloes and Sahiwal cows	Shaukat Ali Bhatti/ **Pakistan**	Ovarian follicle response to GnRH and steroids in River buffalo	Amir Niasari Naslaji/ **Iran**
14:15 – 14:25	Molecular characterization and in-vivo therapeutic trial against tropical bovine theileriosis in water buffaloes	Shahid Hussain Farooqi/ **Pakistan**	Scope of increasing nitrogen use efficiency in peri-urban milking buffaloes	Ghulam Habib / **Pakistan**	A preliminary observation of introduced italian mediterranean milk buffalo	Liu Qing-you/ **China**
14:25 - 14:35	Prevalence of Salmonella and E. Coli in diarrheic calves	Jawaria Ali Khan/ **Pakistan**	Efficient use of protein feeding in lactating buffaloes	Illahi Marghazani/ **Pakistan**	River buffalo: pretentious and astounding animal of choice in temperate zones of Asia	Maryam Javed/ **Pakistan**
14:35 - 14:45	Association of risk factors with Mastitis in dairy buffaloes	Abid Hussain/ **Pakistan**	A novel approach of screening identification and characterization of lignin-degrading fungi revealed from rumen of water buffalo	M. Zahid Farooq/ **China**	Development of multiplex PCR assay for simultaneous detection of Brucella spp., Leptospira spp. and Campylobacter fetus in breeding bulls of Punjab, Pakistan	Saher Islam/ **Pakistan**
14:45 - 14:55	Prevalence status and serotype distribution of bluetongue in buffalo herds originating from Punjab province Pakistan	M. Zubair Shabbir/ **Pakistan**	Effects of alkaly treated rice husk on milk production, its composition, nutrient digestibility and blood metabolites in lactating Nili Ravi buffaloes	Rahat Naseer/ **Pakistan**	Embryo production and preservation of fuzhong buffalo in Quangxi province of China	S. Qin/ **China**
14:55 - 15:05	A study on the seroprevalence of Brucellosis in aborted cattle and buffaloes in Hyderabad-Pakistan	Shahzad Khan/ **Pakistan**	Recent advances in buffalo nutrition	M. Naveed ul Haq/ **Pakistan**	Molecular screening of a candidate stillbirth gene (mimt1) partial sequence in Nili-Ravi buffalo bulls	Kanwal Zahra/ **Pakistan**
15:05 - 15:30	**Tea/ Coffee**					

	Technical session (Crystal B Hall) ***Buffalo Reproduction-I*** (1530-1635) Chair: Prof. Dr. Giuseppe Campanile (Italy) Co-Chair: Dr. Gianluca Neglia (Italy) Moderator: Dr. Amjad Riaz, UVAS		Technical Session (Emerald A Hall) ***Socio-economic Aspects of Buffalo Production*** (1530-1635) Chair: Dr. David McGill (Australia) Co-Chair: Prof. Dr. Amir Niasari Naslaji (Iran) Moderator: Dr. Rana Ayub, UVAS		Technical Session (Emerald C Hall) ***Buffalo Management*** (1530-1635) Chair: Dr. Libertado C. Cruz (Philippines) Co-Chair: Dr. Muhammad Abdullah Moderator: Dr. Hifz-ul-Rehman, UVAS	
Time	Title	Speaker (Name/ Country)	Title	Speaker (Name/Country)	Title	Speaker (Name/ Country)
15:30 - 15:45 **Keynote**	Detection of estrus in dairy buffalo: is she a convenient culprit? – 17	Kazim Raza Chohan/ **USA**	Climate change and sustainable buffalo production in Pakistan: issues and options	Inam ur Rahim/ **Pakistan**	Weaning-induced stress inhibits the activities of leukocyte lysosomal enzymes in buffalo-calves	Anas Qureshi/ **Pakistan**
15:45 - 15:55	Reproductive disoders in dairy buffaloes- Status and Challenges	Nematullah/ **Pakistan**	CPEC and buffalo development in Balochistan-a regional perspective	Muhammad Azam Kakar/ **Pakistan**		
15:55 - 16:05	Effect of CIDR-GnRH based synchronization on pregnancy during low breeding season in delayed pubertal Nili- Ravi buffalo heifers	Mubbashar Hasan/ **Pakistan**	Economic losses to buffalo farmers due to late diagnosis of pregnancy in Murrah breeding tract of Haryana	Rekha Yadav/ **India**	Current status of clean milk production and management of mixed buffalo and cattle dairy herds in peri-urban areas of Faisalabad, Punjab, Pakistan	Muhammad Tariq/ **Pakistan**
16:05 - 16:15	Prevalence of various genital disorders in buffalo under the climatic conditions of district Poonch Azad Jammu and Kashmir	Muhammad Zubair/ **Pakistan**	Perception of buffalo rearing Gujjars regarding scientific animal husbandry practices	Shafkat Ahmad Khandi/ **India**	Effect of bovine somatotropin administration on welfare in Nili Ravi buffaloes	Muhammad Qamar Shahid/ **Pakistan**
16:15 - 16:25	Seroprevalence of Brucella abortus in Nili Ravi buffaloes in district Rajanpur Punjab, Pakistan	Ijaz Ahmad/ **Pakistan**	Feasibility of artificial insemination network for Egyptian buffalo development	Ahmed Mashhour/ **Egypt**	Effect of different ambient management interventions on the milk production and physiological performance of lactating Nili-Ravi buffaloes during hot dry summer	Jalees Bhatti/ **Pakistan**
16:25 - 16:35	Comparative efficacy of methylacetoxy progesterone sponges and CIDR for synchronization of estrus in acyclic Nili-Ravi buffaloes	Zafar Iqbal Qureshi/ **Pakistan**	Buffalo as a socio- economic anchor and introduction of buffalo zones for sustainable buffalo farming in Punjab, Pakistan	Usman Tahir/ **Pakistan**	Impact assessment of training program on adoption of livestock husbandry techniques by buffalo farmers	Intizar Ahmad/ **Pakistan**
19:00 – 22:00	**Gala Dinner**					

Tuesday 19th February, 2019 (Day 2)

08:00 – 16:00 Registration

0900-1000 Evaluation of Posters for 1st, 2nd and 3rd Prizes

	Technical Session (Crystal B Hall) ***Buffalo Health-II*** (0900-1035) Chair: Prof. Dr. Lu Yangqing (China) Co-Chair: Dr Matloob Hussain Raja, DG L&DD AJK Moderator: Dr. Zahid Iqbal, UVAS		Technical Session (Emerald A Hall) ***Biotechnology-II*** (0900-1035) Chair: Dr Hua Gohua (China) Co-Chair: Dr. Prof. Dr Azam Kakar (Quetta) Moderator: Dr. Maryam Javed, UVAS		Technical Session (Emerald C Hall) ***Buffalo Breeding & Genetics*** (0900-1035) Chair: Prof Dr. Khalid Javed Co-Chair: Dr. Maqsood Akhtar Moderator: Dr. Musarrat Abbas, CUVAS	
Time	Title	Speaker (Name/ Country)	Title	Speaker (Name/ Country)	Title	Speaker (Name/ Country)
09:00 – 09:15 **Keynote**	Livelihood upliftment through breed improvement and commercialization of buffalo farming system in Arghakhanchi district of Nepal	Lok Paudel/ **Nepal**	A preliminary study on specific role of micro RNA in buffalo mammary epithelial cells	Hasan Riaz/ **Pakistan**	Buffalo breeding in Pakistan – status and prospects	Muhammad Sajjad Khan/ **Pakistan**
09:15 – 09:25	The epidemiology of infectious diseases in buffaloes under different climatic conditions in Khyber Pakhtunkhwa, Pakistan	Hasan Mushtaq/ **Pakistan**	Effect of synthetic peptide on antioxidant in mice derived from Lactoferrin sequence in buffalo milk	Pan Yang/ **China**	Heritability estimates of some body measurements in Nili Ravi buffaloes	Riaz Hussain Mirza/ **Pakistan**
09:25 - 09:35	Prevalence and risk factors of Anaplasmosis in buffaloes of district Charsadda, Khyber Pakhtunkhwa, Pakistan	Irfan Khattak/ **Pakistan**	Effect of ovum pick-up frequency on quality of buffalo oocytes	S. Qin/ **China**	Interdependence of lactation milk yield from lactation length in Nili-Ravi buffaloes in Pakistan	Abdul Waheed/ **Pakistan**
09:35 - 09:45	E.coli toxin induced diarrhea can be ameliorated by catharanthus roseus in buffaloes: an in vitro model	Imtiaz Rabbani/ **Pakistan**	Molecular screening of complex vertebral malformation and citrullinemia carriers in Nili-Ravi buffalo breeding bulls	Wasim Shahzad/ **Pakistan**	Genetic evaluation of Nili-Ravi buffaloes in Punjab, Pakistan	Maqsood Akhtar/ **Pakistan**
09:45 - 09:55	Anti-tick activity of imidocloprid against Hyalomma marginatum in Nili Ravi buffalo (Bubalus bubalus indicus) at Multan, Pakistan	M Mazhar ayaz/ **Pakistan**	Identification of novel polymorphism in promoter region of lactoferrin gene and its relation with mastitis in Nili Ravi buffalo	Sehrish Firyal/ Pakistan	Genomics – a vibrant and viable possibility to improve Pakistani buffalo	Muhammad Moeen ud Din/ **Pakistan**
09:55 - 10:05	Distribution of bovine viral diarrhea virus (BVDV) antibodies in bovine population in central Punjab, Pakistan	M Arfan/ **Pakistan**	Improving the livelihood of smallholder farmers through integrating the whole-family extension approach within the dairy extension system of Pakistan	HM Warriach / **Pakistan**	Evaluation of breed parameters and entrepreneurship traits of Azikheli dairy buffalo in swat district of Northern Pakistan	Nadar Khan/ **Pakistan**

10:05 – 10:15	Pathogenic strains of Escherichia coli in buffaloes and their antibiotic resistance with special reference to extended spectrum beta lactamases	Altaf Bhat/ **India**	Exploring the genetic architecture of milk production traits in Nili Ravi buffalo	Asif Nadeem/ **Pakistan**	Importance of buffalo conservation in Asian buffalo raising countries	Naderfard Hamidreza/ **Iran**
10:15 - 10:25	Clinical prevalence of various diseases and disorders in buffaloes at veterinary teaching hospital faculty of veterinary sciences, Bahauddin Zakariya University, Multan, Pakistan	Tanveer Ahmad/ **Pakistan**	Epidemiological study of tick infesting buffalo in Khyber Pakhtunkhwa, Pakistan	Fathma Nawaz/ **Pakistan**	Imperatives for International Collaborations to Enhance Genetic Improvement of Water Buffaloes	Libertado C. Cruz/ **Philippines**
10:25 - 10:35	Impact of Foot-and-Mouth disease on livestock production in dairy sector	Mithat Direk/ **Turkey**	Anti-oxidative effect of l-lysine on post-thaw semen quality of Nili-Ravi buffalo bulls	Amjad Riaz/ **Pakistan**	Factors affecting production efficiency traits in buffaloes - a review	Kaifa Nazim/ **India**
10:35 - 11:00	**Tea/ Coffee**					

	Technical Session (Emerald A Hall) ***Buffalo Nutrition & Feed Resources-II*** **(1100-1235)** **Chair: Prof. Dr. Metha Wanapat (Thiland)** **Co-Chair: Dr Musaddaq Asif, CEO Lahore Feeds** **Moderator: Dr. M. Naveed-ul-Haq, UVAS**		**Technical Session (Emerald C Hall)** ***Buffalo Reproduction-II*** **(1100-1235)** **Chair: Prof. Dr Oswin Perera (Sri Lanka)** **Co-Chair: Dr Bhuminand Devkota (Nepal)** **Moderator: Dr. Muhammad Irfan-ur-Rehman Khan, UVAS**		**Crystal B hall** **Buffalo Farmers/ Industry Forum** **Panel Discussion** **(1100-1215)** **Chair: Mr. Balbir Singh Sidhu, Minister Livestock (India)** **Co-Chair: Sardar Hasnain Bahadar Dreshak Minister Livestock (Pak)** **Moderator: Prof. Dr. Talat Naseer Pasha**
	Title	Speaker (Name/ Country)	Title	Speaker (Name/ Country)	
11:00 – 11:15 **Keynote**	Breeding system of buffaloes in Bulgaria	Tzonka Peeva/ **Bulgaria**	Corpus luteum function and embryo development in river buffalo	Giuseppe Campanile/ **Italy**	· Dr. Tzonca Peeva Bulgaria · Henry Koskamp Canada · Mrs. Fatemeh Derisavi Iran · Saeed Hotiana Pakistan · Engr. Samiullah Pakistan · Farmer India · Hafiz Wasi Khan Pakistan
11:15 – 11:25	Impact of varying ratios of ruminally degradable to undegradable protein on digestion kinetics of wheat straw	Asif Javaid/ **Pakistan**	Mesopotamian Buffalo: Home tract and Challenges	Dr Khalid al-Fartosi/ **Iraq**	

11:25 - 11:35	Effects of lactobacillus plantarum, lactobacillus fermentum , lactobacillus casei and lactobacillus rhamnosus on the quality of sugarcane tops silage	Lu Zhang/ **China**	Non-invasive laboratory tool for successful evaluation of pregnancy diagnosis in buffalo under sub-tropical environment	Hamayun Khan/ **Pakistan**	
11:35 – 11:45	Effect of substituting wheat straw with maize stovers or maize cobs in total mixed ration on growth rate, nutrient digestibility and economic efficiency in buffalo calves	Muhammad Anjum/ **Pakistan**	outcomes of exogenous oxytocin administration on pregnancy rate, embryonic and foetal losses in Nili-Ravi buffalo	Saeed Murtaza/ **Pakistan**	
11:45 – 11:55	In situ neutral detergent fibre degradability of selected tropical forage as influenced by species, or developmental stage of the animal or forage to concentrate ratio in the diet	M. Naeem Tahir/ **Pakistan**	Effect of bio-stimulation on estrus expression and pregnancy rate in CIDR based synchronization protocol in Nili-Ravi buffalo	Aijaz Ali Channa/ **Pakistan**	
11:55 – 12:05	Effect of replacing cotton seed cake with palm kernel cake on milk production and nutrients digestibility in lactating nili-Ravi buffaloes	Shahzad Ashraf/ **Pakistan**	Current improvements in extender used for cryopreservation of buffalo bull semen	Ejaz Ahmad/ **Pakistan**	
12:05 – 12:15	The comparison of in vitro digestibility of diets containing Subabul leaves in cow and buffalo	Tahereh Mohammadabadi/ **Iran**	Anatomical, histological and microvascular-angiogenic changes in ovary and corpus luteum in different phases of estrous cycle of Nili-Ravi buffalo (Bubalus bubalis)	Mumtaz Hussain/ **Pakistan**	
12:15 – 12:25	Present condition of feeding practices, nutritional status and production performance of lactating buffaloes in different agro-climatic zone of Bangladesh	SM Rajiurrehman/ **Bangladesh**	Distribution of brucellosis in various suspected animal species and exposed personals of northern Khyber Pakhtunkhwa province, Pakistan	Mumtaz Khan/ **Pakistan**	**USAID Punjab Enabling Environment Project (PEEP) Grant Completion Ceremony of Buffalo Breeders Association** Chair: Muhammad Junaid, Chief of Party, USAID PEEP Moderator: Dr. Sana Ullah Bhatti, USAID PEEP
12:25 – 12:35	Enhancing profitability of smallholder farmers through improved market linkages in Punjab and Sindh	Humera Iqbal/ **Pakistan**	Effect of supplementation of extenders with different concentrations of glutamine glycine on cryopreservation of buffalo bull spermatozoa	Maqbool Ahmad/ **Pakistan**	
12:35 – 13:30	**Lunch/ Prayer Break**				

Scientific Program Day 2

	Technical Session (Crystal B Hall) ***Buffalo Health-III*** (1330-1435) Chair: Dr. PK Uppal (India) Co-Chair: Dr. Sabina Yovorova Yotkova (Bulgaria) Moderator: Dr. Shahid Hussain Farooqi, UVAS (Narowal)		Technical Session (Emerald A Hall) ***Value Addition of Buffalo Meat & Meat Products*** (1330-1435) Chair: Prof. Dr Sarwar (VC, Gomal) Co-Chair: Dr. Radena Nenova (Bulgaria) Moderator: Dr. Iftikhar Hussain Badar, UVAS		Technical Session (Emerald C Hall) ***Value Addition of Buffalo Milk & Milk Products*** (1330-1435) Chair: Prof. Tzonka Peeva (Bulgaria) Co-Chair : Dr. Muhammad Nasir (Engro Ltd.) Moderator: Dr. Muhammad Junaid, UVAS	
	Title	Speaker (Name/ Country)	Title	Speaker (Name/ Country)	Title	Speaker (Name/ Country)
13:30 – 13:45 **Keynote**	Use of Immuno-chromatography techniques in diagnosis of brucellosis in Livestock	Aneela Zameer Durrani/ **Pakistan**	Does implying post-slaughter technologies on local Pakistani buffalo breeds improves meat quality?	Muhammad Hayat Jaspal/ **Pakistan**	Buffering rumen pH and improving fermentation by rumen enhancers for buffalo production	Metha Wanapat
13:45 – 13:55	Efficacy of albendazole, pyrantel pamoate, carum copticum and mallotus philippensis against Toxocara vitulorum infestation in bovine calves	M. Zahid Iqbal/ **Pakistan**	Analysis of buffalo meat quality on the basis of various meat cuts at 18 and 26 months of age	Muhammad Yar/ **Pakistan**	Quality appraisal of mango flavored milk prepared from different combinations of Nili Ravi buffalo and Holstein Fresian cow milk	Saima inayat/ **Pakistan**
13:55 - 14:05	Histopathology: an old yet important technique to diagnose Paratuberculosis in non-descript water buffaloes	Arbab Sikandar/ **Pakistan**	Development and evaluation of beef sausages using different fat sources, shelf stable at ambient temperature	Kashif Nouman/ **Pakistan**	Issues and limitations of Pakistan's dairy sector; milk adulteration as hurdle of growth	Qamar uz zaman/ **Pakistan**
14:05 - 14:15	Molecular characterization and phylogenetic analysis of local isolates of Babesia species, Pakistan	Rimsha Farooq/ **Pakistan**	Buffalo beef value chain management from backgrounding to feedlot fattening	Kanwar Naeem/ **Pakistan**	Study on the stability of polydextrose in solidified buffalo yoghurt	li huang/ **China**
14:15 - 14:25	Field evaluation of a locally prepared montanide® adjuvanted combined hemorrhagic septicemia-mastitis vaccine in cows and buffaloes	Qudratullah/ **Pakistan**	Effect of different packaging technologies on color stability & tenderness of fresh and aged beef of spent buffaloes	Jamal Nasir/ **Pakistan**	Emergence of biofilm character and altered antibiogram in Staphylococcus aureus of buffalo milk	Amjad aqib/ **Pakistan**
14:25 - 14:35	Diaphragmatic hernia in buffaloes: clinico-haemato-biochemical findings and long term follow up	Ashiq Hussain/ **India**	Molecular characterization and pcr genotyping of clostridium perfringens from raw mutton, carabeef and their commercial products	Shabu Shaukat/ **India**	Technological and scientific aspects of mozzarella cheese: prepared from buffalo and cow milk	Ayesha sameen/ **Pakistan**
14:35 – 16:00					**Concluding Ceremony (Crystal B Hall)**	
16:30					**Tea/ Coffee**	

Concluding Ceremony!

Time	Activity
14:45	Participants and Guests to be seated
15:00	Arrival of the Chief Guest, Mr. Muhammad Sarwar, Chancellor, Governor of the Punjab
15:05	National Anthem
15:10	Recitation from the Holy Quran
15:15	Address by Mr. Ahsan Waheed, Secretary, Livestock and Dairy Development, Government of the Punjab
15:25	Recommendations of IBC2019 by Dr. Ghulam Habib
15:35	Comments by foreign delegates
15:45	Comments by USIAD-PEEP Representative
15:55	Address by Mr. Balbir Singh Sidhu, Minister, Animal Husbandry and Dairy Development, Punjab, India
16:00	Address by Sardar Husnain Bahadar Dreshak, Minister of Livestock and Dairy Development Department, Government of the Punjab
16:10	Distribution of Awards/ Shield by the Chief Guest
16:20	Address by the Chief Guest
16:30	Vote of thanks by Meritorious Prof. Dr. Talat Naseer Pasha (*S.I.*), Vice Chancellor, University of Veterinary and Animal Sciences, Lahore
16:35	Refreshments

Poster Presentations for Monday 18th February 2019

Poster No.	Abstract Code	Submitted by email	Session	Title
1.	2019-IBC-133	Hammad.rehman@uvas.edu.pk	Biotechnology	Comparison of analytical sensitivity and specificity of reverse transcription loop-mediated isothermal amplification (rt-lamp) and reverse transcription polymerase chain reaction (rt-pcr) for detection of bovine pestivirus
2.	2019-IBC-288	Biotech@gxbri.com	Biotechnology	Construction and identification of eukaryotic expressional vector of buffalo 18kda-bfgf gene
3.	2019-IBC-295	Biotech@gxbri.com	Biotechnology	The effect of season on buffalo oocyte maturation and embryo development via somatic cell nuclear transfer
4.	2019-IBC-41	mkhalidbashir@uaf.edu.pk	Buffalo Genetic/Breeding	Estimated breeding values for 305 days milk yield traits and sire ranking of Nili-Ravi buffaloes in Pakistan
5.	2019-IBC-196	mkhalidbashir@uaf.edu.pk	Buffalo Genetic/Breeding	Inbreeding effects on productive, reproductive and lifetime traits of Nili-Ravi buffaloes
6.	2019-IBC-222	drabdulwaheed@bzu.edu.pk	Buffalo Genetic/Breeding	Prediction of total milk yield from hoof circumference in buffaloes
7.	2019-IBC-269	atia.basheer@uvas.edu.pk	Buffalo Genetic/Breeding	Genomic selection: the way forward for buffalo breeding in future
8.	2019-IBC-309	muazzam999@gmail.com	Buffalo Genetic/Breeding	Association of age and body weight with scrotal circumference in Nili Ravi buffalo males
9.	2019-IBC-326	imran.zahoor@uvas.edu.pk	Buffalo Genetic/Breeding	Identification of single nucleotide variant in ppargc1a gene associated with interval from calving to first insemination in Nili-Ravi buffaloes
10.	2019-IBC-42	shahid.hussain@uvas.edu.pk	Buffalo Health	Talk on; tick borne diseases of bovine: a worry for small holder farmers
11.	2019-IBC-74	vetazeem@gmail.com	Buffalo Health	Elevated molybdenum and low phosphorus contents of soil are predictive of post parturient hemoglobinuria in buffaloes
12.	2019-IBC-86	waseem1971@hotmail.com	Buffalo Health	Preparation and evaluation of haemorrhagic septicaemia oil adjuvanted vaccine with a new ready to use oil adjuvant
13.	2019-IBC-88	hn.zoology@gmail.com	Buffalo Health	Molecular diagnosis of anaplasmosis in buffaloes
14.	2019-IBC-101	imaad.rasheed@gmail.	Buffalo Health	Shedding of coxiella burnetii in the milk of q fever positive Nili-Ravi buffaloes
15.	2019-IBC-131	jawaria.khan@uvas.edu.pk	Buffalo Health	Epidemiology of diarrheal diseases of bovine calves in district Okara
16.	2019-IBC-136	hammad.rehman@uvas.edu.pk	Buffalo Health	Determination of seroprevalence and associated risk factors of bovine viral diarrhea virus (bvdv) in bovine population from southern Punjab, Pakistan
17.	2019-IBC-157	drijazsaleem@gmail.com	Buffalo Health	Investigations on copper and phosphorus deficiency associated post-parturient hemoglobinuria in dairy animals and clinical management with antioxidants

18.	2019-IBC-270	drzia2663@gmail.com	Buffalo Health	Seroprevalence study on brucellosis in buffalo and cattle at disease control compartment of buffalo research institute, Pattoki, Punjab, Pakistan
19.	2019-IBC-282	amjadwaseer@gmail.com	Buffalo Health	Clinico-epidemiology of newly admitted vancomycin resistant staphylococcus aureus isolated from bovine, farm workers, and their environment
20.	2019-IBC-300	aamirsharifcheema@gmail.com	Buffalo Health	Efficacy of different therapeutic protocols in the treatment of clinical mastitis in dairy buffaloes
21.	2019-IBC-328	aunmuhammad@uvas.edu.pk	Buffalo Health	A case of extensive rapture of udder suspensory ligaments (dropped udder) in a buffalo: clinical observations and effect of palliative support
22.	2019-IBC-344	amar.nasir@uvas.edu.pk	Buffalo Health	Incidence of subclinical ketosis in dairy buffalo herds of tehsil Jhang, Punjab, Pakistan
23.	2019-IBC-372	abidhussain685@yahoo.com	Buffalo Health	Virulent potential factors in occurrence of mastitis in lactating buffaloes of Pakistan
24.	2019-IBC-423	hamzazahidpsh@gmail.com	Buffalo Health	Tick infesting buffaloes in federally administered tribal areas (fata), Pakistan
25.	2019-IBC-436	majidali9090@gmail.com	Buffalo Health	Rift valley fever (rvf): an emerging zoonotic threat for south Asia from the middle east
26.	2019-IBC-304	drmaqsood66@gmail.com	Buffalo Management	Factors affecting the birth weight of calves in Nili Ravi buffaloes at BRI Pattoki Punjab
27.	2019-IBC-415	qamar.shahid@uvas.edu.pk	Buffalo Management	Estimation of enteric methane emission in lactating buffaloes under different production systems of Pakistan
28.	2019-IBC-82	asifjavaid165@gmail.com	Buffalo Nutrition and feed resources	Impact of urea-molasses treated wheat straw fermented with rumen digesta on production parameters of lactating Nili-Ravi buffaloes
29.	2019-IBC-153	usmandvm@gmail.com	Buffalo Nutrition and feed resources	Effect of ensiling beet pulp with mott grass on silage characteristics and in situ digestion kinetics in buffalo bulls
30.	2019-IBC-200	arif.inayat@uos.edu.pk	Buffalo Nutrition and feed resources	The effect of hydroponic maize fodder on the growth performance of buffalo calves
31.	2019-IBC-220	drahmadalimalik644@gmail.com	Buffalo Nutrition and feed resources	Studies on preweaning growth rate of Nili Ravi buffalo calves.
32.	2019-IBC-301	ycj0746@sina.com	Buffalo Nutrition and feed resources	Effects of different roughage sources on nutrient digestibilities, ruminal fermentation and enzymes activities in rumen of water buffaloes
33.	2019-IBC-389	uzair.abdulahad@gmail.com	Buffalo Nutrition and feed resources	Nitrogen balance in lactating buffalo
34.	2019-IBC-432	Nadar73vet@aup.edu.pk	Buffalo Nutrition and feed resources	Relationship of watering and feeding frequency on feed intake, milk production and composition of Azikheli buffaloes in swat
35.	2019-IBC-23	: drumairiqbal@gmail.com	Buffalo Reproduction	Perimetrial cyst in Nili Ravi buffalo: a case study
36.	2019-IBC-198	ammaryasir348@gmail.com	Buffalo Reproduction	Studies on the reproductive and productive efficiency of Nili-Ravi buffaloes maintained at buffalo research institute, Pattoki, Pakistan

37.	2019-IBC-217	saeedmurtaza@bzu.edu.pk	Buffalo Reproduction	Effect of exogenous administration of oxytocin on milk production, milk contents and somatic cell count in freshly lactating Nili-Ravi buffaloes
38.	2019-IBC-312	Drbinyameen@yahoo.com	Buffalo Reproduction	Effect of clinical and subclinical mastitis on productive and reproductive performance of buffaloes
39.	2019-IBC-380	vet.ansari@gmail.com	Buffalo Reproduction	Expression pattern of toll like receptors in reproductive system of dairy buffalo: an update
40.	2019-IBC-398	792931996@qq.com	Buffalo Reproduction	Over-expression of gdnf gene in buffalo sertoli cells can improve the in vitro culture of buffalo spermatogonia
41.	2019-IBC-404	691454470@qq.com	Buffalo Reproduction	Effect of acetyl-l-carnitine on lipid profile of buffalo oocyte and cumulus cells during in vitro maturation
42.	2019-IBC-110	asifjavaid165@gmail.com	Socio-economic aspects of buffalo production	Buffalo production pattern and milk marketing in Dera Ismail khan district
43.	2019-IBC-377	salmanchohanuaf@gmail.com	Socio-economic aspects of buffalo production	Perceptions of livestock dairy farmers about electronic media as a source of information in district Faisalabad, Punjab-Pakistan: a policy devising study
44.	2019-IBC-71	muawuz.ijaz@uvas.edu.pk	Value addition of buffalo meat and meat products	Influence of some post-slaughter treatments on meat quality traits in two age groups of bubalus bubalis
45.	2019-IBC-313	memoonaiqbal572@yahoo.com	Value addition of buffalo meat and meat products	Are we eating, what we pay for? DNA based gender identification in meat samples
46.	2019-IBC-45	shoaibbaloch2002@yahoo.com	Value addition of buffalo milk and milk products	Buyers' buying intents towards buffalo milk and its by-products in rural and urban areas of southern Khyber Pakhtunkhwa, Pakistan
47.	2019-IBC-61	usmanmirkhan@yahoo.com	Value addition of buffalo milk and milk products	Rapid detection procedure to isolate enter toxigenic staphylococcus aureus from cheddar cheese made with buffalo milk
48.	2019-IBC-118	khizar_hayat007@yahoo.com	Value addition of buffalo milk and milk products	Comparative physico-chemical and organoleptic differences in burfi obtained from buffalo and cow milk
49.	2019-IBC-227	shakeel.1@live.com	Value addition of buffalo milk and milk products	Comparison of physico-chemical composition of first two milking of colostrum of buffalo Kundi specie

Poster Presentations for Tuesday 19th February 2019

Sr. No.	Abstract Code	Submitted By	Session Name	Abstract Title
1.	2019-IBC-253	Biotech@gxbri.com	Biotechnology	Effects of zona pellucida opening by laser on the cryosurvial and hatching rates of ivf blastocysts in buffalo (bubalus bulalis)
2.	2019-IBC-291	Rbtoffice@163.com	Biotechnology	A study on identification of four buffalo breeds with rapd markers
3.	2019-IBC-40	Mkhalidbashir@uaf.edu.pk	Buffalo Genetic/Breeding	Genetic and phenotypic correlations among some performance traits of Nili-Ravi buffaloes in tropics
4.	2019-IBC-190	Bahare.taheri@gmail.com	Buffalo Genetic/Breeding	Investigating the genetic improvement and economic changes of three selection criteria for buffaloes of Khuzestan in Iran
5.	2019-IBC-211	riazmirza71@yahoo.com	Buffalo Genetic/Breeding	Estimation of genetic parameters of some udder conformation traits in Nili-Ravi buffaloes
6.	2019-IBC-238	drmusarratabbas@yahoo.com	Buffalo Genetic/Breeding	Study of some milk production traits of Nili-Ravi buffalo
7.	2019-IBC-297	drmusarratabbas@yahoo.com	Buffalo Genetic/Breeding	Genetic studies on birth weight, weaning weight and yearling weight of Nili-Ravi buffalo calves
8.	2019-IBC-324	imran.zahoor@uvas.edu.pk	Buffalo Genetic/Breeding	Novel polymorphisms in abcg2 gene revealed strong association with calving interval in Nili-Ravi buffaloes
9.	2019-IBC-39	sbvetdr@yahoo.com	Buffalo Health	Current status and pattern of antimicrobial resistance in staphylococcus aureus isolated from bovine mastitis
10.	2019-IBC-72	mubeen144@gmail.com	Buffalo Health	Safety level and effects of controlled release urea on productive performance of Nili-Ravi buffaloes
11.	2019-IBC-85	abidhussain685@yahoo.com	Buffalo Health	Prevalence and sensitivity of staphylococcus aureus causing mastitis in buffaloes around Lahore, Pakistan
12.	2019-IBC-87	waseem1971@hotmail.com	Buffalo Health	Preparation and evaluation of haemorrhagic septicaemia black quarter combo oil adjuvanted vaccine
13.	2019-IBC-97	dr.kalim@kust.edu.pk	Buffalo Health	Epidimiological assisment of foot-and-mouth disease in buffalo of district Bannu, Khyber Pakhtunkhwa
14.	2019-IBC-107	waseem1971@hotmail.com	Buffalo Health	Influence of glycerol and dimethyl sulfoxide on the survival of pasteurella multocida during its storage at different temperatures
15.	2019-IBC-132	jawaria.khan@uvas.edu.pk	Buffalo Health	Passive surveillance of diarrheic calves in Punjab
16.	2019-IBC-156	bilalramzan1992@gmail.com	Buffalo Health	Investigations on lymph nodes involvement in buffaloes suffering from clinical mastitis in slaughter houses

17.	2019-IBC-197	mijaz@uvas.edu.pk	Buffalo Health	Seroprevalence of leptospirosis and its association with reproductive and productive parameters from buffalo population of rajanpur and Muzaffargarh districts of Pakistan
18.	2019-IBC-272	iremanwar10@gmail.com	Buffalo Health	Prevalance of gastrointestinal endoparasites in institutional herds of nili ravi buffalo
19.	2019-IBC-296	82273868@qq.com	Buffalo Health	High prevalence of coccidiosis in buffaloes in Nanning, China
20.	2019-IBC-318	amjadwaseer@gmail.com	Buffalo Health	Tracking the altered prevalence and antibiogram of e. Coli in bovine milk, environment, and farm workers' interface
21.	2019-IBC-342	drzain47@gmail.com	Buffalo Health	Effects of climate changes specially global warming on disease occurrence and production losses in buffalo
22.	2019-IBC-355	amar.nasir@uvas.edu.pk	Buffalo Health	Bacteriology and antibiogramic study of micro-organisms associated with subclinical and clinical mastitis in buffaloes in Jhang
23.	2019-IBC-395	vetmedicine2015@gmail.com	Buffalo Health	Effects of chemotherapy on bovine anaplasmosis in district mirpur azad Jammu and Kashmir
24.	2019-IBC-434	usman.waheed@uvas.edu.pk	Buffalo Health	Foot-and-mouth disease control options in Pakistan
25.	2019-IBC-284	ycj0746@sina.com	Buffalo Management	Effects of temperature and humidity index on reproductive performance of lactating buffaloes
26.	2019-IBC-360	vetsalim@uvas.edu.pk	Buffalo Management	An insight on the heat stress and their alleviation strategies in buffaloes- a review
27.	2019-IBC-424	mishaq549@gmail.com	Buffalo Management	Identification of risk factors for low birth weight in Nili-Ravi buffaloes
28.	2019-IBC-152	drsharifuaf@yahoo.com	Buffalo Nutrition and feed resources	Effect of dried citrus pulp as an alternate concentrate source on nutrient intake, nitrogen metabolism and productive performance in lactating buffaloes
29.	2019-IBC-154	drsharifuaf@yahoo.com	Buffalo Nutrition and feed resources	Effect of yeast fermented citrus pulp as a protein source on nutrient intake, digestibility, nitrogen balance and in situ digestion kinetics in Nili-Ravi buffalo bulls
30.	2019-IBC-208	drasimfaraz@gmail.com	Buffalo Nutrition and feed resources	Feedlot performance and serum profile of buffalo (bubalus bubalis) calves under high input feeding systems
31.	2019-IBC-259	asimtausif@hotmail.com	Buffalo Nutrition and feed resources	Effect of supplementation of yeast (saccharomyces cervisiae) on growth performance in Nili-Ravi calves
32.	2019-IBC-361	drrabia.18@gmail.com	Buffalo Nutrition and feed resources	Assessment of macro-minerals in berseem fodder in Gujranwala division
33.	2019-IBC-429	abdurrehman@uvas.edu.pk	Buffalo Nutrition and feed resources	Strategies to overcome methane production in buffalos: its emission and damaging contribution in global warming
34.	2019-IBC-16	muhammad.rafi@uvas.edu.pk	Buffalo Reproduction	Case study on endometritis: the major cause of repeat breeding in cyclic buffaloes of Narowal.
35.	2019-IBC-100	randhawaumair@gmail.com	Buffalo Reproduction	Hormonal and mineral profile during synchronization of estrus with cidr in post-partum Nili-Ravi buffaloes

36.	2019-IBC-201	usman.mehmood@uvas.edu.pk	Buffalo Reproduction	Effect of edta supplementation in extender as chelating agent on post thaw quality of buffalo bull spermatozoa
37.	2019-IBC-287	dramjadriaz@uvas.edu.pk	Buffalo Reproduction	Antioxidant enzymes profile during cryopreservation of nili ravi buffalo (bubalus bubalis) bull spermatozoa
38.	2019-IBC-352	ishtiaqahmed@uvas.edu.pk	Buffalo Reproduction	Pathological investigation of female genitalia, uterine bacterial profiling and in-vitro antibiotic sensitivity in buffaloes slaughtered at Lahore abbatoir
39.	2019-IBC-381	drsaleem45@yahoo.com	Buffalo Reproduction	Bio-stimulatory effect of bull exposure on post-partum estrus interval in Nili-Ravi buffaloes
40.	2019-IBC-401	zhenhou0317@126.com	Buffalo Reproduction	Comparative proteomic identification of buffalo spermatozoa during in vitro capacitation
41.	2019-IBC-411	844225147@qq.com	Buffalo Reproduction	Buffalo sertoli cells as feeder layer overexpressing fgf2 can promote the expression of characteristic molecules of in vitro cultured spermatogonia
42.	2019-IBC-331	sohaibusmancheema174 @gmail.com	Socio-economic aspects of buffalo production	Value of information and communication technology for buffalo keepers
43.	2019-IBC-378	salmanchohanuaf@gmail.com	Socio-economic aspects of buffalo production	Availability and extent of utilization of information and communication technologies (icts) among livestock farm families in Punjab-Pakistan
44.	2019-IBC-161	arshcheema559@gmail.com	Value addition of buffalo meat and meat products	Microbial evaluation of fresh and frozen beef sold in different facilities of Lahore, Pakistan.
45.	2019-IBC-347	adeel.rehman@uvas.edu.pk	Value addition of buffalo meat and meat products	Effect of different packaging technologies and ageing time on quality characteristics of buffalo calf sirloin steaks under retail display
46.	2019-IBC-58	abidavenue@gmail.com	Value addition of buffalo milk and milk products	A study on cream cheese produced using bifidobacterium bifidum & lactobacillus acidophilus culture
47.	2019-IBC-117	usmanmirkhan@yahoo.com	Value addition of buffalo milk and milk products	Physico chemical amd microbilogical study of quality of ice cream available at different areas of Lahore
48.	2019-IBC-207	shakeel.1@live.com	Value addition of buffalo milk and milk products	Compositional attributes of kundhi buffalo and Sahiwal cow colostrum
49.	2019-IBC-419	kamalniaz1989@gmail.com	Value addition of buffalo milk and milk products	Functional foods: milk, its constituents and products have antioxidant characteristics

PROGRAM

Livestock Show at Buffalo Research Institute, Pattoki District Kasur

Day 1st: 20.02.2019 (Wednesday)

09:00	Arrival of Chief Guest / International Delegates
09:15	Caval cade of buffalo breeds of Pakistan
10:30	Inauguration of Exhibition by Chief Guest
11:00	Visit of Stalls
11:30	Visit of Breeder's Camp
12:00	Beauty Competition among animals of Institutional & Private herds (Combined); Category: ***Buffalo Breeding Bulls***
13:45	Distribution of Cup/Shield
14:00	Lunch Break
15:45	Inauguration of Milk Competition by Chief Guest
16:00	Entry of Milking Buffaloes in Milking Ring
17:00 - 17:20	Milking for udder empty (1st time)

Day 2nd: 21.02.2019 (Thursday)

04:00	Entry of milking buffaloes in Milking Ring.
05:00 - 05:20	Udder Empty (2nd time)
11:00	Beauty Competition among animals of Institutional & Private herds (Combined); Category: i) ***2 teeth (buffalo male calves)*** ii) ***4 teeth (buffalo male calves)***
14:00	Distribution of Cup/Shield
16:00	Entry of Milking buffaloes in Milking Ring
17:00 - 17:20	1st Milking *(Countable)*

Day 3rd: 22.02.2019 (Friday)

04:00	Entry of milking buffaloes in Milking Ring.
05:00 - 05:20	2nd Milking *(Countable)*
11:00	Beauty Competition among animals of
	Institutional & among animals of Private herds (separately); Category: i) **2 Teeth (Buffalo female young stock)** ii) **4 Teeth (Buffalo female young stock)** iii) **Dry & Pregnant Buffalo**
14:00	Distribution of Cup/Shield
16:00	Entry of Milking Buffaloes in Milking Ring
17:00 - 17:20	3rd & Final Milking *(Countable)*

Day 4th: 23.02.2019 (Saturday)

08:00	Beauty Competition among animals of Institutional & Private herds (Combined); Category: **Buffalo in-Milking**
10:00	Arrival of Chief Guest
10:30	Visit of stalls
11:00	Prize Distribution Ceremony
14:00	Lunch

Black Gold of Pakistan

Buffalo Milk & Beauty Competition 2019

At Buffalo Research Institute, Pattoki

50.250 Liters in 36 hours

Program for Milk Competitions

First Milking (Under empty)	Second Milking (Under empty)	First Milking (Countable)	Second Milking (Countable)	Third / Last Milking (Countable
20-02-2019 05:00 pm	21-02-2019 05:00 am	21-02-2019 05:00 pm	22-02-2019 05:00 am	22-02-2019 05:00 pm

Program for Beauty Competitions

20-02-2019	21-02-2019	22-02-2019	23-02-2019
Breeding Buffalo Bull (All Government / Private Animals)	Kheera, Donda Jhota (All Government / Private Animals)	Kheeri, Dondi Jhoti & Dry & Pregnant Buffalo Separate Competitions Among Government & Private Animals	Buffalo in-Milk (All Government / Private Animals)

UNIVERSITY OF VETERINARY AND ANIMAL SCIENCES LAHORE

Organized by: Buffalo Research Institute Pattoki, Livestock & Dairy Development Department, Punjab
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