

A SERIES OF CAMEL DAY CELEBRATIONS
International Camel Conference (Virtual)



ROLE OF CAMEL IN FOOD SECURITY
UNDER CLIMATE CHANGE CONTEXT

PROGRAMME

30th September - 1st October 2021

Pir Mehr Ali Shah Arid Agriculture
University Rawalpindi, Pakistan



ROLE OF CAMEL IN FOOD SECURITY UNDER CLIMATE CHANGE CONTEXT

Conference Theme

Climate change is a bitter reality, and the globe is facing the consequences of the phenomena. It is imperative to strive for food security in this scenario. The camel is an amazing species along with extraordinary resilience in changing environment. There is a need to explore and share the potential and future of this creature under the climate change circumstances. The Department of Livestock Production and Management is taking one step forward to organize the International Virtual Conference in collaboration with Camel Association of Pakistan to take advantage of exploring the potential of this creature through cooperation, hard work, research & development to open new doors in the multi-value research aspect. We welcome the dignitaries, researchers, and scholars to this event.

Acknowledging Camelids

Camels, the Desert Ships or White Gold of desert have served humans in cross-continental caravans for livelihood source from around 3000–6000 years ago. In scenario of climate change and increasing desertification, camel research is on the bloom for improving its productivity and preserving genetic pool.

Fortune of 22nd June 2009 as CAMEL DAY

June; the first month of summer with longest and hottest days of the year, in the northern hemisphere. While Camel “ship of the desert” can sustain these hot months, harsh and hostile environments easily without compromising on their productive and reproductive capabilities. Initially, 21st June was decided to be as world camel day but as it is celebrated as father day, hence the committee decided 22nd June as the world camel day in 2009. Initially, it was celebrated from 2009 till 2012 only in Baluchistan province due to having 41% of total camel population of Pakistan (1.1 million) with seven outstanding breeds from twenty breeds of Pakistan. With the passage of time this event holds a pace nationally and internationally. It was all a joint effort of camel researchers like Dr. A. Raziq Kakar, Dr. Ilse Kohler Rollefson, Prof. Dr. Yagil (Late), Dr. Abdul Salam Abax (KSA), and many others, hard to mention their efforts and names in such short time and space.

In 2013, the WCD Facebook page was launched for social media promotion, news and research collaborations, which received much appreciation and support. It all leads to celebrating WCD worldwide in 2014. In the same year, Prof. Dr. M. Younas (University of Agriculture, Faisalabad, Pakistan), launched Dachi Camel Milk Brand in the university and invited famous camel lady and German scientists Dr. Ilse Kohlor Rollefson for inauguration.

Welcome Address

Dear Guests: On behalf of organizing committee, we are honored to invite you participate in the International Conference (Virtual) to be held at Department of Livestock Production and Management, Faculty of Veterinary and Animal Sciences, Pir Mehr Ali Shah Arid Agriculture University Rawalpindi, Pakistan on 30th September-1st October 2021. We welcome and encourage all of you to present a valuable overview of updated research about camel health, productivity, and impact of climate change on camel wellbeing. To make this event more attractive we have a plan to hold physical sessions at the venue along with online sessions. We are expecting a great event that will spread valuable knowledge to camel lovers.

Barela Camel of Pakistan



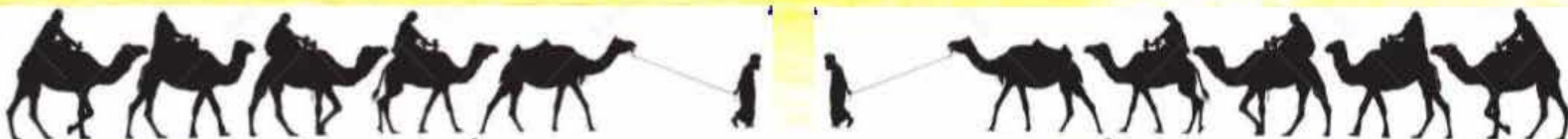
Marrecha Camel



Kohi Camel



Venue: Twin Cities-Rawalpindi & Islamabad



ROLE OF CAMEL IN FOOD SECURITY UNDER CLIMATE CHANGE CONTEXT

Organizers**Patron in Chief****Prof. Dr. Qamar-uz-Zaman**

Vice Chancellor, Pir Mehr Ali Shah, Arid Agriculture University Rawalpindi (PMAS-AAUR), Pakistan

Patron**Prof. Dr. Arfan Yousaf**

Dean, Faculty of Veterinary & Animal Sciences PMAS- AAUR

Chief Organizer**Dr. Tanveer Ahmad**

Chairman Department of Livestock Production and Management, PMAS-AAUR

Organizing Committee

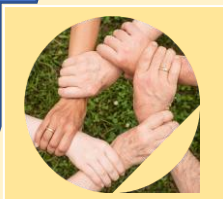
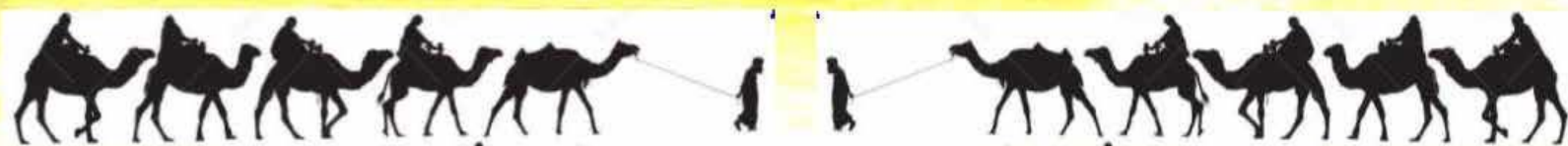
Team from Department of Livestock Production & Management-PMAS-AAUR Pakistan

Dr. S. Maryam Hussain (Organizing Secretary)

Assistant Professor

Dr. Muhammad Farooq Iqbal- Assistant Professor**Dr. Muhammad Fiaz -**Assistant Professor**Dr. Kashif Ishaq -** Lecturer**Mr. M. Imran Khan -** Lecturer**Dr. Asim Gulzar -** Additional Director ORIC-AAUR**Nadeem Malik -** Principal Officer-Public Relations & Publications**Scientific and Technical Committee****Prof. Dr. Muhammad Yunas (Chair)**

Founding President, CAP

Dr. Abdul Raziq KakarTechnical Manager, Camel Farms,
Al-Ain Farms for Livestock Production, Al-Ain, UAE**Prof. Dr. Tarun Kumar Gahlot**Deptt. Surgery and Radiology, Rajasthan Agric.
University, Bikaner,, India
Editor - J. Camel Practice and Research**Dr. Tanveer Ahmad (Convener)**Chairman, Deptt. Livestock Production & Management,
PMAS- AAUR**Dr. Riaz Hussain Pasha**Assistant Prof., Deptt. Veterinary Biomedical
Sciences, PMAS- AAUR**Dr. Aaysha Riaz**Assistant Prof., Deptt. Veterinary Microbiology, PMAS-
AAUR**Dr. S. Maryam Hussain**Assistant Prof., Deptt. Livestock Production &
Management, PMAS- AAURConference email:
cameltalk21@uaur.edu.pkConference URL :
www.uaur.edu.pk

ROLE OF CAMEL IN FOOD SECURITY UNDER CLIMATE CHANGE CONTEXT

PROGRAMME

Day-1

September 30, 2021 (Thursday)

Venue

Dept. Livestock Production and Management
Pir Mehr Ali Shah Arid Agriculture University Rawalpindi, Pakistan

Note: All Times are in Pakistan Standard Time

Opening Ceremony

9:00 AM Recitation form the Holy Quran

Opening Address

9:05 AM **Prof. Dr. Arfan Yousaf**

Dean, Faculty of Veterinary and Animal Sciences, PMAS-AAUR

Welcome Address

9:10 AM **Prof. Dr. Qamar uz Zaman**

Vice Chancellor, Pir Mehr Ali Shah Arid Agriculture University Rawalpindi Pakistan

Conference Introduction and Technical Sessions

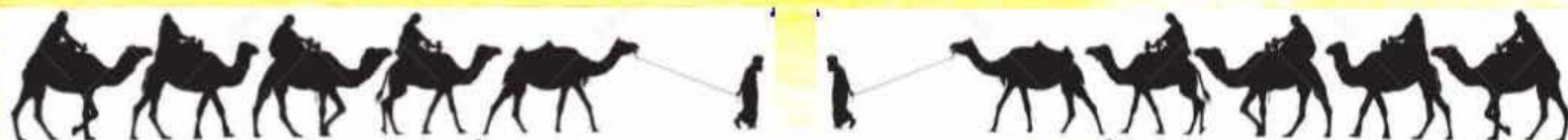
9:20 AM **Dr. Tanveer Ahmad**

Chief Organizer, Chairman Deptt. of Livestock Production and Management, PMAS-AAUR

Session Closing

9:25 AM **Dr. Syeda Maryam**

Conference Organizer



ROLE OF CAMEL IN FOOD SECURITY UNDER CLIMATE CHANGE CONTEXT

Technical Sessions

Note: All Times are in Pakistan Standard Time (else mentioned)

1st Session

Camel and its Impact on Human health: an aesthetic view

Session Chair

Prof. Dr. Muhammad Younas

Ex Faculty of Animal Husbandry, University of Agriculture Faisalabad, Pakistan

1	09:30 - 10:00 AM	Use of camel Botox in beauty pageant <i>Prof. Dr. Muhammad Younas</i> Ex-Dean FAH, UAF Pakistan, Founding President, Camel Association of Pakistan (CAP)
2	10:00 - 10:10 AM (Algeria- 6:00 AM)	Study the anti-obesity effect of camel whey protein in obese rats <i>Mebarki Abdelouahab</i> Laboratory of Physiology, Physiopathology and Biochemistry of Nutrition, Abou Bakr Belkaid Tlemcen University, Algeria.
3	10:10 - 10:30 AM	Impact of various watering regimes on milk production, physiological and hematological parameters of Marecha she-camel reared in extensive summer conditions <i>Dr. Asim Faraz</i> General Secretary CAP Assistant Prof., Bahauddin Zakariya University Multan
4	10:30 -10:40 AM (Morroco- 6:30 AM)	The dromedary is a significant source of vitamin D <i>Mohammed El Khasmi</i> Physiopathology and Molecular Genetics Laboratory, Ben M'Sick Faculty of Sciences, Hassan II University of Casablanca, Morocco

2nd Session

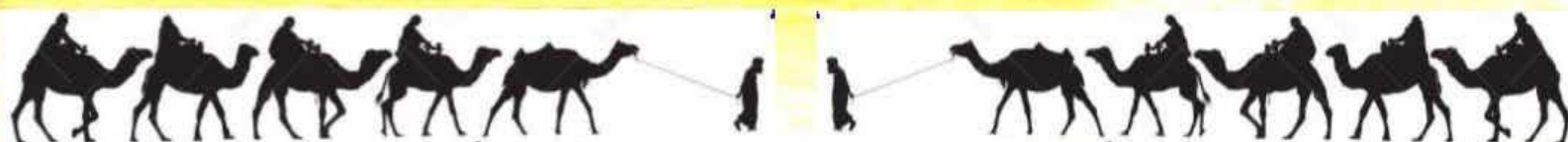
Camel Role in Food Security

Session Chair

Prof. Dr. Muhammad Younas

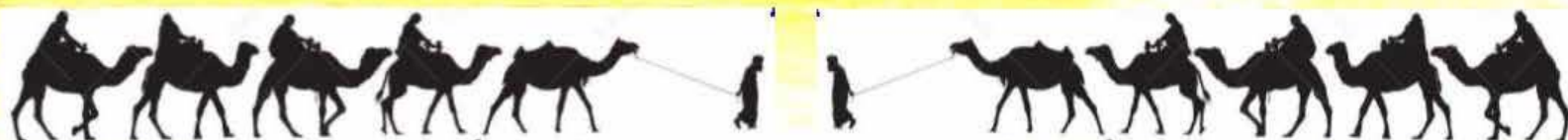
Ex Faculty of Animal Husbandry, University of Agriculture Faisalabad, Pakistan

5	11:00 - 11:20 AM	Camel a potential animal for dairying and food security <i>Dr. Abdul Raziq Kakar</i> Technical Operations Manager, Al-Ain Farms, Abu Dhabi, International. Camel Dairying Specialist & Consultant
6	11:20 - 11:30 AM (India - 11:50)	Milk yield, composition and milkability of Indian dromedary camel <i>Ved Prakash</i> National Research Centre on Camel, Bikaner-Rajasthan, India
7	11:30 - 11:50 AM (Kenya- 9:30)	Camel industry and its potential <i>Jama Warsame</i> Founder of White Gold Camel Milk Co. Kenya



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8	11:50 - 12:00 PM (Kenya- 9:50)	Camel (<i>Camelus Dromedarius</i>) management, climate change and food security in Kenya <i>Dr. S. Piers Simpkin</i> Camel milk producer and Spiers Consultants Ltd., Nairobi, Kenya
9	12:00 - 12:10 PM	Camel milk-derived peptide(s) for reducing oxidative stress induced pathologies: inhibition of tgf-β mediated atherogenic signaling in human vascular smooth muscle cells <i>Dr. Feroza H. W.</i> University Institute of Biochemistry and Biotechnology, PMAS-AAUR
<p>3rd Session</p> <p>Camel Reproduction and Production</p> <p>Session Chair</p> <p><i>Prof. Dr. Zafar Iqbal Qureshi</i></p> <p><i>Ex-Dean Faculty of Veterinary Sciences, University of Agriculture Faisalabad, Pakistan</i></p>		
10	12:30 - 12:50 PM	Reproductive bio-technologies in Camelids - challenges and opportunities <i>Prof. Dr. Zafar Iqbal Qureshi</i> Ex-Dean FVS, University of Agriculture, Faisalabad
11	12:50 - 01:00 PM	Effect of prepartum immuno-potential with vitamin E and Selenium on neonate immunity and postpartum reproductive health of the dromedary camel (<i>Camelus dromedarius</i>) <i>Muhammad Yaqoob</i> Deptt. of Theriogenology, Uni. of Agriculture, Faisalabad
12	01:00 - 01:10 PM	Follicle wave synchronization in dromedary camel (<i>Camelus dromedarius</i>) <i>Dr. Huma Jamil</i> Department of Theriogenology, University of Agriculture Faisalabad, Pakistan
	01:30-2:00 PM	Lunch Break and Prayer
13	02:00 - 02:20 PM	Camel milk and natural health <i>Prof. Dr. Taherah Mohammadabadi</i> Faculty of Animal Science and Food Technology, Agricultural Sciences and Natural Resources, University of Khuzestan, Iran
14	02:20 - 02:30 PM	Camel milk; Unique super food for diabetic cases <i>Prof. Dr. Taherah Mohammadabadi</i> Faculty of Animal Science and Food Technology, Agricultural Sciences and Natural Resources, University of Khuzestan, Iran
15	02:30 - 02:50 PM (UAE-1:30 PM)	Modern techniques in preserving camel genetics and population <i>Dr. Nisar Ahmed Wani</i> Scientific Director Reproductive Biotechnology Centre, Nad Al Sheba, Dubai



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4th Session

Camel and their Health Issues

Session Chair

Prof. Dr. Zafar Iqbal Qureshi

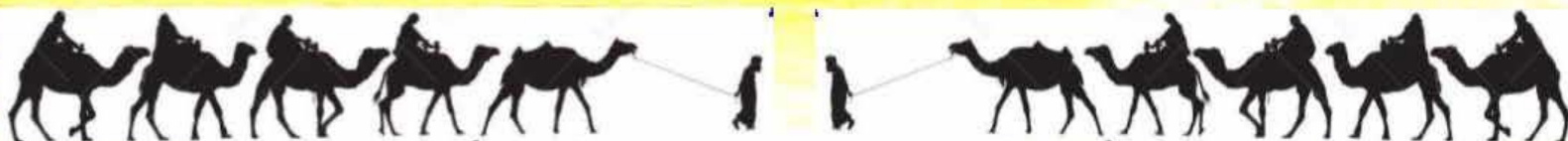
Ex-Dean Faculty of Veterinary Sciences, University of Agriculture Faisalabad, Pakistan

16	03:10 - 03:20 PM	<p>Seroprevalence of borrelia burgdorferi sensu lato in camel (<i>Camelus dromedarius</i>) in Punjab, Pakistan <i>Dr. Aneela Zameer Durrani</i> Department of Veterinary Medicine, University of Veterinary and Animal Sciences, Lahore</p>
17	03:20 - 03:40 PM (India - 3:50 PM)	<p>Camel surgery and new techniques and applications <i>Prof. Dr. Tarun Kumar Gahlot</i> Rajasthan Agri. Uni., Bikaner, India. Editor: J. Camel Practice and Research</p>
18	03:40 - 03:50 PM (Algeria - 11:40 PM)	<p>The biometric characteristics of the udder of dairy camels (<i>Camelus dromedarius</i>) in relation to milk yield and ecotypes in the Tergui population in the Tamanrasset region <i>Derradji Harek</i> National Institute of Agronomic Research of Algeria, (INRAA) DPA</p>
19	03:50 - 04:10 PM (Kenya - 1:50 PM)	<p>Camel diseases and health management in dry areas <i>Dr. Pauline Gitonga</i> Dryland Animal Health Consultant, ASAL Extension Ltd. Kenya</p>
20	04:10 - 04:20 PM (Algeria - 12:10 PM)	<p>Diversity genetic of Algerian's camel population "Tergui" (<i>Camelus dromedarius</i>) by their body measurements in Hoggar region <i>Derradji Harek</i> National Institute of Agronomic Research of Algeria, (INRAA) DPA</p>
21	04:20 - 04:40 PM (Texas-6:00 AM)	<p>Camel role in tourism and leisure activities <i>Douglas Baum</i> Owner at The US Army Camel Experiment</p>

CONCLUDING REMARKS

Dr Syeda Maryam

Conference Organizer



ROLE OF CAMEL IN FOOD SECURITY UNDER CLIMATE CHANGE CONTEXT

PROGRAMME

Day-2

October 01, 2021 (Friday)

Venue: University Main Auditorium

Time	Event
08:30-09:30 AM	<i>Kids Poster Competition (Display & Judging)</i>
09:00-09:30 AM	Registration of the Participants
09:30 AM	Guests to be Seated
09:40 AM	Recitation from the Holy Quran
09:45 AM	Welcome Address Dr. Tanveer Ahmad Chief Organizer, Chairman Dept. of Livestock Production and Management, PMAS-AAUR
09:55 AM	Brief talk: How Camels are Made? Prof. Dr. Muhammad Younas Founding President, Camel Association of Pakistan (CAP)
10:15 AM	Folk Song/Individual Performance
10:25 AM	Brief talk: Benefits of Camel Milk and Meat Dr. Asim Faraz General Secretary CAP
10:40 AM	Folk Song/Individual Performance
10:45 AM	Concluding Remarks Prof. Dr. Qamar uz Zaman Vice Chancellor, Pir Mehr Ali Shah Arid Agriculture University Rawalpindi Pakistan
11:00 AM	Vote of Thanks Prof. Dr. Arfan Yousaf Dean, Faculty of Veterinary and Animal Sciences, PMAS-AAUR, Pakistan
11:10 AM	Distribution of Certificates
11:25 AM	Camel Milking Demo
11:30 AM	Camel Awareness Walk
12:00 PM	Refreshment

Please follow COVID-19 SoPs

