

PROGRAMME

1st
INTERNATIONAL
CONFERENCE
ON
RECENT TRENDS
IN IMPROVING RESISTANCE
AGAINST DISEASES USING
MOLECULAR GENETICS
AND OMICS TOOLS
DECEMBER 6-7, 2023

SUB THEMES

- One Health (Humans, Animals, Plants, and Environment)
- Antimicrobial Resistance (AMR)
- Livestock Improvement
- Novel Approaches in Combatting Diseases
- Industry Academia Partnership
- Health Security & Biosecurity
- Industrial Exhibition

Day 1
Wednesday, December 06, 2023

INAUGURAL
(IBL-ORIC HALL, GARDEN CAMPUS, AWKUM)

TIMING	ACTIVITY
08:30 - 10:00	Registration / Guest to be seated
10:00 - 10:05	Recitation from the Holy Quran
10:05 - 10:10	About the Conference Chief Organizer and Focal Person: Dr. Tahir Usman
10:10 - 10:15	Address by the Conference Chair: Prof. Dr. Sher Bahadar
10:15 - 10:20	Address by the Patron: Prof. Dr. Sultan Ayaz
10:20 - 10:30	Welcome address by: VC, AWKUM, Prof. Dr. Zahoor-UI-Haq (TI)
10:30 - 10:40	Address by the Chief Guest
10:40 - 10:45	Announcements
10:45 - 10:55	Presentation of Souvenirs
10:55 - 11:05	Group Photo
11:05-11:30	Tea

Joint Session: Plenary Lectures by Invited Speakers
(11:30-13:30) (IBL-ORIC HALL)

Chair: Prof. Dr. Umar Saddique VC, UVAS Swat/ Prof. Dr. Jan Bakht
Co-Chair: Prof. Dr. Faiz Qamar
Moderator: Dr. Abdul Sajid CVS & AH ,AWKUM

11:30-11:45	Title: The next frontier in molecular diagnosis: metagenomics, big data analysis and artificial intelligence in microbial dysbiosis in HCV Speaker: Dr Aqib Iqbal, Pakistan
11:45-12:00	Title: Evaluation of cow milk quality via <i>E. coli</i> detection by loop mediated isothermal amplification (LAMP) technique to prevent mastitis Speaker: Dr. Watcharapong Naraballoh, Thailand
12:00-12:15	Title: Anti microbial resistance: The future biological bomb Speaker: Professor Dr Umer Sadique, Pakistan
12:15-12:30	Title: Integrated approach for maintaining eco-security in Pakistan under NESS-PAK Speaker: Professor Dr Subhan Qureshi
12:30-12:45	Title: Effects of Babesiosis on blood hematological and biochemical parameters of cattle Speaker: Dr. Mohammad Hamid Kadwal, Afghanistan
12:45-13:00	Title: Nmr-based metabolic fingerprinting of <i>Grapevine cultivars</i> Speaker: Prof. Dr. Kashif Ali, Pakistan
13:00-13:15	Title: Functional genomes and epigenetic regulation of animal disease resistance Speaker: Prof. Ying Yu, China
13:15-13:30	Title: Endoscopic evaluation of gastric mucosa to the <i>H. pylori</i> infection status in the recent advances Speaker: Dr. Abdullah Jan Shinwari, Afghanistan

Lunch / Prayer Break
(13:30-14:30)

Technical Session I

Hall 1 (IBL-ORIC Hall) (14:30-15:30) One Health (Humans, Animals)	Hall 2 (IBL Conference Room) (14:30-15:30) One Health (Plants, and Environment)
<p>Chair: Prof. Dr. Sohail Ahmad, IBGE Agriculture University Peshawar Co-Chair: Prof. Dr. Aqib Iqbal, Dept of Agriculture, AWKUM Moderator: Dr. Irfan Khattak, CVS and AH, AWKUM</p>	<p>Chair: Prof. Dr. Tayyab Ur Rehman, Dean, Iqra National University Co-Chair: Dr. Farhan Anwar, Uni of Agriculture Peshawar Moderator: Dr. Imad Khan, CVS and AH, AWKUM</p>
<p>14:30-14:40 Title: New findings on the human <i>Trypanosoma evansi</i> infection Speaker: Dr Aliraza, Iran</p>	<p>14:30-14:40 Title: Chromate stress management in sunflower through root interacting microbes Speaker: Prof. Dr. Anwer Hussain</p>
<p>14:40-14:50 Title: A biological approach for the treatment of infectious diseases Speaker: Mr. Muhammad Zeeshan</p>	<p>14:40-14:50 Title: Landscape of AMR in Pakistan: Implications and solutions Speaker: Dr. Muhammad Usman Qasim, Switzerland</p>
<p>14:50-15:00 Title: Gender wise distribution of tuberculosis and pattern of drug susceptibility for anti-TB drugs in Khyber Pakhtunkhwa Speaker: Ms. Attiqa</p>	<p>14:50-15:00 Title: Enhancing public health through modern agronomy: sustainable and nutrient-rich practices Speaker: Prof. Amanullah</p>
<p>15:00-15:10 Title: Impact of different diagnostic techniques on timely initiation of treatment among multidrug resistant TB patients Speaker: Ms. Hurmat Lasania</p>	<p>15:00-15:07 Title: Potential of rhizospheric fungi to reduce copper and lead toxicity in <i>Triticum aestivum</i> L. Speaker: Ms. Naveen Dilawar</p>
<p>15:10-15:20 Title: Comparison of drug susceptibility pattern for first line anti-tuberculosis drugs by phenotypic and genotypic methods and detection of mutation in RpoB gene Speaker: Ms. Uzma Hidayat</p>	<p>15:07-15:13 Title: Synthesis and characterization of Ag@Fe alloys using... Speaker: Ms. Sehrish Asad</p>
<p>15:20-15:30 Title: Comparison of line probe assay with liquid culture for detection of multi-drug resistant mycobacterium tuberculosis (Mdr-TB) Speaker: Ms. Mahnoor</p>	<p>15:13-15:20 Title: Alleviation of cold stress in <i>Oryza sativa</i> L by endophytic fungi Speaker: Mr. Attaur Rahman</p> <p>15:20-15:30 Title: Impacts of molecular developments in the field of seed industry: The example of Türkiye Speaker: Dr. Mithat Direk, Turkey</p>

Poster Presentation Session (15:30-16:00)

Jury Will Evaluate: Prof. Dr. Sultan Ayaz; Prof. Dr. Ummar Saddique; Prof. Dr. Subhan Qureshi; Dr. Shafi Ur Rehman

DAY 2

Thursday, December 07, 2023

Technical Session II

Hall 1 (IBL-ORIC Hall) (10:00-11:00) Antimicrobial Resistance (AMR)	Hall 2 (IBL Conference Room) (10:00-11:00) Livestock Improvement
<p>Chair: Prof. Dr. Sarzamin Khan, Dean, FAHVS AUP Co-Chair: Dr. Ibrar Muhammad Khan Moderator: Dr. Mian Muhammad Salman, CVS and AH, AWKUM</p>	<p>Chair: Prof. Dr. Subhan Qureshi (CEO, DSP) Co-Chair: Dr. Muhammad Qasim Moderator: Dr. Saira Gul, CVS and AH, AWKUM</p>
<p>10:00-10:10 Title: Antimicrobial photodynamic therapy: A new approach for antimicrobial resistance Speaker: Dr. Khatereh Khorsandi, Iran</p>	<p>10:00-10:20 Title: Applications of epigenetics in agricultural research Speaker: Prof. Hasan Khatib, USA</p>
<p>10:10-10:20 Title: Detection of extended spectrum beta lactamase among <i>Escherichia coli</i> isolates from urinary tract infected patients in Quetta, Pakistan Speaker: Prof. Dr. Shafee</p>	<p>10:20-10:30 Title: Development of an antimicrobial resistance-targeted <i>E. coli</i> vaccine for broilers in Pakistan Speaker: Dr. Muhammad Fiaz Qamar</p>
<p>10:20-10:30 Title: Prevalence and antimicrobial resistance of extended spectrum betalactamase (ESBL) producing <i>Escherichia coli</i> in slaughtered goats in Lahore Speaker: Mr. Muhammad Faizan</p>	<p>10:30-10:40 Title: Genomics in dairy cattle: breeding for more sustainable dairy cows Speaker: Dr. Francisco Penagaricano, USA</p>
<p>10:30-10:40 Title: The pathogenic nature of <i>Staphylococcus epidermidis</i>: A friend and A foe Speaker: Mr. Saghir Ahmad</p>	<p>10:40-10:50 Title: A novel approach utilizing domain adversarial neural networks for the detection and classification of selective sweeps Speaker: Dr. Yunlong MA, China</p>
<p>10:40-10:50 Title: Microbial communities in organ infections: biofilm and AMR associations Speaker: Ms. Haleema Sadia</p>	<p>10:50-10:55 Title: Association of SNPs in <i>CD4</i> gene with mastitis and milk production traits in different pure dairy cattle breeds in Pakistan Speaker: Mr. Shehryar Khan</p>
<p>10:50-11:00 Title: Antibiotic susceptibility pattern of <i>Escherichia coli</i> isolates from clinical specimens at PIMS, Islamabad Speaker: Mr. Jafar Khan</p>	<p>10:55-11:00 Title: Genetic polymorphisms in <i>JAK2</i> gene are associated with mastitis resistance and milk productions traits in different pure dairy cattle breeds of Pakistan Speaker: Mr. Mustafa Kamal</p>

TEA (11:00-11:30)

Technical Session III

Hall 1 (IBL-ORIC Hall) (11:30-13:00) OMICS: The Future	Hall 2 (IBL Conference Room) (11:30-13:00) Combatting Diseases
<p>Chair: Prof Dr. Ijaz Ali, DG Research Co-Chair: Dr. Shafi Ur Rehman (Associate Prof, Uni of Baluchistan) Moderator: Dr. Hammad Ullah, CVS & AH, AWKUM</p>	<p>Chair: Prof Dr. Saeed Khan (President PBSA) Co-Chair: Prof. Dr. Hazir Rehman, Chairman Microbiology, AWKUM Moderator: Dr. Asifullah, CVS & AH, AWKUM</p>
<p>11:30-11:50 Title: Decoding the Link: Investigating the Interplay of vaccines and genomics Speaker: Prof. Dr. Zabta Khan Shinwari (TI)</p>	<p>11:30-11:40 Title: Identification of Immunoreactive proteins of <i>S. Typhi</i> with potential as diagnostic marker and vaccine candidates Speaker: Dr. Muhammad Qasim</p>
<p>11:50-12:00 Title: Genome-wide scanning for candidate lethal genes in Holstein cattle Speaker: Dr Hasan Baneh, Russia</p>	<p>11:40-12:00 Title: Jointly build an assured future of Eco-Security system for all children Speaker: Dr. Tian Dexin, China</p>
<p>12:00-12:10 Title: Annotation of Potential Vaccine Targets and Designing Of mRNA-Based Multi-Epitope Vaccine Against Lumpy Skin Disease Virus Via Reverse Vaccinology and agent-Based Modeling Speaker: Prof. Dr. Asifullah Khan</p>	<p>12:00-12:10 Title: Preparation of frozen yogurt as healthier option Speaker: Dr. Saim Ahmed</p>
<p>12:10-12:20 Title: Biocompatible expression and functional characterization of a cost-effective DEFB-TP5 peptide in <i>Pichia pastoris</i>: implications for anti-inflammatory and antimicrobial applications Speaker: Dr. Aamir Iqbal</p>	<p>12:10-12:15 Title: <i>Agaricus</i> Subgenus <i>Pseudochitonina</i> with description of three new species ... Speaker: Mr. Rab Nawaz</p>
<p>12:20-12:30 Title: OMICS: Future for diseases resistance Speaker: Dr. Ibrar Muhammad</p>	<p>12:15-12:20 Title: Effects of <i>Moringa oleifera</i> leaf powder Supplements on histomorphometry and immune responses of broiler chicken under dexamethasone induced stress Speaker: Mr. Maaz Ahmad</p>
<p>12:30-12:35 Title: Identification and in-silico analysis of nonsynonymous mutations in AGT gene..... Speaker: Ms. Huma Israr</p>	<p>12:20-12:25 Title: Insights into the morphological analysis, ... Speaker: Ms. Aneela Iqbal</p>
<p>12:35-12:40 Title: Identification and In-Silico analysis of Non-synonymous mutations In NOS3 gene Speaker: Ms. Aina Sibghat</p>	<p>12:25-12:30 Title: Prevalence and treatment outcomes of atrial fibrillation ... Speaker: Mr. Saif Ullah</p>
<p>12:40-12:45 Title: Evaluation of Genotoxic Effects of Homeopathic Medicines (<i>Lycopodium Clavatum</i> and <i>Nux Vomica</i>) through Comet Assay and Micronucleus Assay Speaker: Ms. Tanzeela yousaf</p>	<p>12:30-12:35 Title: Potential of <i>Trichoderma</i> species as biocontrol agent against Speaker: Ms. Muqaddas</p>
<p>12:45-12:50 Title: First seroprevalence report of <i>Toxocara canis</i> in different exposure groups in Khyber Pakhtunkhwa.... Speaker: Mr. Arsalan Said</p>	<p>12:35-12:40 Title: Enhancing plant immunity against <i>Ptr</i> by targeting brass in osteroid-regulated ... Speaker: Mr. Muhammad Junaid Yousaf</p>
<p>12:50-12:55 Title: Distribution and frequency of <i>TEM</i> and <i>Ctx-M</i> genes in ESBL Producing <i>Enterobacter cloacae</i> Speaker: Ms. Khadija Altaf</p>	<p>12:40-12:45 Title: Exploring anti-diabetic and anti-inflammatory effects of endophytic fungi..... Speaker: Ms. Yusra Jamil</p>
<p>12:55-13:00 Title: Detection of multi drug resistant <i>Staphylococcus epidermidis</i> isolated from raw milk samples of dairy cattle and ewes Speaker: Mr. Inamullah</p>	<p>12:45-12:50 Title: Assessment of lumpy skin disease virus prevalence and molecular characterization in cattle .. Speaker: Mr. Mushtaq Sarwar</p>
	<p>12:50-12:55 Title: Seroprevalence and risk factors associated with <i>Crimean congo</i> hemorrhagic fever virus Speaker: Mr. Muhammad Ali</p>
	<p>12:55-13:00 Title: Evaluation of serum electrolytes in diabetes mellitus in Speaker: Mr. Hidayat Ullah</p>

Lunch / Prayer Break (13:00-14:00)

(IBL-ORIC Hall) (14:00-14:30)

Session For Industry Academia Presentation and Industrial Exhibition

(IBL-ORIC Hall) CONCLUDING SESSION
(14:30-15:00)

14:30-15:00

1. Shields, Awards and Certificate Distribution
2. Concluding Remarks and Vote of Thanks