



## Table of Contents

### Patron-in-Chief

**Mr. Wajeehuddin Ahmad**

Chancellor, Jinnah University for Women

### Patron

**Prof. Dr. Naeem Farooqui**

Vice Chancellor, Jinnah University for Women

### Chief Editor

**Prof. Dr. Sayyada Ghufrana Nadeem**

Jinnah University for Women

### Managing Editor

**Dr. Taqdees Malik**

Jinnah University for Women

### Section Editor

**Dr. Iqra Munir**

Jinnah University for Women

**Ms. Fasiha Saeed**

Jinnah University for Women

**Ms. Farkhanda Afaque**

Jinnah University for Women

### Editorial Board

Prof. Dr. Salvatore Rubino (Italy)

Prof. Dr. Omar Bagasra (USA)

Prof. Dr. Tashmeen Razzaki (Pak)

Prof. Dr. MMM Najim (Srilanka)

Prof. Dr. Shazia Tabassum Hakim (USA)

Prof. Dr. Mahmood Akhter (Canada)

Prof. Dr. Samina N. Assanie Shivji (USA)

Prof. Dr. M. Tariq Malik (USA)

Prof. Dr. Ghosia Lutfullah (Pak)

Prof. Dr. Hamid Mukhtar (Pak)

Prof. Dr. Saeed Khan (Pak)

Prof. Dr. Agha Asad Noor (Pak)

Prof. Dr. Shamsul Arfin Qasmi (Pak)

Dr. Faisal Akhlaq (Pak)

Dr. Akinrotimi Ojo Andrew (Nigeria)

Dr. Daniela Giannetto (Italy)

Dr. Alfred Iqbal (USA)

Dr. Muhammad Ayaz Mustafa (Pak)

Dr. Hayder Fouad (Iraq)

Dr. Cigdem Ozen (Turkey)

### Published Biannually by

Reyazuddin Research & Development

Society, Jinnah University for Women,

5-C Nazimabad, Karachi-74600,

Pakistan

E-mail: jbas@juw.edu.pk

Phone: 3661-9902, 3662-0857-9

Fax: 3662-0614

<http://jbas.juw.edu.pk>

### ORIGINAL ARTICLES

- 1** **The Action of Cytomegalovirus (CMV) Promoter on Expression of Genetically Engineered Insulin in Rat Hepatocytes**  
*Gehad Elsayed Mahmoud*
- 9** **Prevalence of Newcastle Disease Virus and Avian Influenza Virus (H7N3) in Poultry at Karachi**  
*Amjad Ali Channa, Nazeer Hussain Kalhor, Zaheer Ahmed Nizamani, Ayaz Hussain Mangi, Jamila Soomro*
- 15** **Small Dense Low-Density Lipoprotein as Risk Factor for Atherosclerosis in Type 2 Diabetes Mellitus**  
*Haji Muhammad Rashid, Hiza Hassan, Mudassar Khan, Jamal Khan, Hasanat Khan*
- 19** **Preliminary Behavior of Chinkara (*Gazella Bennettii*) under Captive Conditions with Future Conservation Strategies**  
*Muhammad Idnan, Arshad Javid, Muhammad Nadeem, Ali Hussain, Sajid Mansoor, Waqas Ali, Syed Mohsin Bukhari*
- 27** **Meta-analysis of Prevalence of Depression, Anxiety and Stress Among University Students**  
*Shifa Shaffique, Sehar Shahzad Farooq, Haseeb Anwer, Hafiz Muhammad Asif, Muhammad Akram, Soon Ki Jung*
- 33** **Consequences of Microwave Electromagnetic Radiation Exposure on Germination and Free Proline Content of Green Gram and Red Bean**  
*Saima Ibrahim, Yasra Bashir, Salma Zaki, Samia Mehmood, Umul Mustafa, Afreen Khanum, Kainat Ishtiaq, Fabiha Maheen, Amber Rehmat*
- 39** **Machine Learning Based Statistical Analysis of Emotion Recognition using Facial Expression**  
*Aqib Ali, Jamal Abdul Nasir, Muhammad Munawar Ahmed, Samreen Naeem, Sania Anam, Farrukh Jamal, Christophe Chesneau, Muhammad Zubair, Muhammad Saqib Anees*
- 47** **Phytochemical Evaluation and Anti-Inflammatory Activity of Ethanolic Extract of *Calotropis procera* Leaves**  
*Naveed Aslam Dogar, M. Hamza Shahid, Hafiz Usama Shaukat, M. Abubakar Khan, Farooq Saleem*
- 53** **Investigating Age Dependent Diversification of Bone Biomarkers in Females**  
*Farah Jabeen, S. Ayesha Sehrish, Afshan Zeeshan Wasti, Farha Aziz*

### REVIEW ARTICLES

- 61** **A Preliminary Up-To-Date Review on Pakistani Medicinal Plants with Potential Antioxidant Activity**  
*Adil Hussain*

### Instructions for Authors