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## Editorial Note

Our immense pleasure is to present you with our pristine collection of articles. The assemblage of research articles is based on the spirit of interdisciplinary exchange and for growth of knowledge. It is an intellectual pursuit to make bridges among our academic experts, prolific writers, policy makers, and young scholars and students. J-BES was introduced in 2024 by the School of Zoology at Minhaj University Lahore. It is an international, open access, bi-annual, and peer-reviewed Basic and Emerging Sciences journal.

J-BES is a collective effort of all editorial board members. Our team members aim to synergize their potentials and efforts to create a multi-disciplinary, productive, and inclusive international academic fraternity in Minhaj University Lahore. Moving forward with a pro-student approach, we consider students and young scholars as our primary asset and important target audience. The basic purpose is to develop a reading habit and promote a culture of knowledge exchange in students. Therefore, our aim is to encourage academia, experts, writers, and young scholars to contribute theoretical and empirical research papers and articles with current and historical insights. To acknowledge the significance of the latest debates and discussions and pitch in with these emerging discourses. J-BES also accepts the reviews of the latest books or texts for publication. The recent J-BES presentation included a variety of cross-disciplinary science topics.

The issue starts with the contribution of Kashaf Saadat with his co-authors. First paper, entitled "Identification, Characterization and Evolutionary Patterns of Abiotic Stress Related Gene(s) in *Moringa Oleifera*" The research look at the seedling growth, morphological and molecular level changes of *Moringa* under saline soil conditions. Additionally, it advocates that *Moringa oleifera* has genes linked to abiotic stress induced resistance and their reaction to various stress situations are investigated in this research. The analysis reveals that members of the WARKY, TPPS and TPS genes family have an important role in the plant's response to abiotic stress and are viable candidates for further characterization.

The second article entitled as "Effect of *Linum Usitatissimum* and *Sesamum Indicum* Extract as Growth Promoters a Diets of Fingerlings of *Ctenpharyngodon idella*" is written by Dr. Muhammad Ashraf. He, and his co-authors, designed a 90-day feeding trial to investigate the effects of dietary supplementation of *Linum usitatissimum* seed extract and *Sesamum indicum* seed extract on hematological traits and growth of fingerlings *Labeo rohita*.

The third paper is contributed by Sidra Safdar from Department of Wildlife and Ecology in University of Veterinary and Animal Sciences, Lahore, contributed a paper entitled as "Behavioral assessment and Activity Pattern of Two-toed Ostrich (*Struthio camelus*) in captive environment" with her co-authors from the same institution. The authors claim that the behaviour of ostrich is not well studied in wild or captivity. So the current study was designed to observe and compare the behavioral trends in ostrich in three different captive environments i.e. Lahore Zoo (a highly urbanized locality), Captive Breeding and Research Center, UVAS (a semi-urban site), and Rachna Wildlife Park (a semi-captive environment).

Forth manuscript entitled "Correlation study of thyroid disorders in patients with *Diabetes mellitus* (type I and II) from Pakistan" was presented by Sumaira Mehboob, Associate Professor, from School of Biochemistry. Her research was aimed to evaluate the correlation between the two conditions, with diabetic females having a higher chance of thyroid malfunction. This study demonstrates the positive correlation of both endocrine disorders in our local community which would help the clinicians in treatment of patients suffering with health issues.

Three researchers from University of Engineering & Technology Lahore, Muhammad Hamza Rasheed et al has written fifth article for the journal entitled as " Synthesis, Characterization and Biological Evaluation of Cu-Ni Bimetallic Nanoparticles (N.P.)" in collaboration with Shaista Taaj and , Ezaz Gilani. This essay argues that the plant extracts contain various photochemical contents reducing and capping agents towards the metal ions in the solution. At 368 and 206 nm, respectively, the synthesized particle had UV absorption of 0.085 and 0.347. The widespread peaks are roughly  $817\text{ cm}^{-1}$ , indicating that the C-H group is present on the surface of NP.

The last (sixth) paper entitled as "Impacts of Heavy Metals and Behavioral Changes in Humans" contributed by Dr. Hassaan Bin Saadat from the College of Earth and Environmental Sciences, at University of the Punjab Lahore. It focuses on the various behavioral changes which are associated with heavy metals' exposure such as anxiety, stress, depression, irregular heartbeats, decrease in power and strength, lack of confidence, restlessness, lack of tolerance and aggressions among the individuals and the society as a whole.

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