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1. Effects of lead heavy metal exposure on anatomical structure of bread wheat (*Triticum aestivum* L. cv. Krasunia Odeska)

Adnan Akcin^{1*}, Tülay Aytas Akcin², and Erkan Yalcin²

J. Appl. Biol. Sci., 19 (3): 164-171, September 2025

DOI: <https://dx.doi.org/10.71336/jabs.1472>

2. Investigating the impact of ethyl methanesulfonate (EMS) on in vitro germination indices of sorghum with Taguchi design

Adnan Kisacik , and Muhammad Aasim * 

J. Appl. Biol. Sci., 19 (3): 172-178, September 2025

DOI: <https://dx.doi.org/10.71336/jabs.1495>

3. Computational drug design targeting MYH7 for hypertrophic cardiomyopathy integrating molecular docking, Density Functional Theory, and Molecular Dynamics Simulations

Nimra Hanif^{1*}, Amina Arif¹, Sadia Ali¹, Muqddas Anees², Mavra Anees¹, Arooj Arshad¹, and Muhammad Asim¹

J. Appl. Biol. Sci., 19 (3): 179-192, September 2025

DOI: <https://dx.doi.org/10.71336/jabs.1477>

4. Antifungal activity of some essential oils against the post-harvest fungal pathogens of guava (*Psidium guajava* L.)

Priyanka Khadka¹, Hari Sharan Adhikari^{2,3*}, and Sanjay Kumar Jha¹

J. Appl. Biol. Sci., 19 (3): 193-202, September 2025

DOI: <https://dx.doi.org/10.71336/jabs.1442>

5. A phylogenetic analysis of the polychaeta based on mitochondrial CO1 and 16S rRNA gene sequences

Jared M. Corpuz¹, Wilhelm M. Javier¹, Eleanor S. Austria¹, Mary Jhane G. Valentino²

J. Appl. Biol. Sci., 19 (3): 203-209, September 2025

DOI: <https://dx.doi.org/10.71336/jabs.1454>

6. Binding studies of Ruthenium(II) polypyridyl complexes with DNA isolated from spinach extract

Lohidas Anitha Mabel Gaflin Shelty¹, Thangadurai Sumitha Celin*¹ and George Allen Gnana Raj¹

J. Appl. Biol. Sci., 19(3): 210-215, September 2025

DOI: <https://dx.doi.org/10.71336/jabs.1469>

7. Cadmium toxicity in garden cress (*Lepidium sativum* L.): germination and vegetative stage responses

Hande Otu Borlu^{1*}, Veli Çeliktaş², Asena Aslan¹, and Özgür Bahçivan¹

J. Appl. Biol. Sci., 19 (3): 216-223, September 2025

DOI: <https://dx.doi.org/10.71336/jabs.1484>

8. *In-vitro* plant regeneration of mature adlai (*Coix lacryma-jobi* L.) embryos using coconut water as a natural alternative growth promoter

Jean H. Pontillas^{1,2} , Joseph C. Diaz^{1,3} , Nonnatus S. Bautista⁴  and Mary Jhane G. Valentino¹ 

J. Appl. Biol. Sci., 19 (3): 224-231, September 2025

DOI: <https://dx.doi.org/10.71336/jabs.1494>

9. Determination of the effects of monosodium glutamate, calcitriol and coenzyme Q substances on suppressing immune system cells

Majed SM SABAH ¹, Didem TURGUT COSAN ^{*1,2}, İ. Ugur CALIS ³, Fezan MUTLU ⁴

J. Appl. Biol. Sci., 19 (3): 232-236, September 2025

DOI: <https://dx.doi.org/10.71336/jabs.1509>

Letter from the Editor

Dear Readers,

It is with great pleasure that we present to you the third issue of the Journal of Applied Biological Sciences (JABS) for the year 2025. Our journal has adopted the mission of promoting interdisciplinary and original research in applied biology and related disciplines, thereby enriching scientific dialogue and contributing to universal knowledge.

This issue features important studies covering a broad spectrum from plant biotechnology and molecular biology to ecology and food safety. Among these works are studies on the anatomical and developmental effects of heavy metal toxicity in wheat and garden cress, the impact of mutagens on sorghum germination, the efficacy of natural antifungal oils for guava fruits, and the in vitro regeneration of the Adlai plant using coconut water. Furthermore, noteworthy articles presented to our readers include bioinformatics-based drug design targeting the MYH7 gene for the treatment of hypertrophic cardiomyopathy, DNA-interactive Ru(II) complexes, phylogenetic analysis of Polychaeta species, and biochemical effects of various compounds on immune cells.

We believe that these valuable, peer-reviewed, and original contributions will open new horizons for our esteemed readers, both theoretically and practically.

We extend our sincerest gratitude to all our authors, the valuable reviewers, and our editorial team for their efforts in preparing this issue. We wish you enjoyable reading.

Sincerely,

Prof. Dr. Mehmet KARATAŞ

Editor in Chief

Journal of Applied Biological Sciences

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