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1. Comparative antibacterial activity of silver nanoparticles from *Blumia lacera* and *Neolamarckia cadamba* against methicillin-resistant *Staphylococcus aureus*

Kalpesh Khutade^{1*}, Harshila Dhinde², Nisha Kumari³, and Harshada Shah⁴

J. Appl. Biol. Sci., 19 (1): 1-7, January 2025

DOI: <https://doi.org/10.71336/jabs.1371>

2. Quality assessment of *Gruhadhooma Taila*: Indigenous oil used in nasal polyposis (*Nasarshas*)

Punchihewage Sanduni Namashi Jayathma Punchihewa¹, Liyanage Dona Ashanthi Menuka Arawwawala², Kaluthanthrige Priyani Padmashika Peiris^{3*}, and Kalani Kalhari Biyanwila⁴

J. Appl. Biol. Sci., 19 (1): 8-12, January 2025

DOI: <https://doi.org/10.71336/jabs.1374>

3. Production of kojic acid by *Aspergillus niger* (PP330720) and *Penicillium digitatum* (PP892864) grown on guinea corn (*Sorghum bicolor*) sheaf

Majekodunmi Rachael Adedayo¹, and Titilayo Elizabeth Adesokan^{*}

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DOI: <https://doi.org/10.71336/jabs.1370>

4. Isolation, identification and mutants generation of isolate 04 for its improved bioconversion of ferulic acid to vanillin

Nagaraju Bathini¹, Vishnuvardhan Reddy Sultanpuram², and Thirumala Mothe^{3*}

J. Appl. Biol. Sci., 19 (1): 23-29, January 2025

DOI: <https://doi.org/10.71336/jabs.1381>




5. Phytochemical analysis of various solvent extracts of mangrove plant associated *Bacillus* spp.

Ruchi Malik^{1*}, and Rajesh C. Patil²

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DOI: <https://doi.org/10.71336/jabs.1400>

6. Harnessing native flora and rhizobacteria in floating wetlands for sustainable water decontamination

Azka Javaid , Shumaila Naz * , and Sohail Hameed 

J. Appl. Biol. Sci., 19 (1): 38-45, January 2025

DOI: <https://doi.org/10.71336/jabs.1405>




7. Bioaccumulation of copper and its effects on growth and biochemical parameters in bitter gourd (*Momordica charantia*) plants

Vijay Mami^{1,2*} , Amudhavadhani Raman² , and Anusha Ravikumar² 

J. Appl. Biol. Sci., 19 (1): 46-54, January 2025

DOI: <https://doi.org/10.71336/jabs.1407>



8. Growth rate and morphology of *in vitro* cultivated *Dendrobium bigibbum* as affected by different photoperiod cycles

Karl Joshua P. Antonio , Eden S. David , and Mary Jhane G. Valentino* 

J. Appl. Biol. Sci., 19 (1): 55-60, January 2025

DOI: <https://doi.org/10.71336/jabs.1384>

9. Eco-friendly bioplastic from *Pontederia crassipes*: cellulose and carboxymethyl cellulose biopolymers for sustainable, biodegradable bioplastic film

M. Abiyoga¹ , and P. Saravana Kumari^{1*} 

J. Appl. Biol. Sci., 19 (1): 61-69, January 2025

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Letter from the Editor

Dear Researchers and Readers,

The importance of scientific knowledge and academic discussion is greater than ever. Therefore, I am pleased to present the new issue of our journal. Additionally, we are proud to announce that the Journal of Applied Biological Sciences (JABS) has entered its 19th year. We extend our gratitude to our authors, reviewers, and readers who have supported us throughout this journey.

In this issue, we continue to feature pioneering research, innovative approaches, and multidisciplinary studies. Among our objectives is to publish more original articles and contribute valuable insights to the scientific literature.

I believe that the articles in this issue will contribute to future studies in their respective fields. We extend our thanks to all our authors for offering new perspectives to the scientific community. Likewise, we are grateful to our reviewers for maintaining the high quality of our publications through their rigorous evaluation process.

The main topics covered in this issue include studies on the bioconversion of ferulic acid to vanillin, phytochemical analysis of solvent extracts from *Bacillus spp.* associated with mangrove plants, kojic acid production by *Aspergillus niger* and *Penicillium digitatum* grown on guinea corn (*Sorghum bicolor*) sheaf, utilization of native flora and rhizobacteria in surface water, quality assessment of Gruhadhooma Taila, antibacterial activity of silver nanoparticles, eco-friendly bioplastic production from *Pontederia crassipes*, the effects of different photoperiod cycles on the growth of *Dendrobium bigibbum*, and copper bioaccumulation and its impact on the growth of bitter melon (*Momordica charantia*). We believe researchers in these fields will gain new insights from these articles.

We will continue to include high-quality studies that contribute to science and the academic world in our future issues. The opinions and feedback of our valued readers and researchers are highly important to us. We welcome your contributions and suggestions.

We declare our commitment to working harder to publish a better journal and invite you to support us by submitting articles and promoting our journal. Happy reading.

Sincerely,
Prof. Dr. Mehmet KARATAŞ
Editor in chief