

Table of Contents

Volume 32, Issue 5 — May 2025

Research Articles

1.

Isolation, Cytotoxic Activity and Phylogenetic Analysis of *Bacillus* Sp. Bacteria Associated with the Red Sea Sponge *Amphimedon ochracea*

Sarah Melnyk, Julia Zhang, Julia Zhang

Keywords: Marine Sponges; Bacillus; Cytotoxic Activity; Phylogenetic Analysis; Microbiology; Bioactivity

2.

Collaborative Approaches in Botanical Conservation: Past, Present, and Future Directions

, Yong Ouedraogo

Keywords: Botanical Conservation; Ecosystem Management; Biodiversity Preservation; Collaborative Research; Environmental Science

3.

Inhibition Effect of 5-Phenyl 2H-Tetrazole on Corrosion of Copper in Presence of 1M HCl

Chidi Ricci, Freya Becker, Antonio Meyer, Freya Becker, Antonio Meyer

Keywords: Corrosion Inhibitor, Copper, Tetrazole, Hydrochloric Acid, Electrochemistry, Temperature Effect

4.

Assessing the Impact of Urban Green Spaces on Local Biodiversity and Air Quality

Ana Silva, Hiroshi Tanaka, Priya Nair, Fatou Wagner, Luca Brown

Keywords: Urban Green Spaces; Biodiversity; Air Quality; Urban Ecology; Environmental Planning

5.

Performance of Disk Harrow as a Primary Cultivation Tool in Loamy Sand Soil

Astrid Olsson, Fatou Taylor, Jun Sato, Viktor Liu, Fatou Taylor, Jun Sato, Viktor Liu

Keywords: Disk Harrow; Soil Cultivation; Tillage; Loamy Sand; Agricultural Machinery; Soil Cone Index

6.

Design and fabrication of Robo element replacing a human arm in Human body

Giuseppe Schmidt, Miguel Wang

Keywords: Prosthetics; Artificial Limb; Robotic Arm; Medical Devices; Mechanical Design; Assistive Technology