



ISSN NO. 2320-5407

ISSN(O): 2320-5407 | ISSN(P): 3107-4928

International Journal of Advanced Research

Publisher's Name: Jana Publication and Research LLP

www.journalijar.com

REVIEWER'S REPORT

Manuscript No.: IJAR-55815

Title:

PHYTOCHEMICAL INVESTIGATION, ANTIBACTERIAL AND ANTI-INFLAMMATORY ACTIVITIES OF MUSSAENDA ELEGANS AND SMEATHMANNIA LAEVIGATA: CONTRIBUTION TO THE VALORIZATION OF GUINEAN MEDICINAL PLANTS

Recommendation:

Accept as it is
Accept after minor revision...
Accept after major revision
Do not accept (*Reasons below*)

Rating	Excel.	Good	Fair	Poor
Originality		Good		
Techn. Quality		Good		
Clarity		Good		
Significance	Excellent			

Reviewer Name: Dr. Sumathi

Detailed Reviewer's Report

1. *Mussaenda elegans* is a tropical flowering shrub from the coffee family Rubiaceae, known as the wild mussaenda or dhobi tree, native to West Africa, characterized by its showy, colorful, petal-like sepals (bracts) that are usually white, though variations exist, appearing with small, true flowers and making it a popular ornamental plant in warm climates, often used as hedges or specimen plants.
2. Phytochemical investigation is the scientific study of chemicals (phytochemicals) in plants, involving extraction, isolation, and analysis to identify compounds like flavonoids, alkaloids, and terpenes, often to discover new drugs, understand traditional medicine, or ensure product safety by detecting contaminants and verifying active ingredients.
3. It's a fundamental process in natural product research, bridging traditional uses with modern pharmacology to find bioactive agents for health and medicine.
4. An antibacterial is any agent (drug, chemical, or substance) that kills bacteria bactericidal or stops them from multiplying bacteriostatic,

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working specifically against bacteria, unlike broader antimicrobials that target viruses, fungi, etc.. Found in medicines (antibiotics) and household items like soaps, sanitizers, and cleaning sprays, they prevent infections and promote hygiene by disrupting bacterial growth or structure.

5. A drug or substance that reduces inflammation (redness, swelling, and pain) in the body. Anti-inflammatory agents block certain substances in the body that cause inflammation. They are used to treat many different conditions. Some anti-inflammatory agents are being studied in the prevention and treatment of cancer.
6. Valorization is the process of creating, enhancing, or assigning value to something, often by making it more useful, marketable, or economically profitable, turning waste into resources, or increasing prices through organized action like government support; it applies in sustainability (waste-to-value), economics (price stabilization), and research (commercializing discoveries).
7. Key words should give more to understand.
8. Result and discussion part should be in separate.
9. Pictures with tables are good.
10. Summary points must be added.
11. After those changes good to publish in your journal.