EuroSciCon

13th International Conference on

Alternative Medicine

June 24, 2022
Webinar

Alternative & Integrative Medicine
ISSN: 2327-5162

Antibacterial, Antifungal and Antiviral Properties of Malpighiaceae Family and Its Potential Impact for Oral Cavity Infectious Diseases

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Recently, the impact of oral infections on global human health and their importance in the complications of patients with some chronic conditions have been recognized. Current medical treatments deal with the specificity and resistance of pathogenic strains of the oral cavity made up of by bacteria, fungi and viruses; thus, novel substances are necessary for use as effective drugs. Plants have been a source of active chemical agents since ancient times; however, a number of family plants still remain unstudied. This is the case of Malpighiaceae, a flowering plant family that possesses secondary metabolites that have exhibited a variety of pharmacological effects with promising results.

Objectives

1. To provide an overview of the extracts and active constituents isolated from species belonging to the Malpighiaceae family

2. To emphasize their activities against bacteria, fungi and viruses during recent years and their potential impact on the pathogens of the oral cavity.

Methodology

Electronic databases PubMed, Reference Manager, Scopus, Web of Science and Google Scholar were systematically reviewed for publications that present data on Malpighiaceae species that exert activities on bacteria, fungi, and viruses.

Results

In general, the articles that studied the antibacterial activity of Malpighiaceae family constituted 50% of the articles included; while antifungal studies constituted 40% of all articles included. The most studied genus was Candida spp

Conclusion

To the best of our knowledge, the present study is the first report of the Malpighiaceae family and its pharmacological data for oral infectious diseases.

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Biography

Getsemaní Sinaí Villanueva Amador is a Biologist and has completed her MSc from Universidad Nacional Autónoma de México (UNAM, National Autonomous University of Mexico). Her professional experiences comprise working as a researcher in Phytochemistry, Molecular Biology and Micology. She is also a professor of Botany in the Biology career at Science Faculty, at UNAM. She has published 3 papers since 2020.

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Received: May 4, 2022 | **Accepted:** May 9, 2022 | **Published:** June 30, 2022