



MARINE FLORA: A SOURCE OF POTENTIAL ANTI-H₁N₁ COMPOUNDS

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ABSTRACT

Commonly known as swine flu, H₁N₁ is caused by a variant of Influenza A, responsible for higher mortality and morbidity throughout the world. The struggle of world against H₁N₁ is completing almost a century now. A serious threat has been posed to human health due to its persist occurrence. In the last decade alone, the number of clinically approved drugs for the treatment of swine flu has escalated from 5 to 30. Pathological analysis has revealed the susceptibility of H₁N₁ influenza A (swine flu) to oseltamivir and zanamivir. However due to problems of increasing resistance and drug toxicity, successful control of infections related to viruses has settled as an unachieved goal. Marine source, being an underexplored source, can be used for development of novel antiviral agents. Many compounds from the marine source have established their identity in the late stages of clinical trials and several have been chosen as likely leads for prolonged preclinical evaluation. Anti influenza compounds have been isolated from different forms of marine life like sea weeds, fungi, corals, sponges. In the current review emphasis has been laid on marine drugs which have shown in-vivo or in-vitro activity against swine flu: the mammoth of century.

Keywords: *Fungi, H₁n₁virus, Influenza, Marine, Resistance.*