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CHEMOTHERAPEUTICAL STUDIES OF 2-PYRAZINOYL HYDRAZIDE

AND 2- PYRAZINOYL HYDRAZONES AGAINST SOME FUNGI

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ABSTRACT

Mannich bases possess antibacterial, fungicidal, anti-inflammatory and analgesic activities. Chelating ligands and various derivatives like oximes, semicarbazones, hydrazones of benzaldehyde and substituted benzaldehydes have long been prepared, chacterised and analysed by analytical chemists for such activities. Some of these compounds may be active against micro-organisms like bacteria, fungi, or virus and some may be inactive. The ligands which are active against any of these micro-organism have wide spread applications as medicinal agents. Considering these facts here we have undertaken the screening of 2-pyrazinoyl hydrazide and its derivatives with various aromatic and heterocyclic aldehydes against various fungi. The present paper deals with the physiology and nutrition of fungi, their cultivation and culture and their screening using hydrazones derivatives of 2-pyrazinoyl hydrazide with various aromatic and heterocyclic aldehydes such as benzaldehyde, anisaldehyde, 4-hydroxy-3-methoxy benzaldehyde, p- (N,N-diethyl amino) benzaldehyde, cinnamaldehyde, 4-methyl salicyldehyde and 2-furfuraldehyde.

KEYWORDS: Fungicidal, Substituted Aldehydes, Hydrazones Derivatives, Ligands, Fungi