

A Review on Synthesis and Characterisation of Benzimidazole

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Abstract: *In the field of Medicinal Chemistry, the uses of heterocyclic compounds increased day by day, because in many biological materials, heterocyclic compound is a part of its structure. Benzimidazole is a heterocyclic compound which formed by fusion of benzene and imidazole. Benzimidazole contains two nitrogen's as heteroatom. Benzimidazole derivatives are more effective, medicinally useful compounds and extensive biochemicals. Derivatives of benzimidazole have found practical applications in various fields. Derivatives of Benzimidazole show many Pharmacological activities such as antihypertensive, anticancer, antiviral, antidiabetic, antimicrobial etc. Due to the applications of these drugs in treatment of microbial infections and other biological activities, motivates for the development of more potent and significant drugs. Pharmacological studies have been shown that these molecules are effective against various strains of microorganisms. The present review summarizes the various derivatives of benzimidazoles and their biological activities.*

Keywords: Heterocycle, Benzimidazole, antimicrobial activities

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