## IJARSCT

International Journal of Advanced Research in Science, Communication and Technology



International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

ernauonai Open-Access, Double-Binnu, Peer-Revieweu, Reiereeu, Mutuuiscipinnary Onnne Jouri



Volume 5, Issue 10, March 2025

## An Overview of the Bioactive Properties of Benzimidazole Derivatives

Kajal Gharat<sup>1</sup>, Aditi Ghara<sup>2</sup>, Komal Patil<sup>3</sup>, Prachi Mokal<sup>4</sup>, Sajid F. Shaikh<sup>5</sup>, Maryappa C Sonawale<sup>6</sup>, Amod N. Thakkar<sup>7</sup>

Student P. G. Department of Chemistry, Veer Wajekar ASC Collage Phunde, Uran, Raigad<sup>1-4</sup> Incharge Principal, Anjuman Islam College, Murud<sup>5</sup> Assistant Professor, Veer Wajekar ASC Collage Phunde, Uran, Raiga<sup>6</sup> Principal, Veer Wajekar ASC Collage Phunde, Uran, Raigad<sup>7</sup>

Abstract: Benzimidazole derivatives play a crucial role in the field of medicinal chemistry due to their diverse pharmacological properties, including antibacterial, antifungal, anthelmintic, antiviral, antidiabetic, and anticancer activities. As a fused heterocyclic system containing both benzene and imidazole rings, benzimidazole has garnered significant attention in modern drug discovery and development. Its structural versatility and broad-spectrum bioactivity make it a valuable scaffold for the design of novel therapeutic agents. This review highlights recent advancements in the chemistry and pharmacological potential of benzimidazole derivatives, emphasizing their significance in the development of new drugs...

**Keywords:** Benzimidazole, pharmacological properties, drug discovery, antibacterial, antifungal, antiviral, anticancer, anthelmintic, antidiabetic



