



## **ABSTRACT**

### **Research Paper**

## **SYNTHESIS, CHARACTERIZATION AND STUDY OF QUINAZOLINES AND THEIR ANTI-CANCER ACTIVITY AGAIN BREAST CARCINOMA**

**Md Zeeshan\*, Dr. Gunjan Jadon, Dr. Raghvendra Bhadauria, Mr. Awadh Kishor, Sunita Purohit**

\*Department of Pharmaceutical Chemistry, Shrinathji Institute of Pharmacy, Nathdwara, Raj. India

4-(3H) -Quinazolinone are an important class of Nitrogen containing heterocycles and are reported to possess a wide spectrum of biological activities. Quinazolinone analogues are being studied by many researchers for their useful biological properties such as antibacterial, antifungal, antiviral, anticonvulsant, analgesic, anti-inflammatory, anthelmintic and antitumor activities. Cytotoxicity and genotoxicity of anticancer drugs to the normal cells are major problems in cancer therapy and endanger the risk of inducing secondary malignancy. Quinazoline derivatives occupy a pivotal position in modern medicinal chemistry and have found applications as medicines. Various researches have been performed on quinazoline and their derivatives for anticancer activity and pharmacological importance.

**KEY WORDS** – Nitrogen containing heterocycles , Quinazoline, Anti- Cancer, Cytotoxicity.

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