

A REVIEW ON BIOLOGICAL ACTIVITIES OF QUINOLINE DERIVATIVES

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ABSTRACT

Quinoline and its derivatives have diverse biological activities and this functional moiety perform an important class of derivatives for the development of new drug. So many researchers have designed, synthesized and tested its biological activities on various target. Quinoline derivatives commonly used in myocardial infarction which is resulting from acute coronary occlusion (ischemia) reduces survival and leads to deterioration of the quality of life and restoration of blood flow. This restoration of blood flow after transient ischemia leads to detrimental changes such as arrhythmias, enzyme release, or severe intra-myocardial hemorrhage and this condition is known as Myocardial Ischemia Reperfusion Injury. In 1820, cinchona was extracted and quinine was isolated from this plant was widely used as active ant malarial agent. Further some more derivatives were derived like 8-hydroxy quinoline derivatives. Quinoline derivatives/compounds also reported as antiplasmodial, cytotoxic, ant proliferative, antibacterial, anticancer, antituberculosis and antimalarial.

KEYWORDS: Antimalarial, Quinoline, Cytotoxic, Antibacterial