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In Vitro Anti-inflammatory Activity ofQuinoxalin Sulfonamides

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Abstract: Quinoxaline is six membered heterocyclic nitrogen containing two nitrogen atoms are based on pyrazine so also called as benzopyrazine. αdicarbonyl compounds reacts with aromatic ortho-diamine by consecutive addition-elimination mechanism to give quinoxalines.[i]Quinoxaline have become attractive target of extensive research due to its inherent properties and therapeutic uses. Quinoxaline finds many pharmacological activities like antibacterial, antifungal, antituberculer, anti-inflammatory, antihyperglycemic, antitumor etc.

The present study includes the synthesis of sulfonamide derivatives of quinoxalines, by addition-elimination mechanism. All derivatives were characterized by TLC, IR, and MS1HNMR.Quinoxaline sulfonamide derivatives were then subjected to anti-inflammatory screening on albino rat by carageenan induced paw edema and activity was recorded by Plethysmometer (UGO Basile 7140).

Key words: Quinoxaline;Anti-inflammatory; paw edema.

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