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In Vitro Anti-inflammatory Activity of Quinoxalin 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. α dicarbonyl compounds reacts with aromatic ortho-diamine by consecutive addition-elimination mechanism to give quinoxalines. Quinoxaline have become attractive target of extensive research due to its inherent properties and therapeutic uses. Quinoxaline finds many pharmacological activities like antibacterial, antifungal, antitubercular, 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; Anti Cancer; Anti-HIV, Anti-Oxidant.

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