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Structure-antimutagenicity relationship of anthraquinones

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Mutagens are not only involved in genotoxicity and carcinogenesis but also involved in the inception and pathogenesis of several chronic degenerative diseases including hepatic disorders, neurodegenerative disorders, cardiovascular disorders, diabetes, arthritis, chronic inflammation and in the process of ageing. One of the best ways to minimize the detrimental effects of mutagens is by the use of natural antimutagens. Naturally occurring antimutagenic principles present in plants, human diet and other sources have protective effects against mutagens. These include flavonoids, phenolics, coumarins, carotenoids, anthraquinones, tannins, saponins and many more. The present review attempts to furnish a brief overview on structure-antimutagenicity relationships of natural and synthetic anthraquinones, to highlight on the structural features of anthraquinones which accounted for their activity.

Biography

Magdy M D Mohammed has completed his BSc at the age 22 years, and worked at National Research Center as Researcher Assistant by the year 2000. He finished his MSc in December 2005 and got promoted to the position as Assistant Researcher. He was awarded the PhD degree from Faculty of Science - El-Menoufia University, Egypt in December 2008. In June 2009 he was granted a German Egyptian Research Short term Scholarship [GERSS] for Post Doctor. He has been invited as a Visiting Researcher to the University of Southern Denmark - Department of Physics, Chemistry and Pharmacy for six months. He has participated in many local (Egypt) and international (India) conferences as a speaker. He has published more than 8 papers in reputed journals and serving as excellent reviewer in different reputed journals dealing with the isolation and structure elucidation of bioactive naturally occurring secondary metabolites from medicinal and terrestrial plants. His major research area is the isolation and structural elucidation of the different classes of natural occurring compounds, and then studies their biological activity and finally study the structure activity relationship.

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