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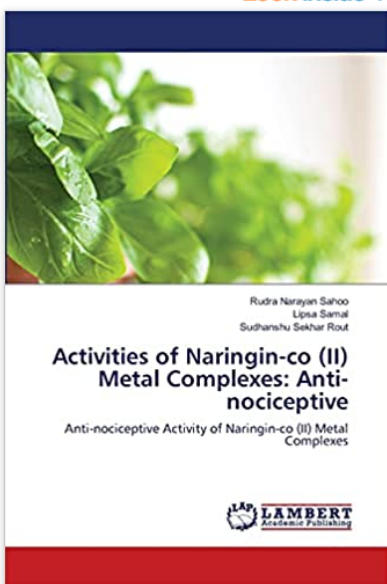
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# Activities of Naringin-co (II) Metal Complexes: Anti-nociceptive: Anti-nociceptive Activity of Naringin-co (II) Metal Complexes

by Rudra Narayan Sahoo (Author), LIPSA SAMAL (Author), Sudhanshu Sekhar Rout (Author)

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The activities of flavonoid are believed to increase when they are coordinated with transition metal ions. An attempt was made to understand the contribution of the metal coordination & type of interaction between a flavonoid & metal ion & evaluation of its biological activity. In this study a new metal complex of Co(II) with naringin was synthesized & characterized by FT-IR, UV-VIS spectrophotometer. Groups of six mice were treated with Cobalt Naringin Complex (10 mg/kg body weight), administered IP. Different tests were used for evaluating the anti-nociceptive effect or the influence on behavior of the tested substances on thermal nociception, chemical nociception & spontaneous behavior. In the current study it has been evaluated that the complex has a Co(II) ion coordinated via 4 and 5 position of the flavonoid. The metal binds with the flavonoid in the ratio 1:2, which was confirmed by Jobs method. Our preliminary data for response latencies for hot-plate and tail- flick tests suggest that systemically administered CNC produces a significant analgesic effect under thermal thermal nociceptive stimulation. The spontaneous behavior assay shows a significant decrease of activity.

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