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Pharmacognostic studies, bianthraquinones and spermidine alkaloid from *Cassia floribunda*

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The scientific study reveals that the origin of *Cassia floribunda* was from the Central America, but it is widely planted as an ornamental plant in tropical countries. The phyto-chemical and bio-chemical screening of *Cassia floribunda* belonging to the family Caesalpiniaceae was carried for its medicinal values based on its purgative, cathartic and antibiotic properties. Most of the materials have been collected from its floral parts. A qualitative phyto-chemical analysis was performed for the presence of alkaloids, flavanoids, glycosides, phenol, quinone, saponin, tannins and terpenoids. The extraction of seeds with each compound (chloroform, ethanol and butanol) was triplicate. In seeds of *Cassia floribunda* a predominant portion of albumins and globulins are present. Different observations has exposed that the presence of biological active compounds and chemical exhibited changes in reactivity of powders. Clinical efficacy of seeds of the plant *Cassia floribunda* was confirmed and the efficacy was contributed to its L-Dopa content. M.P extract showed twice the anti-parkinsonism activity compared with synthetic L-Dopa. Anti-nutritional factors such as total free phenolics, tannins, L-DOPA (3,4-dihydroxyphenylalanine), trypsin inhibitor activity, chymotrypsin inhibitor activity and haemagglutinating activity also were analyzed and resulting levels found were not considered a threat to human health if the seeds were properly processed. The HPLC technique was developed and validated for the determination of bianthraquinones.

Biography

Podila Venu has completed his MSc degree and was trained at The University of Greenwich, Kent under the supervision of Prof. Dr. Solomon Habtemariam.

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