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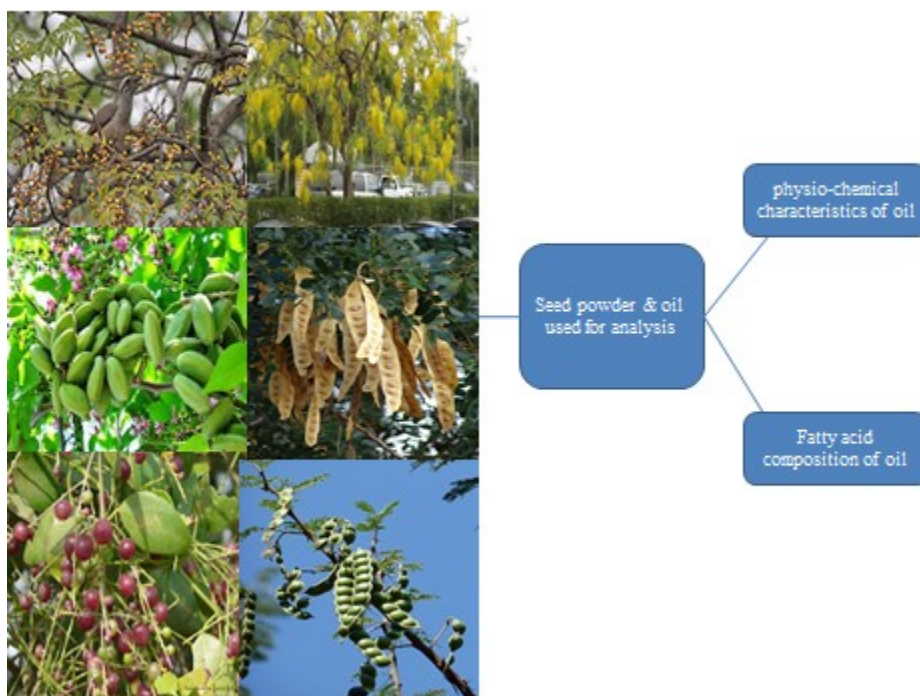
Locational variations of physiochemical characteristics of selected medicinal plants

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The present study evaluates the seed oils of different medicinal plants for physiochemical characteristics and fatty acid composition. In this study, petroleum-ether (60–80°C) was used for the extraction of oil using Soxhlet technique. The yield of extractable seed oil were ranged from $6.4 \pm 0.1\%$ to $42.5 \pm 0.4\%$. The peroxide value was ranged from 0.8 ± 0.1 to 2.2 ± 0.1 meq/kg. The mean iodine value of seed oil were lowest in case of *P. pinnata* and highest in *A. nilotica*. The saponification value of seed oil (184.2 ± 1.0 to 219.4 ± 0.7 mgKOH/g) and unsaponifiable matter was varied from (1.6 ± 0.1 – $7.2 \pm 0.1\%$). The oleic acid and linoleic acid was detected as the major fatty acid in seed oil .

Keywords: Medicinal plants, physiochemical characteristics, oils, fatty acid.