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Chemistry and Bioactivity of Seeds of *Pouteria campechiana*

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Pouteria campechiana (local name - *Lavulu*) is a golden yellow color popular edible fruit of the family Sapotaceae growing in tropical countries. Several phenolic compounds and carotenoids have been reported from the edible part of the fruits of *P. campechiana*. No previous chemical or biological investigations have been reported on the seeds of *P. campechiana*.

Dried and powdered seeds of *P. campechiana* were sequentially extracted with EtOAc and MeOH using a sonicator. The EtOAc extract, MeOH extract and the *n*-BuOH extract from the MeOH extract were subjected to bioassays for antifungal activity against *Cladosporium cladosporioides* using the TLC bioautography method; antioxidant activity against DPPH radicals by the TLC bioautoghaphy method; cytotoxicity against *Artemia salina* using the micro-well bioassay and phytotoxicity against *Lactuca sativa* seeds germination bioassay. The EtOAc extract was significantly active for all the bioassays tested and the *n*-BuOH extract showed significant activity in all the above bioassays except in the assay for phytotoxicity.

Chromatographic separation of the EtOAc extract and *n*-BuOH extract furnished eight compounds. Five were identified as taxifolin, quercetin, gallocatechin, 4-hydroxyacetophenone and a glycerol ester of an unsaturated fatty acid (MW 356). Structure elucidation of other compounds and the determination of bioactivity of individual compounds are in progress.