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**Chemical Investigation of Indian Plants:
Part VII***

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Several known compounds belonging to the class of alkaloids, carbohydrates, coumarins, flavonoids, lignans, quinones, sesquiterpenes, steroids and triterpenes have been isolated from a number of Indian plants.

In previous communications¹⁻⁶, we have reported the isolation of a large number of known compounds from plant sources. We wish to record the isolation of some more known compounds from plants given in Table 1.

All the plants were properly identified and the dried part of the material extracted with various

solvents. The compounds were isolated by usual techniques and their identity was established on the basis of elemental analysis and comparison of the m.m.p., TLC, UV and IR spectra with authentic samples.

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TABLE 1 — ISOLATION OF KNOWN COMPOUNDS

Plant	Family	Part	Solvent for extraction	Compound isolated	Ref.
ALKALOIDS					
<i>Diploclisia glaucescens</i> Diels	Menispermaceae	Roots	Methanol	Stepharine	7
<i>Piper nigrum</i> Linn.	Piperaceae	Whole plant	Hexane	Piperine	8
CARBOHYDRATES					
<i>Canthium didymum</i> Gaertn.	Rubiaceae	Leaves	Methanol	D-Mannitol	9
<i>Ligustrum neilgherrense</i> Dalz.	Oleaceae	Roots	do	do	9
COUMARINS					
<i>Ageratum conyzoides</i> Linn.	Compositae	Whole plant	Hexane	Coumarin	9
<i>Gordonia obtusa</i> Wall.	Ternstroemiaceae	Bark	Methanol	Ellagic acid	9
<i>Hymenodictyon obovatum</i> Wall.	Rubiaceae	do	Acetone	Scopoletin	9
<i>Peucedanum grande</i> C. B. Clark	Umbelliferae	Seeds	Acetone	Imperatorin Phellopterin Byakangelicol (<i>dl</i>) Byakangelicin (<i>dl</i>)	9
do	do	do	Hexane	Imperatorin Osthol	9
FLAVONOIDS					
<i>Diospyros melanoxylon</i> Roxb.	Ebenaceae	Leaves	Hexane	3,5-Dihydroxy-3',4', 7-trimethoxy flavone	10
LIGNANS					
<i>Gmelina arborea</i> Linn.	Verbenaceae	Heartwood	Hexane	Gmelinol	9
QUINONES					
<i>Ancistrocladus heyneanus</i> Wall.	Ancistrocladaceae	Roots	Ethanol	Droserone	9
<i>Tecomella undulata</i> Seem	Bignoniaceae	do	Methanol	Lapachol	9
SESQUITERPENES					
<i>Bixa orellana</i> Linn.	Bixaceae	Leaves	Hexane	Ishwarane	11
STEROIDS					
<i>Arcnynchia barberi</i> Gamb.	Rutaceae	Leaves	Hexane	Stigmasterol	9
<i>Adenoon indicum</i> Dalz.	Compositae	Whole plant	do	do	9
<i>Adenostemma viscosum</i> Forst.	do	do	do	β -Sitosterol	9
<i>Ageratum conyzoides</i> Linn.	do	do	do	Stigmasterol	9
<i>Aporosa acuminata</i> Thw.	Euphorbiaceae	Stem	do	β -Sitosterol	9
<i>Blumea mollis</i> Merr.	Compositae	Whole plant	Methanol	Stigmasterol	9
<i>Boerhavia diffusa</i> Linn.	Nyctaginaceae	do	Hexane	β -Sitosterol	9
<i>Bombax insigne</i> Wall.	Bombacaceae	Stem	do	do	9
<i>Bragantia wallichii</i> R.Br.	Aristolochiaceae	Roots	do	do	9
<i>Clausena willdenovii</i> W. & A.	Rutaceae	Stem	do	Stigmasterol	9
<i>Cryptolepis elegans</i> Wall.	Asclepiadaceae	Whole plant	do	β -Sitosterol	9
<i>Dysoxylum malabaricum</i> Bedd.	Meliaceae	Stem	do	do	9
<i>Girardinia zeylanica</i> Decne.	Urticaceae	Whole plant	do	do	9
<i>Gmelina arborea</i> Linn.	Verbenaceae	Heartwood	do	do	9
<i>Holigarna beddomei</i> Hk. f.	Anacardiaceae	Bark	do	do	9
<i>Holoptelea integrifolia</i> Pl.	Ulmaceae	Bark, leaves	do	do	9
<i>Hymenodictyon obovatum</i> Wall.	Rubiaceae	Bark	do	do	9
<i>Lasiosiphon eriocephalus</i> Decne.	Thymeleaceae	Root-bark, bark	do	do	9
<i>Maesa indica</i> Wall.	Myrsinaceae	Whole plant	do	do	9
<i>Mappia foetida</i> Miers.	Icacinaceae	Stem, bark	Acetone	do	9
<i>Memecylon terminale</i> Dalz.	Melastomaceae	Roots	Hexane	do	9
<i>Mimosa pudica</i> Linn.	Leguminosae	Seeds	do	do	9
<i>Naregamia alata</i> W. & A.	Meliaceae	Whole plant	do	Stigmasterol	9
<i>Piper hookeri</i> Miq.	Piperaceae	Roots	do	β -Sitosterol	9
<i>Piper trichostachyon</i> C. DC.	do	Whole plant	do	do	9
<i>Prosopis juliflora</i> Hk. f.	Leguminosae	Stem	do	Stigmasterol	9
do	do	Seeds	do	β -Sitosterol	9
<i>Pueraria tuberosa</i> DC.	do	Tubers	do	Stigmasterol	9
<i>Sarcostigma kleinii</i> W. & A.	Icacinaceae	Stem	do	β -Sitosterol	9

TABLE 1 — ISOLATION OF KNOWN COMPOUNDS — *Contd*

Plant	Family	Part	Solvent for extraction	Compound isolated	Ref.
STEROIDS (<i>contd</i>)					
<i>Senecio grahami</i> Hk. f.	Compositae	Whole plant	Acetone	Stigmasterol	9
<i>Sterculia urens</i> Roxb.	Sterculiaceae	Bark	do	β -Sitosterol	9
<i>Tiliacora racemosa</i> Colebr.	Menispermaceae	Roots	do	do	9
<i>Trema orientalis</i> Bl.	Ulmaceae	do	do	do	9
<i>Walsuva piscidia</i> Roxb.	Meliaceae	do	do	do	9
<i>Xylia xylocarpa</i> Taub.	Leguminosae	Wood	do	do	9
TRITERPENES					
<i>Bridelia stipularis</i> Bl.	Euphorbiaceae	Roots	Hexane	Taraxerone	9
<i>Diospyros condolleana</i> Wt.	Ebenaceae	Leaves	do	Taraxerol	9
<i>Holoptelea integrifolia</i> Pl.	Ulmaceae	Bark	do	Friedelin	9
<i>Neolitsea fischeri</i> Gamb.	Lauraceae	Leaves	do	Taraxerol	9
<i>Ochrocarpus longifolius</i> Benth. & Hk. f.	Guttiferae	do	do	Friedelin	9
<i>Piper trichostachyon</i> C. DC.	Piperaceae	Whole plant	do	do	9
<i>Pygeum gardneri</i> Hk. f.	Rosaceae	Stem	do	do	9
<i>Richardsonia pilosa</i> HBK.	Rubiaceae	Leaves	Acetone	Ursolic acid	9
<i>Synadenium grantii</i> Hk. f.	Euphorbiaceae	Stem, leaves	Hexane	Friedelin	9
				Epi-friedelinol	9
				Oleanolic acid	9
<i>Xanthophyllum flavescens</i> Roxb.	Rutaceae	Roots	Acetone		
do	do	do	Hexane	Lupeol	9

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