

# Past Successes

## Important Pharmaceuticals Derived from Plants

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### Alkaloids

Atropine, hyoscyamine, scopolamine

Camptothecin<sup>a</sup>

Cocaine

Codeine, morphine

Colchicine

Emetine

Galanthamine

Nicotine

Opiates

Physostigmine

Pilocarpine

Reserpine

Tubocurarine

Quinidine

Quinine

Vinblastine, vincristine

Yohimbine



### Terpenes and steroids

Artemisinin

Diosgenin<sup>a</sup>, hecogenin<sup>a</sup>, stigmasterol<sup>a</sup>

Taxol and other taxoids<sup>a</sup>

Digoxin, digitoxin

### Phenolics

Aspirin

Podophyllotoxin<sup>a</sup> - lignan (Etoposide)

Sennosides A and B - hydroxy-anthracene glycosides

### Others & Mixtures

Ipecac

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<sup>a</sup> Most often used as precursors in chemical synthesis of final products