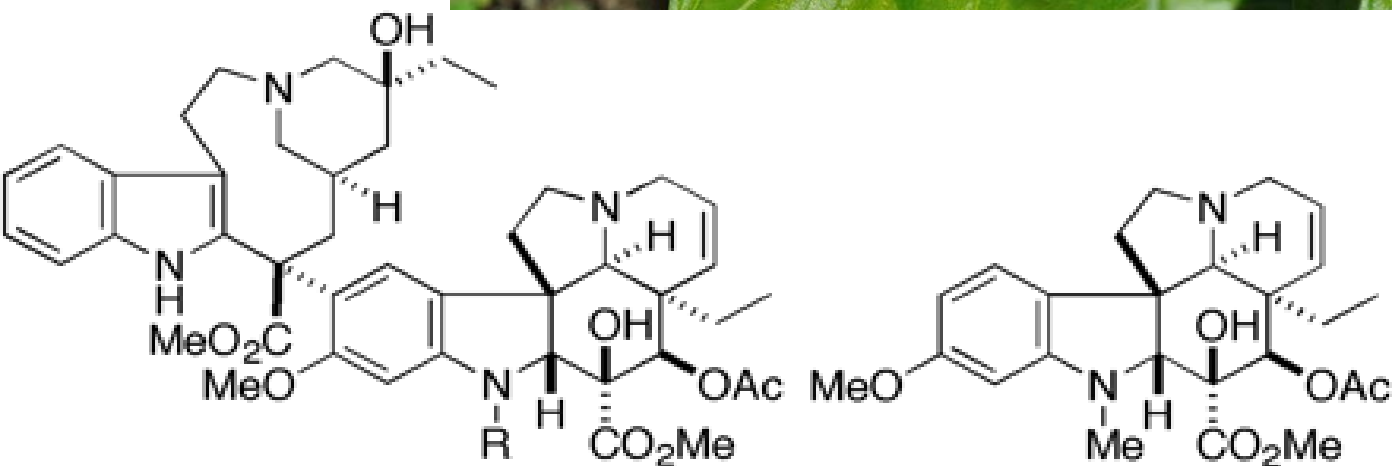


# INDOLE ALKALOIDS

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- ▶ Contains an indole moiety and are derived from tryptophan.
- ▶ Various groups of indole alkaloids have been isolated from more than thirty botanical families including the Apocynaceae, Rubiaceae, Loganiaceae, Passifloraceae, as well as several fungi.

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! R = Me: (+)-vinblastine (1)  
R = CHO: (+)-vincristine (2)

(-)-vindoline (3)

# Distribution of ergot alkaloids

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- ▶ The ergot alkaloids are indole compounds that are biosynthetically derived from L-tryptophan and represent the largest group of nitrogenous fungal metabolites found in nature.
- ▶ Other fungi and several higher plants can contain ergot alkaloids. Some examples of fungi are *Aspergillus fumigatus*, *Rhizopus arrizus*, *Penicillium roqueforti*, *Sclerotium dephini* and of plants, *Rivea corymbosa* and *Ipomoea tricolor*.

# Uses of ergot alkaloids

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2. Off-label indication for use as a diagnostic test for Prinzmetal's angina
3. Ergotamine tartrate is in abortion, prevention of vascular headaches, such as migraine, migraine variant, cluster headache, and histaminic cephalalgia.
4. Bromocryptine: therapy of hyperprolactinemia and pituitary prolactinoma, treat acromegaly. Parlodel™ Sandoz