

The Alkaloids Volume 73

Mitotic inhibitor binding to the vinca alkaloid site on tubulin. Hemiasterlin A and B exhibit stronger antiproliferative activities than both the vinca alkaloids and paclitaxel A mitotic inhibitor, microtubule inhibitor, or tubulin inhibitor, is a drug that inhibits mitosis, or cell division, and is used in treating cancer, gout, and nail fungus. Thus, cancer cells are more sensitive to inhibition of mitosis than normal cells. Mitotic inhibitors are used in cancer treatment, because cancer cells are able to grow through continuous division that eventually spread through the body (metastasize). Mitotic inhibitors are also used in cytogenetics (the study of chromosomes), where they stop cell division at a stage where chromosomes can be easily examined. These drugs disrupt microtubules, which are structures that pull the chromosomes apart when a cell divides e8e8d30818

Alkaloids are produced by a large variety of organisms including bacteria, fungi, plants, and animals. They can be purified from crude extracts of these organisms by acid-base extraction, or solvent extractions followed by silica-gel column chromatography. Alkaloids have a wide range of pharmacological activities including antimalarial (e.g. quinine), antiasthma (e.g. ephedrine), anticancer (e.g. homoharringtonine), cholinomimetic (e.g. galantamine), vasodilatory (e.g. vincamine), antiarrhythmic (e.g. quinidine), analgesic (e.g. morphine), antibacterial (e.g. chelerythrine), and antihyperglycemic activities... e8e8d30818 The efficacy and safety of kratom are unclear. In 2019, the US Food and Drug Administration (FDA) stated that there is no evidence that kratom is safe or effective for treating any condition. Some people take it for managing chronic pain, for treating opioid withdrawal symptoms, or for recreational purposes. The onset of effects... e8e8d30818 The simplest lysergamides are ergine (lysergic acid amide; LSA) and isoergine (iso-lysergic acid amide; iso-LSA). In terms of pharmacology, the lysergamides include numerous serotonin and dopamine receptor agonists, most notably the psychedelic drug lysergic acid diethylamide (LSD) but also a number of pharmaceutical drugs like ergometrine, methylergometrine, methysergide, and cabergoline. Various analogues of LSD, such as the psychedelics ALD-52 (1A-LSD), ETH-LAD, LSZ, and 1P... e8e8d30818 The most common sources of ergine for use as a drug are the seeds of morning glory species including *Ipomoea tricolor* (tltliltzin), *Ipomoea corymbosa* (ololiuhqui), and *Argyreia nervosa* (Hawaiian baby woodrose). Morning glory seeds have a history of entheogenic use in Mesoamerica dating back at least hundreds of years.... e8e8d30818

Indole alkaloid Indole alkaloids are a class of alkaloids containing a structural moiety of indole; many indole alkaloids also include isoprene groups and are thus called Indole alkaloids are a class of alkaloids containing a structural moiety of indole; many indole alkaloids also include isoprene groups and are thus called terpene indole or secologanin tryptamine alkaloids. Many of them possess significant physiological activity and some of them are used in medicine. Containing more than 4100 known different compounds, it is one of the largest classes of alkaloids. The amino acid tryptophan is the biochemical precursor of indole alkaloids e8e8d30818

Mitragyna speciosa "Kratom Alkaloids as Probes for Opioid Receptor Function: Pharmacological Characterization of Minor Indole and Oxindole Alkaloids from Kratom".
Mitragyna speciosa is a tropical evergreen tree of the Rubiaceae family (coffee family) native to Southeast Asia. They have also historically been consumed via chewing, smoking, and as a tea. (2021-07-21). Kratom has opioid-like properties and some stimulant-like effects. It is indigenous to Cambodia, Thailand, Indonesia, Malaysia, Myanmar, and Papua New Guinea, where its dark green, glossy leaves, known as kratom, have been used in herbal medicine since at least the 19th century e8e8d30818

Lysergamides They are ergolines, with some lysergamides being found naturally in ergot as well as other fungi. The ergot alkaloids are broadly classified into three groups—the clavines, ergoamides, and the ergopeptines, all of which are distinguished by the different Lysergamides, also known as ergoamides or as lysergic acid amides, are amides of lysergic acid (LA). Lysergamides are notable in containing embedded phenethylamine and tryptamine moieties within their ergoline ring system e8e8d30818

Opium The latex also contains the closely related opiates codeine and thebaine, and non-analgesic alkaloids such as papaverine and noscapine. The traditional, labor-intensive method of obtaining the latex is to scratch ("score") the immature seed pods (fruits. risk. The traditional Opium (also known as poppy tears, or *Lachryma papaveris*) is the dried latex obtained from the seed capsules of the opium poppy *Papaver somniferum*. Opium's main psychoactive alkaloids, primarily morphine, act on μ -opioid receptors, causing analgesia and addiction with long-term use leading to tolerance, dependence, and increased cancer risk. Approximately 12 percent of opium is made up of the analgesic alkaloid morphine, which is processed chemically to produce heroin and other synthetic opioids for medicinal use and for the illegal drug trade. The latex also contains the closely related opiates codeine and thebaine, and non-analgesic alkaloids such as papaverine and noscapine e8e8d30818

Coca alkaloid They are predominantly of either the pyrrolidine or the tropane types. Benzoylecgonine Coca alkaloids are the alkaloids found in the coca plant, *Erythroxylum coca*. They are predominantly of either the pyrrolidine or the tropane types. Coca alkaloids are the alkaloids found in the coca plant, *Erythroxylum coca* e8e8d30818

Ergine Gröger D, Erge D (1969). D (8): 418–419. Chem. J. Soc. "Biosynthesis of ergot alkaloids. doi:10. Lysergylalanine as precursor of amide-type alkaloids". Ergine is an

ergoline alkaloid found in fungi such as *Claviceps paspali* (ergot) and *Periglandula* species such as *Periglandula clandestina*, which are permanently connected with many morning glory vines. 1039/C29690000418 Ergine, also known as lysergic acid amide (LSA or LAA) as well as LA-111, is a psychoactive compound of the ergoline and lysergamide families related to lysergic acid diethylamide (LSD). Ergine induces relatively mild psychedelic effects as well as pronounced sedative effects e8e8d30818

Alkaloid Alkaloids are produced by a large variety of organisms including bacteria, Alkaloids are a broad class of naturally occurring organic compounds that contain at least one nitrogen atom. Some synthetic compounds of similar structure may also be termed alkaloids. Some synthetic compounds of similar structure may also be termed alkaloids e8e8d30818

Mitotic inhibitors are derived from natural substances such as plant alkaloids, and prevent cells from undergoing... e8e8d30818

Hordenine Chemically, hordenine is the N-methyl derivative of N-methyltyramine, and the N,N-dimethyl derivative of the well-known biogenic amine tyramine, from which it is biosynthetically derived and with which it shares some pharmacological properties (see below). As of September 2012, hordenine is widely sold as an ingredient of nutritional supplements, with sellers claiming that it stimulates the central nervous system and promotes weight loss by enhancing metabolism. In experiments in which animals are given sufficiently large doses parenterally (by injection), hordenine produces an increase in blood pressure as well as other disturbances. Mann, Jay D. Harvey (January 1963). "Alkaloids and Plant Metabolism"; Hordenine is an alkaloid of the phenethylamine class that occurs naturally in a variety of plants, taking its name from one of the most common, barley (*Hordeum* species). ; Mudd, S. hdl:1957/27227. secondary and tertiary amine alkaloids in barley malt (Thesis) e8e8d30818

Pyrrolizidine alkaloid Pyrrolizidine alkaloids (PAs), sometimes referred to as necine bases, are a group of naturally occurring alkaloids based on the structure of pyrrolizidine Pyrrolizidine alkaloids (PAs), sometimes referred to as necine bases, are a group of naturally occurring alkaloids based on the structure of pyrrolizidine. Their use dates back centuries and is intertwined with the discovery, understanding, and eventual recognition of their toxicity on humans and animals e8e8d30818

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