

Psychoactive Plants Part 2

"For most cultures, medicine has included the search for enlightenment or higher meaning through the use of sacramental plants. Herbs that fulfill these purposes are called psychotropic; literally, 'turning the mind.'" Russo 2001

Definitions

- Hallucinogens are:
 - Toxic (intoxicating) substances that lead to altered sensual perceptions (auditory, tactile, olfactory, gustatory, visual). Hallucinogens may also be called phantasticsans.
 - Chemicals which, in non-toxic doses, produce changes in perception, in thought and in mood, but which seldom produce mental confusion, memory loss or disorientation for person, place and time.

Psychopharmacology*

- Psychodysleptics (thought modification)
 - Visionary psychodysleptics
 - Imagery-inducing psychodysleptics
 - Trance-inducing psychodysleptics
 - Deliriant psychodysleptics
 - Nerotoxic psychodysleptics
- Psychoanaleptics (physical/mental stimulation)

*after Emboden 1979 & Diaz 1977

Hallucinogens

- Major Compounds Producing Visions
 - Phenethylamines
 - Cactaceae
 - Indole alkaloids
 - Apocynaceae, Acanthaceae, Malpighiaceae, Mimosaceae, Myristicaceae, Rybiaceae
 - Agaricaceae (*Psilocybe* mushrooms)
 - Isoaxzoles
 - Agaricaceae (*Amanita* mushrooms)
 - β -carbolines
 - Malpighiaceae, Zygophyllaceae

Hallucinogens

- Major Compounds Producing Images
 - Coumarins
 - Asteraceae
 - Dibenzopyrans
 - Cannabaceae
 - Phenylpropenes
 - Myristicaceae
 - Polyhydric Alcohols
 - Lamiaceae

Hallucinogens

- Major Compounds Producing Trances
 - Ergolines
 - Convolvulaceae
 - Hypocreaceae (Claviceps fungi)
 - Opiates
 - Papaveraceae

Hallucinogens

- Major Compounds Producing Deliriums
 - Tropane Alkaloids
 - Solanaceae
- Major Compounds Producing Profound Toxic Effects
 - Quinolizidine Alkaloids
 - Fabaceae, Lythraceae
 - Erythrinane Alkaloids
 - Fabaceae
 - Pyrrolizidine Alkaloids
 - Asteraceae

Modern Medicinal Uses

- Opiate Analgesia
- Opiate Addiction Reversal
- Psychoses
- Loss of Appetite
- Motion Sickness
- Nerve Poisoning
- Glaucoma



Datura spp.
Datura, Unmata

- Solanaceae
- Asia, Europe, South & North America
- Flowers, Seeds, Roots, Leaves
- Uses:
 - Divination, flight, dream induction
 - Rite of passage/initiation to adulthood
 - Pneumonia, heart diseases, toothache, asthma
- Scopolamine, meteloidine, hyoscyamine, cuscohygrine, nicotine

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Tabernanthe iboga
Iboga

- Apocynaceae
- West Africa
- Roots
- Uses:
 - Communication with ancestor spirits, rite of passage
 - Divination of illness
 - Aphrodesiac
- Ibogaine

Catharanthus roseus
Madagascar periwinkle

- Apocynaceae
- Madagascar
- Leaves
- Uses:
 - Euphoria/hallucinations as a side effect of treating cancer
- Vincristine, Vinblastine, Reserpine, Ibogaine, Yohimbine

G. Carr

Cannabis sativa
Marijuana

- Cannabaceae
- Central Asia
- Flowers, Leaves, Stems, Seeds
- Uses:
 - Ecstasy, concentration trances
 - Rite of passage (friendship/membership)
 - Numerous diseases
- Δ -tetrahydrocannabinol

Banisteriopsis caapi
Ayahuasca

- Malpighiaceae
- South America
- Bark
- Uses:
 - Diagnosis of illness and identification of remedies
 - Communion with gods
- Harmine, harmaline, etc.



Synsepalum dulcificum
Miraculous Berry

- Sapotaceae
- West Africa
- Fruit
- Uses:
 - Modification of taste sense
- Glycoproteins

sarasotafruitandnut.com



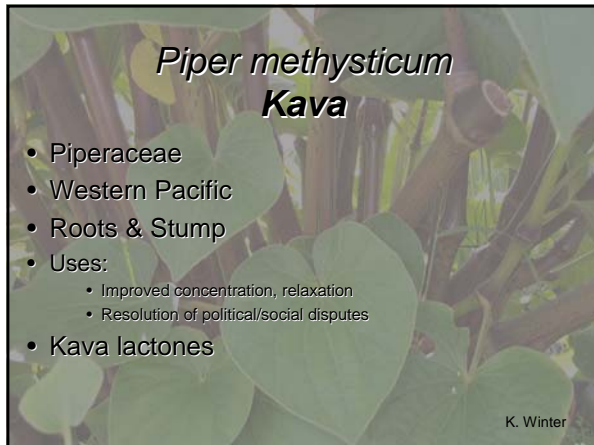
Piper betel
Betel Leaf

- Piperaceae
- Indo-Pacific
- Leaf, Floral Spike, Stems
- Uses:
 - Intestinal infections
 - Adjunct to Betel nut
- Piperine Alkaloids



Areca catechu
Betel Nut

- Arecaceae
- Indo-Pacific
- Fruit/Seed, Floral Branches
- Uses:
 - Improved concentration, relaxation
 - Intestinal parasites
- Arecoline



Piper methysticum
Kava

- Piperaceae
- Western Pacific
- Roots & Stump
- Uses:
 - Improved concentration, relaxation
 - Resolution of political/social disputes
- Kava lactones

K. Winter

Native Hawaiian Plants that are Related to Psychoactives

<u>Known Psychoactive</u>	<u>Native Hawaiian Species</u>
• Argemone mexicana, et Argemone glauca	
• Canavalia maritima	Canavalia kauaiensis, etc.
• Erythrina spp.	Erythrina sandwicensis, etc.
• Ipomoea violacea, etc.	Ipomoea littoralis, etc.
• Phytolacca americana	Phytolacca sandwicensis
• Rauvolfia serpentina	Rauvolfia sandwicensis, etc.
• Solanum nigrum, etc.	Solanum americanum, etc.
• Sophora secundiflora	Sophora chrysophylla, etc.