

MICHIGAN MANDELA EFFECT.

CIRCUITS IN THE BIBLE.

May 11, 2025



The Book of Psalms Chapter 19 verse 6:

“His going forth is from the end of the heaven, and his circuit unto the ends of it: and there is nothing hid from the heat thereof.”

The Book of Job Chapter 39 verse 10:



“Canst thou bind the unicorn with his band in the furrow? Or will he harrow the valleys after thee?”

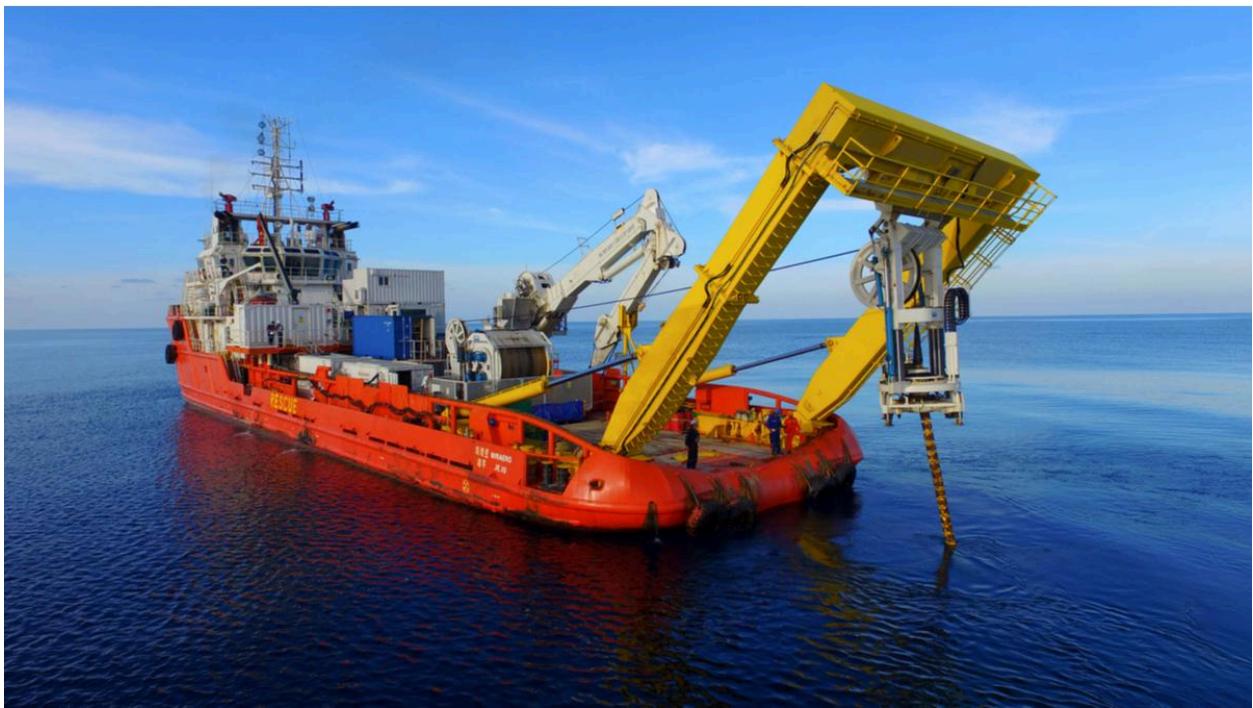
The Book of Psalms Chapter 19 verse 4:

“Their line is gone out through all the earth, and their words to the end of the world. In them hath he set a tabernacle for the sun,”

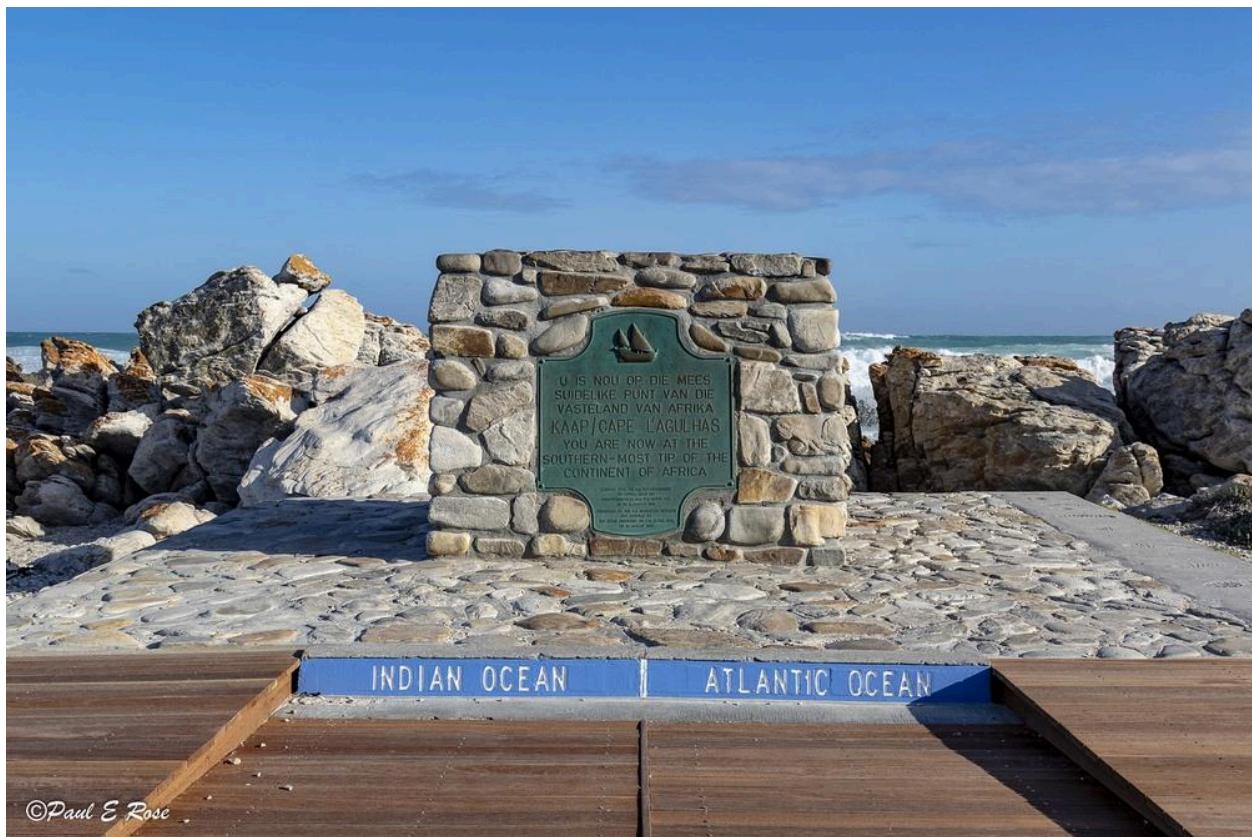
The Book of Deuteronomy Chapter 33 verse 23:

And of Nephtali he said, O Nephtali, satisfied with favor, and full with the blessing of the Lord: possesses thou the west and the south.









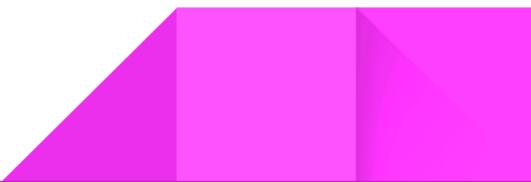
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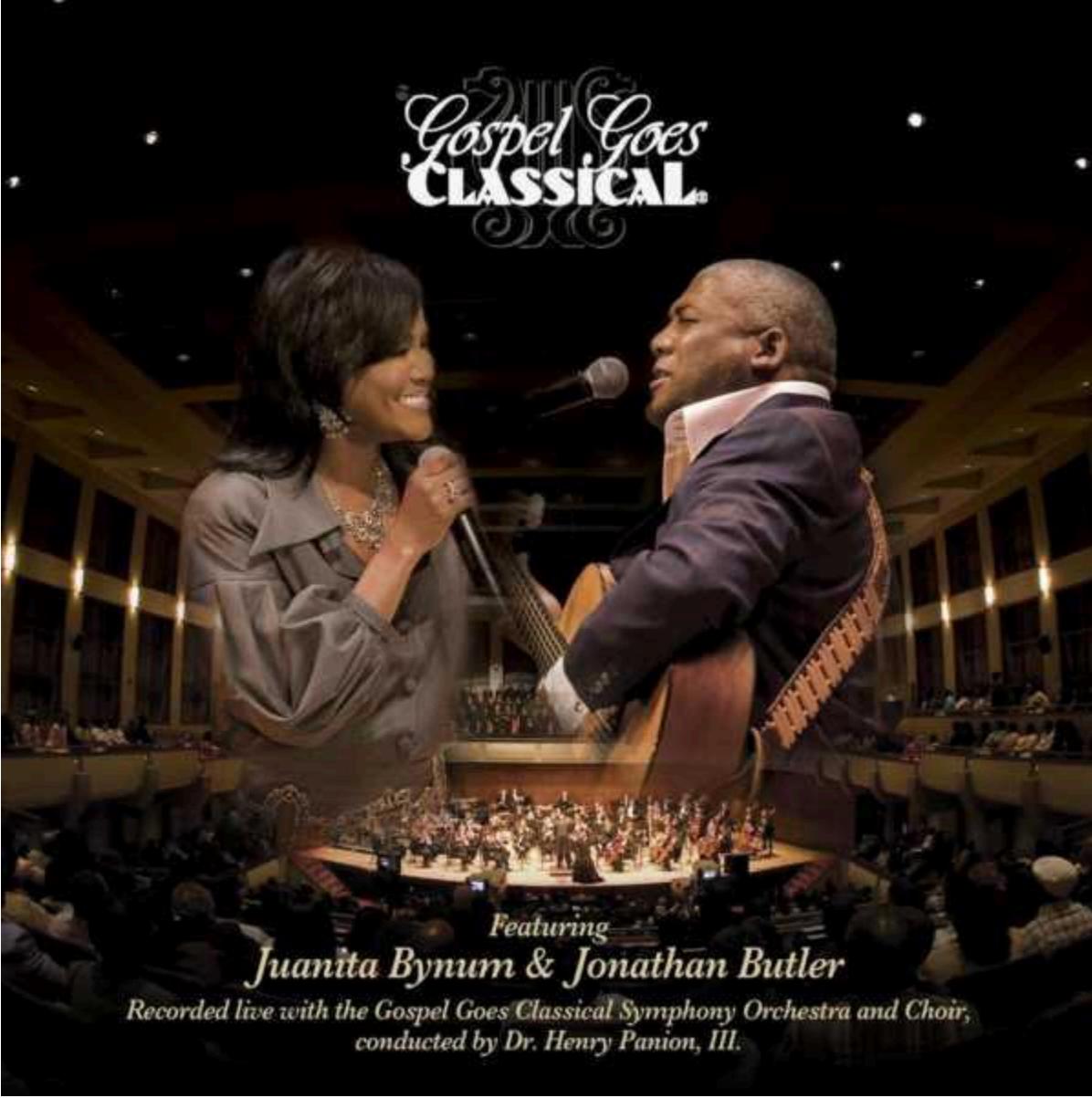












Gospel Goes
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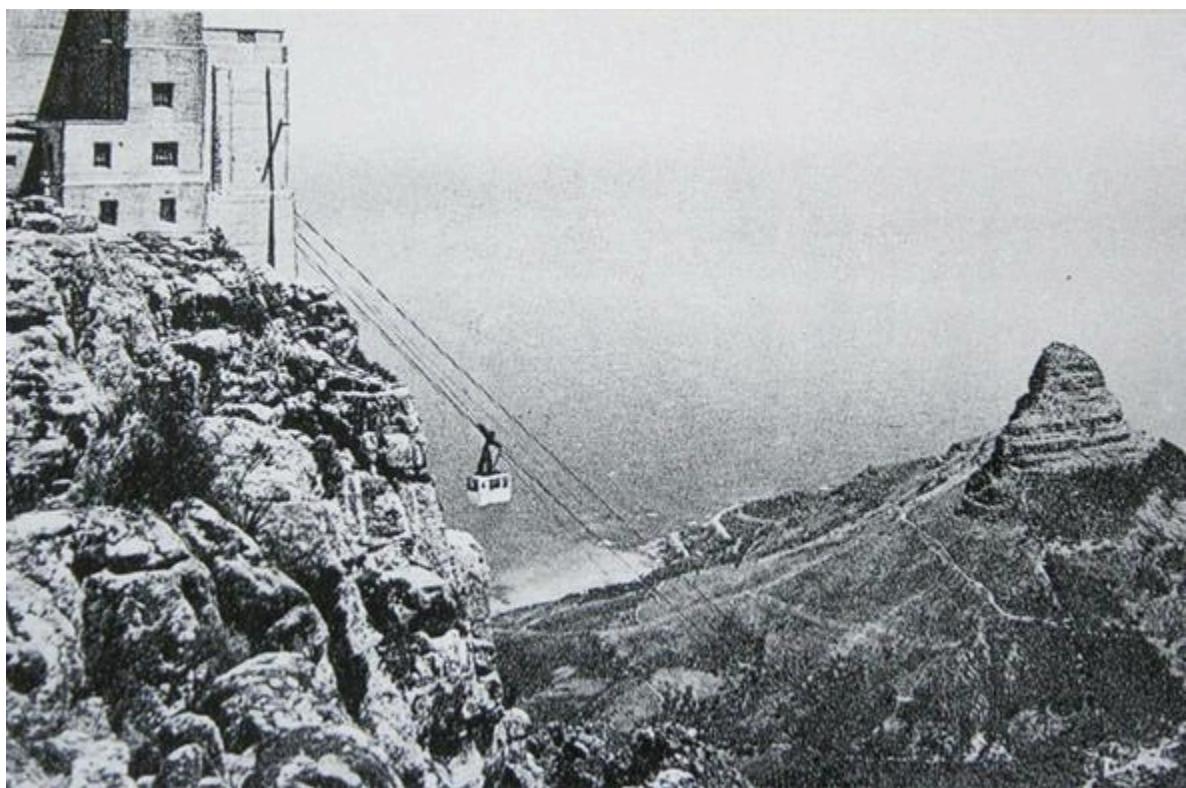
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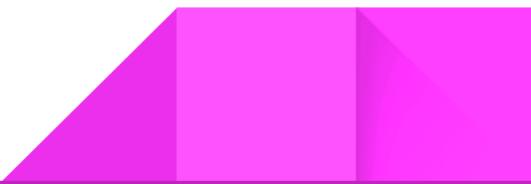
*Recorded live with the Gospel Goes Classical Symphony Orchestra and Choir,
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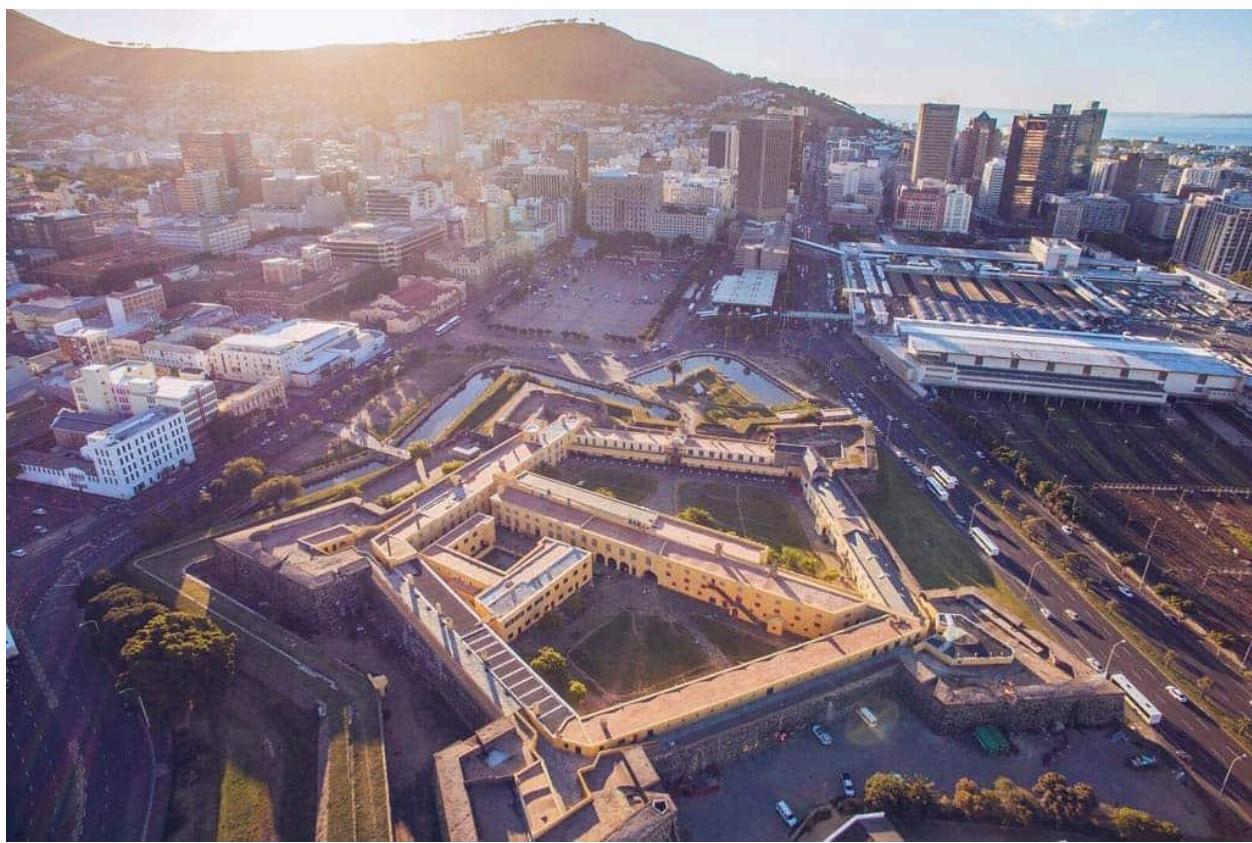
Table Mountain 1854 -











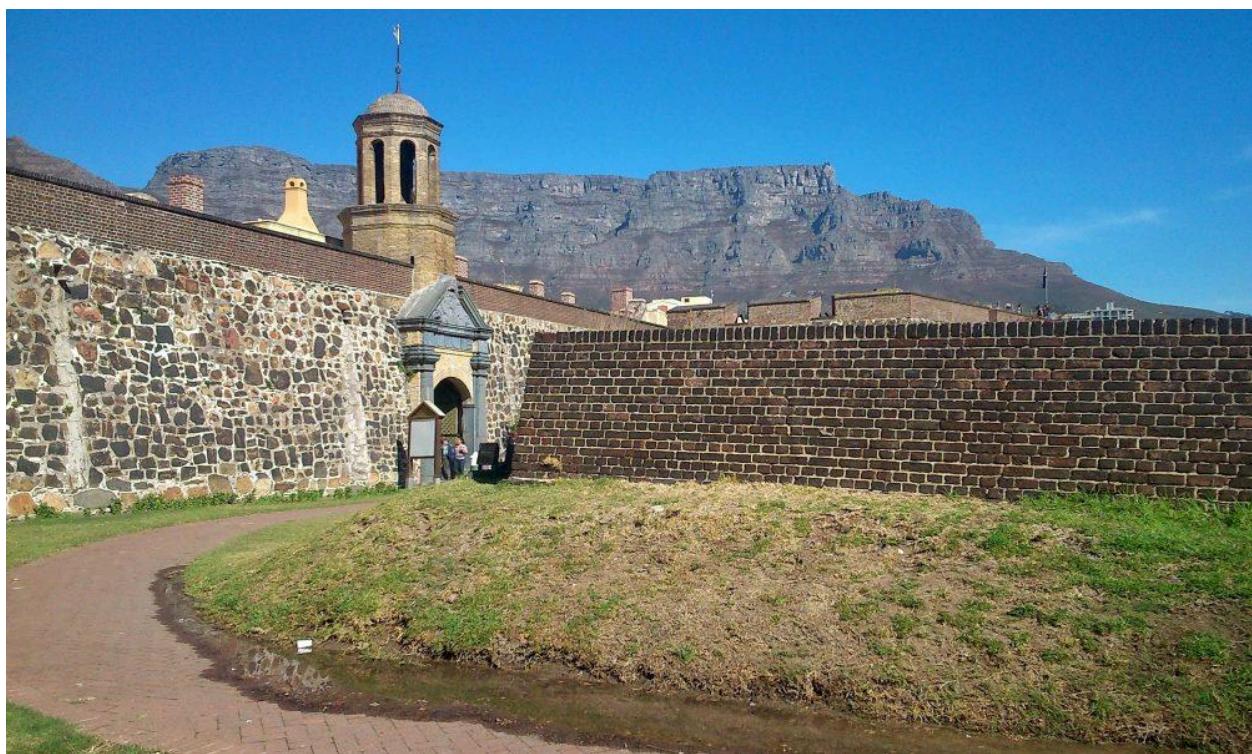


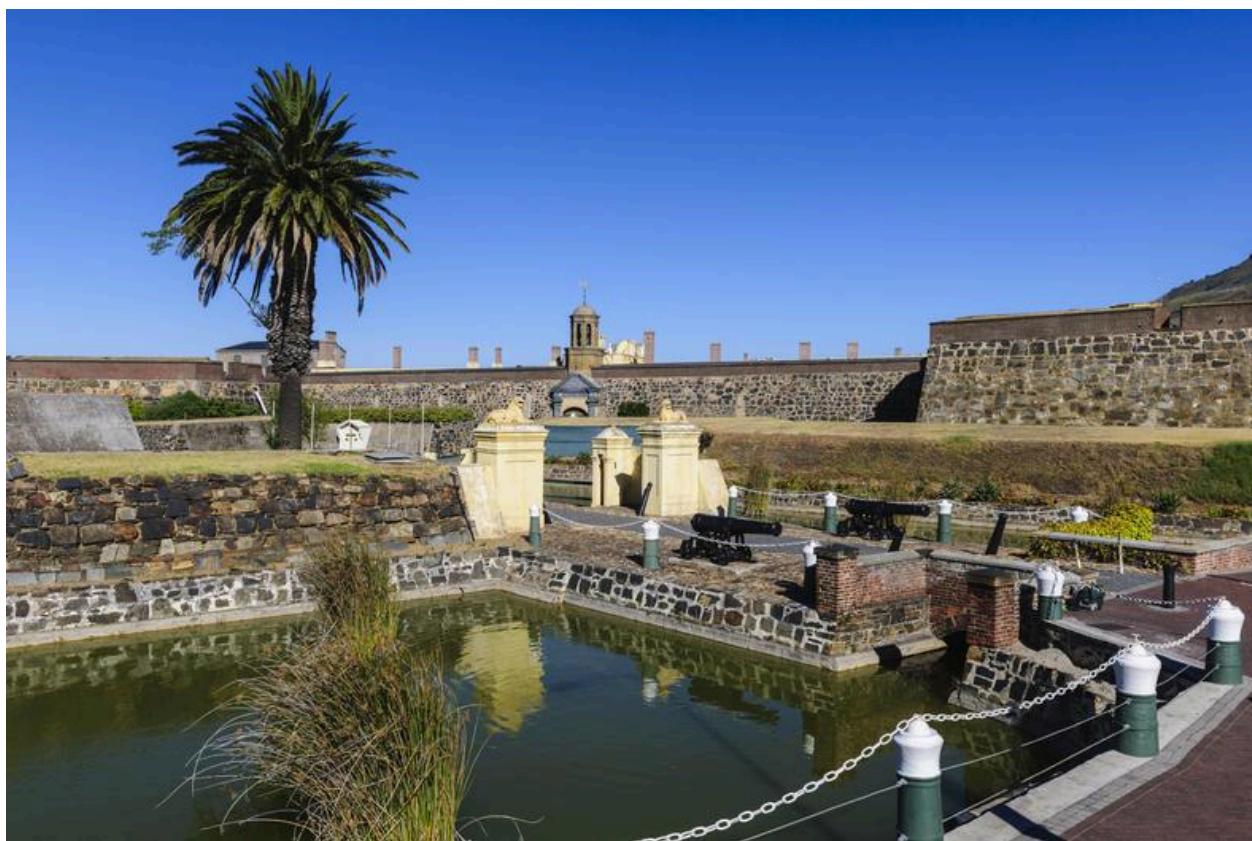






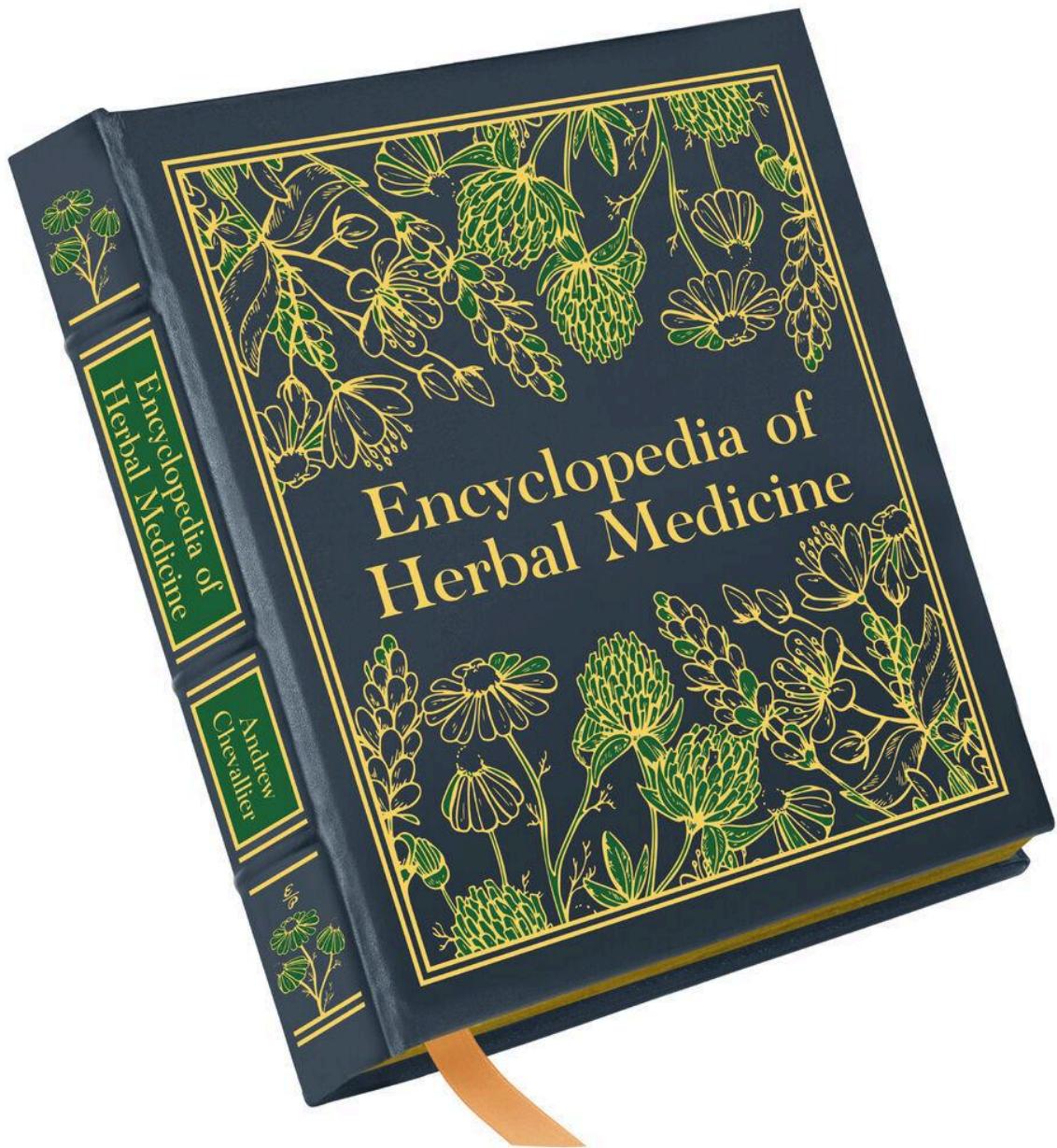












THE DEVELOPMENT OF HERBAL MEDICINE

South America

SOUTH AMERICA

Coca (*Erythroxylum coca*, p. 279) contains quinine, a powerful antimalarial.

Amaranth (*Amaranthus hypochondriacus*, p. 277) is treated with ash to treat diarrhea and skin infections; it is strongly antibiotic.

Lemon verbena (*Lippia citriodora*, p. 278) is used as a tea and a tincture as a strong diuretic.

Dried lemon verbena leaves

Bokko (*Amaruca*, p. 246) is a liver tonic.

Dried bokko leaves

Coca harvest in Bolivia. The leaves are picked when they begin to curl. They have been used as a stimulant for centuries by the indigenous peoples of the Andes.

Geop harvest in Bolivia. The leaves are picked when they begin to curl. They have been used as a stimulant for centuries by the indigenous peoples of the Andes.

Pau d'arco (*Tabebuia*, p. 245) is used as an antiseptic and astringent; it has long been used in Ayurvedic medicine. Peruvian people use it to reduce inflammation.

Pau d'arco tincture

Guanaco (*Psathyrotes canescens*, p. 245) contains a stimulant with properties similar to caffeine. Roasted and ground, its seeds are now widely used in the food industry.

Soap bark (*Quillaja saponaria*, p. 246) is a traditional soap used in Chile.

Psoroptes (*Psoroptes cuniculi*, p. 167) is rich in starch C, and contains a tannin that aids digestion. The leaves are used as a digestive tonic and a poultice.

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North America

Many ancient herbal traditions in North and Central America not only withstood the influx of European settlers but helped to reinvigorate Western herbalism. In parts of Central America herbal medicine is widely practised, and in the US and Canada it is again enormously popular.

Stretching from the Arctic wilds of Canada and Alaska to the tropical regions of Panama, North and Central America covers diverse geographical regions and harbours an immense variety of medicinal plants. Most of them are native, but others – such as nutmeg, ginger and tamarind – were introduced from Europe, Asia and Africa. From the 16th century onwards, likewise, native American medicinal plants – such as corn, cacao, cayenne and sunflower – were introduced to Europe, Asia and Africa. This

trade of species was an important part of the interplay between the herbal traditions across the globe.

Herbal traditions in Central America

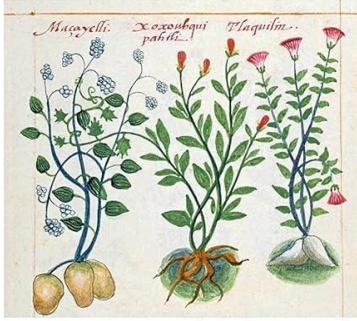
Herbal medicine is commonly practised in rural areas of Central America, especially in Guatemala and Mexico. In the Mexican tradition, loss of 'balance' between the body and cold elements within the body is thought to be the underlying cause of illness, and the healer's art is to restore balance and vitality.

Mexican herbal medicine is not a static tradition, but has evolved from a shifting blend of indigenous pre-Hispanic and Spanish influences. Long before Hernández Cortés and his conquistadors came ashore in 1519, indigenous Mexican peoples, such as the Maya and Zapotec, had a profound understanding of plant medicines. The *Badianus Manuscript*, the first American herbal (written by Alonso Martín de la Cruz, in 1552), lists the medicinal uses of 251 Mexican species. They include tobacco (*Nicotiana*, p. 148), taken by the Maya as an aphrodisiac; and *Passiflora quadrangularis*, used by the Aztecs as an eye lotion. Both species are still used medicinally.

Today, 65 per cent of the plants used

are native.

In other Central American countries efforts are being made to encourage people to use herbal medicine as the first line of treatment for illness. Projects in the Dominican Republic and Nicaragua, for example, are teaching women how to use local herbs within their communities, while in Cuba doctors routinely prescribe medicinal herbs to make up for the scarcity of conventional medicines.



The Badianus Manuscript, the first American herbal, written by Alonso Martín de la Cruz, in 1552, lists the medicinal uses of 251 Mexican species.

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Caribbean herbal medicine

Throughout the Caribbean, domestic herbal medicine remains popular. Some of the widely used herbs include fever grass or lemon grass (*Cymbopogon citratus*, p. 203), which, as its name suggests, is used to treat fevers, and kerala (*Monnierodion chomifolium*, p. 242), a creeping vine that is praised as a 'cure-all' on many of the islands. Kerala has been shown to have an antibiotic, blood-thinning and may help to slow down the onset of diabetes, a relatively common illness among Afro-Caribbeans. The medical and religious customs on each Caribbean island vary but on many they reflect the African traditions of transported slaves, especially those from Yoruba people shipped from West Africa, who carried on the practices of their homelands. In some of these traditions, herbs are valued for their magical power, as well as for their medicinal properties. Tobacco (*Nicotiana tabacum*, p. 247) is used in traditional medicine in many of these cultures, including Santeria and Vodou religious rituals, as well as other herbs, including garlic (*Allium sativum*, p. 63) and *Avocado* (*Punica granatum*, p. 126).



Cardinal lobelia (*Lobelia cardinalis*) has the ability to heal and to bring healing to the Iroquois soul.

Power of herbs

In all indigenous American cultures from Canada to Chile, herbs are thought to have spiritual energy and many of them are invested with great magical power.

The Iroquois believe that cardinal lobelia (*Lobelia cardinalis*, see *Lobelia*, p. 14) and morning glory (*Ipomoea purpurea*) have the ability to heal or harm, and should be picked, stored and used with great care. Morning glory is considered so powerful that even touching it could cause harm. The Iroquois use the plant as a remedy for many illnesses, as well as other ailments, and also take it as a decoration with sunflower seeds (*Helianthus annuus*) as a sacrament in spring and autumn rituals.

Tobacco now considered an addictive drug, was a sacred shamanistic herb for most indigenous American peoples. It was smoked in pipes and 'thrown into fires as an offering, cast into the wind and water to abate storms, scattered about a fish weir to improve the catch and offered to the air in thanksgiving for escape from danger', according to Vogel's *American Indian Medicine* (1970).

Key herbs from this region

- Corn silk (*Zea mays*, p. 158)
- Slippery elm (*Ulmus rubra*, p. 149)
- Saw palmetto (*Serenoa repens*, p. 140)
- Gravel root (*Asclepias speciosa*, p. 214)
- Prickly ash (*Zanthoxylum americanum*, p. 157)
- Wild yam (*Dioscorea villosa*, p. 95)
- Lobelia (*Lobelia inflata*, p. 14)
- Goldenseal (*Hydrastis canadensis*, p. 109)
- Poke root (*Phytolacca americana*, p. 255)
- Skullcap (*Scutellaria lateriflora*, p. 138)
- Cramp bark (*Viburnum opulus*, p. 154)
- Pleurisy root (*Asclepias tuberosa*, p. 177)
- Witch hazel (*Hamamelis virginiana*, p. 106)
- Avocado (*Punica granatum*, p. 126)
- Slippery elm (*Ulmus rubra*, p. 149)
- Calamus (*Acorus calamus*, p. 212)
- Blue cohosh (*Corydalis incisa*, p. 188)
- Dianthus (*Dianthus caryophyllus*, p. 149)
- Chilli (*Capsicum frutescens*, p. 79)
- Evening primrose (*Oenothera biennis*, p. 248)
- Black cohosh (*Cimicifuga racemosa*, p. 61)
- Helonias (*Chonosmia Leucon*, p. 190)

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Active Constituents

The medicinal effects of certain plants are well known. German chamomile, for example, has been taken to soothe digestive problems for thousands of years, and aloe vera was known to Cleopatra as a healing skin remedy. It is only relatively recently, however, that active constituents responsible for the medicinal actions of plants have been isolated and observed. Knowing a little about the chemicals contained in plants helps you to understand how they work within the body.



Phenols

Phenols is a very large group of plant constituents ranging from salicylic acid, a molecule similar to aspirin (acetylsalicylic acid), to complex molecules such as tannins and glycosides. Phenols are often anti-inflammatory and antiseptic, and are thought to be produced by plants to deter insects, birds and fungi from attacking. Some phenols are also strongly antiseptic and anti-inflammatories, and can have both local and systemic anti-antiviral properties. Wintergreen (*Gaultheria procumbens*, p. 215) and white willow (*Salix alba*, p. 199) both contain salicin, a derivative of salicylic acid, and many family members contain phenols; for example, the strong antiseptic thymol, found in thyme (*Thymus vulgaris*, p. 143),

Flavonoids
Flavonoids are found throughout the plant world; flavonoids are polyphenolic compounds that are usually yellow, orange, red, purple, or blue in colour, often yellow or white, to flowers and fruits. There are more than 4,000 different flavonoids and many medicinal uses. They are antioxidant and especially useful for maintaining skin health. Some flavonoids also have anti-inflammatory, analgesic and liver-protective activity. Flavonoids such as hesperidin and rutin, found in citrus plants, notably buckthorn (*Rhamnus esculentum*, p. 264), red grape (*Vitis vinifera*, p. 283) and hawthorn (*Crataegus oxyacantha*, p. 87) all contain appreciable quantities of these proanthocyanidins.



Proanthocyanidins

Closely related to tannins and flavonoids, these are complex polyphenolic pigments which give flowers and fruits a blue, purple or red hue. They are powerful anti-oxidants and free-radical scavengers. They protect the circulation from damage, especially the circulation in the heart, hands, feet and eyes. Blackberry (*Rubus fruticosus*, p. 264), red grape (*Vitis vinifera*, p. 283) and hawthorn (*Crataegus oxyacantha*, p. 87) all contain appreciable quantities of these proanthocyanidins.



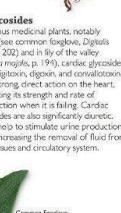
Anthraquinones

Anthraquinones are the main active constituents of a number of species, notably *Cassia senna* (p. 75) and Chinese rhubarb (*Rheum palmatum*, p. 126), both of which are taken as laxatives. Anthraquinones have a strong purgative effect on the large intestine, causing contractions of the intestinal walls and resulting in a bowel movement approximately 10 hours after being taken. They also make the stool more liquid, easing bowel movements.



Cardiac Glycosides

Cardiac glycosides are found in various medicinal plants, notably in foxglove (*Digitalis purpurea*, p. 191), cardie glycosides such as digoxin, digitoxin and convolvulatoxin, which have a strong action on the heart, supporting and rate of contraction when it is failing. Cardiac glycosides are also significantly diuretic. They help to stimulate the heart contraction, thus increasing the removal of fluid from the tissue and circulatory system.



ACTIVE CONSTITUENTS

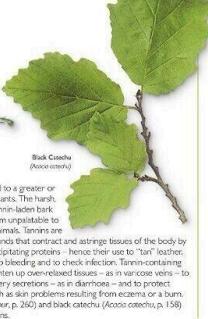


Volatile Oils

Volatile oils – which are extracted from plants that produce essential oils – are some of the most important medicinally active plant constituents, and are also used widely in perfumery. They are complex mixtures often of 100 or more compounds, mostly made of monoterpenes – molecules containing 10 carbon atoms. Essential oils have many uses. For tree and shrub oils (e.g. *Myrica cerifera*, p. 112) a strong antiseptic, while sweet gale oil (*Myrica gale*, p. 238) is an effective insect repellent. Oil from the seeds of plants not found in the volatile oil – chamaelier, found in German chamomile (*Chamaemelum nobile*, p. 77) essential oil, is anti-inflammatory and anti-allergenic. Flavonoids, sterols and saponins are found in plants, for example from the bark of Scots pine (*Pinus sylvestris*, p. 249) – are often linked with essential oils (oleo-resins) and gums (see *Polysaccharides*), though they are non-volatile.

Genus Chamaemelum (*Chamaemelum nobile*)

Tannins
Tannins are produced to a greater or lesser degree by all plants, through astringent tannins of tannin tannins, and are particularly unpalatable to insects and grazing animals. Tannins are polyphenolic compounds that contract and arrest tissue of the body by binding with and precipitating proteins. Hence their use to 'tan' leather. They are used to treat skin diseases and chronic infections. Tannin-containing herbs are used to tighten over-relaxed tissues – as in varicose veins – to dry up excessive watery secretions – as in diarrhoea – and to protect damaged tissue – such as skin problems resulting from eczema or a burn. Oak bark (*Quercus robur*, p. 260) and black cohosh (*Actaea corymbifera*, p. 159) are both high in tannins.



Saponins

The main active constituents in many key medicinal plants, saponins get their name because, like soap, they make a lather when placed in water. Saponins occur in two different forms: steroid and triterpenoid. The chemical structure of steroid saponins is similar to that of many of the body's hormones, including oestrogen and cortisol, and many plants containing them have a marked hormone effect. Wild yam (*Dioscorea villosa*, p. 95), from which the contraceptive pill was first developed, contains steroid saponins. Triterpenoid saponins occur more commonly – for example in liquorice (*Licorice glabra*, p. 101) and cowpea root (*Phaseolus vulgaris*, p. 256) – but have less hormonal activity. They are often expectorant and aid absorption of nutrients.



Cyanogenic glycosides

Though these glycosides are based on cyanide, a very potent poison, in small amounts they have a helpful sedative and relaxant effect on the heart and nervous system. The bark of wild cherry (*Prunus avium*, p. 257) and the leaves of elder (*Sambucus nigra*, p. 123) contain cyanogenic glycosides, which contribute to the plant's ability to suppress and soothe irritant dry coughs. Many fruit kernels contain high levels of cyanogenic glycosides, for example those of apricot (*Prunus armeniaca*, p. 257).



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Aesculus hippocastanum (Sapindaceae)

Horse Chestnut

Extracts of horse chestnut seed—the shiny brown “conkers” collected by British children in autumn—have a scientifically established ability to relieve the symptoms of varicose veins, and promote their repair. Taken by mouth, or applied as a lotion, horse chestnut will help to tighten up the tissues and reduce the pain and swelling of varicose veins. It is also useful in helping to reduce fluid retention.



Horse chestnut seeds are the main herbal medicine for venous disorders.

Habitat & Cultivation

Native to mountain woods from the Balkans through western Asia to the Himalayas, horse chestnut is now cultivated as an ornamental and shade tree in temperate regions around the world, especially in northern and western Europe. It is propagated from seed in autumn or spring. Leaves are harvested in summer; the bark and seeds in autumn.

Related Species

Do not use Ohio Buckeye (*A. glabra*) as it is toxic if taken internally.

Key Constituents

- Triterpenoid saponins, including about 5% aescin, a complex mixture of glycosides
- Polysaccharides (about 50%)
- Coumarins, including aesculin
- Flavonoids
- Tannins, including proanthocyanidins
- Fixed oil (2–3%)

Key Actions

- Venous tonic
- Astringent

AESCULUS HIPPOCASTANUM



Horse chestnut
A deciduous tree with divided leaves, white and pink flowers, and spiny green fruit. It grows to 80 ft (25 m).

Parts Used

Leaves can be used to make a lotion for varicose veins and hemorrhoids.



Fresh leaves



Fresh seeds

Seeds are an excellent remedy for varicose veins and associated fluid retention.



Bark is much more astringent than the seeds.

Key Preparations & Their Uses

Cautions Best taken with professional advice. Horse chestnut can cause gastrointestinal upset at normal dosage (discontinue if symptoms develop) and is toxic at excess dosage. Not suitable for children. Do not apply to broken or ulcerated skin. May interact with blood-thinning drugs.



Tablets may have a higher aescin content than other preparations.



Lotion (to make, p. 296). Apply twice daily to varicose veins.

Capsules are convenient for long-term use.

horse chestnut is taken internally for leg ulcers, varicose veins, piles, and frostbite, and applied locally as a lotion, gel, or ointment. A decoction of the bark or leaf can be used as an astringent lotion for varicose veins.

Rheumatism In France, an oil extracted from the seeds has

been used as a topical application for rheumatism.

Chest remedy Horse chestnut makes a serviceable chest remedy and in Turkey has been used to treat chest complaints in horses. In the U.S. a decoction of the leaves has been considered useful for whooping cough.

ACORUS CALAMUS

Acorus calamus (Araceae)

Sweet Flag, Calamus, Bacc (Hindi)

Sweet flag has a long-standing reputation as a tonic and stimulant. An important herb in Ayurvedic medicine, it is also widely used in Europe and the U.S. The rhizome is a valuable remedy for digestion, and is a tonic for the nervous system. It stimulates the appetite and soothes digestion, relieving gas and calming indigestion and colic. Sweet flag has a strongly aromatic, bitter taste.



Sweet flag is an aquatic plant, similar in appearance to the iris. It has yellow flowers in summer.

Habitat & Cultivation

Sweet flag, believed to originate from India, now grows in many parts of the world. It prefers wet soil and is found in ditches, beside lakes and rivers, and

in marshy places. Propagation is carried out in autumn or early spring by dividing the clumps of rhizomes and replanting them in shallow water. The rhizomes are harvested as needed.

Related Species

A. gramineus (*shi chang pu*) is a Chinese herb and a close relative that is used medicinally for much the same range of conditions as *A. calamus*.

Key Constituents

- Volatile oil—sesquiterpenes (*A. calamus* var. *americanus* only); asarone (except *A. calamus* var. *americanus*)
- Saponins
- Bitter principle (acorin)
- Mucilage

Key Actions

- Carminative
- Relieves muscle spasm
- Antioxidant
- Anti-inflammatory
- Tonic

Research

■ **Beta-asarone** Research attention has focused on the constituent beta-asarone in the volatile oil, which has a carcinogenic action when isolated. The American variety of sweet flag (*A. calamus* var. *americanus*), commonly available in Europe, does not contain beta-asarone, and only preparations made from this should be used.

■ **Whole herb** In India, sweet flag powder has been taken for thousands of years with no reports of cancer arising from its use. This suggests that use of the whole herb may be safe, but more research is needed.

Traditional & Current Uses

■ **Early uses** Sweet flag has been regarded as an aphrodisiac in India and Egypt for at least 2,500 years. In Europe, it was valued as a



Sweet flag

An herbaceous, aquatic reedlike plant with tall, sword-shaped leaves. It grows to 3 ft (1 m).

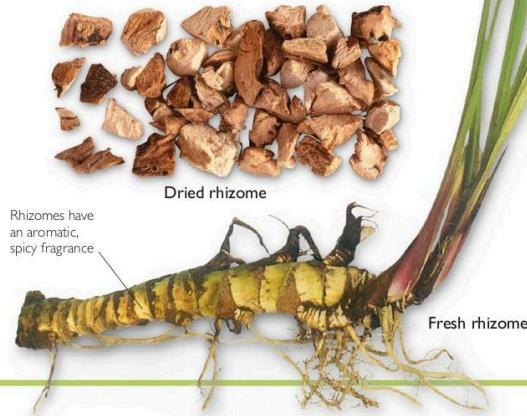
stimulant, bitter herb for the appetite (if not for the appetites) and as an aid to digestion. In North America, the decoction was used for fevers, stomach cramps, and colic; the rhizome was chewed for toothache, and powdered rhizome was inhaled for congestion.

■ **Ayurvedic medicine** Sweet flag is an important herb in Ayurvedic medicine, and is valued as a "rejuvenator" for the brain and nervous system, and as a remedy for digestive disorders.

■ **Western herbalism** In Western herbal medicine, the herb is chiefly used for digestive problems such as bloating, gas, colic, and poor digestive function. Sweet flag, particularly *A. calamus* var. *americanus*, which is the most effective antispasmodic, relieves spasm of the intestines. It helps uncomfortable and distended stomachs, and headaches associated with weak digestion. Small amounts are thought to reduce stomach acidity, while larger doses increase deficient acid production—a good example of how different doses of the same herb can produce different results.

Parts Used

Rhizomes grow to about 1 1/4 in (3 cm) thick. They are harvested as needed.



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Key Preparations & Their Uses

■ **Cautions** Take only under professional supervision. Do not take for more than 1 month. Restricted in some countries.



Decoction is given to relieve indigestion and gas and to increase appetite.



Tincture is prescribed by herbalists and doctors for digestive ailments.



Powder is taken as a tonic in Ayurvedic medicine.

SALVIA MILTIORRHIZA

Salvia miltiorrhiza (Lamiaceae)

Dan Shen, Chinese Sage

Recent scientific research supports *dan shen*'s traditional usage as a remedy for heart and circulatory problems such as angina and palpitations. *The Divine Husbandman's Classic (Shen'hong Bencaojing)*, the earliest of all Chinese herbal texts, listed *dan shen* as an herb that "invigorates the blood," and it is still used as a circulatory remedy. In particular, it is taken for period pain and other conditions resulting from circulatory congestion.



Dan shen is an important circulatory stimulant. It is sold in herbal markets across China for use in medicinal formulas.

Habitat & Cultivation

Native to China, *dan shen* is now cultivated in northeastern China and Inner Mongolia. It requires moist, sandy soil and is propagated by root division in spring. The root is harvested from late autumn through early spring.

Related Species

Sage (*S. officinalis*, p. 131) is closely related, but is used for an entirely different range of medical problems. In Mexico, the related species *S. divinorum* is used as a hallucinogen.

Key Constituents

- Diterpenes (tanshinones)
- Phenolic compounds
- Volatile oil
- Vitamin E

Key Actions

- Tonic to heart and circulation
- Anticoagulant
- Dilates the blood vessels
- Sedative
- Antibacterial



Dan shen
A hardy perennial growing to 32 in (80 cm), with toothed oval leaves and clusters of purple flowers.

Parts Used

Root is an ancient Chinese remedy for circulatory disorders.



Dried chopped root



Dried root

Key Preparations & Their Uses

Cautions For serious circulatory or heart problems, take only under professional supervision. The tincture may produce digestive and skin reactions. Avoid in pregnancy.



Tincture is used by herbalists to treat angina and other circulatory problems.



Decoction (to make, p. 291). For painful periods, take 1/4 cup (75 ml) up to 3 times a day.

circulatory problems. It particularly benefits coronary circulation, opening up the arteries and improving blood flow to the heart, and is therefore helpful in treating coronary heart disease. Though it does not lower blood pressure, *dan shen* relaxes the blood vessels and improves circulation throughout the body.

Circulatory congestion *Dan shen* is used traditionally to treat conditions caused by blood

stagnation, primarily those affecting the lower abdomen, such as absent or painful periods and fibroids.

Sedative The sedative action of *dan shen* helps to calm the nerves, and it is therefore helpful in treating angina, a condition made worse by anxiety and worry. Palpitations, insomnia, and irritability also benefit from *dan shen*'s sedative properties.

Self-help Use

- **Palpitations**, p. 302.



"Slash-and-burn" farming in the rainforest of Brazil results in the eradication of native medicinal plants. Efforts are now under way to provide local farmers with alternative means of profiting from the land.

People began to realize that a serious cost could accompany the benefits of treatment with modern pharmaceutical drugs. This, and the factors described below, have brought about a sea change in public perceptions of the value of herbal medicine.

The Chinese Example

Herbal medicine experienced a major gain in fortune in 1949 in China, when Mao Zedong and the Communist Red Army gained control of the country.

Traditional Western medicine by that time was well established in China, but most of the population had little hope of access to modern hospitals, let alone to new drugs. Out of necessity, traditional Chinese medicine—essentially herbal medicine and acupuncture—once more began to be used alongside Western conventional medicine. The authorities aimed to provide the best of both worlds. Five teaching hospitals for traditional Chinese medicine (TCM) were established, where it was taught on a scientific basis. In addition, great efforts were made to improve the quality of plant medicines.

Contrary to the trend in conventional Western medicine that makes the patient ever more dependent upon the doctor and high-tech machinery, TCM, like other forms of complementary medicine, stresses the patient's personal responsibility for his or her own cure, encouraging a holistic approach to treatment.

In the 1960s, China also established a system of "barefoot doctors." After a period of basic medical instruction that blended herbal medicine, acupuncture, and Western practices, these practitioners were sent out to provide health care for the millions of rural Chinese too remote from cities to benefit from the facilities available there. The barefoot doctors in the late 1960s became a model for the World

Health Organization, which created a strategy of including traditional herbal practitioners in planning for the health care needs of developing countries.

Western Medicine & Herbal Practices

Further to the initiative by the World Health Organization, experience has shown that traditional (usually herbal) and Western medicine can indeed work well in tandem, although the relationship is often quite complex. J. M. Janzen's *The Quest for Therapy in Lower Zaïre* (University of California Press, 1978) describes one such interaction in Africa:

"The people of Zaïre recognize the advantages of Western medicine and seek its surgery, drugs, and hospital care, but contrary to what might have been expected, native doctors, prophets, and traditional consultations among kinsmen do not disappear with the adoption of Western medicine. Rather a [working relationship] has developed in which different forms of therapy play complementary rather than competitive roles in the thoughts and lives of the people."

The high cost of Western medical treatment is another factor that has encouraged people and governments to re-examine traditional healing. In China, Mexico, Cuba, Egypt, Ghana, India, and Mongolia, to give but a few examples, herbal medicines are being cultivated in greater quantities, and are being used to some degree by conventional as well as traditional practitioners.

Likewise, different types of treatment have evolved to meet the variety of needs within a population. India offers an extraordinary example of the kind of choices available in types of medical care. Alongside physicians trained in conventional Western medicine, there are medically trained Ayurvedic practitioners, traditional Ayurvedic practitioners, local healers, and homeopaths.

Changing Attitudes

Perhaps the most important factor behind the growing interest in complementary medicine is the poor state of health in Western societies. Conventional medicine has by and large brought serious infectious diseases under control, although there are worrying signs that infectious organisms are becoming resistant to antibiotic treatment, largely as a result of their indiscriminate use. Chronic illness, however, seems to be on the increase. Probably around 50 percent of people in Western countries daily take one or more conventional medicines—for conditions as diverse as high blood pressure, asthma, arthritis, and depression. Many Western countries such as the U.S. and France spend astronomical sums on health care, yet despite this massive investment, much of the population remains demonstrably unhealthy. Even the significant increase in life expectancy in developed countries is starting to go into reverse, perhaps a result of environmental pollutants and toxic accumulation within the body.

SCUTELLARIA BAICALENSIS

Scutellaria baicalensis syn. *S. macrantha* (Lamiaceae)

Baical Skullcap, Huang Quin

In 1973, 92 wooden tablets were discovered in a 2nd-century CE tomb in northwestern China. Among other herbs listed in prescriptions for decoctions, tinctures, pills, and ointments was Baical skullcap. The herb has had an established role in Chinese herbal medicine at least from that time, and is one of the main remedies for "hot and damp" conditions, such as dysentery and diarrhea.



Baical skullcap is an important medicinal plant in China and is also cultivated as an ornamental.

Habitat & Cultivation

Baical skullcap is found in China, Japan, Korea, Mongolia, and Russia. It thrives on sunny, grassy slopes and open areas between 330 ft (100 m) and 5,900 ft (1,800 m) above sea level. Baical skullcap is propagated from seed sown in autumn or spring. The roots of 3- to 4-year-old plants are harvested in autumn or spring.

Related Species

Skullcap (*S. lateriflora*, p. 135) is a close relation. It is a Native North American remedy for anxiety and stress.

Key Constituents

- Flavonoids (about 12% baicalin, wogonoside)
- Sterols
- Benzoic acid

Key Actions

- Sedative
- Antiallergenic
- Antibacterial
- Anti-inflammatory



Baical skullcap
A perennial growing to 1-4 ft (30-120 cm) high, with lance-shaped leaves and purplish-blue flowers.

Parts Used

Root is harvested when the plant is 3-4 years old in autumn or spring.



Dried root



Fresh root

Key Preparations & Their Uses

Cautions Best taken under professional supervision.



Decoction (to make, p. 291). For feverish chest colds, drink $\frac{1}{2}$ cup (75 ml) 3 times a day.



Remedy For headaches, decoct 15 g root with 10 g self-heal (see p. 291). Drink $\frac{1}{2}$ cup (75 ml) 3 times a day.

Tincture (to make, p. 292). For hay fever, take 40 drops with water 3 times a day.

Circulatory remedy Baical skullcap is a valuable remedy for circulation. In combination with other herbs, it is used to treat high blood pressure, arteriosclerosis, varicose veins, and easy bruising.

Other uses Applied to the skin, Baical skullcap treats sores, swelling, and boils. It is also given for circulatory problems that arise from diabetes.

Allergic conditions The herb is useful for treating allergic conditions such as asthma, hay fever, eczema, and hives. The flavonoids in particular inhibit the inflammatory processes in the body that lead to allergic reactions.

Self-help Uses

- Allergic rhinitis including hay fever, p. 300.
- Wheezing, p. 301.