**Alpinia zerumbet an essential medicinal herb**

**Abstract**

Herb is very crucial valued for its medicinal, aromatic or slavery qualities that contains a variety of chemical substances that act upon the body to prevent relieve, and treat illness. The herbal medicine has a long and respected history. The Alpinia zerumbet Roxb. are used as analgesic, anthelmintic, blood purifier, carminative, demulcent, diaphoretic, diuretic, expectorant, febrifuge, purgative, sedative, anti-inflammatory, cardiovascular etc a number of other ailments. In Brazil, A. zerumbet is one of the most cited plants for folk medicine and it has been suggested for use by Brazil’s public health system (SUS). The current work focuses the properties of these plants and open gate for the further exploration in future of these plants due to a number of good medicinal values for human welfare.

**Keywords:** anti-inflammatory; fever, folk medicine, traditional medicine

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**Introduction**

A. zerumbet is herb inhabitant to north-eastern Asian country, Union of Burma (Myanmar), region of Indo-China, China and Japan, but it’s been efficiently cultivated as an ornamental in whole region of South Asian countries and initiated to tropical and subtropic regions round the world as a medicative and food crop. In the Cuba it is known as a noxious weed. In other country like South Africa consider as invasive weed by the “The Global Invasive Species Programme”. Herbs have a variety of uses inducing culinary, medicinal, and in some cases spiritual usage differs between culinary herbs and medicinal herbs. Herbs are an integral part of human life. Before we learned to hunt animals primitive man had depended on plants for both food and medicine. Medicines from plants were used to cure but simultaneously magic spells were intoned as the plant material was applied. There was the usual method of healing in most part of the world. The original name of Alpinia zerumbet was Zerumbet speciosum given by the J.C. Wendland in year of 1798. The species of genus Alpinia has inhibited throughout the south and Southeast Asian geographical region, up to Japan from Asian nation like India, southward to Papua, the Solomon Islands, Australia, Fiji, and Samoa countries. The herb of those plants like several different genus Alpinia, A. zerumbet is also cultivated by the human as a decorative in different tropical and semitropical countries. It conjointly commercially made within the US and Europe and earn money. A case of Alpinia nutans which one has been introduced to European nation before 1793.

The herb Alpinia zerumbet is a most abundant, clustering evergreen herb which one form intense copse in classically wet situation of weather like rivulet banks and shady slopes, and they also found in naturally places like forests, riparian zones, and the areas of wetlands which one habitating stumpy altitudes places. In the South Africa country, Alpinia sp. occur as an invading “watery, outer region of forest, roadsides and the open space of urban included in moist places, warm places, coastal areas and at the inland regions”. The Alpinia sp. is mostlyly adopted the environment of the Cook Islands, which one habitat in the lowlands area and some areas of inland valleys. In the same way in Taiwan, Alpinia sp was greatl found at low altitudes of the whole island and also found at the adjacent islets.

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**Botanical classification**

- **Kingdom:** Plantae
- **Sub-kingdom:** Tracheobionta
- **Super-division:** Spermatophyta
- **Division:** Magnoliophyta
- **Class:** Liliopsida
- **Order:** Zingiberales
- **Family:** Zingiberaceae
- **Genus:** Alpinia
- **Species:** Alpinia zerumbet (Pers)

**Vernacular names of Alpinia zerumbet**: Sanskrit–Vanadakra, Stulagrandhi; English–Jungle Ginger; Hindi– Banda, Narkachur, Chatiun; Malayalam–Mailanchi; Bengali–Punnag Champa; Manipuri–Kanghoo.

**Current status used as medicine in various ailments and future prospects**

The rhizome of Alpinia sp. medicinally taken as a stomachic, for indigestion, stomach-ache and diarrhoea, and it also used as an emetic, as an expectorant. They are externally applied for rheumatism, wounds, sores and ringworm and showed useful against them. Their leaves are used for the latter purpose as well, it also with the intention of drawing blood to the skin for better effects. This plant has only recently caught the attention of the academic medical community for its potent antioxidant and hypotensive properties. The Alpinia sp. have certain names known as light galanga, pink porcelain lily, shell flower, shell ginger, variegated ginger, butterfly ginger, yān shanjiang in Chinese, get to in Japanese, and Sannin in the local dialect of Okinawa. Their leaves and the extracted oils of the Alpinia plant have long been used in Asia to relieve fevers and malaria, as well...
as to serve as a general health tonic. In the Okinawa, Japan, some population of their frequently cited as “the healthiest on earth,” boasts an extraordinarily low incidence of cardiovascular disease, stroke and cancer, reported. Where, the leaves of Alpinia Zerumbet are widely consumed regularly, they consume it to wrap rice dumplings and decocted into teas as normally. Like traditional medicines, it used as a part of their culture. Now, modern research has confirmed hypotensive and antioxidant activity in the leaves and rhizomes extracts of the plant. It all comes together to show its potential benefits for diabetics, patients with atherosclerosis, and a wide range of skin diseases. Alpinia sp. flowers and rhizomes are good natural resources for their use of essential oils and also as spice crops. In China it won’t to treat ailments like abdomen disorders, puking and indigestion. Its rootstalk is historically applied as a viscous, carminative, astrigent, tonic and sedative. However, the seed is employed to clear cold, invigorate the spleen and heat the stomach. Used of tea in Japan and Brazil that is formed of from the leaves is usually used as a hypertensive and water pill medication. A. zerumbet, is additionally cultivated as a plant life and flora for its engaging, typically varicolored leaves and hanging type inflorescences.1

In 2007, Abdelnaser and its co-worker obtained essential oils from Alpinia zerumbet, and showed that they have enriched natural antioxidant in fresh leaves and rhizomes. De Araujo Pincho et al.,31 revealed that the anti-nociceptive effects of essential oils of Alpinia zerumbet in male Swiss mice. The Antimicrobial activity of Alpinia sp. reported by various works time to times such as,12-13 Sunilson et al.,14 studied antimicrobial activity of various extracts of Alpinia galanga were screened against the common food borne bacteria such as Escherichia coli, Salmonella enteriditis, Clostridium perfringens, Staphylococcus aureus, Campylobacter jejuni, Bacillus cereus and fungi such as Saccharomyces cerevisiae, Hansenula anomala, Mucor mucedo, Candida albicans using disc diffusion method. All the extracts showed significant antibacterial and antifungal properties.

Hemabarathy et al.,17 reported the crude extract of Alpinia sp. showed hepatoprotective in rats model. Ye Ying,18 revealed its has good properties against human immunodeficiency virus (HIV) type 1. Bendjeddou et al.,19 reported its Immunostimulating activities in mice. Akhtar et al.,20 Jaju Shivkanya et al.,21 revealed that its antidiabetic and anti-inflammatory activities from the extract of rhizome of Alpinia sp. and state that these are a better hypoglycaemic agent. Qureshi S et al.,22 Dadang Riyanto23 also have reported it have anti- ulcer properties. The bioactive compounds isolated from alpinia were found to markedly promote hair cell growth. Kamptorol-3-O-β-D-glucuronide (KOG) and labadiene, two of the isolated compounds, increased the proliferation of human follicle dermal papilla cells by approximately 117%-180% and 132%-226%, respectively, at 10-100μM.24

Recently published studies by de Souza et al.,25 revealed that the essential oils and their major components showed the good effect against Rhodnius nasutus, a Vector of Chagas Disease. The essential oils of Alpinia species was obtained by hydrodistillation and analyzed by GC–MS having main constituent of A. zerumbet essential oil (OLALPZER) was terpinen-4-ol, which represented 19.7% of the total components identified. Another study Santos-Junior et al.,26 has shown that the effects of the essential oil of Alpinia zerumbet (Pers.) B.L. Burtt & R.M. Sm. on healing and tissue repair after partial Achilles tenotomy in rats. They confirmed that the Oil of Alpinia zerumbet stimulated the process of maturation, organization and tissue repair which gave it greater resistance.1

Conclusion
The widespread literature survey of these herb revealed that Alpinia sp. is very important medicinal plant with more diverse pharmacological spectrum. The evaluation needs to be carried out on these in order to their uses and formulation of the plants and their other parts in their practical clinical applications, which can be used for the welfare of the mankind. It has been the topic of abundant recent research project because of its in depth use in practice of medicine, however a lot of analysis is required on the extent of it’s a lot of potential threat to native flora. So, for welfare of the grouping a lot of analysis can needed for the explore of its therapeutic properties.

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Conflict of interest
The author declares that there is no conflict of interests regarding the publication of this paper.

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