Variegated Croton

Codiaeum variegatum

Code: XIM-T-053 **Location:** XIM University Campus **Local / Vernacular name:** ଦବେଚଡ଼ିରୟରୁଣଜ ଦକରାଟନ/ଗଟାବାହାର

Description

XIM University campus biodiversity register (2026–27). Recorded individuals: 1; abundance rank: 47.

Botanical Details

Leaf habit: Evergreen Flowers / Fruits: small, star-shaped male and female flowers on separate racemes; fruit is a small, three-lobed capsule. Native range: Native to Southeast Asia (Indonesia, Malaysia, Philippines) and the Western Pacific islands; widely naturalized and cultivated in tropical and subtropical regions worldwide.

Uses & Importance

Ecological: Codiaeum variegatum is a highly versatile evergreen shrub that plays a significant role in tropical landscape ecology and urban microclimate management. Due to its dense, multi-colored foliage, it acts as an effective "living screen," providing thermal insulation and windbreak capabilities for smaller understory plants and soil organisms. Ecologically, it is valued for its ability to thrive in a variety of light conditions—from full sun to partial shade—making it a staple in diversified "green walls" and ornamental hedges that sequester carbon and filter urban dust. While its flowers are inconspicuous, they provide nectar for small specialist pollinators. The plant’s thick, waxy leaves are adapted to retain moisture, contributing to local humidity regulation in dry tropical environments. Furthermore, its ability to tolerate a range of soil types allows it to be used in coastal and urban landscaping where soil quality may be compromised, providing stable green cover and preventing surface soil erosion during heavy rains.

Medicinal: In traditional medicine across Southeast Asia and the Pacific Islands, the Croton is utilized for its potent chemical constituents, though it is handled with extreme care due to the presence of 5-deoxyingenol and other diterpenes. The leaves and bark are traditionally prepared in infusions to treat gastrointestinal issues, specifically acting as a purgative to clear the digestive tract. In some folk traditions, a decoction of the leaves is used as a medicinal bath to treat skin conditions and fungal infections, leveraging the plant's antimicrobial properties. The milky sap (latex) is sometimes applied topically in minute quantities to treat localized pain and toothaches, although it is known to be a skin irritant. Modern pharmacological research has explored the plant’s potential cytotoxic and anti-inflammatory activities, identifying compounds that may assist in managing systemic inflammation. However, because all parts of the plant are technically toxic if ingested in large amounts, its medicinal use remains largely

confined to external applications and highly specific traditional preparations aimed at treating ulcers and respiratory congestion.

Cultural: The Variegated Croton is a global symbol of tropical vibrancy and artistic diversity. In many Pacific Island cultures, particularly in Vanuatu and Papua New Guinea, the plant holds deep ritualistic significance; specific leaf patterns are associated with different clans, and the leaves are frequently used in traditional dances, headdresses, and peace-making ceremonies. Culturally, it is viewed as a "protector of the home," often planted at the corners of properties to ward off negative energy and bring visual harmony. In South Asia, it is the quintessential ornamental plant, synonymous with "Garden Pride" and aesthetic luxury. Its immense variety in leaf shape and color— ranging from yellow and orange to deep purple—represents the infinite creativity of nature, making it a favorite subject for tropical painters and landscape architects. The plant's ability to "change colors" based on sunlight exposure has led to its symbolic association with adaptability and transformation. Whether used as a ceremonial garment in the South Pacific or as a vibrant centerpiece in an Indian courtyard, the Croton remains a testament to the cultural value of botanical aesthetics and the human desire to surround ourselves with the brilliant colors of the natural world.

Location

GPS: 20.15860192, 85.76535449

Directions: https://www.google.com/maps/dir/?api=1&travelmode=walking&destination=20.15860192%2C85.76535449