

# FLORA OF KANYAKUMARI WILDLIFE SANCTUARY, TAMIL NADU



SUJANA K. A.  
Scientist D  
BSI/SRC

# Project Title: Flora of Kanyakumari Wildlife Sanctuary, Tamil Nadu

- Executing officials: Sujana K. A\*, Scientist D (J.H.F. Benjamin, Scientist C) & R. G. Vadhyar, Botanical Assistant

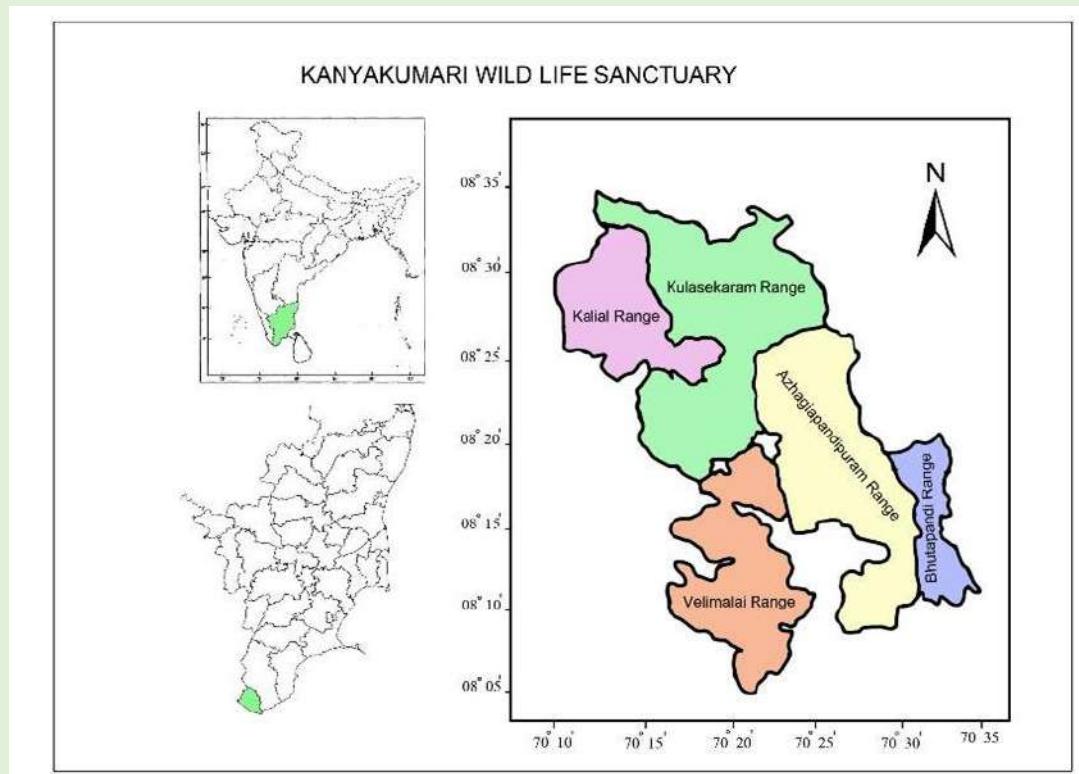
Period: 2016-2021 (\* 04-03-2019 on wards)

## OBJECTIVES

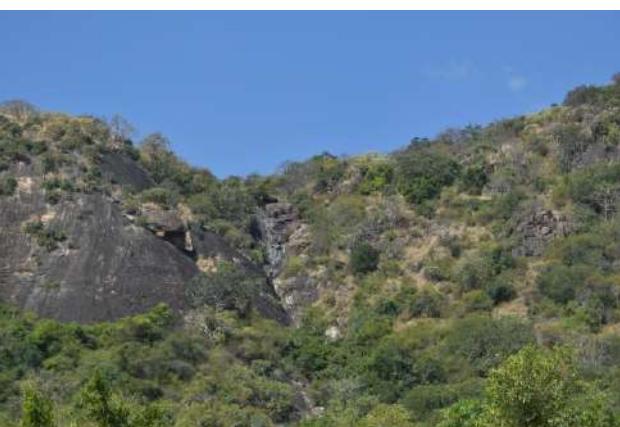
- To study flowering plant diversity of Kanyakumari Wildlife Sanctuary, Tamil Nadu.
- To bring out holistic picture of endemic and threatened plants distributed in the sanctuary.

# STUDY AREA

- The sanctuary is bounded at **North** by Kalakkad-Mundanthurai Tiger Reserve, **East** by Tirunelveli District, **South** by Kodayar left bank channel and Thovalai channel and in **West** by Kerala State.
- The highest point is **1829.4 m** at the trijunction of Mahendragiri, Kalakad and Veerapuli followed by Mahendragiri (1645.2 m), Mottaichi peak (1590.4 m) and Varaittumudi (1426.2 m)
- Located between  $70^{\circ}10'$ - $77^{\circ}35'$  East longitudes and  $08^{\circ}05'$ - $08^{\circ}35'$  North latitudes
- Total extent of the sanctuary is 402.39 Sq. KM



## OVERVIEW OF FOREST TYPES



# VEGETATION TYPES

- Southern Hilltop Tropical Evergreen Forests
- Southern montane wet grasslands
- West Coast Tropical Evergreen Forests
- Tirunelveli Semi Evergreen Forests
- Pioneer Euphorbiaceous scrub
- Moist Teak Forests
- Southern Moist Mixed Deciduous Forests
- Dry Teak Forests
- Southern Dry Mixed Deciduous Forests
- Dry Savannah Forests
- Carnatic Umbrella thorn forests
- Southern Thorn Forests
- Southern Thorn Scrub
- Southern Sub-tropical Hill Forests
- Wet bamboo brakes
- Inland wetlands and marshes
- Wetlands dominated by *Elaeocarpus*
- Riparian fringing forest



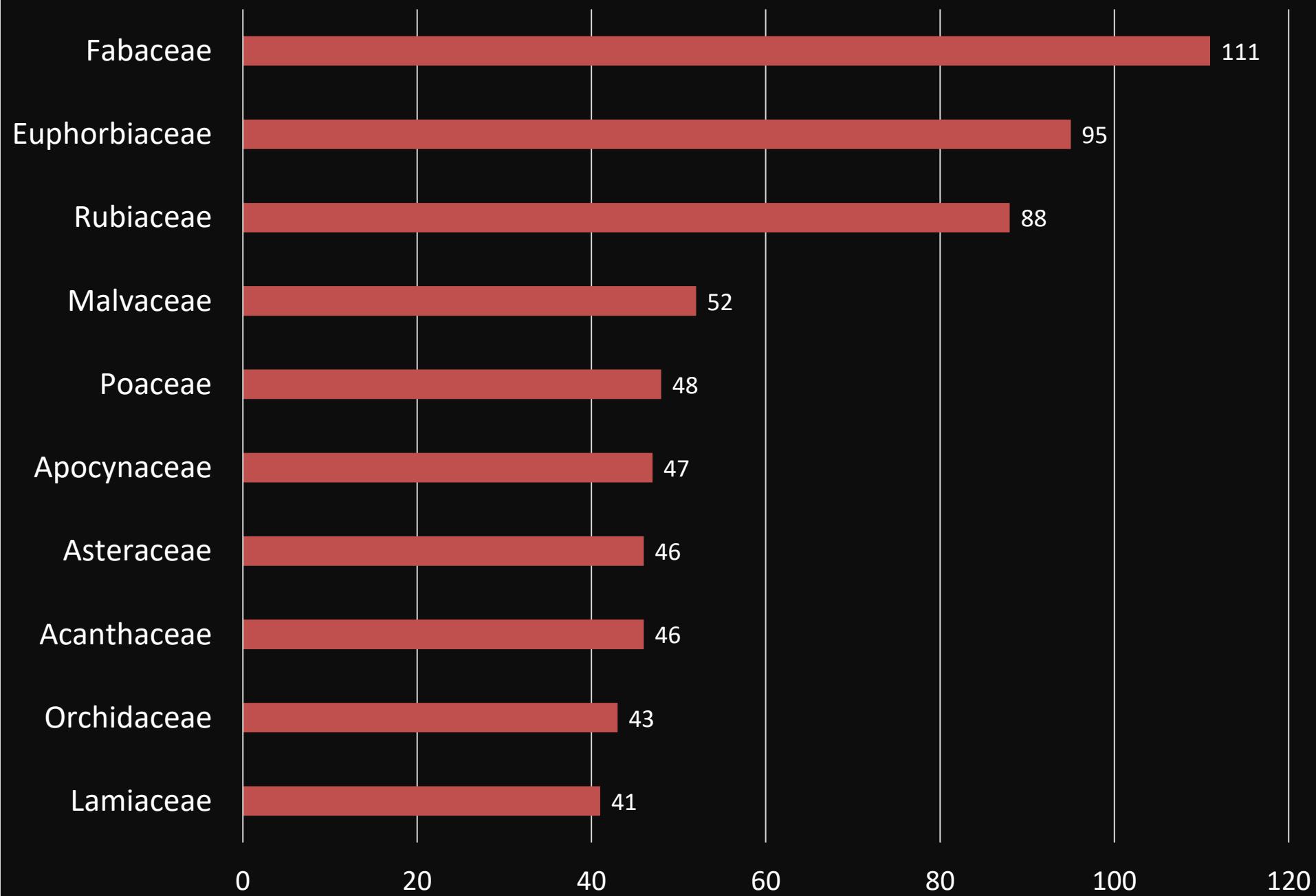
## SUMMARY OF THE ACTIVITIES AND ACHIEVEMENTS



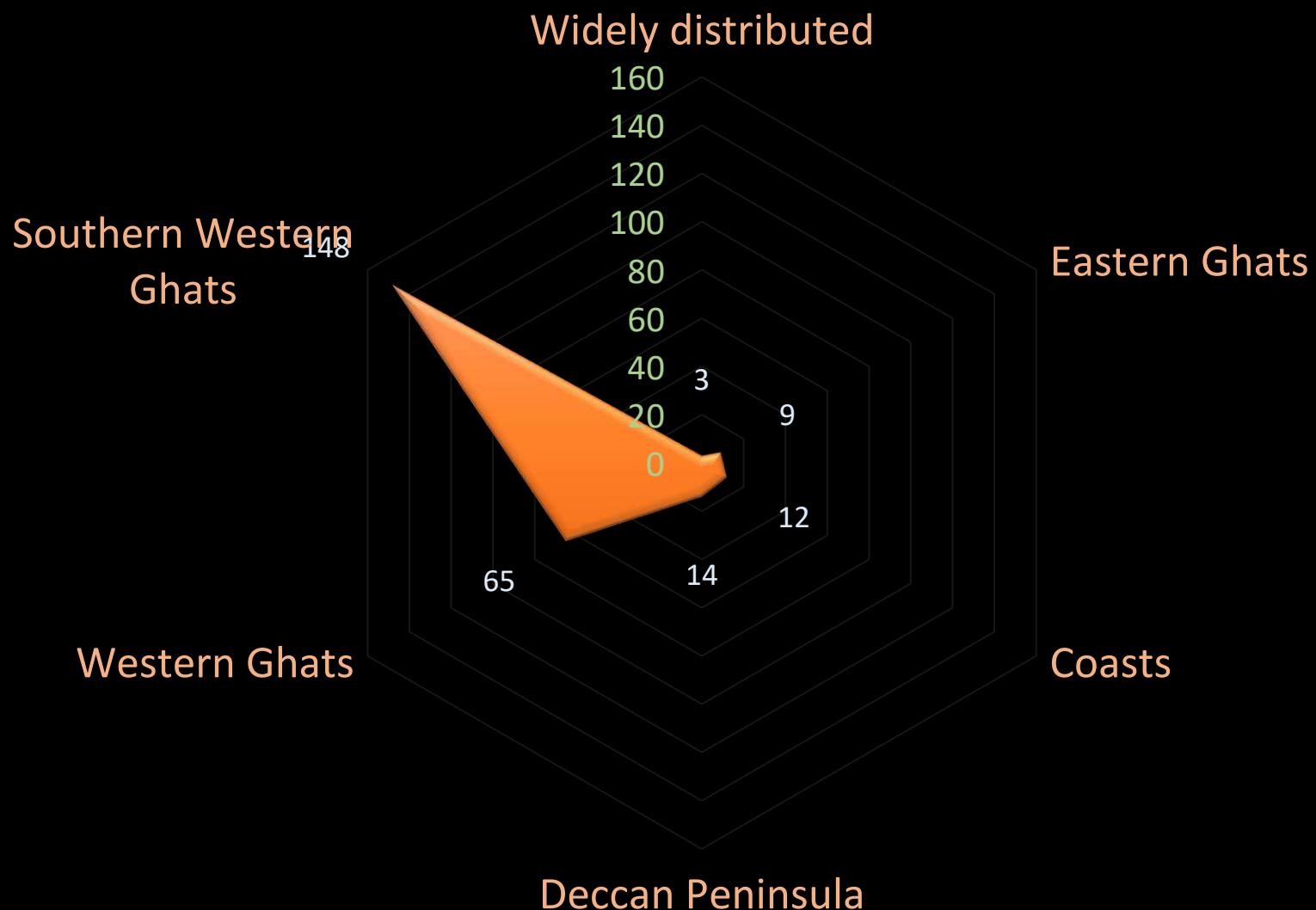
Activities	Achievements 2020-21	Achievements 2016-2021
Field surveys	1	11
Field numbers collected	180	2000
Species identified	637	1140(Dicots:946; Monocots: 194)
Species described and documented	954	1140
Herbarium processed	1180	11146
Labelling of sheets	99	4251
Publications	5+3	9+3
Final compilation of reports	Preparation of keys, formatting and editing of MS is under way. Final report will be submitted on or before 30-06-2021	



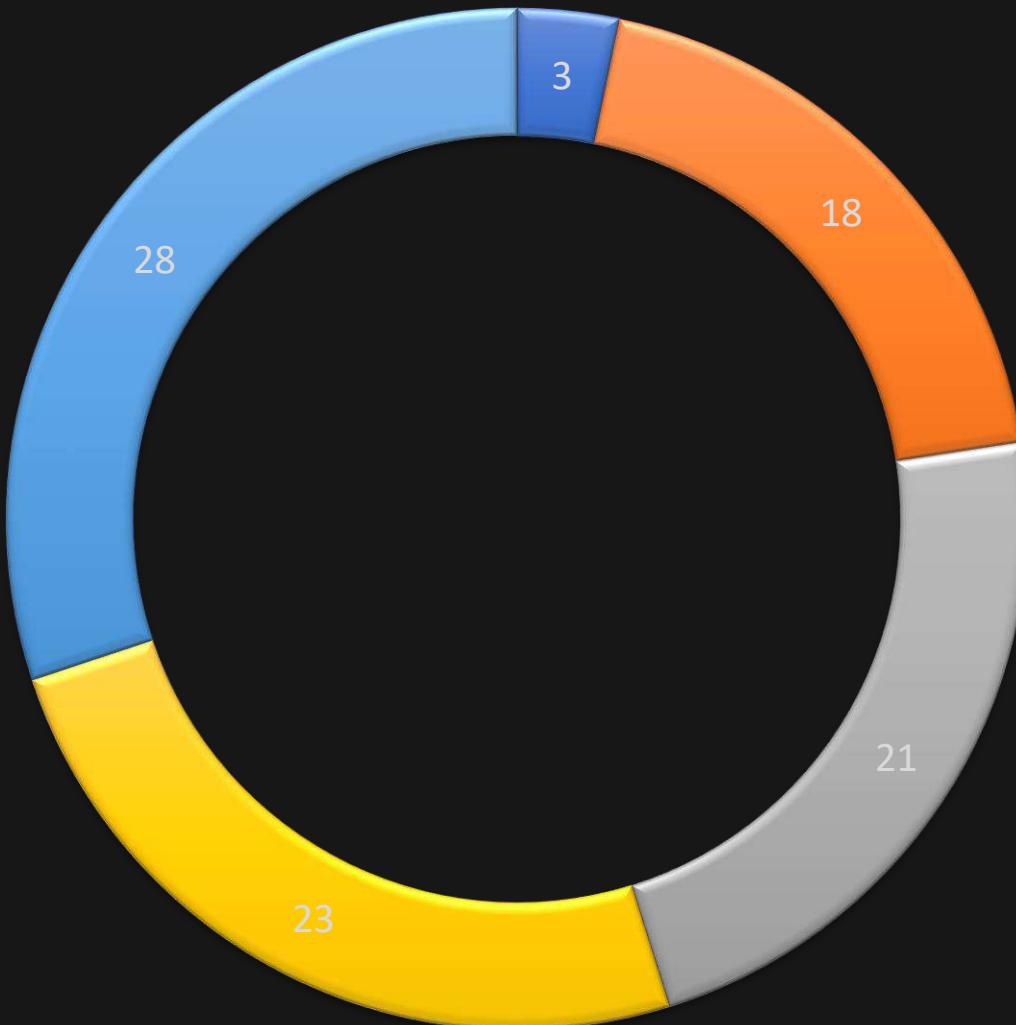
## Ten best represented families



# NO. OF ENDEMIC ANGIOSPERMS RESTRICTED IN DIFFERENT PHYTOGEOGRAPHICAL REGIONS



# Number of Threatened Plants



■ Critically Endangered ■ Endangered ■ Vulnerable ■ Near Threatened ■ Least concern

## MALVACEAE

### Key to the genera

- 1a. Epicalyx present..... 2
- b. Epicalyx absent..... 3. **Sida**
- 2a. Fruit a schizocarp..... 5. **Urena**
- b. Fruit a capsule..... 3
- 3a. Calyx spathaceous, irregularly 2- or 3-lobed..... 1. **Abelmoschus**
- b. Calyx not spathaceous, regularly 5-lobed..... 4
- 4a. Style distally 5-branched..... 3. **Hibiscus**
- b. Style unbranched..... 2. **Azanza**

#### 1. ABELMOSCHUS Medik.

**Abelmoschus angulosus** Wall. ex Wight & Arn., Prodr. Fl. Ind. Orient.: 53. 1834; T.K. Paul in B.D. Sharma & Sanjappa, Fl. India 3: 301. 1993; Sasidh., Biodiv. Doc. Kerala 6. Fl. Pl.: 46. 2004, incl. vars.; M. Mohanan & A.V.N. Rao in P. Daniel, Fl. Kerala 1: 400. 2005; T.S. Nayar & al., Fl. Pl. Kerala: 398. 2006, incl. vars. *Hibiscus angulosus* Steud., Nomencl. Bot. 1: 758, 1840; Mast. in Hook.f., Fl. Brit. India 1: 341. 1874; Dunn in Gamble, Fl. Madras: 97(70). 1915.

Shrub, to 2 m high. Leaves 3–7-lobed, 3–10.5 × 3.5–12 cm. Flowers solitary. Epicalyx 4–6-lobed. Calyx membranous, hairy. Corolla yellow with a purple centre, turning pink later. Staminal column ca. 2 cm long. Ovary 5-loculed; styles 5-armed. Capsules ovoid, ca. 4 cm long, beaked, hispid; seeds globose, hairy.

*Fl. & Fr.:* Aug.–Dec. *Habitat:* Moist deciduous and evergreen forests.

*Specimen examined:* Swamikuchimala, 05.11.2020, Sujana & Vadhyar 147057.

#### 2. AZANZA Alef.

**Azanza lampas** (Cav.) Alef., Bot. Zeitung (Berlin) 19: 297. 1861. *Hibiscus lampas* Cav., Diss. 3: 154. 1787; Dunn in Gamble, Fl. Madras: 98(71). 1915. *Thespisia lampas* (Cav.) Dalzell, Bombay Fl.: 19. 1861; Mast. in Hook.f., Fl. Brit. India 1: 345. 1874; T.K. Paul in B.D. Sharma & Sanjappa, Fl. India 3: 301. 1993; Sasidh., Biodiv. Doc. Kerala 6. Fl. Pl.: 54. 2004; M. Mohanan & A.V.N. Rao in P. Daniel, Fl. Kerala 1: 430. 2005.

Shrub, to 2.5 m high. Leaves 3–5-lobed or entire, to 13 × 11 cm. Flowers solitary, axillary. Calyx cupuliform, 5-dentate. Corolla bright yellow with a maroon centre. Staminal column to 2 cm long. Ovary obconic, 5-loculed. Capsules ovoid, ca. 3 × 2 cm, stellate-hairy.

*Fl. & Fr.:* Sept.–Apr. *Habitat:* Evergreen and moist deciduous forests.

*Specimen examined:* Upper Victoria, 08.07.2020, Sujana & Vadhyar 147973

#### 3. HIBISCUS L.

##### Key to the species

- 1a. Shrub; stipules auricled at base..... 2. **H. surattensis**
  - b. Climber; stipules not auricled at base..... 1. **H. hispidissimus**
- 1. Hibiscus hispidissimus** Griff., Not. Pl. Asiatic. 4: 521. 1854; Sasidh., Biodiv. Doc. Kerala 6. Fl. Pl.: 49. 2004; M. Mohanan & A.V.N. Rao in P. Daniel, Fl. Kerala 1: 413. 2005. *H. furcatus* Roxb. ex DC., Prodr. 1: 449. 1824, non Willd. 1809; Mast. in Hook.f., Fl. Brit. India 1: 335. 1874; Dunn in Gamble, Fl. Madras: 97(70). 1915. *H. aculeatus* Roxb., Fl. Ind. 3: 20. 1832, non Walter 1788; T.K. Paul in B.D. Sharma & Sanjappa, Fl. India 3: 323. 1993.

Climber. Leaves 3–5-lobed, to 7.8 × 6.5 cm. Flowers solitary, axillary. Epicalyx 10–12, bifurcate. Calyx deeply 5-lobed; lobes lanceolate. Corolla yellow with a purple centre. Staminal column to 1.5 cm long. Ovary 5-loculed; stigmas capitate. Capsules ovoid, ca. 1.5 cm long, beaked with accrescent calyx, densely pubescent.

*Fl. & Fr.:* Sept.–Mar. *Habitat:* Dry and moist deciduous forests.

*Specimen examined:* Vellimalai, 23.02.2014, JHFB & RGV 137132.

#### 2. HIBISCUS surattensis L., Sp. Pl.: 696. 1753; Mast. in Hook.f., Fl. Brit. India 1: 344.

1874; Dunn in Gamble, Fl. Madras: 97(70). 1915; T.K. Paul in B.D. Sharma & Sanjappa, Fl. India 3: 327. 1993; Sasidh., Biodiv. Doc. Kerala 6. Fl. Pl.: 50. 2004; M. Mohanan & A.V.N. Rao in P. Daniel, Fl. Kerala 1: 422. 2005.

Shrub, prickly. Leaves 3–5-lobed; lobes linear to lanceolate, 3–7 × 4–10 cm. Flowers solitary, axillary. Calyx 5-lobed; lobes ovate to deltoid, hispid with recurved prickles. Corolla yellow with a deep purple centre; petals obovate. Staminal column glandular-hairy. Ovary subconical; style ca. 2.5 mm long; stigmas discoid. Capsules ovoid, ca. 1.5 × 1 cm, hairy.

*Fl. & Fr.:* Sept.–Feb. *Habitat:* Moist deciduous forests.

*Specimen examined:* Adakkad, 08.12.2017, Sujana & RGV 140572.

#### 4. SIDA L.

**Sida acuta** Burm.f., Fl. Ind.: 147. 1768; Dunn in Gamble, Fl. Madras: 90(64). 1915; Manilal & Sivar., Fl. Calicut: 45. 1982; T.K. Paul in B.D. Sharma & Sanjappa, Fl. India 3: 281. 1993; Sasidh., Biodiv. Doc. Kerala 6. Fl. Pl.: 52. 2004; M. Mohanan & A.V.N. Rao in P. Daniel, Fl. Kerala 1: 387. 2005; *S. carpinifolia* sensu Mast. in Hook.f., Fl. Brit. India 1: 323. 1874, non L.f. 1782.

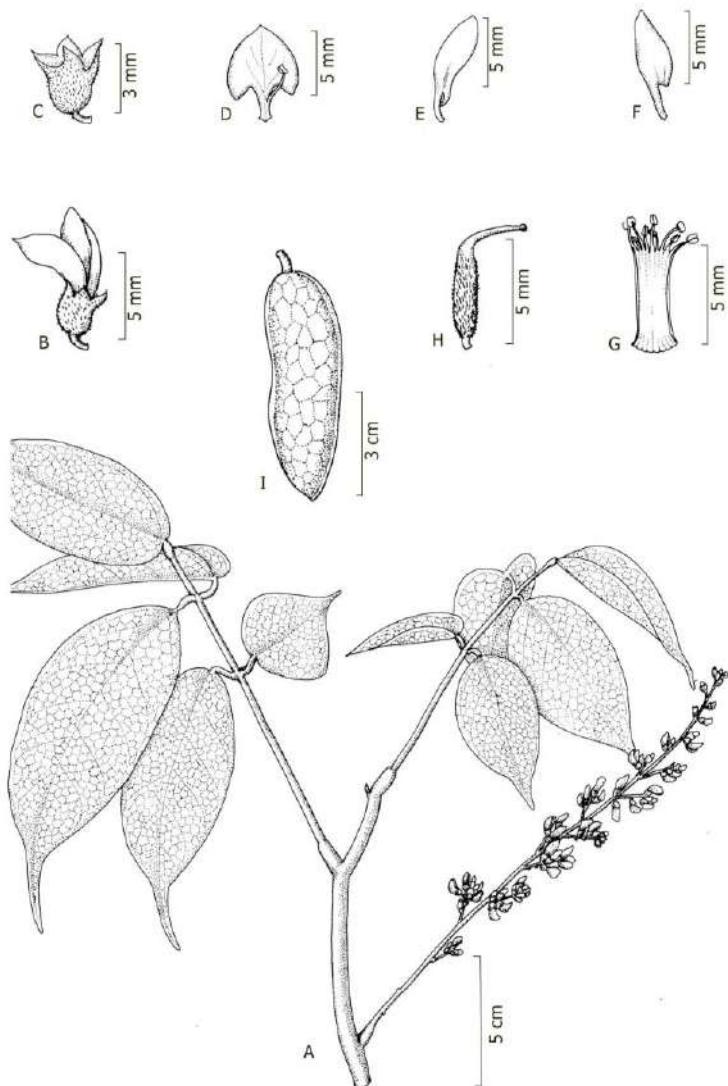


Fig. 57. *Kunstleria keralensis* C.N. Mohanan & N.C. Nair: A. Flowering twig; B. Flower; C. Calyx; D. Standard petal with vexillary adnate stamen; E. Wing petal; F. Keel petal; G. Staminal column; H. Pistil; I. Pod.

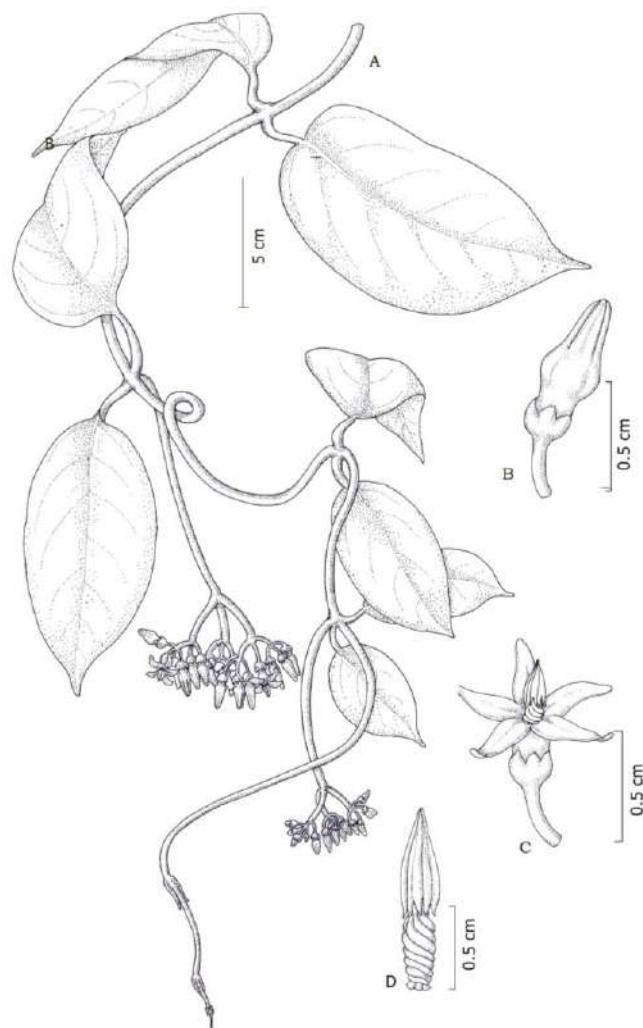


Fig. 63. *Parsonsia inodora* (Lour.) M. R. & S. M. Almeida: A. Flowering twig; B. Flower bud; C. Flower; D. Stamen.

- **New species published**
  - *Goniothalamus sericeus* Sujana & Vadhyar
  - *Memecylon nervosum* Vadhyar, J.H.F. Benj. & Sujana
  - *Hiptage laxiflora* Sujana & Vadhyar
- **New species communicated for publication**
  - Proposed name: *Artabotrys comosus* Sujana & Vadhyar
  - Proposed name: *Glycosmis albicarpa* Sujana & Vadhyar
- **New distributional record to India from Kanyakumari WLS**
  - *Isonandra zeylanica* Jeuken
  - *Memecylon auratifolium* H. Perrier
  - *Pavetta thwaitesii* Bremek.
- **New distributional records to Tamil Nadu**
  - *Cynometra beddomei* Prain
  - *Elaeocarpus serratus* var. *weibelii* Zmarzty
  - *Begonia bachulkarii* Aitawade, Kattuk. & S.R.Yadav
  - *Momordica sahyadrica* Kattuk. & V.T.Antony
  - *Meistera fulviceps* (Thwaites) Skornick. & M.F.Newman
  - *Meistera newmanii* (M. Sabu & V.P. Thomas) Skornick.& M. F. Newman)
  - *Polyalthia longipedicellata* (Alister et al.) Shailajakumari et al.
  - *Cucumis silentvalleyi* (Manilal, T.Sabu & P.Mathew) Ghebret. & Thulin

*Goniothalamus sericeus* Sujana &  
Vadhyar



*Hiptage laxiflora* Sujana & Vadhyar



*Memecylon nervosum* Vadhyar, J.H.F. Benj. &  
Sujana



*Artabotrys comosus* Sujana & Vadhyar  
(In review)



*Glycosmis albicarpa* Sujana & Vadhyar  
(In Review)



# NEW DISTRIBUTIONAL RECORDS TO INDIA



*Isonandra zeylanica* Jeuken  
Sapotaceae  
Native to Sri Lanka



*Memecylon auratifolium* H.Perrier  
Memecylaceae  
Native to Madagascar

NEW DISTRIBUTIONAL RECORDS TO INDIA

*Pavetta thwaitesii* Bremek.

Rubiaceae

Native to Sri Lanka



## NEW DISTRIBUTIONAL RECORDS TO TAMIL NADU



*Cynometra beddomei* Prain



*Momordica sahyadrica*  
Kattuk. & V.T.Antony



*Begonia bachulkarii*  
Aitawade, Kattuk. & S.R.Yadav



*Polyalthia longipedicellata*  
(Alister et al.)  
Shailajakumari et al.



*Meistera newmanii* (M.  
Sabu & V.P. Thomas)  
Skornick.& M. F. Newman



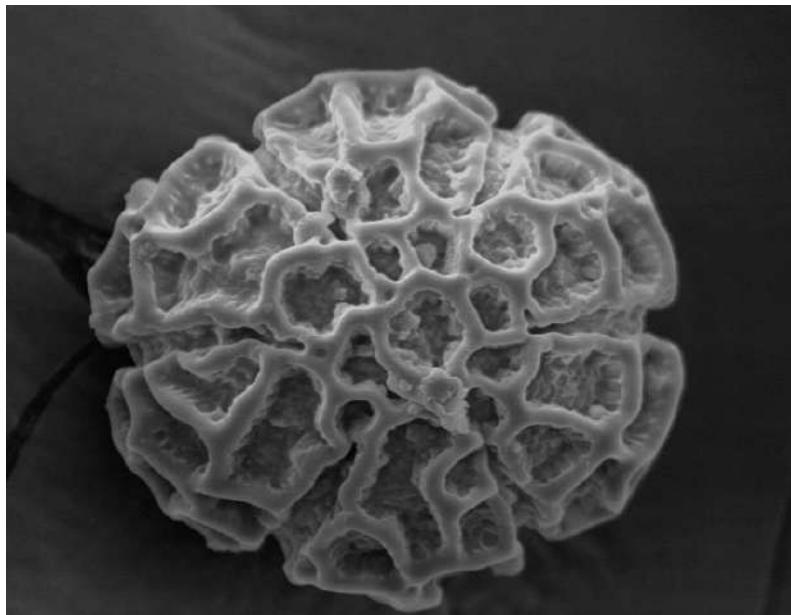
*Meistera fulviceps* (Thwaites)  
Skornick. & M.F.Newman



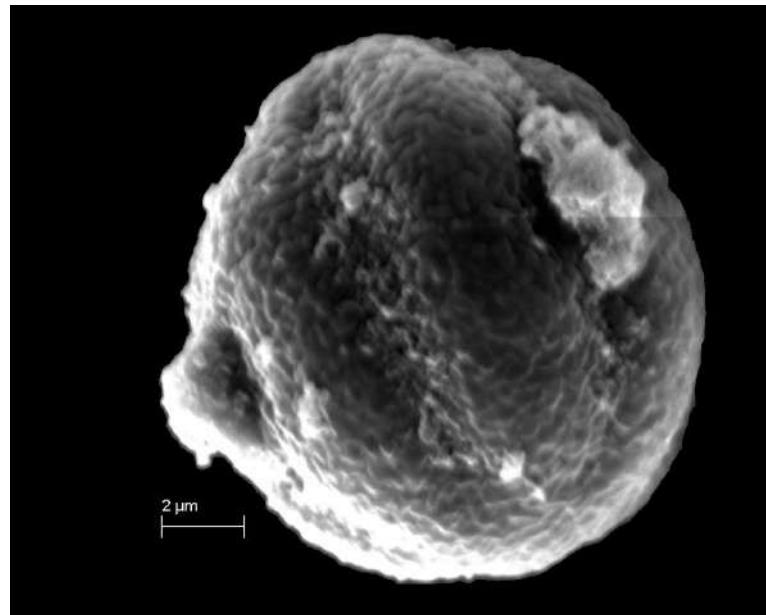
*Elaeocarpus serratus* var.  
*weibelii* Zmarzty



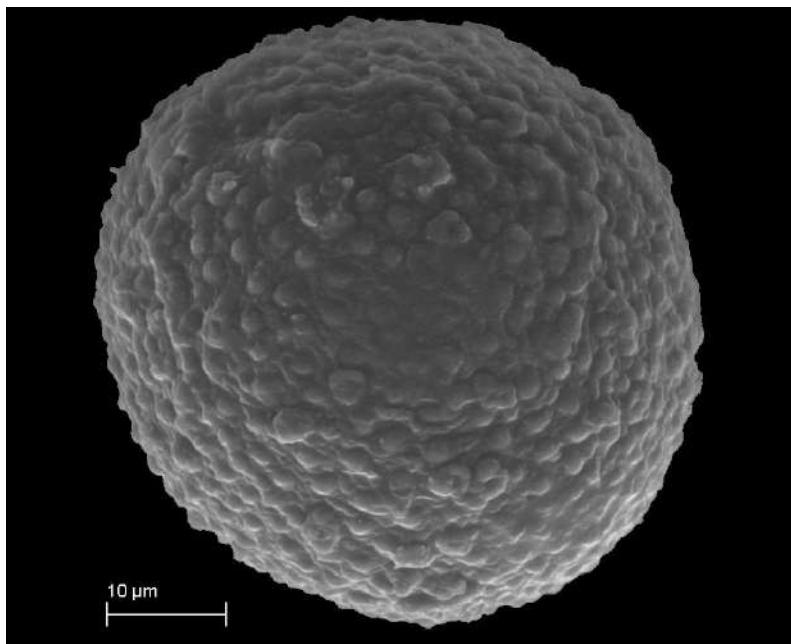
*Cucumis silentvalleyi*  
(Manilal, T.Sabu &  
P.Mathew) Ghebret. &  
Thulin



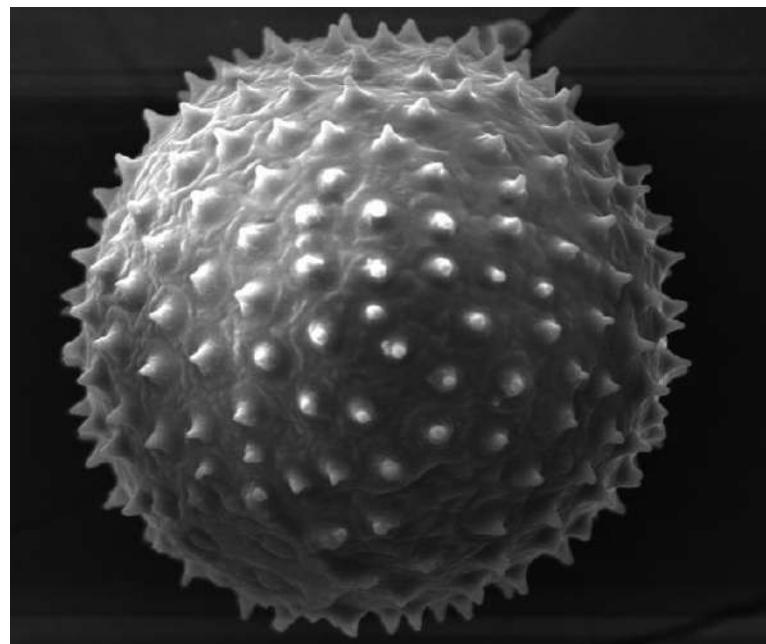
*Syncolostemon comosus* (Wight ex Benth.) D.F.Otieno



*Memecylon nervosum* Vadhyan, J.H.F. Benj. & Sujana

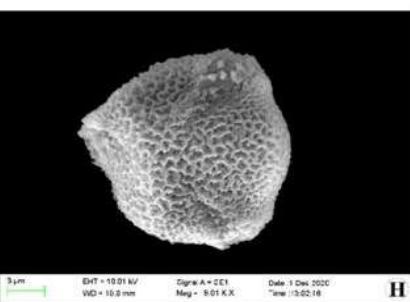
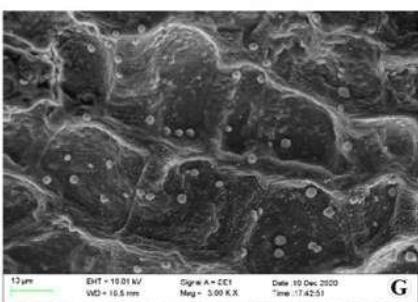
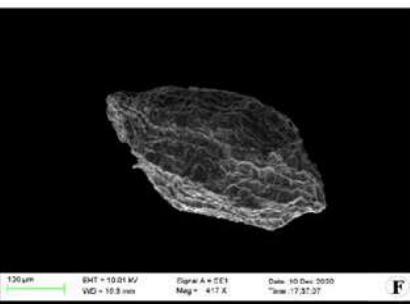


*Meistera fulviceps* (Thwaites) Skornick. & M.F.Newman



*Meistera newmani* (M. Sabu & V.P. Thomas) Skornick.& M. F. Newman

*Henckelia missionis* (Wall. ex R.Br.) A.Weber & B.L.Burtt



Augmentation of seed character

*Syncolostemon comosus* (Wight ex Benth.) D.F.Otieno



Endemic

*Memecylon heyneanum* Benth. ex Wight & Arn.



Endemic

*Miliusa manickamiana* Murugan



Endemic to Tamil Nadu

*Exacum courtallense* Arn.



Endemic

*Orophea uniflora* Hook.f. &  
Thomson



Endemic

*Poeciloneuron indicum* Bedd.



Endemic

*Acotrema uniflorum* Hook..



Endemic

*Argostemma courtallense* Arn.



Endemic

*Impatiens travancorica* Bedd.



Endemic

*Belosynapsis kewensis* Hassk.



Endemic

*Anaphyllum beddomei* Engl.



Endemic

*Porpax nana* (A.Rich.) Schuit., Y.P.Ng & H.A.Pedersen



Endemic

*Pimpinella wallichiana* (Miq.) Gandhi



Endemic

*Goniothalamus rhynchantherus* Dunn



Endangered

*Homalium jainii* A.N.Henry & Swamin.



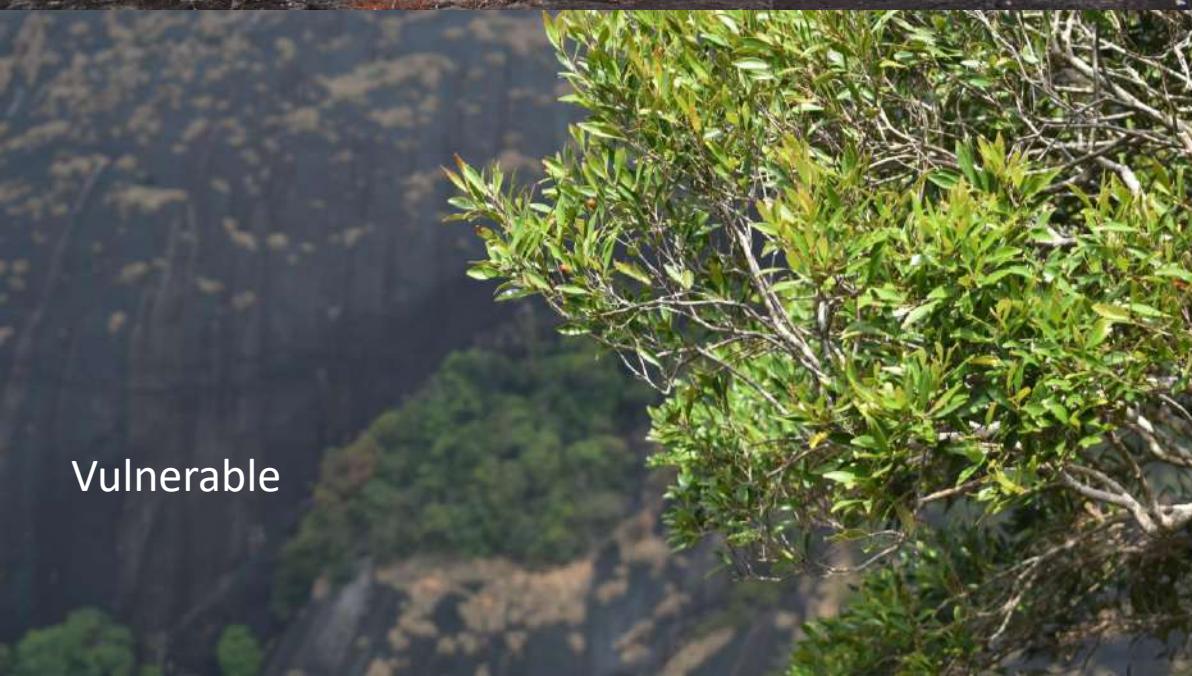
Endangered

*Saprosma fragrans* (Bedd.) Bedd.

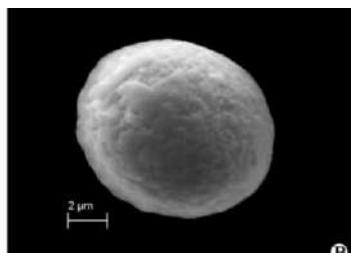
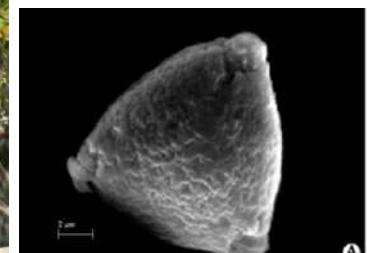


Vulnerable

# *Eugenia rottleriana* Wight & Arn.



Vulnerable



Functionally androdioecious  
flowers in *Eugenia*

*Hydnocarpus alpinus* Wight

Vulnerable



*Coscinium fenestratum* (Gaertn.) Colebr.



Data Deficient

*Trichopus zeylanicus* Gaertn.



*Begonia cordifolia* (Wight)  
Thwaites



Narrowly distributed

*Zingiber neesanum* (J.Graham) Ramamoorthy



Narrowly distributed

*Ceropegia decaisneana* Wight



Narrowly distributed



*Uvaria macropoda* Hook.f. & Thomson





*Impatiens disotis* Hook. f.



*Impatiens campanulata* Wight

*Salacia fruticosa* Wall. ex M.A.Lawson



# Major Threats



- Invasive plants
- Widening of road towards estates
- Over grazing
- Plantation activities

# PUBLICATIONS

- VADHYAR, R.G., J.H.F. BENJAMIN AND K.A. SUJANA 2020. *Memecylon nervosum* (Melastomataceae), A new Species from South India. *Edinburgh Journal of Botany* 77(3): 403–411.
- SUJANA, K.A. AND R.G. VADHYAR 2020. *Hiptage laxiflora* (Malpighiaceae), a new species from South India. *Annales Botanici Fennici* 58: 27-31.
- SUJANAK. A. & R. G. VADHYAR (2020). A new species of *Goniothalamus* (Annonaceae) from the Western Ghats of Tamil Nadu, India. *Taiwania* 65(2): 176–180.
- SUJANA, K.A. AND R.G. VADHYAR 2019. Notes on distribution, conservation and pollen morphology of an endemic and threatened wild ginger. *Journal of Non-timber forest Products* 26(2): 89–91.
- SUJANA, K.A. AND R.G. VADHYAR 2020. Ginger herb *Meistera fulviceps*: a new distribution record for Tamil Nadu. *Plantasia* #18, In: *Zoo's Print* 35(4): 15–17.
- SUJANA, K.A. AND R.G. VADHYAR 2020. *Polyalthia longipedicellata* (Annonaceae): An addition to the flora of Tamil NadU. *Indian Forester* 146 (8):778-779.

- SUJANA, K.A. AND R. G. VADHYAR (2019). *Paramignya scandens* (Griff.) Craib (Rutaceae): A New Distributional Record to Western Ghats. Indian Forester, 145(12): 1216-1217.
- SUJANA K.A. & R. G. VADHYAR (2019). Guinea Guava (Know Your Plant), ENVIS News Letter 24(1): 3.
- BENJAMIN J.H.F. & R.G. VADHYAR (2018). *Julostylis* (Malvaceae): A New Generic Record for Tamil Nadu. Indian J. Forestry 41(3): 269– 271.

#### Communicated

- VADHYAR R. G. BHOOPATHIAYYANAR M. & K. A. SUJANA. Augmentation of description, distribution, population and conservation status of *Henckelia missionis* – an endemic species of Tamil Nadu (Submitted to JETB).
- SUJANA K. A. & R. G. VADHYAR. A new species of *Artobotrys* (Annonaceae from southern Western Ghats, India ( Garden's Bulletin Singapore)
- SUJANA K. A. & R. G. VADHYAR. *Glycosmis albicarpa* (Rutaceae: Clauseneae), a new species of from southern Western Ghats, India (Nordic Journal of Botany).

## ADVISORY SERVICES WITH TAMIL NADU FOREST DEPARTMENT

- Interim reports submitted to DFO, Kanyakumari
- Forest range wise information with photographs on dominant plants KKWLS given to RFOs
- A list of identified plants submitted to DFO Kanyakumari for including management plan and for formulating conservation strategies

*Misty Mountains ....Missing species*



# We are in News!!!!

## New plant species found in Western Ghats

More detailed botanical exploration of the area is crucial for documentation

E.M. MANOJ

KALPETA

A team of scientists of the Botanical Survey of India (BSI) have reported the discovery of three new plant species in the evergreen forest patches of the southern end of the Western Ghats in Kerala and Tamil Nadu.

The three species – *Eugenia sphaerocarpa* of the Myrtaceae or Rose apple family, *Goniothalamus sericeus* of the Annonaceae family of custard apple and *Memecylon nervosum* of the Melastomataceae (Kanyaboo or Kaasav in local parlance) family – were discovered during a recent exploration led by BSI scientist K.A. Sujana.

### Edible fruits

A good population of *Eugenia sphaerocarpa* is growing in the Kallayam area of the



Malabar wildlife sanctuary in Kerala above 800m. The species have fragrant flowers and aromatic fruits.

Characteristic greenish-yellow to beige petals are fragrant while the fruits are very shiny and an attractive golden yellow in colour. *Sericatus* refers to the presence of prominently raised lateral and intramarginal veins on the lower surface of the lamina, Mr. Vadhyar said.

A small population of *Goniothalamus sericeus* plants was also found at the same sanctuary at an altitude between 700-900m with more than 10 sub-populations located along the banks of a perennial rivulet, Ragesh G. Vadhyar, a re-

searcher involved in the study, said. The species has showy purple-blue flowers and minute to purplish red fruits. *Nervosum* refers to the presence of prominently raised lateral and intramarginal veins on the lower surface of the lamina, Mr. Vadhyar said.

As these species are small trees or shrubs, a more detailed botanical exploration of the Western Ghats is crucial to document them, Dr. Sujana said.

Mature flowers with char-



## പശ്ചിമഘട്ടത്തിൽ മുൻ സസ്യങ്ങൾക്കുടി കണ്ടെന്ന്

### കൂടുതല്

ഒരു അധികമായി മാറ്റം പറ്റിയാണ് കാഡുവിന്റെ വിവരങ്ങൾ. മുൻ സസ്യങ്ങൾക്കുടി കണ്ടെന്ന് എന്ന് അഭ്യർത്ഥിച്ചു കൊണ്ട് ഇതു പറയുന്നത് പൊതു വിജ്ഞാനികളുടെ അനുഭവം പരിഹരിക്കുന്നതാണ്.

ഈ സ്ഥലത്തിൽ മുൻ സസ്യങ്ങൾക്കുടി കണ്ടെന്ന് എന്ന് അഭ്യർത്ഥിച്ചു കൊണ്ട് ഇതു പറയുന്നത് പൊതു വിജ്ഞാനികളുടെ അനുഭവം പരിഹരിക്കുന്നതാണ്.

ഈ സ്ഥലത്തിൽ മുൻ സസ്യങ്ങൾക്കുടി കണ്ടെന്ന് എന്ന് അഭ്യർത്ഥിച്ചു കൊണ്ട് ഇതു പറയുന്നത് പൊതു വിജ്ഞാനികളുടെ അനുഭവം പരിഹരിക്കുന്നതാണ്.

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## MEMECYLON NERVOSUM (MELASTOMATACEAE), A NEW SPECIES FROM SOUTH INDIA

Overview of attention for article published in Edinburgh Journal of Botany, April 2020

### SUMMARY

### News

**Title** MEMECYLON NERVOSUM (MELASTOMATACEAE), A NEW SPECIES FROM SOUTH INDIA  
**Published in** Edinburgh Journal of Botany, April 2020  
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**Authors** R. G. Vadhyar, J. H. F. Benjamin, K. A. Sujana

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മുൻ സസ്യങ്ങൾക്കുടി  
കണ്ടെന്ന്

എ.കെ. ശ്രീജിത്ര്

കല്ലൂർ

ആത്തചുകയുടെയും കായാ  
സുവിന്റെയും കൃട്ടംബത്തിൽ  
പുട്ട് രണ്ടുചെടികൾ ഉംപെ  
ം മൂന്ന് ചെടികൾ ഗവേഷകൾ  
കണ്ടെന്ന്.

വലിയ മഞ്ഞനിറത്തിലും  
ഒരു കാജുളുണ്ടാകുന്ന യുജി  
നിയ മുഖ്യരോകാർപ് (*Euginea  
sphaerocarpa*) മലബാറിൽ വന്നു  
ഗസക്കേതത്തിൽനിന്നും, ആത്ത  
ചുകയുടെ കൃട്ടംബത്തിൽപുട്ട്  
ഗോണിയോതലാമാൻ സെരിസി  
യസും (*Goniothalamus sericeus*),  
കായാസുവിന്റെ കൃട്ടംബമായ  
മെമിസെയ്ലോണി നെർവോസം  
(*Memecylon nervosum*) എന്നിവ  
കന്നുകുമാരി വന്നുഗസക്കേ  
തത്തിൽനിന്നുമാണ് കണ്ടെന്ന്  
യർ.

കേരള ബൊട്ടാണിക്കൽ  
സർവേ ഓഫ് ഇന്ത്യയിലെ മലയാ  
ളി ഗവേഷകരായ ഡോ. എ.കെ.എ.  
സുജനയും രാകേഷ് ജി. വായ്യാ  
രൂട്ടൻഡിയ സംഘമാണ് ഇവ  
കണ്ടെന്നതിയർ.

മിർട്ടേസിയ (Myrtaceae) സസ്യ  
കൃട്ടംബത്തിലെ അംഗമാണ് 'യു  
ജിനിയ മുഖ്യരോകാർപ്'. അതിൽ  
26 ഇനങ്ങളാണ് ഇന്ത്യയിൽ  
ഇതുവരെ കണ്ടെന്നതിയിട്ടുള്ളത്.



Thank You

