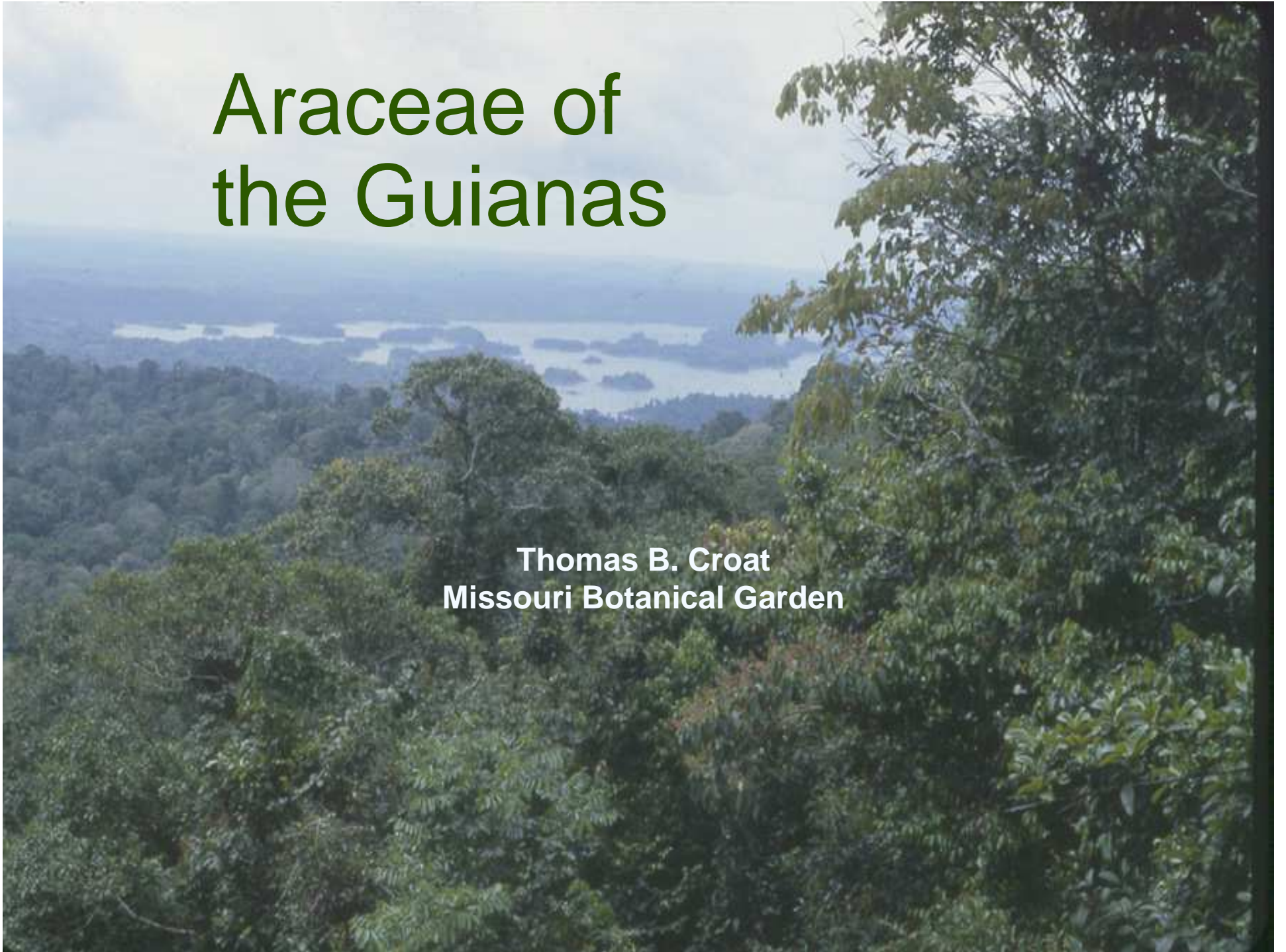


# Araceae of the Guianas

Thomas B. Croat  
Missouri Botanical Garden



# Flora of Guianas Statistics

---

- Flora is moderately small
- Flora is moderately endemic
- 23 Native Genera (4 Introduced Genera)
- 156 species (8 in introduced species)
- 165 taxa (8 subsp. and var.)
- 80 species endemic to E. South America
- 50% of Native Species are Endemic



- Anaphyllopsis- 1

- Anthurium- 26

- Caladium- 4

- Cyrtosperma - 2

- Dieffenbachia - 9

- Dracontium - 4

- Heteropsis- 6

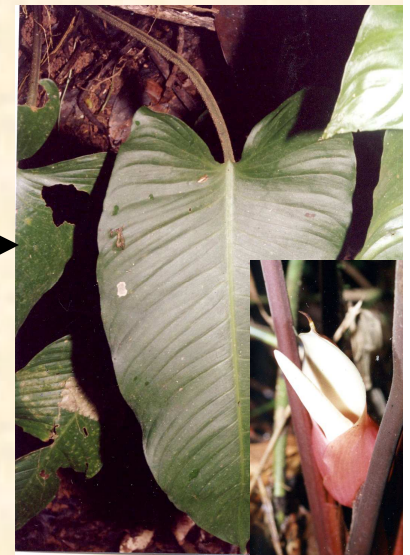
- Homalomena - 1

- Jasarum - 1

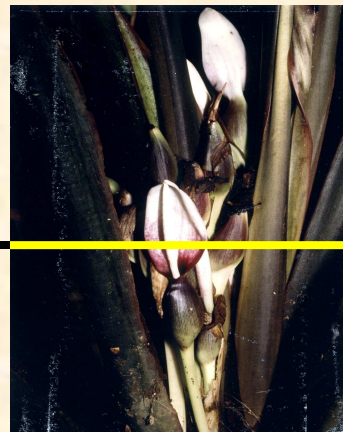
- Landoltia - 1

- Lemna - 1

- Monstera - 5



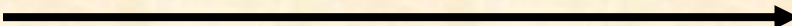
- Montrichardia - 2
- Philodendron - 60
- Pistia - 1
- Rhodospatha - 4
- Schismatoglottis - 2
- Spathiphyllum - 6
- Stenospermation - 2
- Syngonium - 2
- Urospatha - 2
- Wolffiella - 2
- Xanthosoma - 13

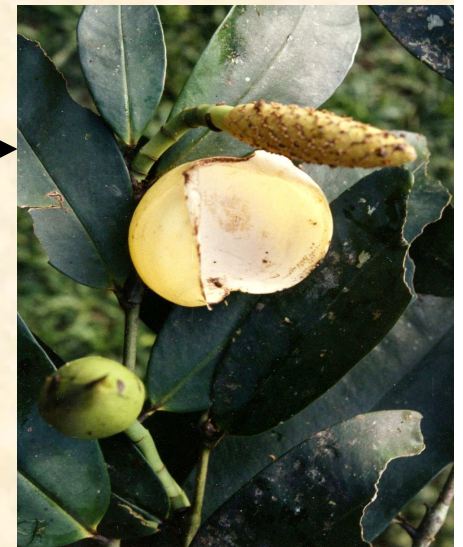




# Genera arranged by Size

---

- Philodendron - 60 [2.3 times larger than Anthurium]
- Anthurium - 26
- Xanthosoma - 13 [Unusually large percentage]
- Dieffenbachia - 9
- Heteropsis - 6 
- Spathiphyllum - 6
- Monstera - 5
- Caladium - 4
- Dracontium - 4
- Rhodospatha - 4



# Smaller genera by size

---

- Cyrtosperma-2
- Montrichardia-2
- Schismatoglottis-2
- Stenospermatum-2
- Syngonium-2
- Urospatha- 2
- Wolffiella-2
- Anaphyllopsis- 1
- Homalomena-1
- Jasarum-1
- Lemna-1
- Landoltia-1
- Pistia-1



# Philodendron - 60 species

---

- Compared to the Andean countries of Western South America, Philodendron is rich in the Amazon lowlands
- 38% of the species in the Guianas are in this genus
- 13% of species are sect. *Pteromisidium*





*Philodendron  
squamiferum*  
Poeppig







Philodendron soderstromei



Philodendron  
werkhoveniae Croat



Philodendron moonenii Croat





Philodendron  
ushanum Croat

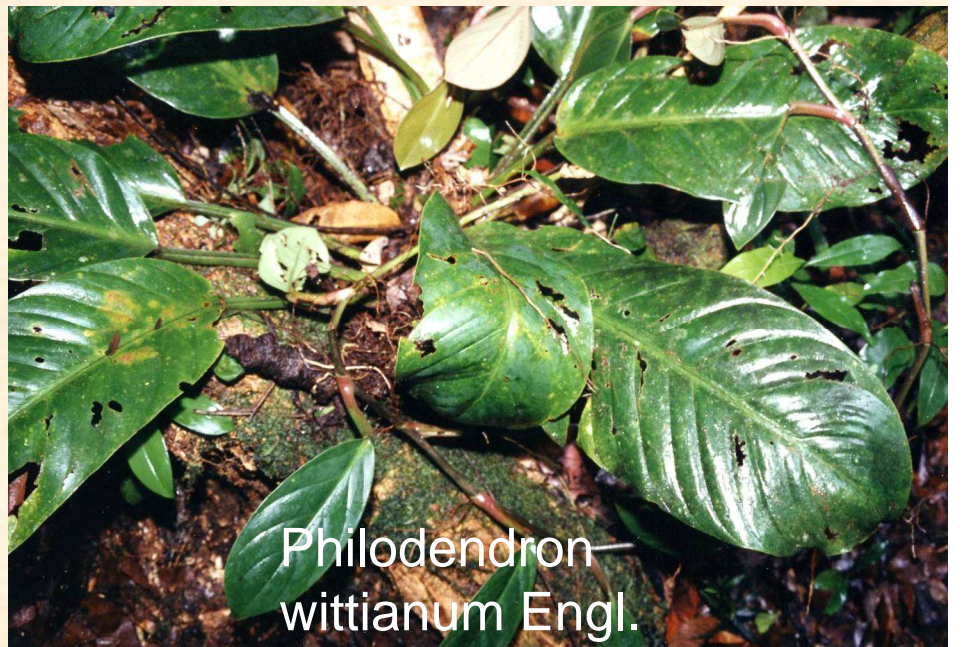




Philodendron  
ornatum Schott

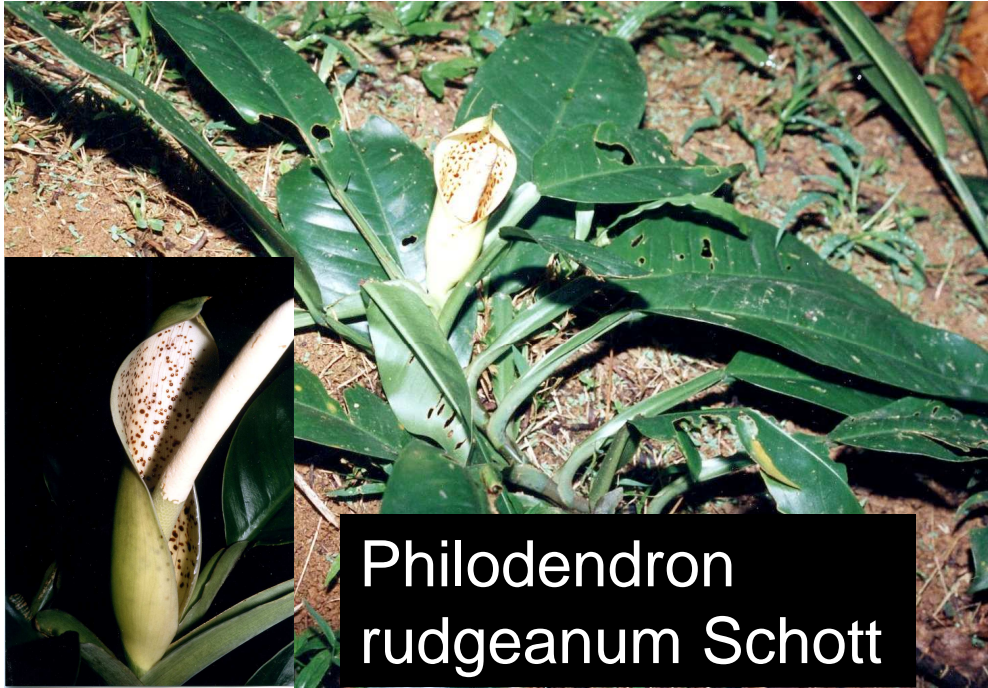


Philodendron  
deflexum Poepp.



Philodendron  
wittianum Engl.





Philodendron  
rudgeanum Schott



Philodendron  
surinamense Miq.

Philodendron placidum Schott



Philodendron  
guttiferum Kunth





*Philodendron sagittatum* Liebm.





Philodendron  
polypodioides  
Jonker & Jonker





Philodendron  
goeldii Barroso



Philodendron solimoenses A.C. Sm.







*Philodendron melinonii* Brogn. ex Regel



*Philodendron linnaei* Kunth



# Anthurium

---

- 68% of the species are endemic to E. South America
- 32% of taxa are sect. Pachyneurium
- 28% of taxa are sect. are Dactylophyllium
- 6 other sections represented by 1-2 species each

# Other sections of Anthurium

---

- Sect. Calomystrum - *A. roraimense*
- Sect. Cardiolonchium - *A. sagittatum*
- Sect. Dactylophyllium - *A. eminens* & *A. sinnuatum*
- Sect. Digittinervium - *A. ptarianum*
- Sect. Leptanthum - *A. gracile*
- Sect. Porphyrochitonium - *A. bakeri*
- Sect. Tetraspermium - *A. obtusum* & *A. scandens*
- Sect. Urospadix - *A. cremersii* & *A. trinervium*
- Sect. nov. – *A. hookeri*



# Species of Anthurium widespread outside of the Guianas

---

- *A. clavigerum*
- *A. gracile* →
- *A. obtusum*
- *A. pentaphyllum*
- *A. sagittatum*
- *A. scandens*



# Endemic Anthurium species

---



**Anthurium thrinax Madison**





*Anthurium sinuatum*  
Benth ex Schott





**Anthurium sagittatum**  
(Sims) G. Don, Croat



# Caladium

---

- *Caladium bicolor* (Ait.) Vent.
- *Caladium humboldtii* Schott
- *Caladium picturatum* K. Koch
- *Caladium schomburgkii* Schott
- Unusually rich in the Guianas for this comparatively small genus
- Mostly endemic to the Guianas



# Dieffenbachia

---

- With 9 or more species the genus is unusually large for the small size of the flora.
- At least 55% endemic to the Guianas
- Taxonomically still one of the most difficult genera in the Guianas



# Dieffenbachia species

---

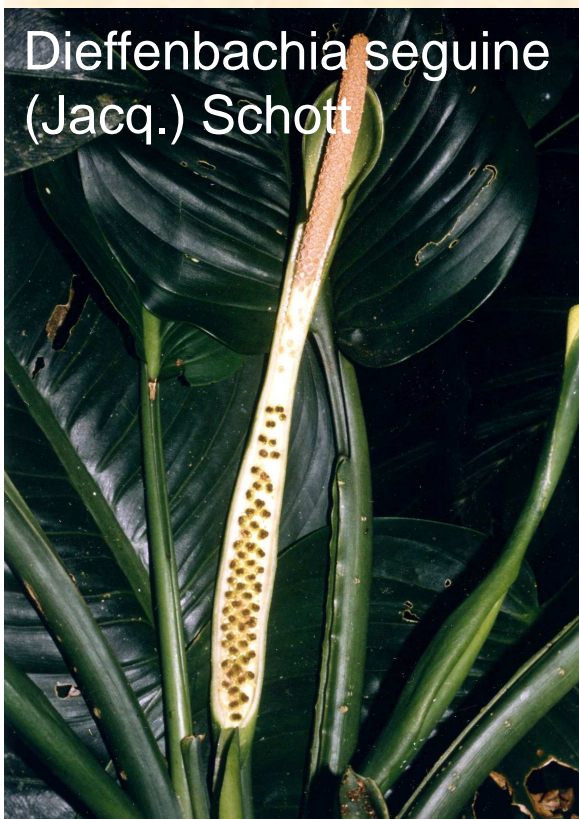
- *Dieffenbachia duida* (Steud.) G.S. Bunting
- *Dieffenbachia elegans* A.M.E. Jonker & Jonker
- *Dieffenbachia humilis* Poepp. in Poepp. & Endl.
- *Dieffenbachia irwinii* Croat
- *Dieffenbachia paludicola* N.E. Br. ex Gleason
- *Dieffenbachia parvifolia* Engl.
- *Dieffenbachia prevostiae* Croat
- *Dieffenbachia seguine* (Jacq.) Schott
- *Dieffenbachia spruceana* Schott



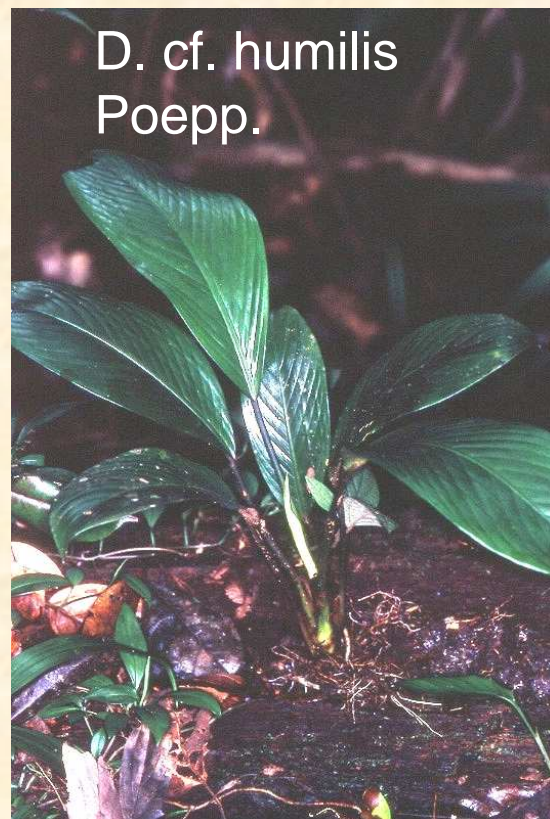


*Dieffenbachia spruceana* Schott

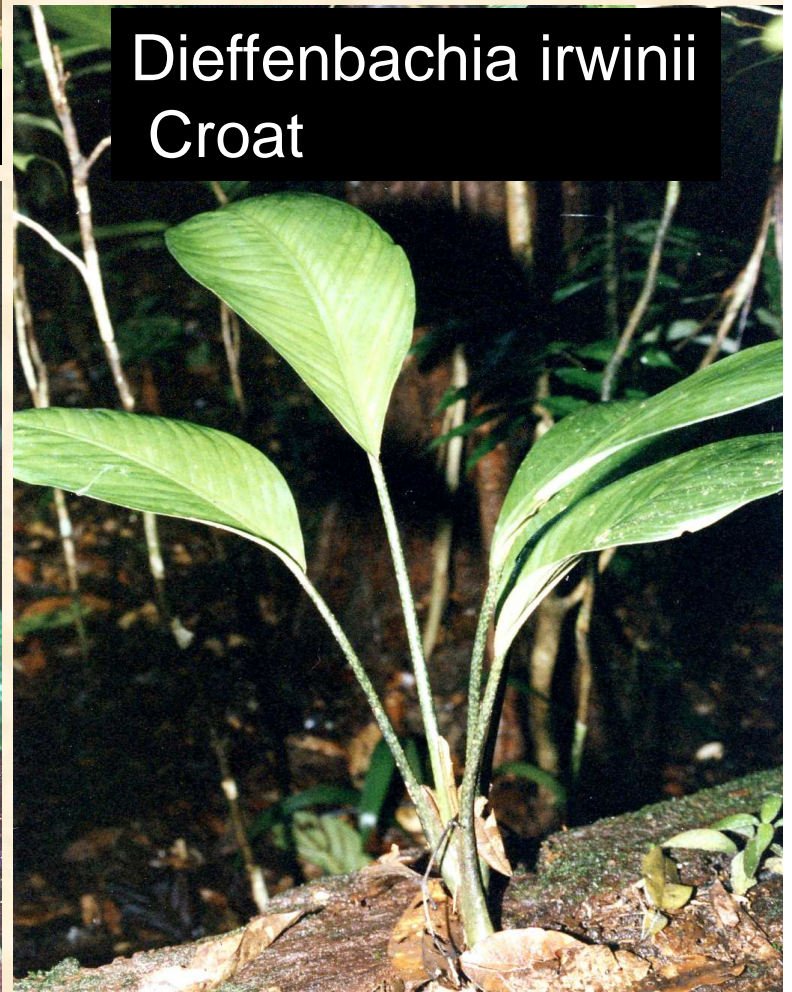
# Dieffenbachia



*Dieffenbachia seguine*  
(Jacq.) Schott



*D. cf. humilis*  
Poepp.

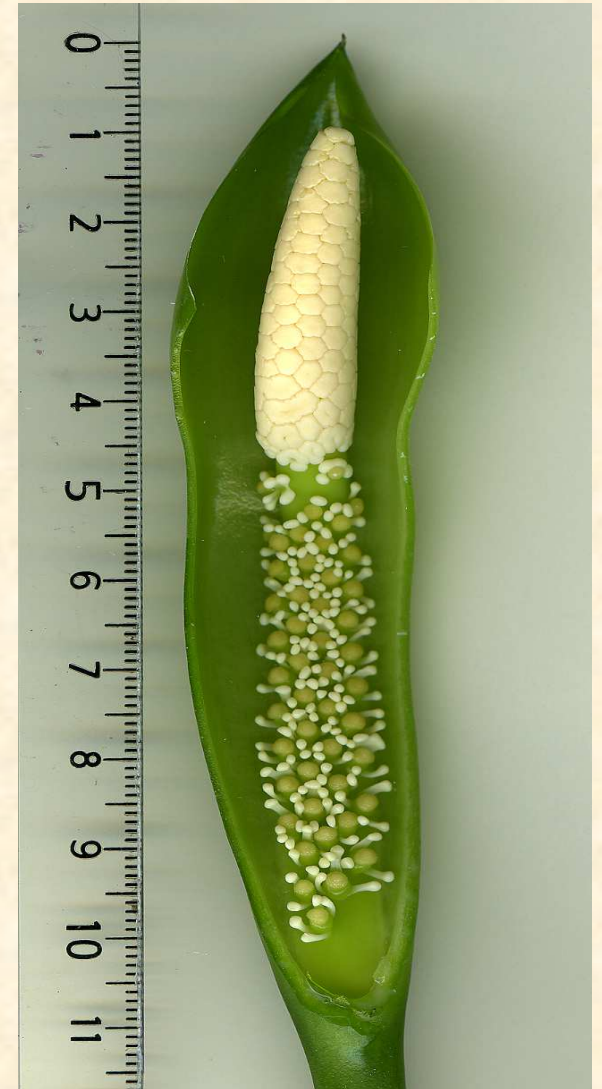


*Dieffenbachia irwinii*  
Croat





David Scherberich  
collection from  
French Guiana







Dieffenbachia  
indet from Tinde  
van Andel



Tinde van Andel collected  
this plant in Suriname.



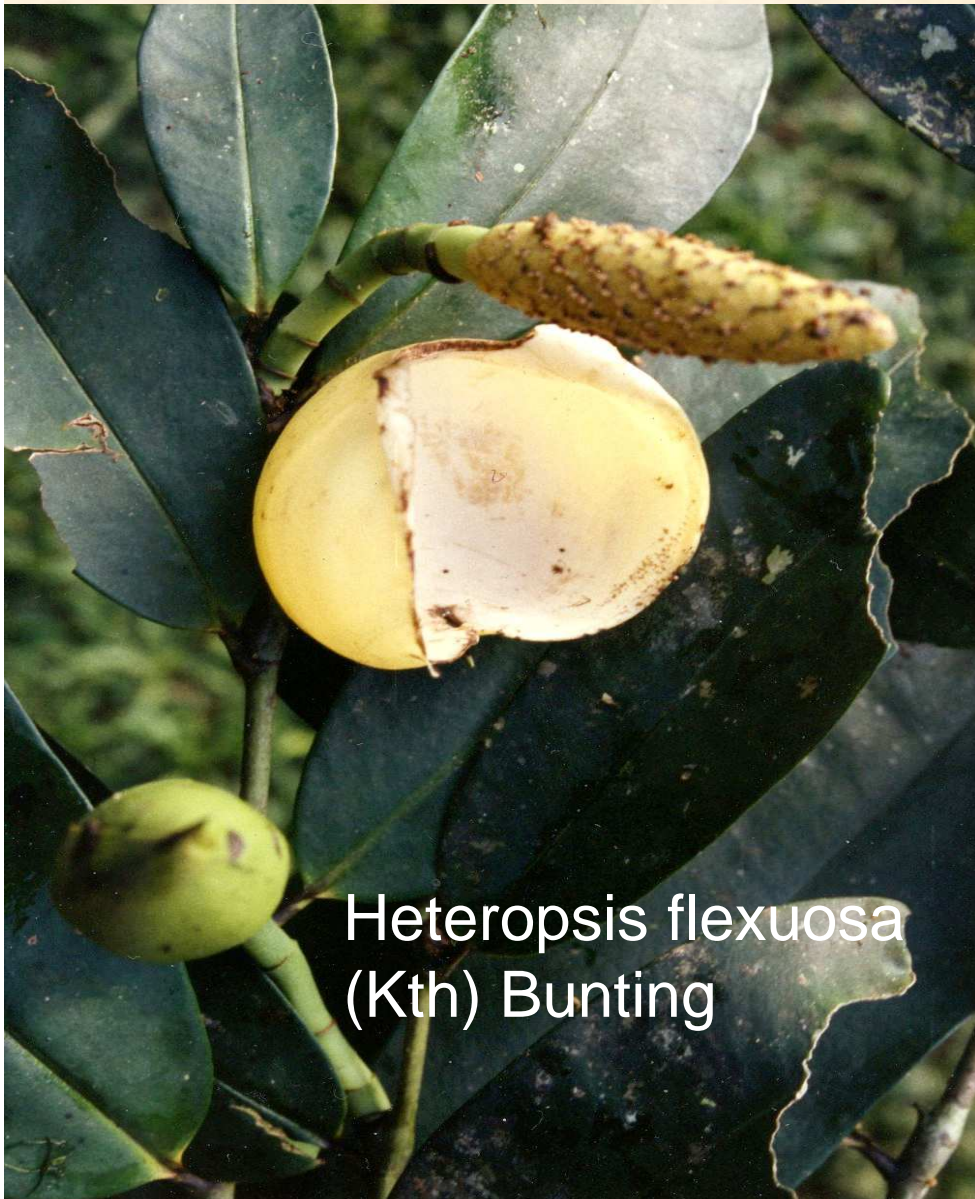
# Dracontium

---

- *Dracontium asperum* K. Koch
- *Dracontium dubium* Kunth [Confirm for Guianas]
- *Dracontium guianense* G.H. Zhu & Croat
- *Dracontium polyphyllum* L.
- *Dracontium spruceanum* (Schott) G.H. Zhu
  
- Unusually diverse in the Guianas

# Heteropsis

---



*Heteropsis flexuosa*  
(Kth) Bunting



*Heteropsis spruceana* Schott





# Heteropsis

---

- *Heteropsis flexuosa* (Kunth) G.S. Bunting
- *Heteropsis melinonii* A.M.E. Jonker & Jonker
- *Heteropsis spruceana* Schott
- *Heteropsis robusta* (G.S. Bunting) M. L. Soares
- *Heteropsis steyermarkii* G.S. Bunting
- *Heteropsis tenuispadix* G.S. Bunting
  - Unusually high species diversity

*Monstera obliqua* Miq.



# Monstera species

---

*Monstera adansonii* Schott var.  
*laniata* (Schott) Madison



*Monstera spruceana*  
(Schott) Engl.



# Monstera barrieri Croat



©CJBN



©CJBN

# Monstera

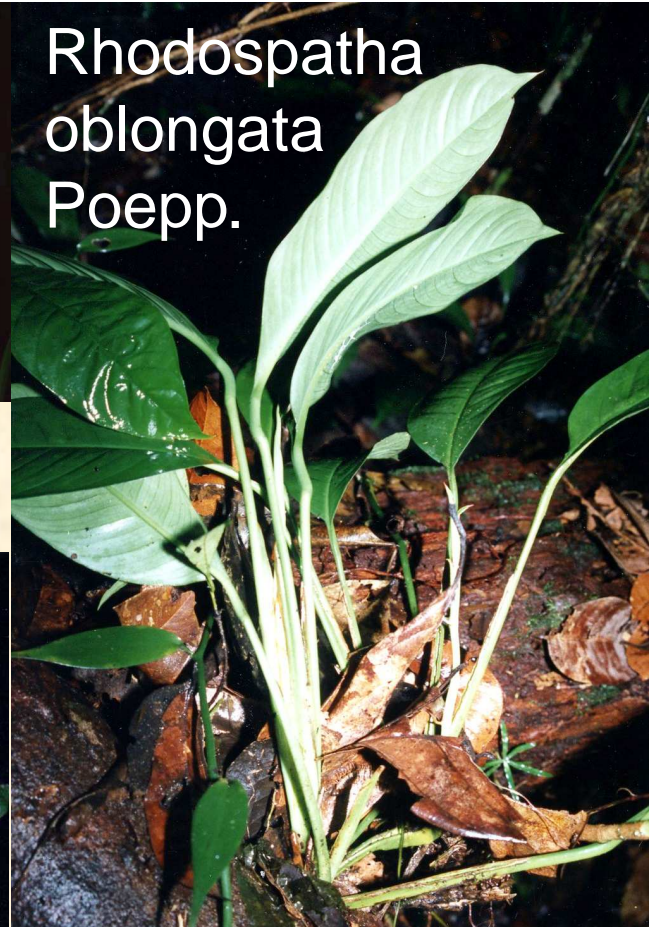
---

- *Monstera adansonii* var. *klotzschiana* (Schott) Madison
- *Monstera adansonii* var. *laniata* (Schott) Madison
- *Monstera barrieri* Croat & Moonen & Ponce
- *Monstera dubia* (Kunth in Humb., Bonpl. & Kunth) Engl. & K. Krause
- *Monstera obliqua* Miq.
- *Monstera spruceana* (Schott) Engl. in Mart.
  
- One of the more difficult genera in the Guianas and still in need of further work

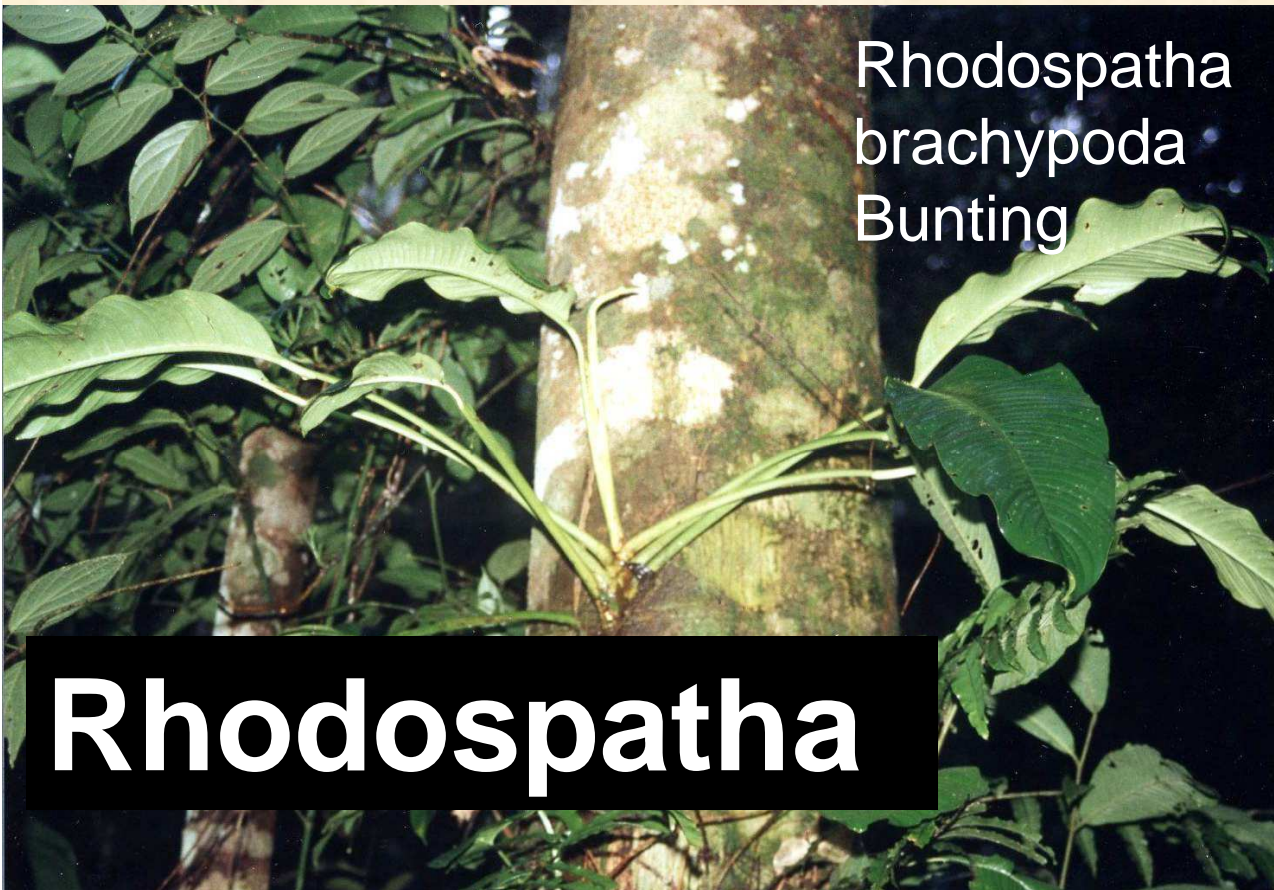




*Rhodospatha venosa*  
Gleason



*Rhodospatha oblongata*  
Poepp.



*Rhodospatha brachypoda*  
Bunting



*R. latifolia* Poepp

**Rhodospatha**



# Spathiphyllum

---

*S. canniaefolium*

*S. cuspidatum*

*S. floribundum*

*S. humboldtii*

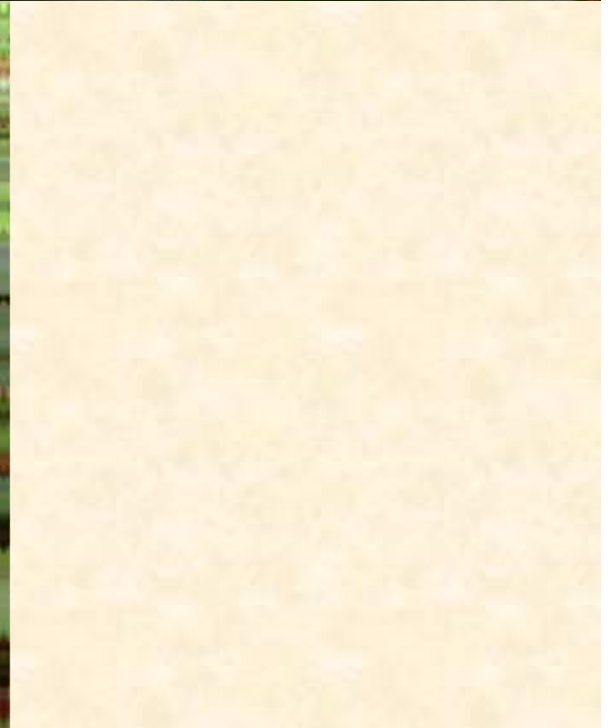
*S. maguirei*

*S. schomburgkii*





*Spathiphyllum  
cuspidatum* Schott





# Stenospermation

---

*S. ammiticum* Bunting

*S. maguirei* Bunting

*S. multiovulatum* (Engl.) NE Br.

*S. spruceanum* Schott

*S. steyermarkii* Bunting





# Syngonium

---



*S. podophyllum* Schott var.  
*podophyllum*

*S. podophyllum* var.  
*vellozianum* (Schott) Croat

*S. yurimaguense* Engl.



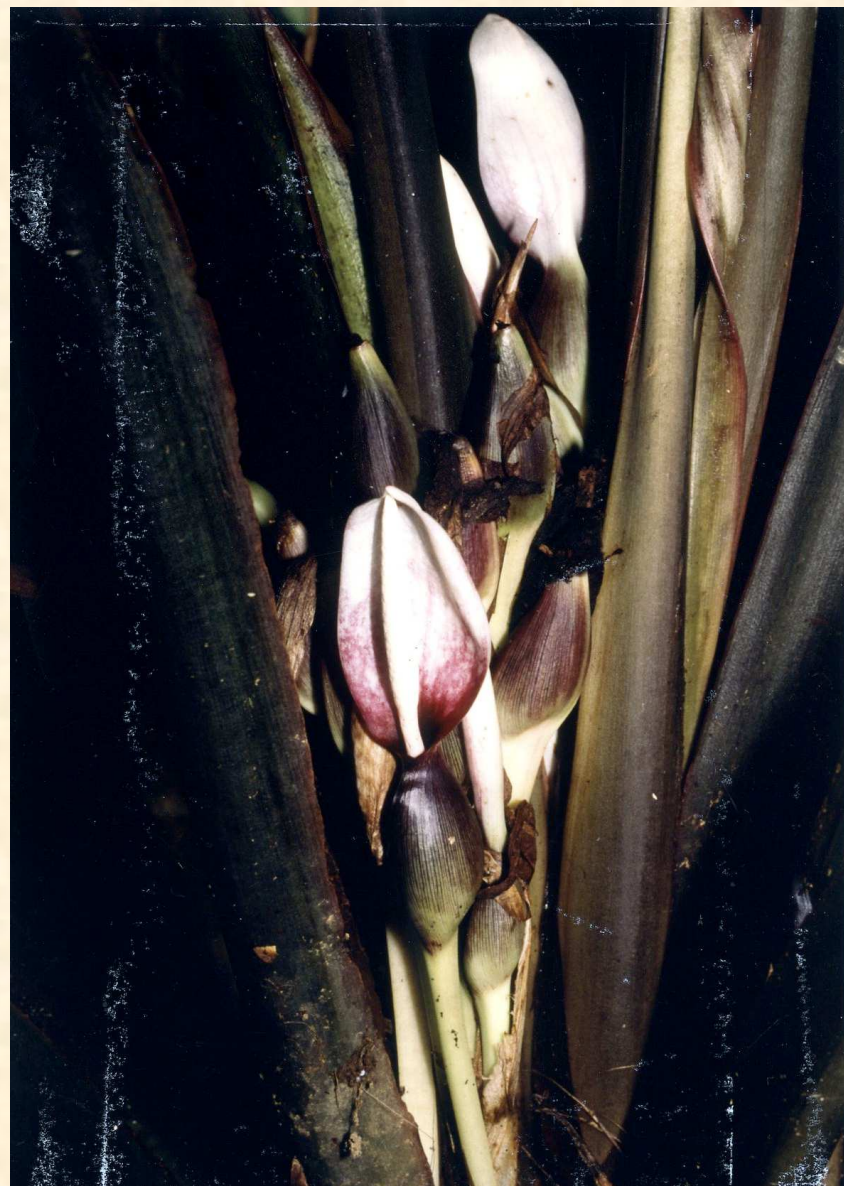


# Xanthosoma

---



*X. granvillei*  
Croat





# Xanthosoma

---

- *Xanthosoma acutum* E.G. Gonçalves
- *Xanthosoma belophyllum* Kunth
- *Xanthosoma caracu* K. Koch & Bouché
- *Xanthosoma conspurcatum* Schott
- *Xanthosoma cordatum* N. E. Br.
- *Xanthosoma cordifolium* N. E. Br.
- *Xanthosoma granvillei* Croat & Thomps.
- *Xanthosoma helleborifolium* (Jacq.) Schott
- *Xanthosoma sagittifolium* (L.) Schott in Schott & Endl.
- *Xanthosoma striatipes* (Kunth & C.D. Bouché) Madison
- *Xanthosoma striolatum* Mart. ex Schott
- *Xanthosoma undipes* (K. Koch & C.D. Bouché) K. Koch
- *Xanthosoma violaceum* Schott