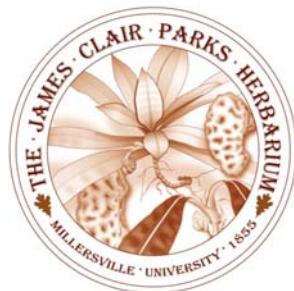


Topic 03 The Code



I. Introduction

A. The International Code of Nomenclature for Algae, Fungi, and Plants (ICN)



1. What

I. Introduction

A. The International Code of Nomenclature for Algae, Fungi, and Plants (ICN)

1. What
2. Main Goal



I. Introduction

A. The International Code of Nomenclature for Algae, Fungi, and Plants (ICN)

1. What
2. Main Goal



I. Introduction

A. The International Code of Nomenclature for Algae, Fungi, and Plants (ICN)

1. What
2. Main Goal
3. Revisionary Process



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IBC 2017
 XIX International Botanical Congress
 Shenzhen China

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The Chinese botanical community invites you to Shenzhen, China in July 2017 to participate in the XIX International Botanical Congress (IBC2017).

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First Circular
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First circular of the XIX IBC issued on July 23,...

On July 23, 2015, two years before the opening of the XIX IBC, the organizing committee of the Congress held a press conference in the office building of the Shenzhen Urban Management Bureau to ann...

31-07-2015

[Learn more](#)

KEY DATE

Call for sym...

Call for abst...

Registration

I. Introduction

A. The International Code of Nomenclature for Algae, Fungi, and Plants (ICN)



1. What
2. Main Goal
3. Revisionary Process
- 4. Six Principles**

I. Introduction

a. Independence from other codes.



Victoria
Amazon water-lily



Victoria gordoni Prout, ♀

Victoria
Moth

I. Introduction



Cola
Cola beans



Cola
Moth

I. Introduction



Pieris
Pieris in Blueberry Family



Pieris
Butterfly

I. Introduction



Leaves
Photograph by Duncan Baldwin

Octolobus
Small trees from W Africa
Cacao Family



Octolobus
Pallas Cat from C & N Asia
Cat Family

I. Introduction



Ficus
Figs



Ficus
sea snail gastropods

I. Introduction



Ficus variegata Blume
Fig

photo by WingKLee



Ficus variegata Roding, 1798
True Fig Shell

Photo by H. Zell



I. Introduction



Ficus ficus
Sea snail



Gorilla gorilla
Gorilla



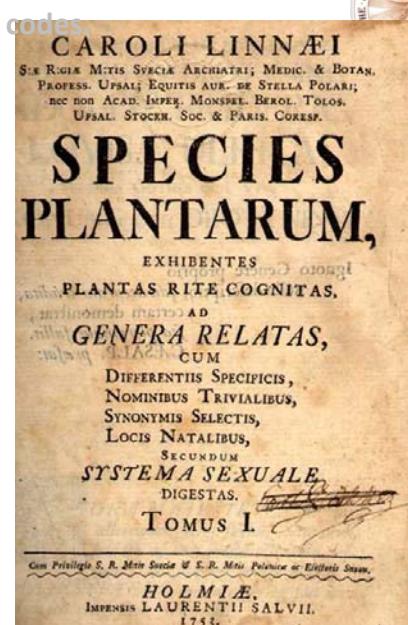
I. Introduction

- a. Independence from other codes.
- b. The Type Method



I. Introduction

- a. Independence from other codes
- b. The Type Method
- c. Priority



I. Introduction

- a. Independence from other codes.
- b. The Type Method
- c. Priority



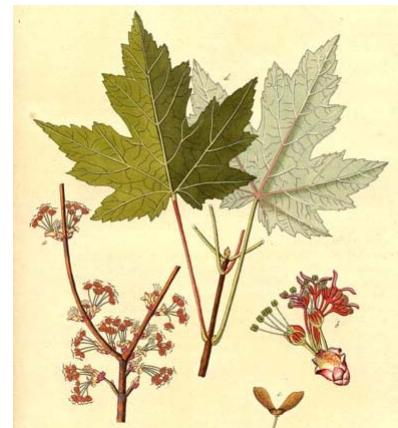
I. Introduction

- a. Independence from other codes.
- b. The Type Method
- c. Priority



I. Introduction

- a. Independence from other codes.
- b. The Type Method
- c. Priority



I. Introduction

- a. Independence from other codes.
- b. The Type Method
- c. Priority
- d. One correct name



I. Introduction

- a. Independence from other codes.
- b. The Type Method
- c. Priority
- d. One correct name
- e. **Names treated as Latin**



I. Introduction

- a. Independence from other codes.
- b. The Type Method
- c. Priority
- d. One correct name
- e. Names treated as Latin
- f. **Retroactive**



I. Introduction

B. Ranks

1. Principal Ranks & Standard Suffixes



I. Introduction

B. Ranks

1. Principal Ranks & Standard Suffixes

2. Suffix Exceptions

Apiaceae



I. Introduction



B. Ranks

1. Principal Ranks & Standard Suffixes

2. Suffix Exceptions

Arecaceae



I. Introduction



B. Ranks

1. Principal Ranks & Standard Suffixes

2. Suffix Exceptions

Asteraceae



I. Introduction

B. Ranks

1. Principal Ranks & Standard Suffixes

2. Suffix Exceptions

Brassicaceae



I. Introduction

B. Ranks



1. Principal Ranks & Standard Suffixes

2. Suffix Exceptions

Clusiaceae



I. Introduction

B. Ranks

1. Principal Ranks & Standard Suffixes

2. Suffix Exceptions

Fabaceae



I. Introduction

B. Ranks

1. Principal Ranks & Standard Suffixes

2. Suffix Exceptions

Lamiaceae



I. Introduction

B. Ranks

1. Principal Ranks & Standard Suffixes

2. Suffix Exceptions

Poaceae



I. Introduction

B. Ranks

3. Some Others

Family

Subfamily

Tribe

Subtribe

Genus

Subgenus or Section

Species

subspecies

variatas (variety)

forma (form)



I. Introduction

B. Ranks

4. Writing

Family: Poaceae

Genus: Zea

Species: *Zea mays*

Subspecies: *Zea mays ssp. mays*



I. Introduction

B. Ranks

4. Writing



Subspecies: *Zea mays ssp. mays* *Gorilla gorilla diehli*

II. Generic Names

A. Characteristics



II. Generic Names

- A. Characteristics
- B. Gender



II. Generic Names

- A. Characteristics
- B. Gender
- C. Honorary genera



III. Species Names

- A. Characteristics



III. Species Names

A. Characteristics

B. Gender



III. Species Names

A. Characteristics

B. Gender

C. Descriptive epithets



III. Species Names

- A. Characteristics**
- B. Gender**
- C. Descriptive epithets**
- D. Honorary epithets**



IV. Authorship

- A. Generalities**



IV. Authorship

A. Generalities

B. > 2 Authors



IV. Authorship

A. Generalities

B. > 2 Authors

C. Parenthetical & Combining Authors



IV. Authorship

- A. Generalities
- B. > 2 Authors
- C. Parenthetical & Combining Authors
- D. Use of "ex"



V. Subspecific Taxa & Hybrids

- A. Hybrids



V. Subspecific Taxa & Hybrids

- A. Hybrids**
- B. Subspecies & Varieties**



V. Subspecific Taxa & Hybrids

- A. Hybrids**
- B. Subspecies & Varieties**
- C. Forms**



V. Subspecific Taxa & Hybrids

- A. Hybrids
- B. Subspecies & Varieties
- C. Forms
- D. Cultivars



VI. Nomenclatural Types

- A. Species & Infraspecific Taxa



VI. Nomenclatural Types



A. Species & Infraspecific Taxa

1. Type specimen(s)

a. Specimen to which name is permanently attached.

Cynanchum bifidum Liede & Meve, sp. nov.
TYPE: Ecuador. Azuay: 1–2 km N of Nieves,
Ceja forest, 3000–3100 m, 16 Nov. 1988, Har-
ling 25919 (holotype, GB). Figure 1.

C. intricato similis, sed differt in lobis coronae stam-
inalis profunde bifidis.

Plants ascending, twining, 3–4 m high, richly
branched, at least basally following a dichiasially

VI. Nomenclatural Types



A. Species & Infraspecific Taxa

1. Type specimen(s)

a. Specimen to which name is permanently attached.

b. Promotes nomenclatural & conceptual stability

Cynanchum bifidum Liede & Meve, sp. nov.
TYPE: Ecuador. Azuay: 1–2 km N of Nieves,
Ceja forest, 3000–3100 m, 16 Nov. 1988, Har-
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C. intricato similis, sed differt in lobis coronae stam-
inalis profunde bifidis.

Plants ascending, twining, 3–4 m high, richly
branched, at least basally following a dichiasially

VI. Nomenclatural Types



**Example 1: Confusion in the correct attribution of the names
Q. coccinea and *Q. rubra*.**

Species 1

Species 2

VI. Nomenclatural Types



**Example 1: Confusion in the correct attribution of the names
Q. coccinea and *Q. rubra*.**

Plants of WV says:

Q. coccinea

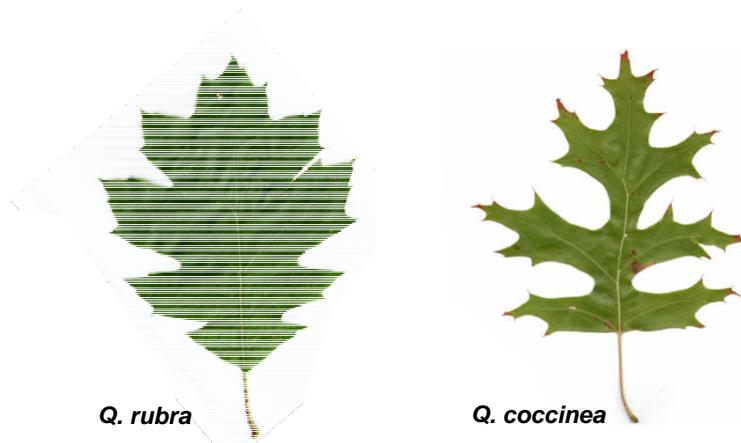
Q. rubra

VI. Nomenclatural Types



Example 1: Confusion in the correct attribution of the names *Q. coccinea* and *Q. rubra*.

Plants of PA, 2nd edition says:

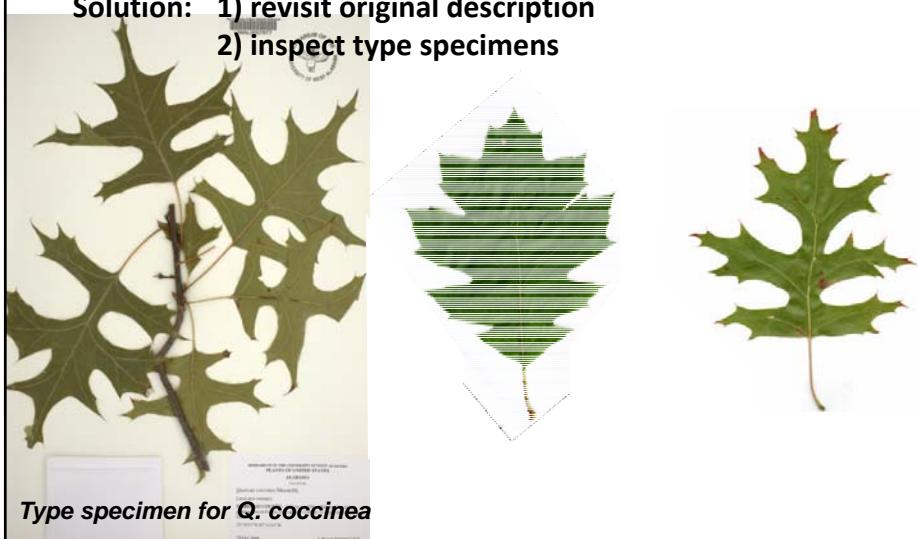


VI. Nomenclatural Types



Example 1: Confusion in the correct attribution of the names *Q. coccinea* and *Q. rubra*.

Solution: 1) revisit original description
2) inspect type specimens

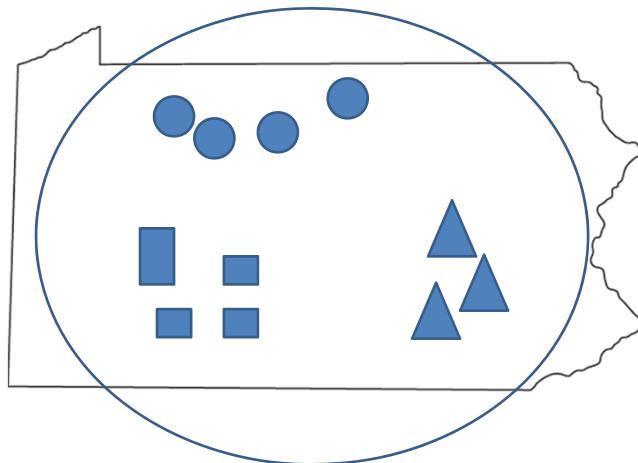


VI. Nomenclatural Types



Example 2: Splitting

H. grandiflorus L. actually consists of 3 species

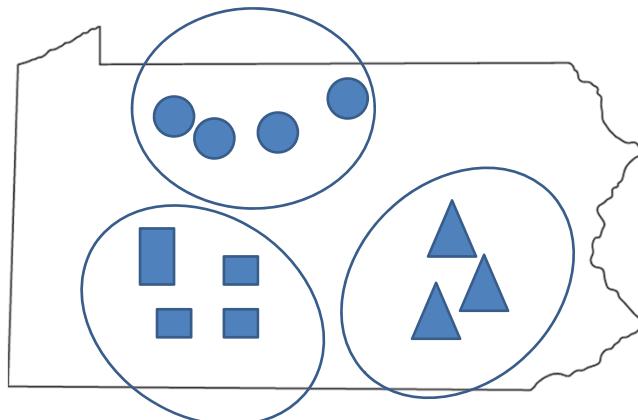


VI. Nomenclatural Types



Example 2: Splitting

One retains "*H. grandiflorus* L.", but which one?

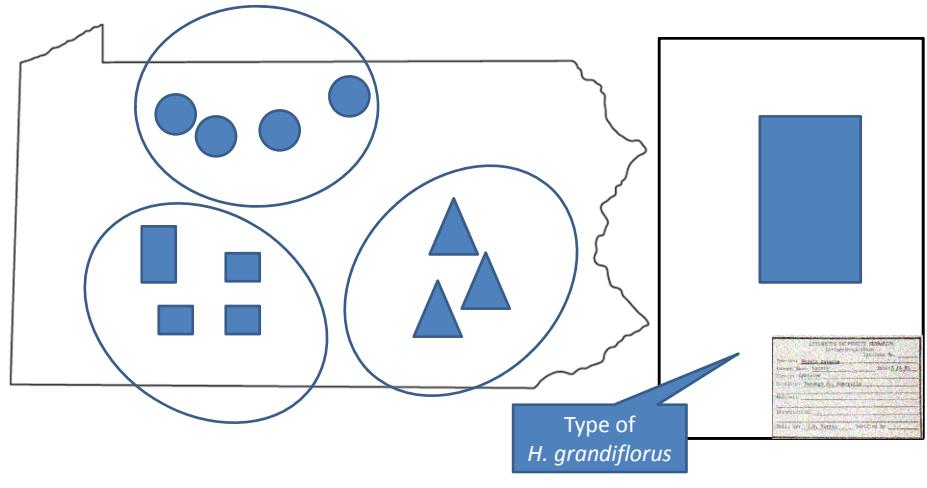


VI. Nomenclatural Types



Example 2: Splitting

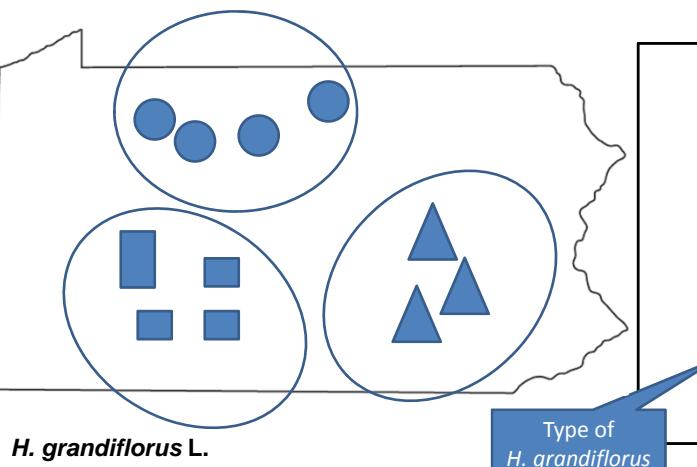
One retains "*H. grandiflorus* L.", but which one?



VI. Nomenclatural Types

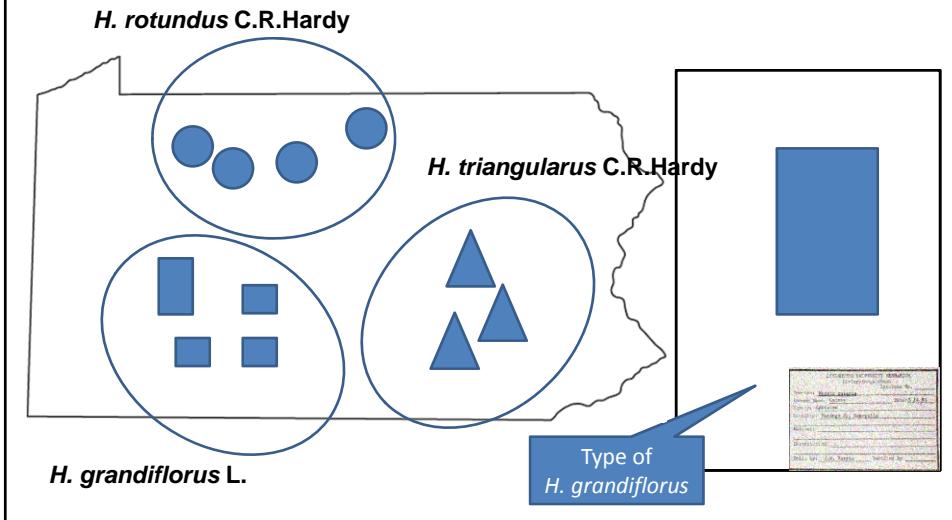


Example 2: Splitting



VI. Nomenclatural Types

Example 2: Splitting



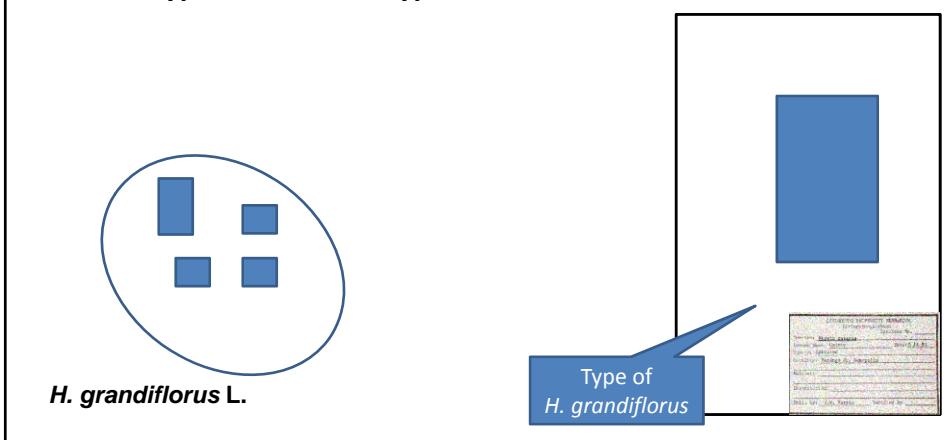
VI. Nomenclatural Types



A. Species & Infraspecific Taxa

1. Type specimen(s)

- a. Specimen to which name is permanently attached.
- b. Promotes nomenclatural & conceptual stability
- c. Type need not be typical.



VI. Nomenclatural Types

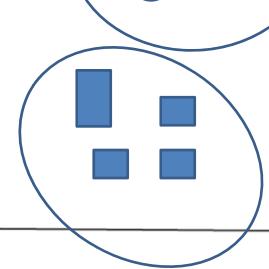
Priority, rather than types dictate lumping decisions



H. rotundus C.R.Hardy



H. triangularis C.R.Hardy



H. grandiflorus L.



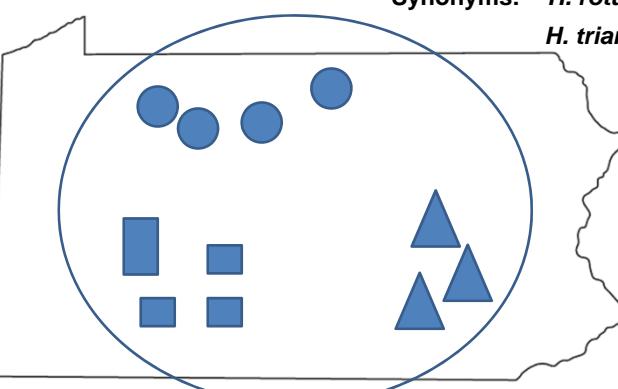
VI. Nomenclatural Types

Priority, rather than types dictate lumping decisions



Accepted Name: *H. grandiflorus* L.

Synonyms: *H. rotundus* C.R.Hardy
H. triangularis C.R.Hardy



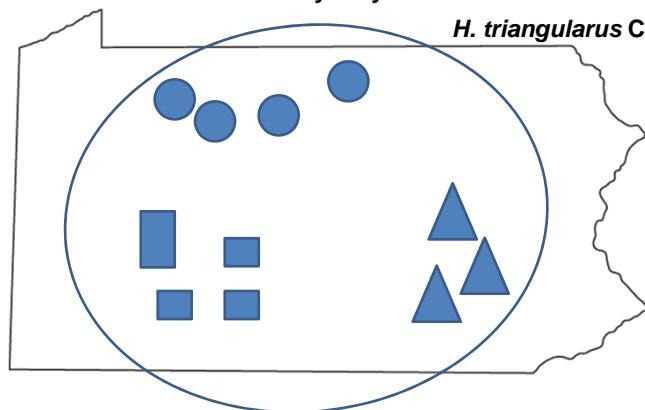
VI. Nomenclatural Types



Example 3: Lumping

Accepted Name: *H. grandiflorus* L.

Synonyms: *H. rotundus* C.R.Hardy
H. triangularis C.R.Hardy



VI. Nomenclatural Types



A. Species & Infraspecific Taxa

1. Type specimen(s)
2. Types of types

VI. Nomenclatural Types

A. Species & Infraspecific Taxa

1. Type specimen(s)
2. Types of types
 - a. Holotype



Cynanchum bifidum Liede & Meve, sp. nov.
TYPE: Ecuador. Azuay: 1–2 km N of Nieves, Ceja forest, 3000–3100 m, 16 Nov. 1988, *Harling* 25919 (holotype, GB). Figure 1.

C. intricato similis, sed differt in lobis coronae staminalis profunde bifidis.

Plants ascending, twining, 3–4 m high, richly branched, at least basally following a dichasially

VI. Nomenclatural Types

A. Species & Infraspecific Taxa

1. Type specimen(s)
2. Types of types
 - a. Holotype
 - b. Isotype



1. *Plowmanianthus panamensis* Faden & C. R. Hardy, sp. nov. (Fig. 5).—TYPE: PANAMA. Colón: headwaters of Río Boqueron near fork with Río Nombre de Diosito. On wet slopes in forest along stream, ca. 150–175 m, 4 May 2000, *Hardy* 242 (holotype: PMA; isotypes: BH, NY, US).

VI. Nomenclatural Types



A. Species & Infraspecific Taxa

1. Type specimen(s)

2. Types of types

a. Holotype

b. Isotype

c. Lectotype

Needed when....

1) Holotype destroyed/lost

2) No type designated (e.g. prior to Cambridge Code, 1930)

VI. Nomenclatural Types



A. Species & Infraspecific Taxa

1. Type specimen(s)

2. Types of types

a. Holotype

b. Isotype

c. Lectotype

Needed when....

1) Holotype destroyed/lost

2) No type designated (e.g. prior to Cambridge Code, 1930)

Select from (ranked list):

1) Among the isotypes

2) Other specimens examined by author.

VI. Nomenclatural Types



A. Species & Infraspecific Taxa

1. Type specimen(s)

2. Types of types

a. Holotype

b. Isotype

c. Lectotype

d. Neotype

Needed when....

- 1) No holo, iso, or lectotypes available.

VI. Nomenclatural Types



A. Species & Infraspecific Taxa

1. Type specimen(s)

2. Types of types

a. Holotype

b. Isotype

c. Lectotype

d. Neotype

Needed when....

- 1) No holo, iso, or lectotypes available.

Should be...

- 1) chosen by current authority in pub
- 2) match original description
- 3) of similar provenance

VI. Nomenclatural Types

A. Species & Infraspecific Taxa

B. Genus



VI. Nomenclatural Types

A. Species & Infraspecific Taxa

B. Genus

- 1) Type sp. (technically the type specimen of the type sp.)
 - a. One so named by author or the first species named.

dy et al., in prep.). Accordingly, this clade is described here as a new genus with five new species from tropical America (Fig. 1).

TAXONOMIC TREATMENT

Plowmanianthus Faden & C. R. Hardy, gen. nov.—
TYPE: *Plowmanianthus perforans* Faden & C. R. Hardy sp. nov.



VI. Nomenclatural Types

A. Species & Infraspecific Taxa

B. Genus

1) Type sp. (technically the type specimen of the type sp.)

- a. One so named by author or the first species named.
- b. Sp. to which genus name is permanently attached

dy et al., in prep.). Accordingly, this clade is described here as a new genus with five new species from tropical America (Fig. 1).

TAXONOMIC TREATMENT

Plowmanianthus Faden & C. R. Hardy, gen. nov.—
TYPE: *Plowmanianthus perforans* Faden & C. R. Hardy sp. nov.



VI. Nomenclatural Types

A. Species & Infraspecific Taxa

B. Genus

1) Type sp. (technically the type specimen of the type sp.)

- a. One so named by author or the first species named.
- b. Sp. to which genus name is permanently attached

What if Ted Nugent decides to split *Plowmanianthus* into 2 genera?

Plowmanianthus Faden et C.R.Hardy

Plowmanianthus dressleri Faden et C.R.Hardy

Plowmanianthus panamensis Faden et C.R.Hardy

Plowmanianthus grandifolius Faden et C.R.Hardy

Plowmanianthus perforans Faden et C.R.Hardy

Plowmanianthus peruvianus C.R.Hardy et Faden



VI. Nomenclatural Types

A. Species & Infraspecific Taxa

B. Genus

1) Type sp. (technically the type specimen of the type sp.)

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What if Ted Nugent decides to split *Plowmanianthus* into 2 genera?

Plowmanianthus Faden et C.R.Hardy

Plowmanianthus grandifolius Faden et C.R.Hardy

Plowmanianthus perforans Faden et C.R.Hardy

Plowmanianthus peruvianus C.R.Hardy et Faden

Newgenus T.Nugent

Newgenus dressleri (Faden et C.R.Hardy) T.Nugent

Newgenus panamensis (Faden et C.R.Hardy) T.Nugent



VI. Nomenclatural Types

A. Species & Infraspecific Taxa

B. Genus

C. Family

Classification 1:

Magnoliaceae Juss.

Liriodendron L.

Magnolia L.

Michelia L.

Classification 2:

Magnoliaceae Juss.

Magnolia L.

Michelia L.

Liriodendraceae T.Nugent

Liriodendron L.

Classification 3:

Magnoliaceae Juss.

Liriodendron L.

Magnolia L.

Micheliaceae T.Nugent

Michelia L.

Classification 4:

Magnoliaceae Juss.

Michelia L.

Liriodendraceae T.Nugent

Liriodendron L.

Magnolia L.



VI. Nomenclatural Types

- A. Species & Infraspecific Taxa
- B. Genus
- C. Family



Recall that family names are based on type genus and –aceae
Arecaceae (*Areca*)
Lamiaceae (*Lamium*)

VI. Nomenclatural Types

- A. Species & Infraspecific Taxa
- B. Genus
- C. Family



Recall that family names are based on type genus and –aceae
Arecaceae (*Areca*)
Lamiaceae (*Lamium*)

But IBC voted to conserve old names while still accepting new names

Palmae
Labiatae

VII. Legitimate Names & Valid Pub

A. Proper construction and original

e.g.

- Magnoliaceae Juss.
- *Liriodendron* L.
- *Liriodendron tulipifera* L.
- *Liriodendron tulipifera* ssp. *tulipifera* T.Nugent



VII. Legitimate Names & Valid Pub

B. Clear indication of rank & status



PhytoKeys 46: 1-19 (04 Feb 2015)
doi: 10.3897/phytokeys.46.8937



Sirdavidia, an extraordinary new genus of Annonaceae from Gabon

▼ Thomas L.P. Couvreur, Raoul Niangadouma, Bonaventure Sonké, Hervé Sauquet

Abstract

A distinctive new monotypic genus *Sirdavidia*, in honor to Sir David Atte which is very distinct from a morpho-

genus novum

Taxonomic description

Sirdavidia Couvreur & Sauquet, gen. nov.

[urn:lsid:ipni.org:names:77145065-1](http://lsid.ipni.org/names:77145065-1)

Diagnosis

Genus with *Solanum*-like flowers, inflorescences axillary or cauliflorous, sepals valvate, petals valvate, subequal, recurved at anthesis, red; stamens bright yellow; carpel single; monocarp sessile, placentation lateral, ovules uniseriate.

Type species

Sirdavidia solanoides Couvreur & Sauquet.

VII. Legitimate Names & Valid Pub

B. Clear indication of rank & status



Cynanchum bifidum Liede & Meve, sp. nov.
TYPE: Ecuador. Azuay: 1–2 km N of Nieves, Ceja forest, 3000–3100 m, 16 Nov. 1988, *Harding* 25919 (holotype, GB). Figure 1.
C. intricato similis, sed differt in lacinia corona staminalis profunde bifidis.
Plants ascending, twining, 1–4 m high, richly branched, at least basally showing a dichasially

species nova

Plowmanianthus grandifolius subsp. **robustus** C. R. Hardy & Faden, subsp. nov. TYPE: ECUADOR. Napo: Parque Nacional Yasuni, Estación Científica Yasuni, 150–200 m, 28 Dec 1998, *Hardy* 200 (holotype: QCA; isotypes: B, NY, US).

A subspecies typica inflorescentis variegata perforantibus, pedunculus cincinnorum longioribus, pedicellis longioribus, pagina adaxiali laminae semipatens, abrescenti differt.
Plants to 40 cm tall. Leaves 20–36.65 × 4.6–

subspecies nova

Smithatris supraneanae W. J. Kress & K. Larsen, gen. et sp. nov. (Figs. 1–3).—TYPE: THAILAND. Saraburi: 16°45'N, 100°50'E. Limestone mountain at ca. 200 m elevation. 5 September 1998, *K. Larsen* 47207 (holotype: BKF; isotypes: AAU!, PSU!, US!).

Herba Curcumae et Hitcheniae similis, Hitcheniae simillior foliis petiolatis, inflorescentia pedunculata bracteis congestis saccatis, tubo corollae longo, sed differt labello profunde fiso, structura cullata staminodii lateralibus formata et lobo dorsali corollae antheram partialiter includenti.
Medium-size rhizomatous herb with roots bearing spherical tubers. Stem up to 120 cm in height.

genus et species nova

VII. Legitimate Names & Valid Pub

B. Clear indication of rank & status



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Published online 2015 Jul 2. doi: [10.1111/jpy.12309](https://doi.org/10.1111/jpy.12309)

PMCID: PMC4551411
NIHMSID: NIHMS694199

***Caldora penicillata* gen. nov., comb. nov. (Cyanobacteria), a pantropical marine species with biomedical relevance**

[Niclas Engene²](#)

Niclas Engene, Department of Biological Sciences, Florida International University, Miami, FL 33199, USA;

[Ana Tronholm](#)

genus novum

combinatio nova

VII. Legitimate Names & Valid Pub

D. Description or Diagnosis*



Cynanchum bifidum Liede & Meve, sp. nov.
TYPE: Ecuador. Azuay: 1–2 km N of Nieves, Ceja forest, 3000–3100 m, 16 Nov. 1988, *Hardy 25919* (holotype, GB). Figure 1.

C. intricato similis, sed differt in lobis coronae staminalis profunde bifidis.

Plants ascending, twining, 3–4 m high, richly branched, at least basally following a dichasially

Plowmanianthus grandifolius subsp. *robustus* C. R. Hardy & Faden, subsp. nov.—TYPE: ECUADOR. Napo: Parque Nacional Yasuni, Estación Científica Yasuni, 150–200 m, 22 Dec 1998, *Hardy 200* (holotype: QCA; isotypes: BH, NY, US).

A subspecies typica inflorescentis vaginas perforantibus, pedunculis cincinnorum longioribus, pedicellis longioribus, pagina adaxiali laminae semper glabrescenti differt.

Plants to 40 cm tall. Leaves 20–36.65 × 4.6–8.2 cm;

Smithatris supraneanae W. J. Kress & K. Larsen, gen. et sp. nov. (Figs. 1–3).—TYPE: THAILAND. Saraburi: 16°45'N, 100°50'E. Limestone mountain at ca. 200 m elevation. 5 September 1998, *K. Larsen 47207* (holotype: BKF; isotypes: AAU!, PSU!, US!).

Herba Curcumae et Hitcheniae similis, Hitcheniae simili foliis petiolatis, inflorescentia pedunculata bracteis congestis saccatis, tubo corollae longo, sed differt labello profunde fisso, structura cullata staminodii lateralibus formata et lobo dorsali corollae antheram partialiter includenti.

Medium-size rhizomatous herb with roots bearing spherical tubers. Stem up to 120 cm in height.

VII. Legitimate Names & Valid Pub

E. Effective Publication*

