

Topic 03

The Code

Lecture Reading:

1. Jones SB, AE Lichinger. 1986. Plant nomenclature (Chapter 3) pp 54–54 in Plant Systematics, 2nd ed. Jones SB, and AE Lichinger. McGraw-Hill, Inc. New York. ISBN: 0-07-032796-3.

2. Liede S, U Meve. 1997. Some clarifications, new species, and new combinations in American Cynanchinae (Apocynaceae). Novon 7: 38–45.

3. The International Code of Nomenclature for algae, fungi, and plants (Melbourne Code) (<http://www.ipntx.org/nomen/main.htm>). Preamble and Division I (Principles).

4. Miller, JS, VA Fulk, WL Wagner, F Barrie, PC Hoch, P Herenderen. 2011. Outcomes of the 2011 Botanical Nomenclature Section at the XVIII International Botanical Congress. *PhytoKeys* 5: 1–3.

Lab Reading for Lab 02:

- Lab Reading for Lab 02:**

 1. Plate 1 (Rhoads & Block 2007, pp. 978-979).
 2. In Rhoads & Block (2007), the descriptions of the various taxa covered in lab these weeks.



I. Introduction

A. The International Code of Botanical Nomenclature

1. What
 2. Main Goal
 3. Revolutionary Process
 4. Main principles



I. Introduction



lated to *C. intricatum* K. Schumann from the Pichincha area in Ecuador, but is clearly different by the deeply bifid corona lobes and the stronger dichasial branching pattern.

Herba scandens, foliis cordatis, inflorescentibus racemiformibus, corolla pubescens, sed corona corollae inserta.

Plants ascending, twining. Shoots perennial,

Cynanchum trollii Liede & Meve, sp. nov. TYPE: Bolivia. Cañanema: Río de la Pax, 1260 m, dry forest, 18 Mar. 1928, *Troll* 1675 (holotype, M). Figure 2.

herbaceous, densely covered with erect trichomes, ca. 0.25 mm long, arranged along a single line. Internodes 12–17 cm long. "Stipules" 5–10 mm long, ca. 6 mm wide, ovate. Leaves on a 10–40-mm-long petiole, 3 collectors at the base of

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I. Introduction

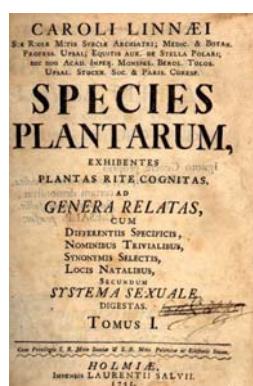
Plowmanianthus Faden & C. R. Hardy, gen. nov.—
TYPE: *Plowmanianthus perforans* Faden & C. R. Hardy sp. nov.

Herbari perennes parvae rosulares non profunde radicantes. Surculi monopodiales raro ramosi. Radices fibrosae trichomatibus aurantio-brunneis vestitae. Folia petiolata pagina adaxialis nitida costa saepe albo-striata (vel violaceo-striata). Inflorescentiae axillares inter folia inferiora portatae, plerumque circinno singulari compositae. Flores monosymmetrii petalis fimbriatis, androecio staminum 3 ante sepalum exterius et petala interiora affixa filamentis barbatis et staminodiorum 3 ante petalam exterius et sepala interiora affixa, plerumque inconspicui, antheris caretibus composito, stigmate annulari papillato. Semina uniseriata vel in parte biseriata in loculis capsulae omnibus.

Decumbent, perennial rosette herbs to 40 cm tall.
Roots thin, fibrous, lacking tubers, the younger with



I. Introduction



I. Introduction

B. The International Code of Nomenclature for algae, Fungi, and plants (ICN)

Melbourne Congress in 2011.



I. Introduction

C. Ranks

Domain
Kingdom

Phylum (Division): -opyta

Class: -opsida

Order: -ales

Family: -aceae

Genus

Species
ssp.\var.\f.



VI. Legitimate Names & Valid Pub.

A. Proper construction and original



VI. Legitimate Names & Valid Pub.

B. Clear indication of rank

Cynanchum blidam Liebm. & 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. intricata Simola sed differ in lobis coronae staminis profunde lobatis.

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

Liede & Meve. 1997. *Novon*

2. *Ploenmanianthus grandifolius* Faden & C. R. Hardy, sp. nov. (Fig. 6).—TYPE: PERU: Loreto Prov. Maynas, Estación Experimental IAP: Alpahuan, 21 km S de Iquitos, ca. 3°5'20"S, 73°25'22"W, ca. 100-140 m, 15 Aug. 1997, *Hardy 180* (holotype: USNM); isotypes: QCAZ, BM, US.

Herba perennans ad 10 cm diam. Folia ad 36-65 cm longam et 8-2 cm latam, excurrentes ubi iuvantes, lamina elliptica ad late oblongo-elliptica, interdum leuite undulata, glabrescens ad pilosum, apice acuta. Inflorescentia vaginata perforante vel non vaginata perforantes, 3-15-10 cm longa, cincinno 4-6-20 floris. Flores petalii sub ad caeruleo-virides vel violaceos, staminis 4-6, lobis coronae staminis 2-3, lobis petaliorum 5-6, stigmata ciliata. Semina pagina ventrali non fissa, hilo lemente curvato, non C-forma.

Decumbens, perennial rosette herb to 40 cm tall.

Faden & Hardy. 2004. *Systematic Botany*



Thouarsianthus grandifolius subsp. *subtus* C. R. Hardy & Faden, subsp. nov.—TYPE: ECUADOR: Napo Parque Nacional Yasuni, Estación Científica Yasuni, 150-200 m, 22 Dec 1998, *Hardy 200* (holotype: QCAZ; isotypes: BFI, NY, US).

A subspecies typica inflorescentia vaginata perforante, pedunculo circinante, lobis longioribus, pedicellis longioribus, pagina adaxiali lamina semper glabra, centi differ.

Plants to 40 cm tall. Leaves 20-36.65 x 4.6-8.2 cm;

Hardy & Faden. 2004. *Systematic Botany*

Smitinandia supraneana 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 Hitchmaniae similis. Hiltchen-similior foliis petiolatis, inflorescentia circinante, cladodio foliis petiolatis, lobis corollae longioribus, 3.15-10 cm longa, cincinno 4-6-20 floris. Flores petalii sub ad caeruleo-virides vel violaceos, staminis 4-6, lobis coronae staminis formata et lobo dor-sali corollae antheram partialiter incidentia.

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

Kress & Larsen. 2001. *Systematic Botany*
