

NEW COMBINATIONS IN THE GENUS *PSEUDODICTAMNUS* FABR. (*LAMIACEAE*)

P. Pablo FERRER GALLEGO

Servicio de Vida Silvestre y Red Natura 2000, Centro para la Investigación y la Experimentación Forestal de la Generalitat Valenciana (CIEF). Av. Comarques del País Valencià, 114. 46930-Quart de Poblet (Valencia), Spain.
pferrergallego@gmail.com

ABSTRACT: New nomenclatural combinations are proposed in the genus *Pseudodictamnus* Fabr. (*Lamiaceae*, *Lamioideae*): *P. hirsutus* subsp. *gracilis*, *P. hirsutus* subsp. *inermis*, *P. hirsutus* subsp. *intermedius*, *P. hirsutus* subsp. *maroccanus*, *P. hirsutus* subsp. *saharicus*, and *P. vellereus*. Lectotypes are designated for *P. hirsutus* subsp. *gracilis*, *P. hirsutus* subsp. *inermis*, *P. hirsutus* subsp. *intermedius*, and *P. vellereus*, based on specimens preserved in the herbaria P, RAB, and MUB. **Keywords:** *Ballota hirsuta*; basionym; *Labiatae*; lectotype; *Marrubieae*; nomenclature.

RESUMEN: Nuevas combinaciones en *Pseudodictamnus* Fabr. (*Lamiaceae*: *Lamioideae*). Se proponen nuevas combinaciones nomenclaturales en el género *Pseudodictamnus* Fabr. (*Lamiaceae*, *Lamioideae*): *P. hirsutus* subsp. *gracilis*, *P. hirsutus* subsp. *inermis*, *P. hirsutus* subsp. *intermedius*, *P. hirsutus* subsp. *maroccanus*, *P. hirsutus* subsp. *saharicus* y *P. vellereus*. Se designan lectotipos para *P. hirsutus* subsp. *gracilis*, *P. hirsutus* subsp. *inermis*, *P. hirsutus* subsp. *intermedius* y *P. vellereus*, basados en especímenes conservados en los herbarios P, RAB y MUB. **Palabras clave:** *Ballota hirsuta*; basónimo; *Labiatae*; lectotipo; *Marrubieae*; nomenclatura.

INTRODUCTION

Based on a phylogenetic analysis of nuclear and plastid DNA sequences, SIADATI & al. (2018) demonstrated that the traditional circumscription of *Ballota* L. (*Lamiaceae*, *Lamioideae*, *Marrubieae*) comprises two well-supported clades, corresponding to the genera *Ballota* s.str. (characterized by a calyx limb regularly dentate and 5-toothed) and *Pseudodictamnus* Fabr. (with the calyx limb undulate, crenate, or irregularly dentate, bearing 10 to many teeth).

Pseudodictamnus hispanicus (L.) Salmaki & Siadati, based on *Marrubium hispanicum* L. (= *Ballota hispanica* (L.) Benth.), is the type species of the resurrected genus *Pseudodictamnus* (see SIADATI & al., 2018). MOENCH (1794: 399–400) first assigned species to this genus, although his *P. acutus* is a superfluous name because he considered Linnaeus's *M. hispanicum* as a synonym, disregarding the available epithet *hispanicum*.

Pseudodictamnus hirsutus (Willd.) Salmaki & Siadati, based on *Marrubium hirsutum* Willd., traditionally treated in the floristic literature as *Ballota hirsuta* (Willd.) Benth. (*Labiata*. Gen. Spec.: 595. 1834 [see also page 592 “Species e genere excludendae” *M. hirsutum* Willd. = *Ballota hirsuta*], see BENTHAM (1834)) (see e.g., IPNI, 2025 at www.ipni.org), or erroneously as “*Ballota hirsuta* Benth.” (see e.g., POWO, 2025; and many references in floristic and taxonomic works), is a perennial species. It is characterized by hirsute stems bearing glandular and eglandular simple and stellate hairs, papillae, and glands; lower and middle cauline leaves cordate or truncate at the base, ovate or suborbicular, and crenate; campanulate calyx, irregularly dentate, with 10 or more lobes, up to 2 mm, triangular-acuminate, sometimes dentate, and mucronulate; the corolla is purple or white. The species occurs in south-western Europe (Portugal and Spain, incl. in the Balearic Islands) and North Africa (Morocco,

Algeria, Tunisia, Libya, and Chad), and has been introduced in Corsica (POWO, 2025).

This species is morphologically variable, especially in North Africa, where several taxa have been recognized at different taxonomic ranks. This variation has frequently been treated at subspecific rank (see PATZAK, 1959; GREUTER, 1984; REJDALI, 2002; OUYAHYA, 2007; DOBIGNARD & CHATELAIN, 2012; FENNANE & al., 2021).

In this context, the updated systematic and nomenclatural circumscription (SIADATI & al., 2018) calls for further nomenclatural adjustments.

NOMENCLATURAL TREATMENT

Pseudodictamnus hirsutus (Willd.) Salmaki & Siadati in Siadati & al. in Taxon 67: 779. 2018 [nom. cons. prop.] = *Marrubium hirsutum* Willd., Sp. Pl. 3: 113. 1800 [basionym] = *Ballota hirsuta* (Willd.) Benth., *Labiata*. Gen. Spec.: 595. 1834 = *Zapateria hirsuta* (Benth.) Pau, Not. Bot. Fl. Españ. 1: 17. 1887

TYPUS: Spain, s.d., *Willdenow s.n.*, B–W 10924 [two sheets: -01 0! and -02 0! (iso-)], **typ. cons. prop.** (FERRER & SÁEZ, 2026) (see Fig. 1).

Note: SALMAKI & SIADATI (in SIADATI & al., 2018) proposed the combination on *Marrubium hirsutum* Willd., and cited: “Holotype: loc. non indic. (B barcode B -W10923 -01 0!)”. However, Willdenow did not designate a type, and it cannot be established that he used only this one element when preparing the protologue. The specimen B-W 10923 is mounted on five herbarium sheets (identified as B-W 10923 -01 0, 10923 -02 0, 10923 -03 0, 10923 -04 0, and 10923 -05 0). Salmaki & Siadati (l.c.) mentioned only a part of the specimen (B–W 10923 -01 0) as the “holotype”. However, this type indication is ineffective because the term holotype cannot be corrected to lectotype because the requirement of Art. 7.11 (Madrid ICN; TURLAND & al., 2025) to include, on or after 1 January 2001, the phrase “designated here” or a similar expression was not met. On the other hand, FERRER & SÁEZ (2026) proposed the specimen bearing barcode B barcode B -W10924 -01 0 as the conserved type.

Pseudodictamnus hirsutus subsp. **gracilis** (Maire) P.P.Ferrer, **comb. nov.**

≡ *Ballota hirsuta* var. *gracilis* Maire in Bull. Soc. Hist. Nat. Afrique N. 31: 36. 1940 [basonym] ≡ *B. hirsuta* subsp. *gracilis* (Maire) Ouyahya in Trav. Inst. Sci., sér. Bot. 37: 255. 2005.

LECTOTYPE (designated here): Morocco, In rupestr. calcareis faucium amnis Todgha Atlantis Majoris 1400 m, 23-VI-1939, *R. Maire* 479, P00083200. **Isolectotype:** MPU004290. Other original material (syntypes): MPU004288 (gathering Maire 1932), and MPU004289, RAB077686 (gathering: Maire et Weiller, n° 361).

Note: The protologue includes a brief description “Rami graciles laxius villosi; folia parva; verticillastri vix usque ad 20 mm diam. Corollae albae labium intus atropurpureo maculatum” [“Branches slender, more loosely hairy; leaves small; whorls scarcely up to 20 mm in diameter. Corollas whitish, the lower lip inside spotted dark purple”], followed by the provenances “Anti-Atlas : pâturages pierreux du Siroua au dessus de Tachokht (Maire 1932). Grand Atlas : georges du Dades et du Todgha (Maire et Weiller, n°s 361, 479).

Pseudodictamnus hirsutus subsp. **inermis** (Emb. & Maire) P.P. Ferrer, **comb. nov.**

≡ *Ballota hispanica* var. *inermis* Emb. & Maire, Mém. Soc. Sci. Nat. Maroc 17: 45. 1927 [basonym] ≡ *B. hirsuta* var. *inermis* (Emb. & Maire) Maire, Cat. Pl. Maroc 3: 636. 1934 ≡ *B. hirsuta* subsp. *inermis* (Emb. & Maire) Dobignard, J. Bot. Soc. France 46-47: 56. 2009.

LECTOTYPE (designated here): Morocco, Rif: In rupibus calcareis montis Azrou, 1700-1900 m, 26-VI-1926, *M.L. Emberger*, RAB044472. **Isolectotypi:** P00083198, MPU000203.

Note: In the protologue is mentioned “var. *inermis* Emb. et Maire, n. var. – A var. *hispida* differ bracteis nec non calycis dentibus vix nevis mucronatis. Corolla intus purpurea nec. albida a var. *intermedia* et var. *bullata* recedit. / Hab. in rupibus calcareis montis Azrou, 1700-1900 m.” [trans.: var. *inermis* Emb. et Maire, nov. var. – From var. *hispida* it differs in the bracts as well as in the calyx teeth, which are scarcely or not at all mucronate. The corolla is purple on the inside, not whitish, and it departs from var. *intermedia* and var. *bullata*. / Habitat: on the limestone cliffs of Mount Azrou, 1700–1900 m.”].

Pseudodictamnus hirsutus subsp. **intermedius** (Murb.) P.P. Ferrer, **comb. nov.**

≡ *Ballota hirsuta* [β] var. *intermedia* Batt. in J.A. Battandier & al., Fl. Algérie, Dicot.: 702. 1890 [basonym] ≡ *B. acuta* var. *intermedia* (Batt.) Murb. in Acta Univ. Lund. 34(7): 39. 1898 ≡ *B. hirsuta* subsp. *intermedia* (Batt.) Patzak in Ann. Naturhist. Mus. Wien 63: 60. 1959.

LECTOTYPE (designated here): Algeria, El Kantara, rochers calcaires, IV-1892, *J.A. Battandier s.n.*, P00083199. **Isolectotype:** MPU007809.

Note: The protologue is very brief: “Même type mais velu. El Kantara”.

Pseudodictamnus hirsutus subsp. **maroccanus** (Murb.) P.P. Ferrer, **comb. nov.**

≡ *Ballota acuta* [β] var. *maroccana* Murb., Acta Univ. Lund. 34(7): 38. 1898 [basonym] ≡ *B. hirsuta* subsp. *maroccana* (Murb.) Patzak in Ann. Naturhist. Mus. Wien 63: 59. 1959.

Original material: Not found.

Note: The protologue of the name (see <https://archive.org/details/contributionsl00murbich/page/n191/mod/e/2up>) includes a description: “Albescens, breviter floccoso-tomentosa; folia caulina cordata, breviuscule petiolata; bracteolae quam in praecedente breviores, acutae, mucronulatae, exteriores oblanceolatae, interiores lineares; calycis dentes late triangulares, breviter mucronulati; corollae limbus intus purpureus, striis maculisque albidis variegatus” [trans.: Albescens, shortly floccose-

tomentose; cauline leaves cordate, shortly petiolate; bracteoles as in the preceding species, shorter, acute, slightly mucronulate, outer ones oblanceolate, inner ones linear; calyx teeth broadly triangular, shortly mucronulate; corolla limb purple internally, variegated with whitish stripes and spots], followed by two synonyms: “Syn.: *Marrubium crispum* Desf. Fl. atl. II p. 24 (1800) (Vidi specim. auth.); non Linné. — *Ball. hirsuta* α a Benth. Lab. gen. et. sp. p. 595 (1832–36).”, and the provenance: “Distribution géographique. Maroc: Env. de Keïra (Balansa 1867); Taferdin, Daou Issaren, Haha (Ibrahim 1887); entre Mogador et Maroc (Ibrahim 1883); Sidi Ouasmin (Ibrahim 1889); vallée de l'Oued Mikès (Grant 1888); Ida Ouchemlal (Mabdoché 1875). — Algérie. Prov. d'Or.: »In montibus incultis prope Mascar» (Desf. Hb. fl. atl.)”.

In the paragraph on geographical provenance, several gatherings are listed; if any herbarium material originates from them and is extant, it constitutes syntype material for the name.

Pseudodictamnus hirsutus subsp. **saharicus** (Diels) P.P. Ferrer, **comb. nov.**

≡ *Ballota acuta* [ε] var. *saharica* Diels in Bot. Jahrb. Syst. Beibl. 120: 113. 1917 [basonym] ≡ *B. hirsuta* var. *saharica* (Diels) Maire, Mission Hoggar 2: 187. 1933 ≡ *B. hirsuta* subsp. *saharica* (Diels) Greuter & Burdet in Willdenowia 14: 300. 1984.

Original material: Not found.

Note: Friedrich Ludwig Emil Diels (1874–1945) was a German botanist based in Berlin. Diels's herbarium was preserved at B. GREUTER (1984) did not designate a type for this name.

The protologue includes a brief description: “Albescens, breviter floccoso-tomentosa; folia caulina petiolata cordata, superior cordato-orbiculata; bracteolae muticae, exteriores oblanceolato-lineares, interiores breviores lineares” [trans.: Whitish, shortly floccose-tomentose; cauline leaves petiolate, cordate, the upper ones cordate-orbicular; bracteoles awnless, the outer ones oblanceolate-linear, the inner ones shorter, linear], followed by several geographical provenances and gatherings: “Tahart, im steinigen Oued, noch nicht blüh. am 24. Februar (n. 75), blüh. am 20. April (n. 244). Oued Ahetesin den Oudän-Bergen, in dem oberen steinigen Teil des Oueds. Blüht “violett” 13. März (n. 132); Oued Ouhet, blüh. 7. April (n. 197)”.

Pseudodictamnus vellereus (Maire, Willer & Wilczek) P.P. Ferrer, **comb. nov.**

≡ *Ballota vellerea* Maire, Willer & Wilczek, Bull. Soc. Hist. Nat. Afrique N. 26: 121. 1935 [basonym] ≡ *B. hirsuta* subsp. *vellerea* (Maire, Willer & Wilczek) Maire in É. Jahandiez & al., Cat. Pl. Maroc 4: 1112. 1941.

LECTOTYPE (designated here): Morocco, in rupestribus calcareis ad radices australes Anti-Atlantis infra Içafen, 800-1000 m, 6-IV-1934, *R. Maire s.n.*, MPU007770. **Isolectotype:** W10943.

Note: The protologue includes a brief diagnosis: “Habitus *B. hirsutae* Benth., a qua differ indumento longe et molliter lanato: limbo calycino minore (4 mm longo) sub anthesi haud patulo” [trans.: “Habit of *B. hirsuta* Benth., from which it differs by its long and softly woolly indumentum: calyx limb smaller (4 mm long), not spreading at anthesis] followed by the provenance “Hab. in rupestribus calcareis Anti-Atlantis infra Icafen”.

REFERENCES

- BENTHAM, G. (1832–1836). *Labiatum genera et species*. London: James Ridgway & Sons.
 DOBIGNARD, A. & C. CHATELAIN (2012). *Index synonymum de la Flore d'Afrique du Nord*. Vol. IV. Éditions des Conservatoire et Jardin Botaniques, Genève.
 FENNANE, M., I. IBN TATTOU & J. EL OUALIDI (2021). *Livre rouge de la flore vasculaire du Maroc*. Travaux de l'Institut Scientifique, Série Botanique, n° spécial **Premier centenaire** de l'Institut Scientifique, Rabat. 750 pp.

- FERRER GALLEGO, P.P. & SÁEZ, L. (2026). (3180) Proposal to conserve the name *Marrubium hirsutum* (*Ballota hirsuta*, *Pseudodictamnus hirsutus*) (*Lamiaceae*) with a conserved type. *Taxon* 75(4): e70221.
- GREUTER, W. (1984). *Ballota hirsuta* subsp. *saharica* in GREUTER, W. & TH. RAUS (eds.). *Med-Checklist Notulae*, 10. *Willdenowia* 14: 299–308.
- IPNI (2025). *International Plant Names Index*. *Pseudodictamnus hirsutus* (Willd.) Salmaki & Siadati. <https://www.ipni.org/search?q=Pseudodictamnus%20hirsutus>. Consultado el 12 Diciembre de 2025.
- MOENCH, C. (1794). *Methodus plantas horti botanici et agri Marburgensis, a staminum situ describendi*, vol. 2. Marburgi Cattorum [Marburg]: in Officina Nova Libraria Academiae.
- OUYAHYA, A. (2007). *Ballota* L. Pp. 458–460. In: FENNANE & al. (eds.), *Flore Pratique du Maroc*, vol. 2. Institut Scientifique, Université Mohammed V, Agdal, Rabat.

- PATZAK, V.A. (1959). Revision der Gattung *Ballota* Section *Acanthoprasium* und Section *Beringeria*. *Ann. Naturhist. Mus. Wien* 63: 33–81.
- POWO (2025). *Pseudodictamnus*. Plant of the World Online. Royal Botanic Gardens, Kew. (accessed in October 2025).
- REJDALI, M. (2002). *Ballota* L. Pp. 513–515. In: VALDÉS, B. & al. (eds.), *Catalogue des plantes vasculaires du N du Maroc*, vol. 2. CSIC, Madrid.
- SIADATI, S. & al. (2018). Untangling the generic boundaries in tribe Marrubieae (*Lamiaceae*: *Lamioideae*) using nuclear and plastid DNA sequences. *Taxon* 67(4): 770–783.
- TURLAND, N.J. & al. (eds.) (2025). *International Code of Nomenclature for algae, fungi, and plants (Madrid Code)*. Regnum Vegetabile, 162, Chicago.

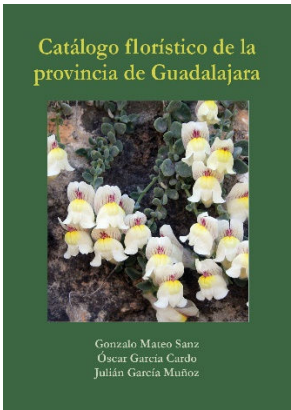
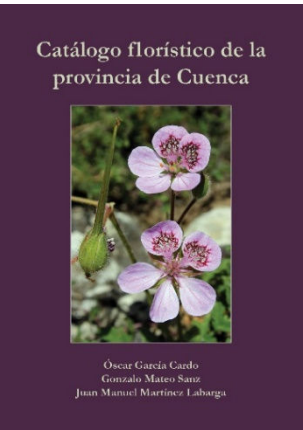
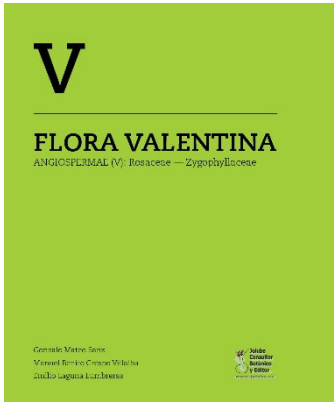
(Recibido el 29-IV-2026).

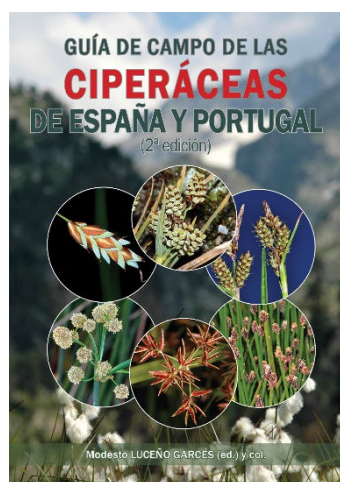
(Aceptado el 30-V-2026)



Figure 1. Specimen proposed as the conserved type for the name *Marrubium hirsutum* Willd. (currently *Pseudodictamnus hirsutus* (Willd.) Salmaki & Siadati); with details of the calyces [B–W 10924 and is mounted on two herbarium sheets, indicated as -01 0 (left) and -02 0 (right; iso-)]. © Herbarum B, reproduced with permission.

NOVEDADES EDITORIALES

 Las Gramíneas fáciles GUÍA VISUAL CON CLAVES PARA IDENTIFICAR LAS GRAMÍNEAS ÍBERO-BALEÁRICAS Carlos Romero Zarco	Las Gramíneas fáciles  Guía visual con claves para identificar las gramíneas íbero-baleáricas Carlos Romero Zarco <i>Monografías de Flora Ibérica, n° 28</i> Encuadernación rústica, A4, 370 páginas en color Ed. Jolube Fecha lanzamiento: mayo de 2026 ISBN: 979-13-991389-1-7 PVP: 45€ + envío
Catálogo florístico de la provincia de Guadalajara  Gonzalo Mateo Sanz, Óscar García Cardo, Julián García Muñoz <i>Monografías de Flora Montiberica, n° 10</i> Encuadernación rústica, 17 × 24 cm, 646 páginas en COLOR Fecha estimada de lanzamiento: noviembre de 2025 Ed. Jolube ISBN: 978-84-127863-7-8 PVP: 29,95€ + envío	 Catálogo florístico de la provincia de Guadalajara Gonzalo Mateo Sanz Óscar García Cardo Julián García Muñoz
 Catálogo florístico de la provincia de Cuenca Óscar García Cardo Gonzalo Mateo Sanz Juan Manuel Martínez Labarga	Catálogo florístico de la provincia de Cuenca  Óscar García Cardo, Gonzalo Mateo Sanz y Juan Manuel Martínez Labarga <i>Monografías de Flora Montiberica, n° 9</i> Encuadernación rústica, 17 × 24 cm, 770 páginas en color Ed. Jolube Fecha lanzamiento: diciembre de 2024 ISBN: 978-84-127863-2-3 PVP: 29,95€ + envío
Flora Valentina, V (Rosaceae - Zygophyllaceae)  Gonzalo Mateo Sanz, Manuel B. Crespo Villalba, Emilio Laguna Lumbreras Encuadernación tapa dura cosida, 22 x 27 cm, 260 páginas en COLOR Fecha de lanzamiento: enero de 2024 Ed. Jolube ISBN: 978-84-126656-1-1 PVP: 50€ + envío	 V FLORA VALENTINA ANGIOSPERMAL V: Rosaceae — Zygophyllaceae Gonzalo Mateo Sanz Manuel B. Crespo Villalba Emilio Laguna Lumbreras



Guía de campo de las ciperáceas de España y Portugal. 2ª ed.



Modesto Luceño Garcés y colaboradores

Monografías de Botánica Ibérica, nº 27

Encuadernación tapa dura 16,5 × 24 cm 598 páginas en **color**

Ed. Jolube

Fecha de lanzamiento: **abril de 2024**

ISBN: 978-84-126656-0-4

PVP: 60€ + envío

Versión en inglés disponible: **Field guide of Spanish and Portuguese sedges (Cyperaceae)**

Atlas de semillas de Aragón

Jorge Pueyo Bielsa, Alicia Cirujeda Ranzenberger, Gabriel Pardo

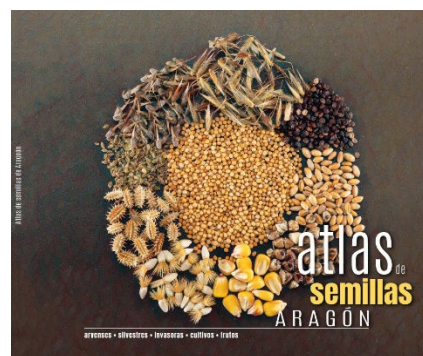
Edita: CITA-Gobierno de Aragón

Encuadernación rústica 24 × 20 cm. 117 pp en **color**.

Fecha lanzamiento: marzo de 2023

ISBN: 978-84-87944-60-4

PVP: 15€ + envío



Plantas tóxicas para rumiantes

H. Quintas, C. Aguiar, L. M. Ferrer, J.J. Ramos, D. Lacasta

Encuadernación rústica 19 × 24 cm

216 páginas en **COLOR**

Edita: Publicações Ciência e Vida e Instituto Agroalimentario de Aragón

Fecha lanzamiento: **diciembre de 2022**

ISBN: 972-590-103-8

PVP: 22,50€ + envío

Guía imprescindible de las flores de la Depresión del Ebro, 2ª edición corregida y aumentada

Javier Puente Cabeza

Col. Guías imprescindibles de flora, nº 5

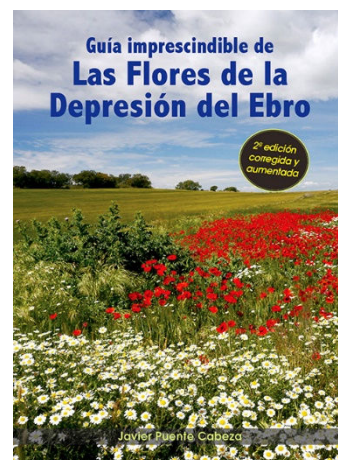
Encuadernación rústica 16 × 21,6 cm. 390 páginas en **COLOR**

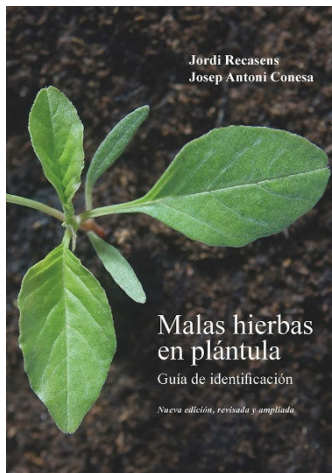
Ed. Jolube, 2024

Fecha lanzamiento: **enero de 2024**

ISBN: 978-84-947985-3-5

PVP: 24,95€ + envío





Malas hierbas en plántula. Guía de identificación. 2ª ed. revisada y ampliada

Jordi Recasens & Josep Antoni Conesa

Encuadernación rústica, 17,5 x 24,7 cm, 454 páginas en **COLOR**

Ed. Universitat de Lleida

Fecha lanzamiento: 2021

ISBN: 978-84-914432-4-7

PVP: 40€ + envío

Mis exploraciones botánicas en el Magreb. Retazos de un diario

Francisco Gómiz García

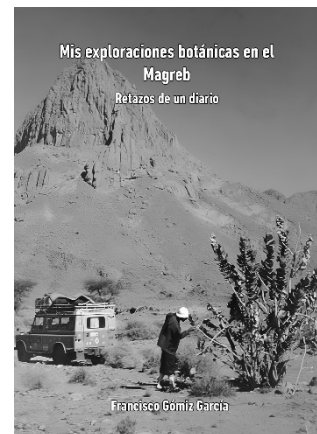
Edita: Jolube, 2024

Encuadernación rústica 17x 24 cm, 204 páginas en B/N

Fecha lanzamiento: **abril de 2024**

ISBN: 978-84-127863-0-9

PVP: 12,50€ + envío



Nueva revisión sintética de los géneros Hieracium y Pilosella en España

Gonzalo Mateo Sanz, Fermín del Egado Mazuelas & Francisco Gómiz García

Monografías de Botánica Ibérica, nº 25

Encuadernación rústica, 17 x 24 cm, 336 páginas en **color**

Ed. Jolube

Fecha lanzamiento: **marzo de 2022**

ISBN: 978-84-124463-8-8

PVP: 26,95€ + envío

Flora selecta marroquí

Francisco Gómiz García

Encuadernación tapa dura cosida, 15x21 cm. 351 pp.

Ed. Fco. Gómiz

Fecha lanzamiento: diciembre de 2001

ISBN: 978-84-932231-1-5

PVP: 39,95€ + envío

