Text S3. Novelties for the catalogue of alien plant taxa of Montjuïc hill thanks to our fieldwork.

S3.1. NEW RECORDS FOR EUROPE OR THE IBERIAN PENINSULA AND BALEARIC ISLANDS

Bosea amherstiana Hook. f.
A mature subspontaneous bush was observed in grassy wasteland on Montjuïc (BC-956022, S. Pyke et al., 20/6/2016). It is a plant seldom cultivated in the Iberian Peninsula [102] and is not known in a wild state in the rest of Europe [103].

Digitaria radicosa (J. Presl) Miq.
A taxon native to tropical Asia, appearing in areas of public gardens and, without doubt, introduced accidentally. The herborised plants from Montjuïc (BC-878038, 25/12/2011; BC-928015, 8/10/2012; BC-940048, 25/9/2014, S. Pyke) represent the first records of this plant, when appearing as a casual, in the Iberian Peninsula and probably also mainland Europe [103]. It has been cited from Sardinia [104] and the Canary Islands [105].

Rumex lunaria L.
A bush observed recently in a wild state on Montjuïc, in an overgrown area above Costa i Llobera gardens (BC-956039, S. Pyke et al., 18/5/2016). It is not known to grow wild in the rest of the Iberian Peninsula, where it is occasionally cultivated as, for example, in Murcia [106,107]. It is native to the Canary Islands, and resistant to drought conditions, such as those of gardens with a low level of maintenance. Naturalised in Italy [100] but no other records from the Iberian Peninsula are known.

S3.2. NOVELTIES FOR CATALONIA [NEW TAXA FOR CATALONIA]

Echium candicans L. f.
Observed in 2010 on the edge of a pine forest in the Joan Brossa gardens (S. Pyke, *vidi vivam*) and in 2017 a small group of plants near the south entrance of the Mossèn Costa and Llobera gardens (Gómez-Bellver et al., *vidi vivam*). Recently found a naturalized group at the foot of the hill on the side of Miramar (J. López-Pujol, 5/10/2020, *vidi vivam*).

Furcraea selloana K. Koch
"*selloa*" incorrect epithet according to Art. 60.8 International Code of Nomenclature [108]
Montjuïc, Miramar sector, below the road bordering Costa i Llobera gardens (J. López-Pujol & N. Nualart, 3/9/2020, *vidi vivam*) on steeply sloping ground.

Pandorea jasminoides (Lindl.) K. Schum.
Some escaped plants in flower on the maritime slopes of Montjuïc (BC-969047 and BCN-143183, C. Gómez-Bellver et al., 6/7/2017).

***Ruscus hypophyllum* L.**
A group of well-developed individuals observed in a woodland clearing on Montjuïc (BC-990453 and BCN-142966, P. Farelo, J. López-Pujol & C. Gómez-Bellver, 3/7/2017). This find confirms the presence of the taxon as a subspontaneous plant in Catalonia, although there is a record from 2001, from Sant Joan del Pas (Tarragona), reported by Royo [109]—database of his thesis; ANTHOS, http://www.anthos.es/ (retrieved at 20/7/2020) as «cultivated and ruderalised» which, nevertheless, does not appear in his thesis and has not been published. The historic records from Catalonia, some *ut R. hypoglossum*, appear to refer to cultivated plants.

S3.3. TAXA OBSERVED FOR THE FIRST TIME IN CATALONIA AT MONTJUÏC AND WHICH HAVE ALREADY BEEN PUBLISHED (AND THAT ARE ALREADY ON THE CATALONIAN CHECKLIST [25])

Aristolochia sempervirens L.
About a dozen plants located in an area occupying approximately 1 km^2 between 130 and 180 m above sea level [110].

Enneapogon cenchroides (Licht. ex Roem. & Schult.) C. E. Hubb.
A single specimen in full bloom in the castle moat's perimetral way [111]. New for Europe.

Morus kagayamae Koidz.
Subspontaneous individual on the edge of a ruderalized stream, north of the cemetery [112].

Opuntia elatior Mill.
Montjuïc Mountain on the Miramar side, a big subspontaneous plant, ca. 5–6 m wide, growing on a rocky slope [113].

Paraserianthes lophantha (Willd.) I.C. Nielsen
Several adult individuals with recruitment, on the path below the cemetery [112].

Ptelea trifoliata L.
Young individuals at three points in a pine forest around Montjuïc Castle [112]. First citation in the Iberian Peninsula.

Tara spinosa (Feuillée ex Molina) Britton & Rose
[≡ *Caesalpinia spinosa* (Feuillée ex Molina) Kuntze]
Group of large shrubs in a ruderal clearing in the freight port area of Barcelona [112].

Vachellia caven (Molina) Seigler & Ebinger
[≡ *Acacia caven* (Molina) Molina]
Subspontaneous young individual on Avinguda dels Muntanyans, next to the Historic Botanical Garden [112].

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