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RESEARCH ARTICLE



Clarifications regarding Noël Necker's names associated to *Chaptalia* (Asteraceae: Mutisieae)

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ABSTRACT

The generic name Chaptalia was founded by Ventenant in 1802. In 1891 Kuntze transferred 19 species from Chaptalia to Thyrsanthema, a name established by Necker in 1790, on the basis that Thyrsanthema had priority over the name Chaptalia. The monomial system of nomenclature used by Necker in his Elementa Botanica published in 1790, together with a confusing typification on the basis of Linnean species, led to different interpretations of Necker's changes by botanists. In 1905 the Vienna Code considered Chaptalia as a nomen conservandum and Thyrsanthema as a nomen rejiciendum. In 1959, the Montreal Code established that the 'species naturales' of Necker are not to be treated as generic names. As a consequence, the name Chaptalia was considered a case of superfluous conservation, because Kuntze did not validate Thyrsanthema until 1891. Edward Greene in 1906 added another point of controversy establishing that the names Chaptalia and Thyrsanthema referred to totally different taxa. The nomenclatural history of Chaptalia and allied names described by Necker (Atasites, Petasites, Thyrsanthema and Tussilago) is reviewed, and the current status of these names is presented.

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Atasites; Compositae; Greene; Kuntze; Necker; Petasites; taxonomy; Thyrsanthema; Tussilago

Introduction

Chaptalia Vent. (Asteraceae: Mutisieae) is a genus of c. 40 species of perennial, scapose herbs with solitary capitula (Figure 1) distributed in America from the southern United States to central Argentina (Katinas et al. 2008). While carrying out different treatments that include Chaptalia (Katinas 1996, 1998, 2004, 2008), my attention was drawn to the nomenclatural status of its generic name. The name Chaptalia appears as a nomen conservandum in some studies (e.g. McVaugh 1984; Harling 1991; Jones et al. 1997), whereas in others this status is not mentioned (e.g. Burkart 1944; Díaz-Piedrahita & Vélez-Nauer 1993; Nesom 1995). Although the citation of a name as conserved or not is a recommendation in the International Code of Nomenclature (Rec. 50E.1; McNeill et al. 2012) and not a mandatory rule, I wondered if the discrepancy in the citation had historical causes by virtue of the acceptance by some botanists of Thyrsanthema, a name established by Nöel Martin Joseph de Necker 12 years earlier than Chaptalia.



Figure 1. Chaptalia arechavaletae Hieron., showing the monocephalous inflorescence and imbricate involucre typical of the genus. Photograph by L. Katinas.

The name Chaptalia was established in March 1802 by Ventenant (in his Description des Plantes Nouvelles et peu connues cultivées dans le jardin de J. M. Cels) to honour Jean Antoine Claude Chaptal (1756-1832), comte de Chanteloup, a distinguished French chemist, physician, agronomist, industrialist, educator, philanthropist and Minister of Interior of Napoleon. Indeed, the process of adding sugar to increase the final alcohol content of wines is called 'chaptalisation' in his honour. The type of Ventenant's new genus is the North American species Chaptalia tomentosa Vent., characterised by its scapose monocephalous habit and heterogamous capitula with multiseriate and imbricate involucre.

Twelve years before, Necker (1790) in his Elementa Botanica included four related monomial names: Atasites, Petasites, Thyrsanthema and Tussilago. One of these, Thyrsanthema, was soon equated with Chaptalia by some botanists (e.g. Kuntze 1891), and Atasites was matched with other generic names, including Chaptalia (e.g. Greene 1906).

Necker's Elementa Botanica (1790) has given rise to much controversy in the past as to the validity of his taxonomical monomial units. Another point of dispute has been the different interpretations of these taxonomic units by authors, due to Necker's ambiguous indication of types. The objective here is to perform a taxonomic clarification of the names Atasites, Petasites, Thyrsanthema and Tussilago, which have been associated with Chaptalia. To do this, I will present an account, focusing on the genus Chaptalia, of the historical events that took place from 1790, the year of publication of Elementa Botanica, to more recent versions of the international codes of botanical nomenclature when the nomenclatural committees adopted the final provisions concerning this work.

Necker's names

The Elementa Botanica (1790) of Necker has been the subject of much debate in the nomenclature committees, as its categories, or units of study, were not the conventional and generally accepted ones. Necker used the term 'species naturales' for the traditional

genera, and 'proles' for the traditional species (Stafleu 1956). Furthermore, Necker's 'generic' and 'specific' names were not combined into binomials, resulting in an idiosyncratic system that did not gain many followers.

Early works of Necker, for example his Methodus muscorum (1771), were orthodox, adhering closely to the Linnaean binomial system. The eventual displacement of the Linnaean system by his own categories was probably due to studies that Necker performed on bryophytes, where he emphasised vegetative over sexual reproduction (Proskauer 1958).

In Elementa Botanica, Necker (1790) included four related names (' ... singular, inter se maxime affines'): Atasites, Petasites, Thyrsanthema and Tussilago, mostly on the basis of species of the genus Tussilago L. (Linnaeus et al. 1737; Linnaeus 1753, 1763). Necker distinguished these genera by two main diagnostic characters (character diagnosticus), namely the type of inflorescence and the type of involucre (Figures 2 and 3). As Cassini (1823) had already noted, Necker used the terminology 'multiflora' for polycephalous scapes, and 'I-flora' for monocephalous scapes. The types for these names, according to Greene (1900; see below), were indicated by quad. (quaedam) or quid. (quidam) two

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SPEC. NAT. ACTINOPHYTORUM.
rum nomen substituimus, in memoriam DD. Pinard, pro-
fessoris horti Botan. rothomagai.
  THYRSANTHEMA. Thyrfanthème.
  5. CHAR. DIAGN. Perigynanda communis, imbrica-
ta, polylepida, multiflora, lingulæ radium forman-
tes, minutæ.
  Semina, fertilia omnia.
CHAR. PEC. Fl. radiatus.
  Perigynanda communis, polylepida, imbricata, multi-
  Elytriculi radii florum, feminei, lingulati, minuti;
Centrales, tubulati, monoclini: ore 5-fido.
  Difcus communis, nudus.
  Semina, omnia fertilia.
  Pappus feminum, fimplex pilofusve.
  Proles in hac specie, scaposæ.
 Folia simplicia. Quæd. Tustilag. I inn.
         PETASITES. Pétasite.
 6. CHAR. DIAGN. Perigynanda communis, I-sepala,
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fimplex, pluripartita, multiflora, basi cujus squamæ spha-
celatæ, accessorii formes.
  Semina, omnia fertilia,
CHAR. PEC. Fl. radiatus.
  Perigynanda communis, pluripartita, I-sepala, sim-
plex, multiflora, cujus basi squamæ sphacelatæ, accesso-
rii formes.
  Elytriculi radii florum, feminei, plani, lingulati, mi-
nuti; Centrales, tubulati, hermaphroditi : fegmentis plu-
  Discus communis, nudus.
  Semina, omnia fertilia, pappescentia: pappo piloso,
feffili.
  Proles in hac fpecie, feapofæ.
  Folia simplicia. Quæd.
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Figure 2. Descriptions of Necker from his Elementa Botanica (Paris, April 1790) for Thyrsanthema Neck. and Petasites Mill.

SPEC. NAT. ACTINOPHYTORUM.

7

fimplex, I-iepala, pluripartita.

Squamulæ, basi, auctæ, sphacelatæ, coarctatæ.

Semina, fertilia omnia.

CHAR. PEC. Fl. radiatus.

Perigynanda communis, I-slora, I-sepala, pluripartita, simplex.

Squamulæ, coarctatæ, sphacelatæ, basi auctæ.

Elytriculi slorum radiantes, seminei, lingulati;

Centrales, monoclini, tubulati: apice pluridentato.

Discus communis, nudus.

Semina, omnia fertilia, pappo simplici coronata.

Proles in hac specie, scaposæ.

Folia simplicia.

Obs. Thyrsanthema, Petasites, Asitea, & Tussiago.

species naturales 4, distindæ, Lioydiæ proximæ: singulæ, inter se maxime assines.

Figure 3. Descriptions of Necker from his *Elementa Botanica* (Paris, April 1790) for *Atasites* Neck. and *Tussilago* L.

indefinite pronouns that mean 'a certain' or 'some' (Stearn 1996), and then generally followed by one or more Linnaean generic names.

Two of the names, *Petasites* and *Tussilago*, had been established by Miller (1754), Linnaeus et al. (1737) and Linnaeus (1753), respectively. *Petasites* is currently a genus of the tribe Senecioneae, with c. 20 species of perennial herbs with paniculate or racemose secondary inflorescences, and uni-seriate involucre (Toman 1972). *Tussilago* is a Eurasiatic and African monotypic genus of the tribe Senecioneae of perennial herbs with solitary capitula and uni-seriate involucre (Bremer 1994). On the other hand, *Atasites* and *Thyrsanthema* were created by Necker, and so will be briefly discussed here.

Atasites, characterised by Necker by its monocephalous scapes and imbricate involucre, has the indication: Quid. Tussilag. & Arnic. Linn., suggesting that it was based on some of the Tussilago and Arnica species of Linnaeus. Later interpretations of this statement in subsequent years by botanists were incredibly heterogeneous. Cassini (1823, p. 105) considered Atasites equivalent to Gerbera L. (a genus morphologically close to Chaptalia), probably due to the inclusion of Gerbera in the genus Arnica by Linnaeus (Greene

1906; Hansen 1985). Bentham and Hooker (1873) related Atasites to Anandria (currently a nom. illeg. under Leibnitzia Cass., another morphologically close genus to Chaptalia). Finally, Greene (1906) did not consider the name Gerbera because Necker mentions it consecutive to Tussilago as, according to Greene, an 'appended species'. Greene suggested that Atasites probably corresponds to either Chaptalia (tribe Mutisieae) or Homogyne Cass. (tribe Senecioneae).

The last of Necker's four names, *Thyrsanthema*, was described as having polycephalous scapes ('multiflora' in his terminology), and multiseriate, imbricate involucre. The words 'Quad. Tussilag. Linn.' indicate that Thyrsanthema probably corresponds to some Linnaean species of Tussilago. In the first edition of Species Plantarum (1753), Linnaeus described seven species of Tussilago: Tussilago alba (currently Petasites albus (L.) Gaertn., Senecioneae), Tussilago alpina (currently Homogyne alpina (L.) Cass., Senecioneae), Tussilago anandria (currently Leibnitzia anandria (L.) Turcz., Mutisieae), Tussilago farfara (Senecioneae), Tussilago frigida (currently Petasites frigidus (L.) Fr., Senecioneae), Tussilago hybrida (currently Petasites hybridus (L.) G. Gaertn., B. Mey. & Scherb., Senecioneae), and Tussilago petasites (currently Petasites hybridus (L.) G. Gaertn., B. Mey. & Scherb., Senecioneae). Two more species were added in the second edition (Linnaeus 1763): Tussilago dentata (currently Chaptalia dentata (L.) Cass., Mutisieae) and Tussilago nutans (currently Chaptalia nutans (L.) Pol., Mutisieae). Cassini (1823, p. 105) and Bentham and Hooker (1873, p. 498), for example, treated Thyrsanthema as synonym of Leria DC. (Candolle 1812; currently a synonym of Chaptalia), and Baillon (1886, p. 95) considered Thyrsanthema a synonym of Chaptalia.

Kuntze's Revisio Genera Plantarum (1891), with 1074 replacement genera and 30,000 new combinations, appeared as a nomenclatural schism of the first order in the botanical nomenclature (Nicolson 1991). Kuntze had a very broad view of what constitutes homonymy; he took the 1735 Syst. Nat. ed. 1 of Linnaeus as the starting point for the priority of generic names, and claimed that he was only applying the Candollean Code (Stafleu 1956; Nicolson 1991). The changes made by Kuntze were treated in many different ways: accepted, rejected, or as names directly and pointedly ignored by many botanists. Kuntze (1891) recognised the three genera, Chaptalia, Leria and Thyrsanthema, as synonyms and, applying the principle of priority, transferred 19 species of Chaptalia and Leria (and synonyms of these genera) to *Thyrsanthema* (Table 1). He performed his description of *Thyrsanthema* on the basis of *Tussilago nutans* L. (currently *Chaptalia nutans* (L.) Pol.). This was interpreted as a typification of the genus *Thyrsanthema* (e.g. Simpson 1978; Nesom 1995). However, according to Art. 52.1 of ICN (McNeill et al. 2012) Thyrsanthema Neck. ex Kuntze, being an illegitimate name (see below), is typified by the original and conserved type of Chaptalia Vent. (C. tomentosa Vent.).

The treatment of Necker's names by the code

Harms (1904, p. 37) proposed a list of generic conservations to overcome Kuntze's changes. The list contained Chaptalia as a nomen conservandum and Thyrsanthema Neck. as a nomen rejiciendum. In Harm's list there was no citation of types, the typification of Chaptalia (C. tomentosa Vent.) was subsequently made by Rickett and Stafleu (1960) in their Nomina generica conservanda et rejicienda spermatophytorum. Hence, in the Vienna Botanical Congress of 1905 (Briquet et al. 1906) it was decided to accept the

Table 1. Combinations and the new species Thyrsanthema ebracteata established by Kuntze (1891, 1898). The current name of the species is in bold.

Kuntze treatment	Basionym	Current name
Thyrsanthema araneosa (Casar.) Kuntze	Chaptalia araneosa Casar.	Chaptalia araneosa Casar. ^a
Thyrsanthema chilensis (DC.) Kuntze	Loxodon chilensis DC.	Chaptalia exscapa (Pers.) Baker var. chilensis (DC.) Burkart ^b
Thyrsanthema dentata (L.) Kuntze Thyrsanthema ebracteata Kuntze	Tussilago dentata L.	Chaptalia dentata (L.) Cass. ^c Chaptalia ebracteata (Kuntze) K. Schum. ^d
Thyrsanthema ehrenbergii (Sch. Bip.) Kuntze	<i>Gerbera ehrenbergii</i> Sch. Bip.	Leibnitzia seemanii (Sch. Bip.) Nesom ^e
Thyrsanthema exscapa (Pers.) Kuntze Thyrsanthema integrifolia (Cass.) Kuntze	Tussilago exscapa Pers. Leria integrifolia Cass.	Chaptalia exscapa (Pers.) Kuntze ^f Chaptalia integerrima (Vell.) Burkart ^f
Thyrsanthema lyrata (D. Don) Kuntze	Chaptalia lyrata D. Don	<i>Leibnitzia lyrata</i> (D. Don) Nesom ^g
Thyrsanthema nutans (L.) Kuntze	Tussilago nutans L.	Chaptalia nutans (L.) Pol.c
Thyrsanthema oblonga (D. Don) Kuntze	Chaptalia oblonga D. Don	Chaptalia oblonga D. Don ^a
Thyrsanthema ovalis (D. Don) Kuntze Thyrsanthema piloselloides (Vahl) Kuntze	Chaptalia ovalis D. Don Perdicium piloselloides Vahl	Chaptalia ovalis D. Don ^a Chaptalia piloselloides (Vahl) Baker ^h
Thyrsanthema pumila (Sw.) Kuntze	Tussilago pumila Sw.	Chaptalia dentata (L.) Cass.c
Thyrsanthema rotundifolia (D. Don) Kuntze	Chaptalia rotundifolia D. Don	Chaptalia rotundifolia D. Don ^b
Thyrsanthema runcinata (Kunth) Kuntze	Chaptalia runcinata Kunth	Chaptalia piloselloides (Vahl) Baker ^h
Thyrsanthema seemanii (Sch. Bip.) Kuntze	Gerbera seemanii Sch. Bip.	<i>Leibnitzia seemanii</i> (Sch. Bip.) Nesom ^e
Thyrsanthema semifloscularis (Walter) Kuntze	Perdicium semiflosculare Walter	Chaptalia tomentosa Vent. ⁹
Thyrsanthema sinuata (Less.) Kuntze	Leria nutans (L.) DC. var. sinuata Less.	Chaptalia integerrima (Vell.) Burkart ^f
Thyrsanthema spathulata (D. Don) Kuntze	Leria spathulata D. Don	Chaptalia spathulata (D. Don) Hemsl. ⁹
Thyrsanthema tomentosa (L.f.) Kuntze	Leontodon tomentosum L.f.	Chaptalia albicans (Sw.) Vent. ex B.D. Jacks.c

^aZardini (1975); ^bBurkart (1944); ^cKatinas and Zavaro (2014); ^dSchumann (1898); ^eNesom (1983); ^fPassini et al. (2014); ^gNesom (1995); ^hKatinas et al. (2014).

principle of conserving generic names to avoid disadvantageous changes in the nomenclatures, and Chaptalia became a conserved name (Briquet 1905, p. 150). The proposal of Harms was adopted after the scrutiny of 118 votes in favour and 37 against (Briquet 1906). The status of *Thyrsanthema* as a nomen rejiciendum, appeared in the first partial systematic treatment for Chaptalia by Burkart (1944).

Until 1959 there was a conflict of opinions among botanists interested in the nomenclatural stability concerning conservation or rejection of Necker's names. Some authors (e.g. Mansfeld 1958; Proskauer 1958; Bullock 1959) believed that Necker's generic names must be considered validly published generic names under the code. Others (e.g. Wilmott 1935; Dandy & Ross 1958) came to the opposite conclusion. In fact, Dandy and Ross (1958) clearly stated that Necker and Linnaeus did not only differ in their terminology but in their taxonomic judgment. By 1956, six names of Necker were conserved, 44 rejected, and the others were generally used (Stafleu 1956). Finally, in the International Montreal Botanical Congress of August 1959 (Lanjow et al. 1961), the conservation of Chaptalia was considered superfluous because Kuntze in his Revisio Genera Plantarum did not validate Thyrsanthema until 1891 (Rickett & Stafleu 1960). Hence, Chaptalia is included in the codes in the nomina generica conservanda among the genera for which no nomina rejicienda need to be listed. Because of this, Chaptalia and Thyrsanthema were distinguished with a dagger until the Seattle Code of 1969 (Stafleu et al. 1972), but this symbol was eliminated in the further editions of the codes.

The nomenclatural status of Necker's categories (or ranks) was dealt with by the ICBN of 1961, Art. 20 (Lanjouw et al. 1961):

N. J. de Necker in his Elementa Botanica 1790, proposed unitary designations for this 'species naturales'. These names, which resemble generic names, are not to be treated as such, unless they have been published as generic names by a subsequent author.

For the report of the debate itself see Bureau of Nomenclature (1960).

A relevant provision of the Tokyo Code (Greuter et al. 1994) is Art. 32.8 and the associated Appendix V (opera utique oppressa) where all names of genera included in the Elementa Botanica of 1790 were considered not validly published.

The view of Edward Greene

At the beginning of the twentieth century, another point of controversy was added to the nomenclatural issue of Chaptalia versus Thyrsanthema. In an early paper, Greene (1900) found in a review of fern genera the statement that none of Necker's fern genera were based on types. According to him, Necker's generic types were indicated quite plainly and there was no need to indicate them: the word 'quaedam' was a type indication referring to the first enumerated by Linnaeus in a group of species.

In a further paper on Atasites and Thyrsanthema, Greene (1906) suggested that Tussilago nutans was the possible type of Atasites and related Atasites to Chaptalia. In addition, he critically analysed Kuntze's work considering that Chaptalia and Thyrsanthema were names referred to completely different taxa. According to Greene, not only is the meaning of the name 'Thyrsanthema' highly significant in relation to its inflorescence appearance (many thyrsoidly arranged capitula), but Necker's description is in fact very clear about what morphological characteristics he wanted to emphasise. Greene noted that the diagnosis of *Thyrsanthema* describes a plant with polycephalous, probably thyrsiform, scapes and that the possession of secondary inflorescences, as described by Necker, is completely different from the inflorescence of Chaptalia, in which all the species have monocephalous scapes (Figure 1).

Greene wrote: 'Now, whoever shall find among the thyrsiflorous species of Linnaean Tussilago, one that fulfil these conditions, according to the diagnosis of Linnaeus, are T. frigida, T. hybrida, and T. petasites' (currently all belong to the genus Petasites of the tribe Senecioneae). Greene finished his statement as follows:

As for Thyrsanthema, whoever wishes to see that which Necker so evidently had in mind for its type, may look at its fine representation in the Hortus Elthamensi's (sic) of Dillenius, plate 230. It is entitled to the name: THYRSANTHEMA HYBRIDUM. Tussilago hybrid, Linn. (Figure 4).

Greene assigned *Tussilago hybrida* L. (=*Petasites hybridus* (L.) Gaertn., Mey. et Scherb.) to Thyrsanthema, even though he referred to the Dillenius' plate entitled as Petasites major (Figure 4). The point of view of Greene was ignored or not considered by later botanists, probably because his actions with regard to *Thyrsanthema* were irrelevant to the

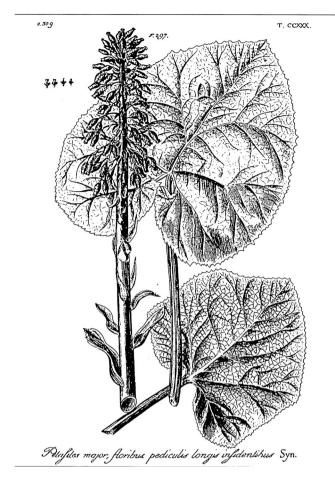


Figure 4. Petasites major from the Hortus Elthamensis of Dillenius (London, 1732), a work mentioned by Greene in 1906 when referring to Thyrsanthema.

nomenclature. It was Nesom (1995) in his revision of the North and Central American species of Chaptalia who brought up the observations of Greene in relation to Chaptalia and Thyrsanthema.

Where Necker's names indeed related to Chaptalia?

As already mentioned, the interpretation of Necker's names, descriptions and potential type assignations were heterogeneous and sometimes contradictory. Therefore, it is worth citing the complete paragraph (Necker 1790, p. 7) at the end of the descriptions of the four genera (Figure 3): 'Obs. Thyrsanthema, Petasites, Asitea (sic), & Tussilago. Species naturales 4, Lioydiae proximae: singular, inter se maxime affines'. In this observation Necker related these names to the previously established name Lioydia Neck. in the Elementa Botanica (Necker 1790, p. 4), which in turn he related to the genus Inula L. (tribe Inuleae). Some further authors such as Cassini (1825, p. 489), Candolle (1838, p. 13) and Endlicher (1840, p. 1386), considered *Lioydia* related or a synonym to *Printzia* Cass. (tribe Gnaphalieae). Also, Necker related the names to some Tussilago (tribe Senecioneae) and some Arnica (tribe Madieae) species of Linnaeus. I agree with Greene (1906) that the description of Thyrsanthema was not related to Chaptalia on the basis of the polycephalous inflorescence of the former. Regarding Atasites, with monocephalous inflorescence and called 'Faux-Pétasite' by Necker himself (Figure 3), I disagree with Greene regarding a possible assignation to the genus Chaptalia. I would follow Necker's final observation about a relationship of the four genera with Lioydia and discard any relationship with a member of the tribe Mutisieae where Chaptalia belongs.

At this point, it is worth summarising and separating the nomenclatural from the taxonomic issues. Necker (1790) established the names Atasites and Thyrsanthema to include two groups of plants, the first with monocephalous inflorescences and the second with polycephalous inflorescences. These names do not follow the rules of the code and are considered invalid. Later, Ventenant (1802) established the name Chaptalia to circumscribe a group of plants with monocephalous inflorescences. Kuntze (1891) rehabilitated the name Thyrsanthema, with a different interpretation from Necker and having in mind monocephalous plants; he assigned this name to the species of *Chaptalia*, the generic name created by Ventenant. The name Thyrsanthema of Kuntze is superfluous and illegitimate under the Code because Chaptalia is the earliest validly and legitimate published name and because the name of Kuntze included the type of Chaptalia.

Finally, and as a separate note from Chaptalia, the name Thyrsanthema (as Thyrsanthemum) was further assigned by Pichon (1946) to a new genus of the family Commelinaceae. Pichon's name is apparently not valid following Art. 53.1, note 1, and art. 53.3 of the ICN (McNeill et al. 2012), being a later homonym of Thyrsanthema Necker ex Kuntze. It should be also mentioned that the generic names ending in -anthema, such as Thyrsanthema, are neuter plural in Latin and are to be corrected to neuter singular -anthemum, hence Thyrsanthemum (Tjaden 1995).

Current status of the names Atasites, Chaptalia and Thyrsanthema

The following digest of the species and names related to Chaptalia, ordered chronologically, will clarify and formalise the conclusions:

Thyrsanthemum (Thyrsanthema) Neck., Elem. Bot. 1: 6 (1790), nom. not val. publ. (ICN 2012: Art. 34, App. VI, p. 449).

The names in the paper by Necker (1790) are not validly published because it is listed in the App. VI of the Melbourne Code (Wiersema et al. 2015) as a suppressed work.

A genus described as having polycephalous inflorescence. The name was erroneously assigned to Leria (currently a synonym of Chaptalia of the tribe Mutisieae) by early botanists (e.g. Cassini 1823; Bentham & Hooker 1873).

Atasites Neck., Elem. Bot. 1: 7 (1790), nom. not val. publ. (ICN 2012: Art. 34, App. VI, p. 449).

The names in the paper by Necker (1790) are not validly published because it is listed in the App. VI of the Melbourne Code (Wiersema et al. 2015) as a suppressed work.

A genus described as having monocephalous inflorescence. The name was assigned to Chaptalia, Gerbera, Leibnitzia (tribe Mutisieae) or Homogyne (tribe Senecioneae) by early botanists (e.g. Cassini 1823; Bentham & Hooker 1873; Greene 1906).

Chaptalia Vent., Descr. Pl. Jard. Cels. tab. 61 (1802), nom. cons. (ICN 2012: App. IV, p. 187) Type: Chaptalia tomentosa Vent.

A genus of c. 40 species of the tribe Mutisieae, represented by perennial herbs with monocephalous scapes and pluriseriate involucres.

Thyrsanthemum (Thyrsanthema) Neck. ex Kuntze, Revis. Gen. Pl. 1: 369 (1891), nom. superfl. et illeg.

≡ Chaptalia Vent. 1802. Type: Chaptalia tomentosa Vent.

A superfluous and illegitimate name proposed by Kuntze (1891), the name Chaptalia has priority.

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