

7. On priority of *Genistion purgantis* Tüxen in Tüxen & Oberdorfer 1958 and *Senecioni-Genistetum purgantis* Tüxen & Oberdorfer 1958

In a recent review of which we were co-authors (Rivas-Martínez, Belmonte, Cantó, Fernández-González, Fuente, Moreno, Sánchez-Mata & Sancho, Lazaroa 7: 93-124. 1987), rejection of names *Genistion purgantis* Tüxen in Tüxen & Oberdorfer 1958 [Veröff. Geobot. Inst. Rübel Zürich 32: 228] and *Senecio tournefortii-Genista purgans*-Ass. Tüxen & Oberdorfer 1958 [*op. cit.*: 229-230] versus *Pino-Cytisium purgantis* Rivas-Martínez 1964 [Anales Inst. Bot. Cavanilles 22: 358] and *Junipero nanae-Sarothamnetum purgantis* Rivas-Martínez 1963 [Anales Inst. Bot. Cavanilles 21(1): 172-186] respectively, was proposed and adopted.

The reason argued in the former case (Rivas-Martínez & al., *op. cit.*: 101. 1987) was the complexity of the alliance described by Tüxen in Tüxen & Oberdorfer (*l.c.*). In fact, among the various associations and communities originally described or included in it, only one (*Senecioni-Genistetum purgantis*) can be rightly assigned to the modern conception of the alliance *Pino-Cytisium oromediterranei*, nowadays restricted to oromediterranean, acidophilous communities (Rivas-Martínez, *l.c.*, 1964; Rivas-Martínez & al., *op. cit.*: 101. 1987; etc). Nevertheless, such a reason is not enough to reject an alliance name (CPN, Art. 29 & 38). Of course, the alliance *Genistion purgantis* could have been lectotypified on another association of those included in it by Tüxen & Oberdorfer (like *Genisto purgantis-Arctostaphyletum* Br.-Bl. 1939 or *Erico-Genistetum purgantis* Tüxen in Tüxen & Oberdorfer 1958), but there are no consistent reasons for not choosing the association *Senecioni-Genistetum* as its lectotype. Art. 36 cannot be applied in this case either, since *Genistion purgantis* has been longly interpreted as synonym of *Pino-Cytisium purgantis* (Rivas-Martínez, *l.c.*, 1963; *l.c.*, 1964; Rivas-Martínez & al., *l.c.*, 1987), and even it has been used in place of the later (Rivas-Martínez, *op. cit.*: 168. 1963; Anales Real Acad. Farm. 47: 442. 1982; Fernández Prieto, Anales Jard. Bot. Madrid 39(2): 512. 1983; Rivas-Martínez & Arnaiz, Bull. Soc. Bot. France, Actual. Bot. 131: 118. 1984; etc). The recent lectotypification proposed by Rivas-Martínez (*l.c.*, 1987; see below) accords with this reasoning.

The argument invoked to accept *Junipero-Sarothamnetum* in place of *Senecioni-Genistetum*, based on the incorrection of R. Tüxen & Oberdorfer's name (Rivas-Martínez & al., *op. cit.*: 104. 1987), was clearly misapplied, because priority is not altered by correction of names (CPN, Art. 40). Moreover, *Senecioni-Genistetum purgantis* has been longly considered as synonym of *Junipero-Cytisetum (Sarothamnetum) purgantis* (Rivas-Martínez, *op. cit.*: 177. 1963; *l.c.*, 1964; Rivas-Martínez & al., *l.c.*, 1987).

Therefore, priority of Tüxen & Oberdorfer's association name must be accepted, though it has to be doubly corrected according to Art. 43: *Senecio pyrenaicus* subsp. *carpetanus* and *Cytisus oromediterraneus* in place of *Senecio tournefortii* and *Genista purgans*, respectively. *Senecio tournefortii* Lapeyr. is a latter synonym of *S. pyrenaicus* L. in Loefl., whose typical subspecies does not reach the Iberian Central System. In the eastern mountains of the Iberian Central System (Guadarrama, Ayllón and Avila Sierras, that is, the area of the association) only exists the

related taxon *S. pyrenaicus* subsp. *carpetanus* (Willk.) Rivas-Martínez [Anales Inst. Bot. Cavanilles 21(1): 274. 1963]. On the other hand, *Genista purgans* L., basionym of *Cytisus purgans* (L.) Boiss., is merely a latter synonym of *Genista scorpius* (L.) DC. [G. López & Ch.E. Jarvis, Anales Jard. Bot. Madrid 40(2): 342. 1984]; *Cytisus purgans sensu auct. pl.* (that is, the taxon naming the association) must be named *Cytisus oromediterraneus* Rivas-Martínez, T.E. Díaz, Fernández Prieto, Loidi & Penas [Los Picos de Europa: 264. León, 1984] at the specific rank (with which we are in accord), or *Cytisus balansae* var. *europaeus* G. López & Ch.E. Jarvis [Anales Jard. Bot. Madrid 40(2): 342. 1984] or subsp. *europaeus* (G. López & Ch.E. Jarvis) Muñoz Garmendia [Anales Jard. Bot. Madrid 41(2): 477. 1985] at the varietal or subspecific ranks. This double correction has been just proposed by Rivas-Martínez (Memoria del Mapa de Series de vegetación de España 1:400.000: 145. ICONA, Madrid, 1987), as well as the lectotype of this association.

Taking into account all this considerations, the only thing that remains is to transfer the subassociation epithets from *Junipero-Cytisetum* to the Tüxen & Oberdorfer's association name, according to Art. 26 & 50 of the CPN. There are not problems in these transfers, because the lectotype of *Senecioni-Cytisetum* fits very well with the concept of *Junipero-Cytisetum* subass. *cytisetosum* or typical subassociation (however, relevé 216 of Tüxen & Oberdorfer's table (*l.c.*) fits better with the subass. *adenocarpetosum hispanici*). Nomenclature of all these syntaxa remains as it follows (the cited review of Rivas-Martínez & al. (1987) furnishes complete syntonomy, tables and descriptions):

All. *Cytision oromediterranei* Tüxen in Tüxen & Oberdorfer 1958 corr. Rivas-Martínez 1987 [*op. cit.*: 145].

Nomenclatural type: *Senecio tournefortii-Genista purgans*-Ass. Tüxen & Oberdorfer 1958 [Veröff. Geobot. Inst. Rübel Zürich 32: 229-230] (lectotype designated by Rivas-Martínez, *op. cit.*: 145. 1987).

Syn.: *Geniston purgantis* Tüxen in Tüxen & Oberdorfer 1958 [*op. cit.*: 228] *nom. incorr.* (Art. 43), excl. *Genisto-Arctostaphyletum* Br.-Bl. 1939 and *Erico-Genistetum purgantis* Tüxen in Tüxen & Oberdorfer 1958; *Pino-Cytision purgantis* Rivas-Martínez 1964 [*op. cit.*: 358] *nom. incorr.* (Art. 43) (Nomenclatural type: *Junipero-Sarothamnetum purgantis* Rivas-Martínez 1963 [Anales Inst. Bot. Cavanilles 21(1): 172-186 —lectotype designated by Rivas-Martínez & al., *op. cit.*: 100. 1987—]; *Pino-Cytision oromediterranei* Rivas-Martínez 1964 *corr.* Rivas-Martínez & al. 1987 [*op. cit.*: 100]; *Junipero nanae-Cytision purgantis* Br.-Bl., P. Silva & Rozeira 1961 [Agron. Lusit. 23: 279-280], *p. min. p.* (only included 'groupement à *Juniperus nana* et *Cytisus purgans*' Br.-Bl., P. Silva & Rozeira 1961 [*op. cit.*: 280, tab. 1] *nom. inval.* (Art. 3d); excl. *Junipero nanae-Ericetum aragonensis* Br.-Bl., P. Silva, Rozeira & Fontes 1952).

Suball. *Cytisenion oromediterranei*

Syn.: *Pino-Cytisenion oromediterranei*.

Typical suballiance.

1. *Senecioni carpetani-Cytisetum oromediterranei* Tüxen & Oberdorfer 1958 *corr.* Rivas-Martínez 1987 [*op. cit.*: 145]

Nomenclatural type: R. Tüxen & Oberdorfer, Veröff. Geobot. Inst. Rübel Zürich 32: 229, tab. 73: rel. 152. 1958 (lectotype designated by Rivas-Martínez, *op. cit.*: 145. 1987).

Syn.: *Senecio tournefortii-Genista purgans*-Ass. Tüxen & Oberdorfer 1958 [op. cit.: 229-230] *nom. incorr.* (Art. 43); *Junipero* ['*Junipereto*']-*Sarothamnetum purgantis* Rivas-Martínez 1963 [op. cit.: 172-186] *nom. incorr.* (Art. 43) (Nomenclatural type: Rivas-Martínez, Anales Inst. Bot. Cavanilles 21(1): 172-175, tab. 22: rel. 5. 1963 —lectotype designated by Rivas-Martínez & al., op. cit.: 101. 1987—); *Junipero nanae-Cytisetum oromediterranei* Rivas-Martínez 1963 *corr.* Rivas-Martínez & al. 1987 [op. cit.: 101]; "landa ... formada por *Cytisus purgans*, *Juniperus communis* subsp. *alpina*" González-Albo 1941 [Bol. Soc. Españ. Hist. Nat. 38: 12-13] *nom. inval.* (Art. 3d); 'Asociación *Juniperus nana-Sarothamnus purgans*' Rivas Goday 1949 [Portugalia Acta Biol. B, vol. "Júlio Henriques": 149] *nom. nudum*.

Nomenclatural observations: Because of the González-Albo's name above quoted is clearly invalid, the inclusion in brackets of 'González-Albo 1941' indicated by Tüxen & Oberdorfer (*l.c.*) in the authority of the association is not justified (Art. 46). On the other hand, in a paper of 1946 [Farmacognosia, Anales Inst. Mutis 9: 97-122], Rivas Goday & Madueño refer the name 'asociación *Juniperus nana-Sarothamnus purgans*' (op. cit.: 116, 120) for the subalpine scrubs of Moncayo mountains. Because no relevés are furnished under this name, it must be considered a *nomen nudum*. Nevertheless, a relevé is apported in page 112 of the same paper under the name 'Asoc. *Juniperus communis-Sarothamnus purgans*'. '*Juniperus communis* form. inter. *nana*' is the only juniper recorded in this relevé, that has not accurate indication of altitude either. Its floristic poverty, lack of character species and ambiguity of the juniper taxon recorded does not allow us to decide if this relevé may be related to the oromediterranean or to the supramediterranean scrubs. Nevertheless, we think that this name must be considered a *nomen invalidum* according to Art. 3f of the CPN, because one of the name-giving taxa (*Juniperus communis*) is not clearly cited in the diagnostic relevé.

Subassociations included:

1a. *Senecioni-Cytisetum oromediterranei* subass. *cytisetosum oromediterranei*

Syn: *Junipero-Cytisetum oromediterranei* subass. *cytisetosum oromediterranei* Rivas-Martínez & al. 1987 [op. cit.: 104]; incl. *Senecio tournefortii-Genista purgans*-Ass. Tüxen & Oberdorfer 1958, *p. max. p.* (excl. rel. 216 of table 73); incl. *Junipero-Sarothamnetum purgantis* subass. *typicum* Rivas-Martínez 1963, *p. max. p.* (excl. variant of *Juniperus communis* subsp. *alpina*).

Typical subassociation.

1b. *Senecioni-Cytisetum oromediterranei* subass. *pinetosum sylvestris* (Rivas-Martínez 1963) *comb. nova*

Nomenclatural type: Rivas-Martínez, Anales Inst. Bot. Cavanilles 21(1): 172-175, tab. 22: rel. 18. 1963 (lectotype designated by Rivas-Martínez & al., op. cit.: 105. 1987).

Basionym: *Junipero-Sarothamnetum purgantis* subass. *pinetosum sylvestris* Rivas-Martínez 1963 [Anales Inst. Bot. Cavanilles 21(1): 172-175, 177-185], *p. max. p.* (excl. variant of *Genista florida*).

1c. *Senecioni-Cytisetum oromediterranei* subass. *juniperetosum nanae* (Rivas-Martínez 1970) *comb. nova*

Nomenclatural type: Rivas-Martínez, Anales Inst. Bot. Cavanilles 21(1): 172-175, tab. 22: rel. 9. 1963 (holotype designated by Rivas-Martínez, op. cit.: 152. 1970).

Basionym: *Junipero-Cytisetum purgantis* subass. *juniperetosum nanae* Rivas-Martínez 1970 [Anales Inst. Bot. Cavanilles 27: 152].

Syn.: *Junipero-Sarothamnetum purgantis* subass. *typicum* variant of *Juniperus communis* subsp. *alpina* Rivas-Martínez 1963 [*op. cit.*: 172-177] *nom. inval.* (Art. 3d).

1d. *Senecioni-Cytisetum oromediterranei* subass. *adenocarpetosum hispanici* (Rivas-Martínez & al. 1987) *comb. nova*

Nomenclatural type: Rivas-Martínez & al., *op. cit.*: 118, tab. 4: rel. 6. 1987 (holotype).

Basionym: *Junipero-Cytisetum oromediterranei* subass. *adenocarpetosum hispanici* Rivas-Martínez & al. 1987 [Lazaroa 7: 106, 118].

1e. *Senecioni-Cytisetum oromediterranei* subass. *arctostaphyletosum crassifoliae* (Rivas-Martínez & al. 1987) *comb. nova*

Nomenclatural type: Rivas-Martínez & al., *op. cit.*: 119, tab. 5: rel. 8. 1987 (holotype).

Basionym: *Junipero-Cytisetum oromediterranei* subass. *arctostaphyletosum crassifoliae* Rivas-Martínez & al. 1987 [Lazaroa 7: 106, 119].

1f. *Senecioni-Cytisetum oromediterranei* subass. *ericetosum aragonensis* (Rivas-Martínez & al. 1987) *comb. nova*

Nomenclatural type: Rivas-Martínez & al., *op. cit.*: 120, tab. 6: rel. 2. 1987 (holotype).

Basionym: *Junipero-Cytisetum oromediterranei* subass. *ericetosum aragonensis* Rivas-Martínez & al. 1987 [Lazaroa 7: 106, 120].

1g. *Senecioni-Cytisetum oromediterranei* subass. *populetosum tremulae* (Rivas-Martínez & al. 1987) *comb. nova*

Nomenclatural type: Rivas-Martínez & al., *op. cit.*: 116-117, tab. 3: rel. 14. 1987 (holotype).

Basionym: *Junipero-Cytisetum oromediterranei* subass. *populetosum tremulae* Rivas-Martínez & al. 1987 [Lazaroa 7: 106-107, 116-117].

1h. *Senecioni-Cytisetum oromediterranei* subass. *genistetosum cinerascentis* (Rivas-Martínez & al. 1987) *comb. nova*

Nomenclatural type: Rivas-Martínez & al., *op. cit.*: 120, tab. 6: rel. 6. 1987 (holotype).

Basionym: *Junipero-Cytisetum oromediterranei* subass. *genistetosum cinerascentis* Rivas-Martínez & al. 1987 [Lazaroa 7: 107, 120].

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8. Validating the alliance *Agrostio-Stipion giganteae*

The alliance *Agrostio-Stipion giganteae* has remained invalid till now, because the various conditions for valid publication have not been simultaneously fulfilled across a relatively long number of works concerning the syntaxon and their subordinate associations.