Taxonomic changes in the genus *Dyscia* (Lepidoptera: Geometridae: Ennominae)

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**Abstract.** This paper presents a revision of the genus *Dyscia* Hübner, [1825] (Lepidoptera, Geometridae: Ennominae). Examination of types and additional material for most described taxa has resulted in several new synonyms: *Dyscia ilivolans* Wehrli, 1953 **syn. n.**, and *Dyscia duanjiao* Yang, 1978 **syn. n.** are new synonyms of *Dyscia fagaria* (Thunberg, 1784); *Dyscia karsholti* Wiltshire, 1991 **syn. n.** is a new synonym of *Dyscia galactaria* Turati, 1934; *Dyscia doestana* Wehrli, 1934 **syn. n.** is a new synonym of *Dyscia malatyana* Wehrli, 1934, and *Dyscia rjabovi* Wardikjan, 1957 **syn. n.** is a new synonym of *Dyscia negrama* Wehrli, 1953. One taxon, formerly treated as a species is reassigned to subspecific level, *Dyscia conspersaria* sp. s. *sultanica* Wehrli, 1936 **stat. rev.**, *Dyscia innocentaria* sicamaria (Oberthür, 1923) **stat. n.**, and *Dyscia malatyana* senecai Wiltshire, 1990 **stat. n.** are downgraded to subspecies-level. On subspecies-level, *Dyscia distinctaria* perdistincta Herbulot, 1957 **syn. n.** is a new synonym of *Dyscia distinctaria* (Bang-Haas, 1910), *Dyscia fagaria* alvarensis Wahlgren, 1913 **syn. n.**, *Dyscia fagaria* albolescens Lempke, 1952 **syn. n.**, *Dyscia fagaria* fusca Lempke, 1952 **syn. n.**, and *Dyscia fagaria* postdelineata Lempke, 1952 **syn. n.** are new synonyms of *Dyscia fagaria*. *Dyscia fagaria* psoricaria (Eversmann, 1848) **syn. n.** is a new synonym of *Dyscia fagaria* favillacea (Hübner, [1799]), *Dyscia holli* duponti Thierry-Mieg, 1910 **syn. n.** is a new synonym of *Dyscia holli* (Oberthür, 1910), *Dyscia malatyana* nachadira Brandt, 1941 **syn. n.**, and *Dyscia malatyana* theodoraria Warnecke, 1941 **syn. n.** are new synonyms of *Dyscia malatyana* albersaria Warnecke, 1940 **stat. n.**, and *Dyscia penularia* naevata Wehrli, 1953 **syn. n.** is a new synonym of *Dyscia penularia* (Hübner, [1819]). Lectotypes for 22 taxa and neotypes for three taxa – *Geometra conspersaria* [Denis & Schiffermüller], 1775, *Geometra favillacea* Hübner, [1799], and *Geometra enucidaria* Hübner, [1813] – are designated. One species is excluded from *Dyscia*, *Thysanopyga* serena (Dognin, 1906) **comb. n.** From a total of 72 previously described taxa, 19 are recognized as species.

**INTRODUCTION**

The palearctic Gnophini genus *Dyscia* Hübner, [1825] (Lepidoptera: Geometridae: Ennominae) contains, by present knowledge, 19 species, which occur on steppe land and along the margins of deserts of North-Africa, Arabia, and Asia, and at the south of Europe. Only one species, *Dyscia fagaria* (Thunberg, 1784), occurs further north to the countries, and a study by Erlacher & Trusch (1999) which deals with the phylogeny and distribution of the “*Dyscia conspersaria* F.[sic!]-group”. Wehrli (1950) grouped the *Dyscia* species mainly with features of the male genitalia into altogether eight subgenera. Later he assumed this grouping in his substantial contribution on palearctic Geometridae (Wehrli, 1953). The only zoogeographic studies which followed were a study by Wiltshire (1990) which contains a tabular survey of the *Dyscia* species of North African countries, and a study by Erlacher & Trusch (1999) which deals with the phylogeny and distribution of the “*Dyscia conspersaria* -group”. Herbulot (1981) described a new *Dyscia* species from Morocco. Wiltshire (1991, 1994) worked on North African and Arabian *Dyscia* and described the last discovered species in 1986 from Saudi Arabia.

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TREATMENT

Material

Besides the type material cited here, this study is based on approximately 2,500 collection-based specimens of *Dyscia*, and the study of the larvae of 12 species, which have been reared from the egg. Some 200 genital slides were made and studied. The deposition of the specimens additionally investigated, and all genital preparations are listed in Trusch & Erlacher (2001).

Acronyms

BMNH, The Natural History Museum, London; HERB, coll. C. Herbulot in ZSM; MNHU, Museum für Naturkunde der Humboldt-Universität, Berlin; MNHW, Naturhistorisches Museum, Wien; SMNH, Swedish Museum of Natural History, Stockholm; SMNK, Staatliches Museum für Naturkunde, Karlsruhe; ZFMK, Zoologisches Forschungsinstitut und Museum Alexander Koenig, Bonn; ZISP, Zoological Institute, St.-Petersburg; ZMUA, Zoological Museum University of Amsterdam; ZMUC, Zoological Museum University of Copenhagen; ZSM, Zoologische Staatssammlung, München.

THE GENUS *DYSCIA* HÜBNER, [1825]

The moths of the genus *Dyscia* can externally be recognised by their characteristic shape. The individuals are medium-sized and coloured from pale grey to beige, with the exception of the reddish *Dyscia nobilaria* (Bang-Haas, 1906). Unlike other geometrids, the outer margin of the forewings is slightly concave. Another external character is the lack of the proboscis (cf. already Hulst, 1896: 366). In the male genitalia, the width to length ratio of the valvae distinguishes two types of genitalia, the high and the wide type (cf. Trusch & Erlacher, 2001). At the basis of the dorsal margins of the valvae, costal arms emerge medially. A further diagnostic feature is the loss of the uncus. The absence of an uncus occurs also in the genus *Aspitates* Treitschke, 1825 and *Siona* Duponchel, 1829. Therefore, this distinguishing mark is not an exclusive apomorphy to the genus *Dyscia*.

The female genitalia are small and often lacking differentiating features. Its components are for the most part weakly sclerotized. There are two types of corpus bursae, one is weakly sclerotized and the other solid and sculptured, and with very fine tubercles on the inner side of the corpus bursae. The larvae of all species possess a dorsal genitalia, the high and the wide type (cf. Trusch & Erlacher, 2001). In *Dyscia penulataria* (Hübner, [1819]), this feature is polymorphic, i.e. there are specimens with and without this structure. Finally, in *Dyscia lentiscaria* (Donzel, 1837) the process is doubled, as an alteration to this character.

Traditionally, the genus *Dyscia* is placed within the tribe Gnophini (Pierce, 1914, as Gnophinae), which is part of the subfamily Ennominae.

Generic synonymy

*Dyscia* Hübner, [1825]: 314. Type species: *Geometra conspersaria* (Denis & Schiffermüller), 1775: 106, by subsequent designation (Hulst, 1896: 366), but quoted as *conspersaria* F., incorrect authorship. *Psenothrix* Hübner, [1825]: 320. Type species: *Geometra belgaria* Hübner, [1799]: pl. 26, Fig. 140 (synonym of *Geometra fagaria* Thunberg, 1784), by subsequent designation (Hulst, 1896: 366).

= *Maesia* Stephens, 1831: 150. Type species: *Geometra favillacea* Hübner, [1799]: pl. 26, Fig. 139 (synonym of *Geometra fagaria* Thunberg, 1784), monotypic.


= *Zuleika* Bang-Haas, 1906: 141–142. Type species: *Scodiona nobilaria* Bang-Haas, 1906: 141–142, pl. 5, Fig. 13, monotypic.


= *Riaovavana* Wehrli, 1950: 80. Type species: *Dyscia nigrana* Wehrli, 1953: 667, pl. 52, Fig. 4h, by original designation.

Description of the type species *Dyscia conspersaria* (Denis & Schiffermüller, 1775)

**Male.** Forewing length 16–21 mm; basal colour whitish to white-brownish, suffused with dark scales. Melanistic individuals occur, which are sometimes completely brown and lack all markings. Discal spot orbicular or oval, filled with a paler colour, occasionally absent; basal line and postmedian line vary considerably between specimens, ranging from some vein markings to a continuous wavy line; median shadow occurs particularly in specimens from Asia Minor, but occasionally also in the remainder of the species range; suffused spots at the hind margin frequent, in most cases only slightly darker than the basal colour. Hindwing has the same basal colour as forewing; postmedian line continuous on hindwing in the way described above; small central spot point to comma-shaped, unfilled. Body in basal colour, thorax with paler scales in melanistic individuals. Femora, tibiae, tarsi in basal colour. Underside of wings whitish, partly shiny, the 2/5 towards the anterior margin of forewing brownish.
Central spots at the ventral side of forewing and hindwing and the outer line marking clear. Antennae bipectinate.

**Female.** Antennae filiform, otherwise as male.

**Male genitalia.** Of the high type (cf. Trusch & Erlacher, 2001). Valvae widened ventrally, especially specimens from Turkey have proximally somewhat lobus-shaped outgrowths. Complex of valvae rotated towards the median line, appearing very broad, but distally not widened. Dorsally, the costal arm is broadly attached at the base of the valvae. It is horn-shaped and bent inwards, with one terminal short tooth. Gnathos almost absent, only a very delicate structure. Transtilla proximally connected, the junction as a longitudinal fold, in preparation directed vertically. Saccus regulary rounded. Aedoeagus slender, s-shaped; with a bulge at ductus ejaculatorius; caudal end with two short teeth, otherwise without cornuti.

**Female genitalia.** Corpus bursae solid and sculptured, i.e. with very fine tubercles at the inner side of the corpus bursae. Ductus bursae tubular and short, about 1/4 length of corpus bursae and of constant diameter (approx. 1/2 of its length). Sterigma of the lamella postvaginalis narrow and high; laterally of this structure a bigger longitudinal fold on both sides, that leads towards the sterigma. On both sides of the ostium bursae are another five smaller longitudinal folds.

**The species and subspecies of Dyscia Hübner, [1825] Dyscia atlantica Reisser, 1933**

Dyscia (Scodiona) hispanaria ssp. atlantica Reisser, 1933: 49-51, pl. 11, Fig. 1-3, 5-7.

**Lectotype** 9, [Morocco], Sidi Chamarouche, Renayavallely, 2300 m, 28.VI.1932 (H. Dürck) coll. Reisser in coll. SMNK. Hereby designated in order to stabilise nomenclature. Paralectotype 2, id., 28.VI.1932 (H. Dürck) coll. Reisser in coll. SMNK. One Paralectotype-2 (id., 2.VII.1932) is missing.

**Additional material examined.** 28 9 9, 25 9 9, see appendix in Trusch & Erlacher (2001).

**Dyscia conspersaria conspersaria** ([Denis & Schiffermüller], 1775)

**Geometra conspersaria** [Denis & Schiffermüller], 1775: 106.

**Neotype** 9, Austria, Wien, Mödling, 28.V.1920 (L. Schwingenschuss), slide No. 86/1996 Erlacher, in coll. ZFMK. According to Art. 75 ICZN hereby designated.

**Remarks.** According to Article 75 and 76 ICZN, a Neotype is designated with the purpose of clarifying the taxonomic status of *Dyscia conspersaria* [Denis & Schiffermüller], 1775, particularly regarding the status of the taxon sultanica Wehrli, 1936. It is common knowledge that the collections of Denis and Schiffermüller were destroyed in Vienna in 1848 (e.g. Horn et al., 1990). The characters differentiating *Dyscia conspersaria* and the other *Dyscia* species are described in Trusch & Erlacher (2001), and the Neotype is figured there, pl. 1, Figs D, E and pl. 4, Fig. C. The relationships between the taxa *conpersaria* and *sultanica* are explained in the following.

**Ph[aena] Noct[ua] cuniculina Hübner, 1790:** 38, pl. 2/1, Fig. E.

Holotype, [Austria], Vienna district. Synonymised with *Fidonia conspersaria* by Treitschke (1827: 299). Type material lost.


**Syntypes, [Austria], Vienna district and [Italy], area around Florence, ex coll. Gerning. No type material remains in coll. Gerning in state collection of Wiesbaden (Germany) or the coll. Esper in ZSM (cf. Hacker, 1999). Unjustified emendation of *cuniculina* Hübner, 1790.

Scodiona conspersaria ab. mediumbrararia Preissecker, 1930: (17), Fig. 1.

Lectotype 9, [Austria, north-east of Vienna], Neu­Aigen, Schmidawiesen 23.VI.1928 ([F. Preissecker]) in coll. MNHW (cf. Horn et al., 1990). Infrasubspecific, not available.

**Dyscia conspersaria turturaria** (Boisduval, 1840)

**Scodiona conspersaria turturaria** Boisduval, 1840: 185.

**Syntype(s), [France], Digne, July.** The Geometrid type material of Boisduval should be in coll. ZFMK, but the type is missing.

**Dyscia conspersaria sultanica** Wehrli, 1936 stat. rev.

**Dyscia conspersaria ssp. sultanica** Wehrli, 1936: 36, pl. 2, Fig. 5.

**Lectotype** 9, [Turkey], Asia min., Aksichir, Sultan Daghs, 17–2200 m, 1–15.VII.1934 (E. Pfeiffer), slide No. 85/1996 Erlacher, in coll. ZFMK. Hereby designated in order to stabilise nomenclature. Paralectotypes, id., 1 9 slide No. 7378 Wehrli, id., 1 9 slide No. 80/1996 Trusch, id., 9 9 in coll. ZFMK.

**Remarks.** *Dyscia sultanica* Wehrli, 1936 is treated here as a subspecies of *Dyscia conspersaria*. Already Albers & Warnecke (1940:122) had stated that in Asia Minor *Dyscia conspersaria* occurs, but in the form *sultan[sic]!*. Wehrli (1953: 659) gave a number of characters which led him to regard *sultanica* as a species, all of which are, however, gradual and not clearly definable. He indicated a difference in the shape of the costal arm of the valva as well as a wider gnathos and a differently-shaped saccus as characters distinguishing *sultanica* from *conpersaria*. Wehrli (1953) subsequently gave the bifurcation at the tip of the costal arm as the only qualitative difference in the genitalia, a feature which is not clear from an examination of his material nor of material examined by the present authors.

This facts are particularly true of animals from Asia Minor which show a wide range of variation (cf. Trusch & Erlacher, 2001). Thus, in Anatolia there occur not only whitish-brown moths on which the description of *sul-
Dyscia distinctaria

Dyscia crassipunctaria

NHMW. Elevated to species rank by Albers & Warneck e (1940-1941: 1047).

Dyscia distinctaria

Dyscia crassipunctaria

gen. autumn.

tated in order to stabilise nomenclature. Paralectotypes, e.g. Insula Creta, Assites, 800 m, 1.X.1961: 1

paratypes, e.g. Insula Creta, Assites, 800 m, 1.X.1961: 1

kn. Known, however, about the degree of separation of those

between the populations of Anatolia and Europe. Less is

the Balkans indicates a strong geographical isolation

more contrasting pattern of the forewings which also fre­

quently have a median shade. The absence of findings in

fresh data calls for a new interpretation, together with the

more contrasting pattern of the forewings which also fre­

quently have a median shade. The absence of findings in


Additional material examined.

99 δ, 79 Ψ, see appendix in Trusch & Erlacher (2001).

Dyscia crassipunctaria (Rebel, 1916)

Scodiona conspersaria ssp. crassipunctaria Rebel, 1916: 140, pl. 4, Figs. 5.

Lectotype δ, Hagia Varvára, 8.V.[1903] (M. Holtz) in coll. NHMW (= Fig. 5, Rebel 1916). Hereby designated in order to stabilise nomenclature. Paralectotypes, Sphákia, 26.III.[1904]: 1 Ψ, Mélábaes, 19.V.[1904]: 1 δ, (Dörfler), Asiátes, 28.V.[1903]: 1 δ, 1 Ψ (M. Holtz), Neápolis, beginning of VI.[1904]: 1 δ (H. Rebel), in coll. NHMW. Elevated to species rank by Albers & Warneck e (1940: 120).

Dyscia crassipunctaria gen. autumn. phthinopora


Holotype δ (examined), Creta occid., 150 m, Výrýsses, 30.IX.1959 in coll. Reisser in SMNK. A large series of paratypes, e.g. Insula Creta, Assites, 800 m, 1.X.1961: 1 δ, Ano Archánes, 520 m, Creta centr., 4.X.1961: 1 δ, id., Knossos, 150m, 7.X.1959: 1 δ, etc., in coll. Reisser in SMNK. Autumn-generation, infrasubspecific, not available.

Additional material examined. 8 δ, 9 Ψ plus 520 not individually registered specimens in coll. Reisser in SMNK, see appendix in Trusch & Erlacher (2001).

Dyscia distinctaria (Bang-Haas, 1910)

Scodiona lenticaria var. distinctaria Bang-Haas, 1910: 49.


Syn. n.

Holotype δ (examined), Espagne, Prov. de Sevilla, Hinojos, 1.IV.1956 ([Y. de Lajonquière]) in coll. HERB in ZSM.

Additional material examined. 12 δ, 4 Ψ, see appendix in Trusch & Erlacher (2001).

Dyscia dodonaeeti Wiltshire, 1986

Dyscia dodonaeeti Wiltshire, 1986: 285, Fig. 109.

Holotype δ (examined), [Southwest] Saudi Arabia, 80 km N Abhal, Baljurushi, Dodonae-Juniper Zone, 9.IV.1983 (A. R. Pittaway) coll. Wiltshire in BMNH. Redescription by Wiltshire (1994: 119, 121, Fig. 16; p. 127, Figs 3, 4).

Additional material examined. 6 δ, see appendix in Trusch & Erlacher (2001).

Dyscia fagaria fagaria (Thunberg, 1784)

Geometra fagaria Thunberg, 1784: 7.


Geometra belgiaria Hübner, 1790: 92, pl. 4/2, Fig. N.

Syntype(s), Holland [Netherlands]. Synonymised with Scodiona fagaria by Staudinger & Rebel (1901: 355). Type material lost.


Syntype(s), Belgium. Whereabouts of the type material unknown. Incorrect subsequent spelling, not available. Hübner adopted the incorrect subsequent spelling of Borkhausen (1794): Geometra belgiaria Hübner [1799]: pl. 26, Fig. 140. However, Geometra belgiaria Hübner, [1799] is type species of Psednothrix Hübner, [1825] 1816: 320, by subsequent designation (Hulst, 1896: 366), and should be mentioned for this reason.

Phalaena mediopunctaria Donovan, 1808: 59, pl. 461, Fig. 1.

Syntype(s), [United Kingdom]. Synonymised by Prout (1915: 408) with Scodiona fagaria. Type material in coll. BMNH (cf. Horn et al., 1990).

Scodiona fagaria var. alvarensis Wahlgren, 1913: 166.

Syn. n.

Syntypes δ, [Sweden], Öland Island, typ e material probably in coll. Zoological Institute University of Lund (cf. Horn et al., 1990). Infrasubspecific.

Dyscia fagaria (belgiaria) ab. signata Cockayne, 1942: 35, pl. 2, Fig. 6.

Holotype Ψ (examined), New Forest (F. Gulliver) in coll. BMNH. A melanic individual form of the female. Infrasubspecific, not available.

Syntype(s) δ ə, [Netherlands], type material probably in coll. ZMUA (cf. Horn et al., 1990). A whitish form of the male, infrasubspecific.


Syntype(s) ♂ ♀, [Netherlands], type material probably in coll. ZMUA (cf. Horn et al., 1990). A melanic form of the female, infrasubspecific.


Two Syntype(s) ə ə, [Netherlands], type material probably in coll. ZMUA (cf. Horn et al., 1990). Individual form, infrasubspecific.

* Dyscia fagaria favillaceaaria (Hübner, [1799])

Geometra favillaceaaria Hübner, [1799]: pl. 26, Fig. 139.


Remarks. According to Article 75 and 76 ICZN, a Neotype is designated with the purpose of clarifying the taxonomic status of *Dyscia fagaria favillaceaaria* (Hübner, [1799]), particularly regarding the status of the taxon *psoricaria* Eversmann, 1848. It is common knowledge that the Lepidoptera-types of Hübner were destroyed in Vienna in 1848 (e.g. Horn et al., 1990). *Dyscia fagaria favillaceaaria* is the geographic race from Central Europe to East Asia.

*Boarmia psoricaria* Eversmann, 1848: 221. Syn. n.

Lectotype ə, [Russia, Lower Volga], (E. Eversmann), labelled “Calma”, slide No. 97/1996 Trusch, in coll. ZISP. Hereby designated in order to stabilise nomenclature. Paralectotype δ, id., (E. Eversmann) in coll. ZISP. Described from one male and one female, the male without abdomen. Synonymised with Scodiona belgaria by Staudinger (1871: 173).

* Dyscia fagaria favillaceaaria ab. fleischmanni Rebel, 1910: (17), Fig. 4.


Lectotype ə, [China]. Kulduja [Yining (Gulja)], 1886 ([H. Christoph]), slide No. 95/1996 Trusch, in coll. ZFMK. Hereby designated in order to stabilise nomenclature. Paralectotype δ, [China/Kasachstan]. Ili region, slide No. 7402 Wehrli, in coll. ZFMK.

Remarks. Of *Dyscia ilivolans* Wehrli, 1953, the female lecto- and the male paralectotype were examined (see above). Further specimens of the taxon have not been identified up to now but may have been mixed up with *Dyscia malatyana* (cf. Viidalepp, 1979 and 1988: 142). The two type specimens have been determined as *Dyscia fagaria*. The differential features given by Wehrli (1953: 662), “gnathos as in *malatyana* but somewhat shorter and more slender”, “saccus as is *malatyana*” and “costal arm of valva rather ‘intermediate’” particularly are not correct. Wehrli indicates that “the structure of the genitalia is intermediate between *Dyscia malatyana* and *Dyscia fagaria*”, which cannot be confirmed here.

There is a wide range of variation in colouring and pattern in *Dyscia fagaria*. All external characters of the taxon *ilivolans* given by Wehrli (1953) are described from characteristically aged collection-specimens of *Dyscia fagaria*, the only material, which was available to Wehrli at the time of his description. *Dyscia ilivolans* Wehrli, 1953 is therefore synonymized with *Dyscia fagaria* (Thunberg, 1784). The consubspecific assignment of the taxon *ilivolans* Wehrli, 1953 to *Dyscia fagaria favillaceaaria* Hübner, [1799] is based on the outer phenotype of the specimens, especially the grey-brownish basal colour of the wings and the lack of the elements rich in contrast typical in this subspecies.

* Dyscia duanjiao Yang, 1978: 392, pl. 20, Fig. 13. Syn. n.


Remarks. *Dyscia duanjiao* Yang, 1978 was described from the north-east of China by Yang (1978: 392). Comparing *Dyscia duanjiao* and *Dyscia fagaria*, the only diagnostic character mentioned by Yang (1978) is the shorter antennae of the taxon described by him. The name, *duanjiao*, is derived from a Chinese word, meaning “short horn”, referring in the case to “short antenna”. So, the antenna in *Dyscia fagaria* should be about ½ of the length of the forewing costa. In contrast, the antenna in *Dyscia duanjiao* measures only half this length. The material examined here shows, however, that the length of the antenna in *Dyscia fagaria* generally is about half the length of the forewing costa (cf. Trusch & Erlacher, 2001). Furthermore, a smaller discal spot and a different shape of the postmedian line, insignificant differences, are given by Yang (1978) for his material, two males. These supposed differences are within the range of variation of *Dyscia fagaria*, which varies greatly across its huge distribution area from Western Europe to the Amur. Even the shape of Yang’s illustration (1978: pl. 20, Fig. 13) appear identical with *Dyscia fagaria*, especially in specimens from Mongolia and China examined here (cf. Trusch & Erlacher, 2001: 81–82). Therefore *Dyscia duanjiao* Yang, 1978 must be regarded as a junior synonym of *Dyscia fagaria* (Thunberg, 1784). The consubspecific assignment of the taxon *duanjiao* Yang, 1978 to *Dyscia fagaria favillaceaaria* Hübner, [1799] is based on the outer phenotype of the specimens, see above.

* Dyscia fagaria emucidaria (Hübner, [1813])

Geometra emucidaria Hübner, [1813]: pl. 82, Fig. 425.
Neotype ♂, [South France]. Basses Alpes, Env. de Digne, 1910 (V. Cotte), slide No. 81/1996 Trusch, in coll. ZFMK. According to Art. 75 ICZN hereby designated. Remarks. According to Art. 75 ICZN, a neotype for the taxon Geometra emucidaria Hübner, [1813] is designated, in order to clarify the taxonomic status of the above cited Fig. 425 of Jacob Hübner. His Lepidopterists were destroyed in Vienna in 1848 (e.g. Horn et al., 1990). After a long period, during which the taxon emucidaria was considered to be a good species, a controversy concerning its status began in 1950. Dyscia emucidaria was then synonymised with Dyscia fagaria (Thunberg, 1784) by Lucas (1950: 94), but at that time he did not designate a neotype. Warnecke (1959: 4) then interpreted the questionable illustration of Hübner as a synonym of Dyscia fagaria (Hübner, [1819]). As a result, the Dyscia penulataria, which has more rounded tips to the forewings, was then synonymised with Scodiona fagaria v. (ab.) (Thunberg, 1784) by Lucas (1950: 94), but at that time he did not designate a neotype. Warnecke (1959) suggested the conservation of the name Dyscia emucidaria. Therefore Warnecke (1959) suggested the conservation of the name dyscia emucidaria, but he did not invoke the plenary power of the Commission according to article 79 ICZN to suppress the older name emucidaria. Since the type material no longer exists, a further discussion about its identity lacks any scientific basis. Therefore, according to Lucas (1950), Dyscia emucidaria is seen here as representing specimens of Dyscia fagaria from Central and Southwest France, especially since an opinion regarding the identity of Dyscia fagaria and Dyscia emucidaria has already been given in the literature (Hackray et al., 1984). Furthermore, the pointed forewing shape of the individual of Fig. 425 strongly supports the opinion that there has been illustrated a specimen of Dyscia fagaria, and not of Dyscia penulataria, which has more rounded tips to the forewings. The characters which differentiate Dyscia fagaria and the other Dyscia species are described in Trusch & Erlacher (2001), and the valva of the Neotype of Geometra emucidaria Hübner, [1813] is figured there, pl. 1, Fig. R. The fixation of the taxon Dyscia emucidaria Hübner, [1813] by the neotype designated here should end the controversy concerning the interpretation of this name and prevent the synonymisation of the common name Dyscia penulataria Hübner, [1819].

Dyscia fagaria albidaria (Staudinger, 1871)

Scodiona fagaria v. (ab.) albidaria Staudinger, 1871: 173.

Lectotype ♂, [Western France], Vendée, ex coll. Staudinger, in coll. MNHU. Hereby designated in order to stabilise nomenclature. Paralectotypes, id., 2 ♂♂, 2 ♀♀ ex coll. Staudinger, in coll. MNHU. Described with geographic relation, available.

Dyscia fagaria ab. nigerrima Durand, 1934: 170–175.

Holotype ♂, [Western France], Longeville, 13.IX.1931, coll. Durand not traced. Melanic form of the male. Infrasubspecific, not available.

Additional material of Dyscia fagaria examined. 218 ♂♂, 95 ♀♀, see appendix in Trusch & Erlacher (2001).

Dyscia galactaria Turati, 1934

Dyscia galactaria Turati, 1934: 180, pl. 3, Fig. 16.

Holotype ♀ (examined), [Libya], Cyrenaica, R. U. Agrario Mechili, 100 km S of Derna, 27.III.[1933?] (G. C. Krüger), slide No. 89/1996 Erlacher, via coll. Wehrli in coll. ZFMK.


Holotype ♂ (examined), [Tunisia], 20 km S of Gabès, 18.–19.III.1985 (Zool. Mus. Copenhagen Exp.), slide No. WCM.18 Wiltshire, in coll. ZMUC. Paralectotype ♂ (examined), id., slide No. WCM.15/Geometridae genitalia slide No. 15024, in coll. BMNH.

Remarks. Described from the Libyan Cyrenaïka, the female holotype of Dyscia galactaria Turati, 1934 was the only one known specimen of this species until 1998. From the western neighbouring country Tunisia, Dyscia karsholti, of which up to 1997 only two males were known, was described in 1991 by Wiltshire. In 1997, three further males, and in 1998 at last also a female, were captured as a result of two expeditions to Tunisia, done in the context of this work. The comparison of the genital-architecture of the female with the holotype of Dyscia galactaria showed, that Dyscia karsholti Wiltshire, 1991 is a junior synonym of Dyscia galactaria Turati, 1934. Altogether, the specimens referred to here are the only ones known to date (cf. Trusch & Erlacher, 2001).

Additional material examined. 3 ♂♂, 2 ♀♀, see appendix in Trusch & Erlacher (2001).

Dyscia holli (Oberthür, 1910)

Scodiona holli Oberthür, 1910: 676, pl. 51, Fig. 431.

Holotype ♂ (examined), Algeria, Lavaranve, 1.V.1908 (E. Holl), slide No. Wehrli 7387, ex coll. Wehrli in coll. ZFMK.


Scodiona albirosea Rothschild, 1911: 232.

Holotype ♂, Algeria, Bou Saada (V. Faroult) in coll. BMNH. Synonymised with Dyscia holli by Prout (1915: 408).

Scodiona holli f. austauti Oberthür, 1923: 265, pl. 560, Fig. 4810.

Holotype ♀ (examined), Morocco, Moyen Atlas, Kasba Tadla (Alluaud) ex coll. Wehrli in coll. ZFMK. Described as a form of Morocco. Synonymised with Dyscia holli by Zerny (1935: 94).

Additional material examined. 8 ♂♂, 13 ♀♀, see appendix in Trusch & Erlacher (2001).
**Dyscia innocentaria innocensia** (Christoph, 1885)

**Aspilates innocentia** Christoph, 1885: 125, pl. 6, Fig. 5.

*Lectotype* ?, [Turkmenistan], Ashchabab, Achal-Tekke district, near Nuchur, 16.VI. (H. Christoph), slide No. 96/1996 Trusch, in coll. ZISP. Hereby designated in order to stabilise nomenclature. Only one female is left of the original type material, 1 δ and 2 ♀ ♀ (Lvovsky in litt., 1996).

**Dyscia innocentaria sicanaria** (Oberthür, 1923) stat. n.

Scodiona conspersaria var. sicmaria Oberthür, 1923: 261, pl. 557, Figs 4780, 4781.


*Dyscia sicanaria* was originally described as a geographic variation, and elevated to species rank by Warnecke (1941: 209).

**Remarks.** The synonymy of *Dyscia sicanaria* (Oberthür, 1923) and *Dyscia innocentaria* (Christoph, 1885) was made here, had already been suggested by Warnecke (1923) and other authors.

1. A different wing: body proportion and a “marking similar to *Perconia*”. – More than 300 specimens examined during the present study show a wide range of variation in pattern and shape of the wings, and indicate that these are not diagnostic characters (cf. Trusch & Erlacher, 2001).

2. The ventral process of the valva in *Dyscia innocentaria* (the eastern form is meant), is shorter, wider, and with more spines on the distal area. – These features appear, however, also in animals examined by us from Italy, the original area of *Dyscia sicanaria* and the central Asian animals cannot be separated on these characters.

3. In the comparison of *Dyscia innocentaria* and *Dyscia sicanaria*, the notch of valva is more shallow, rounded-rectangular, not acute-angled. Gnathos shorter and more slender. Aedeagus distally broader, with a more slender distal clasp. Saccus “less deeply concave”, its margin nearly straight, caudal with a much weaker lead. – These differences have to be put down to the individual differences in the slides of the two males, examined by Wehrli (artefacts by pressure, cf. slide No. 7375 and 7376 Wehrli in coll. ZFMK).

Further the examination of a number of animals in both sexes from Turkmenistan, Turkey and Italy has also failed to yield specific differences between these animals. None of the alleged differentiating features for the taxon *innocentaria* given by Wehrli (1953) are diagnostic. Consequently *Dyscia innocentaria* (Christoph, 1885) is a senior synonym of *Dyscia sicanaria* (Oberthür, 1923). Because of its more bright basal colour and some differences in the marking of the wings, *Dyscia innocentaria sicanaria* (Oberthür, 1923) can be treated as a subspecies of *Dyscia innocentaria*, its range is South Europe.


*S.[scodiona] conspersaria permutata* Dannehl, 1933: 146.


*Dyscia osmanica sicula* Reisser in Albers & Warnecke, 1940: 119.

*Lectotype* δ, [Italy, Sicily], Mistretta, 1000 m, 17.–25.IX.1938 coll. Reisser in SMNK. Hereby designated in order to stabilise nomenclature. Paralectotypes, id., 34 δ δ, 14 ♀ ♀, coll. Reisser in SMNK. Assigned to *Dyscia sicanaria* by Warnecke (1941: 233). Individual form.

*Dyscia sicanaria scannaria distinctissima* Warnecke, 1941: 234, pl. 27, Fig. 2.


**Dyscia innocentaria osmanica** (Wagner, 1931)

Scodiona (Dyscia) conspersaria ssp. osmanica Wagner, 1931: 491, pl. 1, Figs 9, 10.

*Lectotype* δ, [Turkey], Asia min. c., 1.–15.VI. ex coll. Wagner in coll. NHMW. Hereby designated in order to stabilise nomenclature. Paralectotypes, id., 1 δ, id., 6.–31.VI. 1 ♀, ex coll. Wagner, in coll. NHMW. Synonymised with *Dyscia sicanaria* by Warnecke (1941: 209).

**Additional material of Dyscia innocentaria examined.** 164 δ δ, 125 ♀ ♀, see appendix in Trusch & Erlacher (2001).

**Dyscia lentiscaria lentiscaria** (Donzel, 1837)

Crocallis lentiscaria Donzel, 1837: 13, pl. 6, Figs 1, 2.

Two Syntypes, δ [France], Provence, Hyères, April (M. Foudras); 5 id., Monière 15.IV.1829 (M. Cantener & M. Donzel). Type material has been in coll. Testout (Lyon), and shown by him (1936: 47, pl. 2, Figs 22, 23), Present whereabouts is unknown.

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Dyscia lentiscaria agaeles (Oberthür, 1923)
Scodiona lentiscaria f. agaeles Oberthür, 1923: 261, pl. 558, Fig. 4782.


Additional material of Dyscia lentiscaria examined. 62 δ 51 ζ, see appendix in Trusch & Erlacher (2001).

Dyscia leucogrammaria (Püngeler, 1900)
Scodiona leucogrammaria Püngeler, 1900: 121, pl. 4, Fig. 6.


Additional material examined. 11 δ 2 ζ, see appendix in Trusch & Erlacher (2001).

Dyscia malatyana malatyana Wehrli, 1934
Dyscia malatyana Wehrli, 1934: 535, Fig. 19.

Holotype δ (examined), [Eastern Turkey], Asia min., Malatya-Tecde, IV (C. Höfer), slide No. 84/1996 Erlacher, in coll. ZFMK. Paratypes, 1 δ (examined) id., 26.V. (C. Höfer), slide No. 7371 Wehrli, in coll. ZFMK; 1 δ id., 21.V. (C. Höfer) probably in coll. BMNH.

Dyscia plebejaria dagestana Wehrli, 1934: 536, Fig. 20. Syn. n.

Lectotype δ, [Russia], Dagestan, Kumtorkale, 25.IX.[1926] (A. Rjabov), slide No. 82/1996 Trusch, in coll. ZFMK. Hereby designated in order to stabilise nomenclature. Paralecotypes, 1 δ slide No. 108/1997 Trusch, id., 30.IX.[1926] 1 δ slide No. 7372 Wehrli, (A. Rjabov) in coll. ZFMK.

Remarks. In the framework of Wehrli’s treatment of the Dyscia-group within the supplementary-volume of “Die Großschmetterlinge der Erde”, it had become clear that Dyscia plebejaria (Oberthür, 1910) and Dyscia plebejaria dagestana Wehrli, 1934, originally described without examination of their genital morphology, are not conspecific. However, after dissection of one male, Wehrli (1953: 661; slide No. 7372 Wehrli in coll. ZFMK) elevated dagestana to specific rank, and gave numerous conjectural differences from Dyscia malatyana: 1. male genitalia of dagestana considerably bigger, although the moths smaller, 2. different form of valva, basal half of valva slender, distal part of valva widened and approx. ½ larger as in Dyscia malatyana, 3. tegumen of dagestana “distinctly wider”, 4. process of valva more strong, 5. terminal thorn longer, 6. gnathos more slender, and 7. saccus anteriorly more flattened as in Dyscia malatyana. However, they are inappropriate or already decline within the variability of the material examined by Wehrli himself respectively, as shown by his slides (cf. Dyscia malatyana slide No. 7371, 7393; Dyscia malatyana nachadira slide No. 7410; Dyscia malatyana theodoraria slide No. 7384, and Dyscia malatyana dagestana slide No. 7372, all Wehrli in coll. ZFMK). The characters mentioned above are not clearly definable. With them, no group formation can be carried out in connection with broader features of the animals or their geographical distribution. The high variability of the colouring and pattern of body and wings in Dyscia malatyana does not allow a delimitation on the basis of external characteristics (vs. Wehrli, 1953: 661). As shown from the data of the type material of Dyscia dagestana, these are specimens of the second generation of Dyscia malatyana.

Dyscia malatyana albersaria Warnecke, 1940 stat. n.
Dyscia albersaria Warnecke, 1940: 1048, pl. 4, Fig. 41.


Dyscia malatyana theodoraria Brandt, 1941: 883, pl. 30, Fig. 47. Syn. n.

Lectotype δ, Iran, Baloutchistan, street Khach-Zahezedan, Fort Sengan, 1800 m, 30.IV.1938 (Brandt) in coll. SMNH. Hereby designated in order to stabilise nomenclature. Paralecotypes, 1 δ slide No. RMS 133 G. Ebert [preparation missing], 1 δ, Kouh i Taftan (Khach), 2000m, 30.IV.1938, 1 ζ, (Brandt), in coll. SMNH; Iran, Baloutchistan, Kouh i Taftan (Khach), 2500m, 29.IV.[1938] 1 δ slide No. 7410 Wehrli, id., IV. 1 ζ, street Khach-Zahezedan, Fort Sengan, 1800 m, 30.IV.1938 1 ζ, ex coll. Brandt, in coll. ZFMK; id., 1 δ slide No. G 4895 ZSM, ex coll. Hörhammer in coll. ZSM.

Dyscia malatyana f. theodoraria Warnecke, 1941: 245, pl. 28, Figs 3, 4. Syn. n.

Lectotype δ [Kazakhstan], Semiretshje, Dzarkent [Panfilov] ([H. Christoph]), slide no. 569 Warnecke, in coll. ZSM. Hereby designated in order to stabilise nomenclature. Paralecotypes, 1 ζ Turkestán, Ili area (coll. Tancré); 2 ζ, Transcaspien, Aschchabad, in coll. ZSM. 2 δ δ and 2 ζ ζ of the type series are missing. An individual form, infrasubspecific.

Dyscia malatyana senecai Wiltshire, 1990 stat. n.
Dyscia senecai Wiltshire, 1990: 355, Figs 1, 4, 12, 15.

Holotype δ (examined), Libya, Gharian, Wadi El Hira, III.1983 (U. Seneca), slide No. 114/1997 Erlacher, in coll. ZMUC. Paratypes (examined), id., 1 δ, 1 ζ in coll. BMNH; id., 1 δ, 1 ζ, both slide No. WCM.10, in coll. ZMUC.

Remarks. As a result of the material examined here, Dyscia senecai Wiltshire, 1990 should no longer be regarded as a good species. In his description, Wiltshire (1990: 355) gave only slight differences in the structure of the aedeagus as differentiating characters, in separating
his species from the extremely variable *Dyscia malatyana*. His arguments could not be supported, either by examination of the type material or of the further material studied here (cf. Trusch & Erlacher, 2001). The sand-yellow coloured animals from Libya, which were available to Wiltshire (1990) for his description of *Dyscia senecai*, do not show any differences from animals of the "Klapperich-gain" from Jordan examined by Hausmann (1991: 112), for example. These have been determined by Hausmann (1991) as *Dyscia malatyana*, in agreement with the determination carried out here of the same material. Also, new material collected here from Tunisia, having the phenotype of Wiltshire's *senecai*, had to be determined as *Dyscia malatyana*. If the mentioned sand-yellow colouring of the specimens from North Africa and the Middle East is seen as an evidence for a good subspecies, *senecai* can be treated as a subspecies of *Dyscia malatyana* of this region.

Additional material of *Dyscia malatyana* examined. 144 δ, 309 ♀, see appendix in Trusch & Erlacher (2001).

*Dyscia negrama* Wehrli, 1950

*Dyscia negrama* Wehrli, 1950: 80, Fig. 6.


Holotype δ, Armenia, Oktemberjan district, Cherbeklu, 3.V.1936 (Stscherbakowa) in coll. Zoological Institute, Academy of Sciences of Armenia.

Remarks. The type material of *Dyscia rjabovi* Wardikjan, 1957 is unavailable at present. However, the identical genital morphology of both taxa already emerges by comparing the figures of Wardikjan (1957: 137, Fig. 3 and 1985: 135, Fig. 1) with those of Wehrli (1950: 79, Abb. 6), and the examination of the genital structures here (cf. Trusch & Erlacher, 2001). Furthermore, there is correspondence in the colouring and at the pattern of the material examined here, the illustrations in Wehrli (1953: pl. 52, Fig. h), and the details at Wardikjan (1957: 135, 136, Fig. 1). Consequently, *Dyscia rjabovi* Wardikjan, 1957 is a junior synonym of *Dyscia negrama* Wehrli, 1950.

Beyond this, Wardikjan (1957: 135) notices that there is a "big series of the new species from Nachitscheswan, Darasham II, 22.V.1934" in the collection of the Zoological Institut of the Academy of Science of the former USSR. The type series of *Dyscia negrama* is part of this gain of Rjabov (cf. Wehrli, 1950: 80, Abb. 6 and 1953: 667).

Additional material examined. 7 δ, 13 ♀, see appendix in Trusch & Erlacher (2001).

*Dyscia nobilaria* (Bang-Haas, 1906)

*Scodiona nobilaria* Bang-Haas, 1906: 141, pl. 5, Fig. 13.

Lectotype δ, [Tunisia, Gourine, south-east of Gabès] in coll. MNHU. Hereby designated in order to stabilise nomenclature. Paralectotypes, South Oran, ex coll. Bang-Haas, 1 ♀, in coll. MNHU; id., 1 δ (= Fig. 439 Oberthür, 1910) ex B. Haas 1908 in coll. ZFMK. One male of the type series is missing.

Additional material examined. 27 δ, 23 ♀, see appendix in Trusch & Erlacher (2001).

*Dyscia penulataria penulataria* (Hübner, [1819])

*Geometra penulataria* Hübner, [1819] (1796): pl. 98, Figs 507, 508.

Syntypes, [Southwest-Europe]. Type material lost.

*Scodiona hispanaria* Millière, 1866: 265, pl. 79, Figs 5–9.

Syntypes, Spain. Type material is possibly in coll. NHMW, however not traceable (cf. Horn et al., 1990). Synonymised with *Scodiona penulataria* by Staudinger (1871: 174).


Described non binominal by Rambur (1866: pl. 17, Fig. 4), validated by Gumppenberg (1896). Holotype δ (examined), [South-Spain], Granada, ex musaeo P. Ram­bur, in coll. HERB. Synonymised with *Dyscia penulata­ria* by Prout (1915: 408).

*Scodiona trabucaria* Oberthür, 1923: 265, pl. 560, Figs 4815–4818.

Lectotype δ (= Fig. 4815 Oberthür), [France], Pyrénées-Orientales, Ille-sur-la-Tet, mi-Septembre 1909 (H. Powell) (23), slide No. Wehrli 7383, via coll. Wehrli in coll. ZFMK. Hereby designated in order to stabilise nomenclature. Paralectotypes, id., δ (Fig. 4817 Oberthür), id., ♀ (Fig. 4818 Oberthür), id., St.-Paul-de-Fenouillet et Grottes de Galamus, Septembre 1909 (H. Powell) (24), 1 δ (= Fig. 4816 Oberthür), via coll. Wehrli in coll. ZFMK. Synonymised with *Dyscia penulataria* by Wehrli (1953: 663).


Lectotype δ, Algeria, Hammam Righa, April 1928 (J. Staettermayer) in coll. ZFMK. Hereby designated in order to stabilise nomenclature. Paralectotypes, id., Mai 1928, 1 δ, 1 ♀, (J. Staettermayer) in coll. ZFMK. Described by Wehrli (1953) with geographic relation, however, we regard it infrasubspecific.

*Scodiona hispanaria* v. eisenbergeri Hörhammer, 1959: 1.

1 For unknown reasons, the type material was retained (cf. Wehrli, 1953: 667). Now, the Lectotype and five of the paralectotypes are given back to ZISP (Stuning, pers. comm.).
**Dyscia raunaria** (Oberthür, 1910)


**Dyscia penulataria combustaria** (Oberthür, 1923)

Scodiona combustaria Oberthür, 1923: 265, pl. 560, Figs 4811–4814.

Lectotype δ (= Fig. 4811 Oberthür), Algeria, Lambése, Avril 1914, slide No. 7389 Wehrli, via coll. ZFMK, designated by Wehrli (1953: 663). Paralecotypes, id., Mai 1912: 1 ♂ (= Fig. 4812 Oberthür), id., c.1.9.1914: 1 ♂ (= Fig. 4813 Oberthür), (H. Powell), Andalousie, 1 ♂ (= Fig. 4814 Oberthür) ex coll. Boisduval, via coll. Wehrli in coll. ZFMK. Treated as subspecies of Dyscia penulatariata of Northwest-Africa by Wehrli (1953: 663).

Additional material of Dyscia penulatariata examined. 69 δ ♂, 72 ♀, see appendix in Trusch & Erlacher (2001).

**Dyscia plebejaria** (Oberthür, 1910)

Zuleikaplebejaria Oberthür, 1914: 386.

Holotype δ, [Algeria], Prov. Sebdou, El Aouedje, près Sebdou, 27 et 28 août 1907 (H. Powell) via coll. Wehrli in coll. ZFMK. Designated by Culot (1920: 153, pl. 69, Fig. 1371 = Fig. 437 Oberthür). Paralecotypes, id., 1 ♀ slide No. 58/1996 R. Trusch, id., Sebdou, 18.II.1881, 1 ♂ (Codet), slide No. 7373 Wehrli, via coll. Wehrli in coll. ZFMK. The other 14 type specimens are missing.

Enconistanela varia Oberthür, 1914: 386.


Additional material examined. 32 δ ♂, 8 ♀, see appendix in Trusch & Erlacher (2001).

**Dyscia raunaria** (Freyer, [1851])

Cabera raunaria Freyer, [1851]: 160, pl. 582, Figs 3, 4.

Syntypes δ, 2, [Slovenia], Karst near Raunach [Ravne near Gorizia]. For the identity of the type locality cf. Hafner (1912: 200); “it is Raunach near St. Peter at the Karst [Sempter pri Gorici]”. The whereabouts of the type material is unknown.

Scodiona conspersaria raunaria ab. integeraria Schawerda, 1920: 97.

Holotype ♀, Croatia, Zengg. Type material in coll. NHMW (cf. Horn et al., 1990). Whitish form, infrasubspecific, not available.

Scodiona conspersaria raunaria ab. obscuraria Schawerda, 1920: 97.

Syntypes δ ♂, [Bosnia-Herzegovina], Mostar, 25.V.1914. Type material in coll. NHMW (cf. Horn et al., 1990). Darkened form, infrasubspecific, not available.

Scodiona conspersaria raunaria ab. splichali Hafner, 1912: 200, pl. 2, Fig. 22. Holotype ♀, [Slovenia], Krain (J. Splichal), present whereabouts of the type is unknown. Infrasubspecific, not available.

Dyscia raunaria vernalis Warnecke, 1941: 232. No type material, name for the first generation. Described as infrasubspecific unit, therefore according to ICZN 46.6.4 not available.

Additional material examined. 57 δ ♂, 38 ♀, see appendix in Trusch & Erlacher (2001).

**Dyscia rungsi** Herbulot, 1981

Herrich-Schäffer, 1855 (Scoble after Pitkin, in litt., 1998).

Dyscia rungsi Herbulot, 1981: 95, Fig 1.

Holotype δ (examined), Maroc, Tuneliat, 25.II.1937, ex coll. Lucas, Paratype δ (examined), Maroc, ex coll. L. Radot, slide No. 4698 Herbulot, in coll. HERB.

**Dyscia simplicaria** Rebel, 1939

Dyscia (Scodiona) simplicaria Rebel, 1939: 539, pl. 15, Fig. 8.

Holotype δ (examined), Cyprus, Limassol, 14.IX.1928 (Mavromoustakis) in coll. NHMW. Re-description by Wiltshire (1948: 87, Fig. C).

Additional material examined. 4 δ ♂, 3 ♀, see Trusch & Erlacher (2001).

SPECIES TO BE EXCLUDED FROM THE GENUS **DYSCI** HÜBNER, [1825]

**Thysanopyga serena** (Dognin, 1906) comb. n.

Dyscia serena Dognin, 1906: 118.

Described by Dognin (1906) as a Dyscia-species. For the time being, the taxon is better placed to Thysanopyga Herrich-Schäffer, 1855 (Scoble after Pitkin, in litt., 1998).

CONCLUSIONS

Since the last review of the group by Wehrli (1953), according to other authors and as a result of this revision, altogether five of the Dyscia taxa hitherto regarded as species have to be synonymised. Wiltshire (1990) synonymised Dyscia nelvaria with Dyscia plebejaria, a revision with which the present authors are in agreement. Lucas (1950: 94) had already assigned Dyscia emucidaria to Dyscia fagaria, but this was ignored in Wehrli’s above-mentioned review. Lucas’ opinion is substantiated here by the designation of a neotype.

Six further species have been assigned to the genus Dyscia since Wehrli’s revision (1953). However, only two of these are confirmed in this paper – Dyscia rungsi and Dyscia dodonaeeti. In this article, Dyscia dagestana and Dyscia senecai are synonymised with Dyscia malatiana, Dyscia ilivolans and Dyscia duanjiao with Dyscia fagaria, and Dyscia sicanaria with Dyscia innocentaria. Dyscia sultanica is restored as a subspecies of Dyscia conspersaria.

So, altogether 28 species-taxa were placed within Dyscia before this study. Of these nineteen remain, five are recognised as new synonyms, two are treated as subspecies of already known species, and one taxon is reas-
signed to subspecific level. In addition, *Dyscia serena* (Dognin, 1906), described from South America, is provisionally transferred to *Thysanopyga* Herrich-Schäffer, 1855.

**Synonymic list of valid species-level names in the genus *Dyscia*, [1825]**

Because a phylogenetic analysis is in preparation (Erlicher & Trusch in prep.) the reassignment of species is carried out in alphabetical order without assignment to subgenera. The range of the species or subspecies respectively is indicated.

*Dyscia atlantica* Reisser, 1933 – Morocco

*Dyscia conspersaria* – Europe up to Asia Minor
  *Dyscia conspersaria conspersaria* ([Denis & Schiffermüller], 1775) – Southern Central Europe to Eastern Europe
  = *cuniculina* (Hübner, [1790])
  = *cunicularia* (Esper, [1803])
  *Dyscia conspersaria turturaria* (Boisdruval, 1840) – Southeast-France
  *Dyscia conspersaria sultanica* Wehrli, 1936 stat. rev. – Asia Minor

*Dyscia crassipunctaria* (Rebel, 1916) – Crete

*Dyscia distinctaria* (Bang-Haas, 1910) – Iberian Peninsula
  = *perdistincta* Herbulot, 1957 syn. n.

*Dyscia dodonaeeti* Wiltshire, 1986 – Southwest-Arabia

*Dyscia fagaria* – Europe to East Asia
  *Dyscia fagaria fagaria* (Thunberg, 1784) – Northwestern Europe to Central Europe
  = *belgaria* (Hübner, [1790])
  = *belgaria* (Borkhausen 1794) (Hübner, [1799])
  = *mediopunctaria* (Donovan, 1808)
  = *alvarensis* (Wahlgren, 1913) syn. n.
  = *signata* Cockayne, 1942
  = *albecens* Lempke, 1952 syn. n.
  = *fuscus* Lempke, 1952 syn. n.
  = *postdelineata* Lempke, 1952 syn. n.
  *Dyscia fagaria favillacea* (Hübner, [1799]) – Central Europe to East Asia
  = *psorica* (Eversmann, 1848) syn. n.
  = *fleischmanni* (Rebel, 1910)
  = *ilvolans* Wehrli, 1953 syn. n.
  = *dhanjiang* Yang, 1978 syn. n.

*Dyscia fagaria emucidaria* (Hübner, [1813]) – Southeast and Central France

*Dyscia fagaria albida* (Staudinger, 1871) – South-West France

*Dyscia galactaria* Turati, 1934 – Middle North-Africa
  = *karsholfi* Wiltshire, 1991 syn. n.

*Dyscia hollii* (Oberthür, 1910) – Northwest Africa
  = *duponti* (Thierry-Mieg, 1910) syn. n.
  = *albirosa* (Rothschild, 1911)
  = *austauti* (Oberthür, 1923)

*Dyscia innocentaria* – South Europe to Central Asia
  *Dyscia innocentaria innocentaria* (Christoph, 1885) – Central Asia
  *Dyscia innocentaria sicanaria* (Oberthür, 1923) stat. n.
  = *scannaria* (Dannehl, 1933)
  = *sicula* Reisser, 1940
  *Dyscia innocentaria osmanica* (Wagner, 1931) – Asia Minor

*Dyscia lentiscaria* – Northwest Africa to Southeast France
  *Dyscia lentiscaria lentiscaria* (Donzel, 1837) – Southwest Europe
  *Dyscia lentiscaria agakes* (Oberthür, 1923) – Northwest Africa

*Dyscia leucogrammaria* (Püngeler, 1900) – Central Asia

*Dyscia malatayana* – Palaeartic Southwest to Central Asia and North Arabia to North Africa

*Dyscia malatayana malatayana* Wehrli, 1934 – Asia Minor up to the Caspian Sea region
  = *dagestana* Wehrli, 1934 syn. n.
  *Dyscia malatayana albersaria* Warnecke, 1940 stat. n. – Central Asia to Iran
  = *nachadira* Brandt, 1941 syn. n.
  = *theodoraria* Warnecke, 1941 syn. n.
  *Dyscia malatayana senecai* Wiltshire, 1990 stat. n. – North Africa to North Arabia

*Dyscia negrama* Wehrli, 1950 – Asia Minor to Central Iran
  = *rjabovi* Wardikjan, 1957 syn. n.

*Dyscia nobilaria* (Bang-Haas, 1906) – North Africa

*Dyscia penulataria* – North Africa to South France

*Dyscia penulataria penulataria* (Hübner, [1819]) – Southwestern Europe
  = *hispanaria* (Millière, 1866)
  = *rubentaria* (Gumppenberg, 1896)
  = *trubecaria* (Oberthür, 1923)
  = *naevata* Wehrli, 1953 syn. n.
  = *eisenbergeri* Hörfhammer, 1959

*Dyscia penulataria combustaria* (Oberthür, 1923) – North Africa

*Dyscia plebejaria* (Oberthür, 1910) – Northwest Africa
  = *nelvaria* (Oberthür, 1914)

*Dyscia raunaria* (Freyer, [1851]) – South Europe

*Dyscia rungsi* Herbulot, 1981 – Morocco

*Dyscia simplicaria* Rebel, 1933 – Cyprus

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