Taxonomical status and species composition of the little known genus *Agnoea* Walsingham, 1907 (Lepidoptera: Gelechioidea: Lypusidae)

Таксономический статус и видовой состав малоизвестного рода *Agnoea* Walsingham, 1907 (Lepidoptera: Gelechioidea: Lypusidae)

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The previously monotypic genus *Agnoea* Walsingham, 1907 is shortly reviewed. The following synonymy is established: *Agnoea* Walsingham, 1907 = *Pseudatemelia* Rebel, 1910, **syn. nov.** = *Tubulifera* Spuler, 1910, **syn. nov.** = *Tubuliferola* Strand, 1917, **syn. nov.** = *Tubuliferodes* Toll, 1956, **syn. nov.** (as a subgenus); *Agnoea aeneella* (Rebel, 1910) = *Borkhausenia chalcocrates* Meyrick, 1930, **syn. nov.** The genus *Agnoea* is restricted to the Palearctic region and includes the following nineteen species: *Agnoea aeneella* (Rebel, 1910), **comb. nov.**; *A. amparoella* (Vives, 1986), **comb. nov.**; *A. colurnella* (Mann, 1867), **comb. nov**.; *A. detrimentella* (Staudinger, 1859), **comb. nov.**; *A. elsae* (Svensson, 1982), **comb. nov.**; *A. filiella* (Staudinger, 1859), **comb. nov.**; *A. flavifrontella* ([Denis et Schiffermüller], 1775), **comb. nov.**; *A. fuscifrontella* (Constant, 1885), **comb. nov.**; *A. josephinae* (Toll, 1956), **comb. nov.**; *A. kurentzovi* (Lvovsky, 2001), **comb. nov.**; *A. langohri* (E. Palm, 1990), **comb. nov.**; *A. latipennella* (Jäckh, 1959), **comb. nov.**; *A. lavandulae* (Mann, 1855), **comb. nov.**; *A. pallidella* (Jäckh, 1972), **comb. nov.**; *A. semifuscata* (Walsingham, 1911), **comb. nov.**; *A. subgilvida* (Walsingham, 1901), **comb. nov.**; *A. subochreella* (Doubleday, 1859), **comb. nov.**; *A. synchrozella* (Jäckh, 1959), **comb. nov.**; *A. xanthosoma* (Rebel, 1900), **comb. nov.** Lectotype is designated for *Borkhausenia chalcocrates* Meyrick, 1930. The annotated list of species of *Agnoea* (including information on type material and distribution, as well as nomenclatural comments) is given.

Определены таксономический статус и видовой состав рода *Agnoea* Walsingham, 1907, ранее считавшегося монотипическим. Установлена следующая синонимия: *Agnoea* Walsingham, 1907 = *Pseudatemelia* Rebel, 1910, **syn. nov.** = *Tubulifera* Spuler, 1910, **syn. nov.** = *Tubuliferola* Strand, 1917, **syn. nov.** = *Tubuliferodes* Toll, 1956, **syn. nov.** (как подрод); *Agnoea aeneella* (Rebel, 1910) =*Borkhausenia chalcocrates* Meyrick, 1930, **syn. nov.** Род *Agnoea* насчитывает девятнадцать исключительно палеарктических видов: *Agnoea aeneella* (Rebel, 1910), **comb. nov.**; *A. amparoella* (Vives, 1986), **comb. nov.**; *A. colurnella* (Mann, 1867), **comb. nov**.; *A. detrimentella* (Staudinger, 1859), **comb. nov.**; *A. elsae* (Svensson, 1982), **comb. nov.**; *A. filiella* (Staudinger, 1859), **comb. nov.**; *A. flavifrontella* ([Denis et Schiffermüller], 1775), **comb. nov.**; *A. fuscifrontella* (Constant, 1885), **comb. nov.**; *A. josephinae* (Toll, 1956), **comb. nov.**; *A. kurentzovi* (Lvovsky, 2001), **comb. nov.**; *A. langohri* (E. Palm, 1990), **comb. nov.**; *A. latipennella* (Jäckh, 1959), **comb. nov.**; *A. lavandulae* (Mann, 1855), **comb. nov.**; *A. pallidella* (Jäckh, 1972), **comb. nov.**; *A. semifuscata* (Walsingham, 1911), **comb. nov.**; *A. subgilvida* (Walsingham, 1901), **comb. nov.**; *A. subochreella* (Doubleday, 1859), **comb. nov.**; *A. synchrozella* (Jäckh, 1959), **comb. nov.**; *A. xanthosoma* (Rebel, 1900), **comb. nov.** Обозначен лектотип для *Borkhausenia chalcocrates* Meyrick, 1930. Приведен аннотированный список видов *Agnoea* (включая информацию о типовом материале и распространении, а также замечания по номенклатуре).

Key words: gelechioid moths, taxonomy, Palaearctic region, Lepidoptera, Gelechioidea, Lypusidae, *Agnoea*, new synonyms, lectotype designation

Ключевые слова: гелехиоидные моли, таксономия, палеарктика, Lepidoptera, Gelechioidea, Lypusidae, *Agnoea*, новые синонимы, обозначение лектотипа

The genus *Agnoea* Walsingham, 1907 (type species *Blastobasis evanescens* Walsingham, 1901) was described in the family Blastobasidae (Walsingham, 1907) and then transferred to Oecophoridae (Walsingham and Durrant, 1909; Fletcher, 1929). Later on, this generic name was overlooked, even in "The Generic Names of Moths of the World" (Nye & Fletcher, 1991). As the result, the genus was not listed in "The Lepidoptera of Europe" checklist, in which its type species was retained in the genus *Blastobasis* Zeller, 1855 (Riedl, 1996). Recently the genus *Agnoea* was again excluded from Blastobasidae and transferred to Lypusidae (Sinev, 2014).

The type specimen of the above-mentioned type species was studied by J. Nel (2012), who synonymized this species to *Pseudatemelia fuscifrontella* (Constant, 1885), which was described from nearly the same locality at Corsica as *B. evanescens*. Based on several synapomorphies, such as conical uncus and jug-shaped aedeagus, we consider *Pseudatemelia fuscifrontella* as congeneric with *Pseudatemelia aeneella* Rebel, 1910, type species of the genus *Pseudatemelia* Rebel, 1910. Thus, the latter generic name proves to be a junior subjective synonym of *Agnoea* Walsingham, 1907.

Following the Principle of Priority (ICZN, 1999: Art. 23), all species previously placed in *Pseudatemelia* are considered in a new combination with *Agnoea*. We do not see the reason to apply to ICZN for conservation of the generic name *Pseudatemelia*, because this name was commonly uses since 1972 only, and all species of this genus are poorly known, have no economic importance, and were so far mentioned mostly in the faunistic publications and catalogues.

The exclusively Palaearctic genus *Agnoea* has been partly revised (as *Tubulifera* or *Pseudatemelia*) in the past (Toll, 1956; Jäckh, 1959; Jaeckh, 1972), mainly on the basis of the European material. Since then, several new species were described (Svensson, 1982; Vives, [1986]; Palm, 1990; Lvovsky, 2001), and now the genus includes 19 species, 17 of which occur in Europe (Lvovsky, 1996, 2013), and 5, in Russia (Lvovsky, 2006). Below we list all species of *Agnoea*, providing their synonymy, distribution data and the information about the type material.

Genus ***Agnoea*** Walsingham, 1907,
Proc. U.S. natn. Mus., 33: 200.

= *Pseudatemelia* Rebel, 1910, Verh. zool.-bot. Ges. Wien, 60: (29). Type-species *Pseudatemelia aeneella* Rebel, 1910, by monotypy. **Syn. nov.**

= *Tubulifera* Spuler, 1910, Schmett. Eur., 2: 345. Type-species *Tinea flavifrontella* [Denis et Schiffermüller], 1775, by monotypy. A junior homonym of *Tubulifera* Zopf, 1885 (Protozoa); in Schenk, Handb. Botanik, 3(2): 173. **Syn. nov.**

= *Tubuliferola* Strand, 1917, Int. entomol. Z., 10: 137. Type-species *Tinea flavifrontella* [Denis et Schiffermüller], 1775, by monotypy. An objective replacement name for *Tubulifera* Spuler, 1910. **Syn. nov.**

= *Tubuliferodes* Toll, 1956, Annls zool., Warsz., 16: 185. Type-species *Tubuliferola josephinae* Toll, 1956, by monotypy. As a subgenus of *Tubuliferola* Strand, 1917. **Syn. nov.**

Type-species [*Blastobasis*] *evanescens* Walsingham, 1901, by original designation.

Agnoea* (*Agnoea*) *aeneella (Rebel, 1910), **comb. nov.**

Pseudatemelia aeneella Rebel, in Rebel et Schawerda, Verh. zool.-bot. Ges. Wien, 60: (29) (1910).

Borkhausenia chalcocrates Meyrick, Exot. Microlepid., 3 (18): 574 (1930). **Syn. nov.**

Type locality. Croatia ("[Istria], Monte Maggiore"). Types in the Naturhistorisches Museum, Wien (Austria).

Material examined. Lectotype (male, right pair of wings absent) of *Borkhausenia chalcocrates* Meyr., designated here, with labels: "*Borkhausenia chalcocrates* Meyr."; "Meyrick det."; "Velebit. Ostaria, 12.6.1910, M. Hilf, Coll. O. Leonhard"; "Syntypus"; "Lectotype, Gen. prep. № 2, design. Lvovsky". Paralectotype (male, without abdomen) of *Borkhausenia chalcocrates* Meyr., with the same original labels except of date (14.6.1910). Types are deposited in the Senckenberg Deutsches Entomologisches Institut, Müncheberg (Germany).

Distribution. Bosnia and Herzegovina, Croatia.

Remarks. The species is similar to *Agnoea colurnella* (Mann, 1867), from which differs by smaller size, darker coloration of the wings, and large setose process at the base of valva (Fig. 1).

Agnoea (*Agnoea*) *amparoella* (Vives, 1986), **comb. nov.**

Pseudatemelia amparoella Vives, SHILAP Revta. Lepid., 1985, 13: 254–255 (1986).

Type locality. Spain ("provincia de Pontevedra, Moscoso"). Types in the Museo Nacional de Ciencias Naturales, Madrid (Spain).

Distribution. Spain, Portugal.

Agnoea (*Agnoea*) *colurnella* (Mann, 1867), **comb. nov.**

Oecophora colurnella Mann, Verh. zool.-bot. Ges. Wien, 17: 843 (1867).
Oecophora pulverosella Heinemann, Schmett. Deutschl. u. Schweiz, 2: 377 (1870).
Pseudatemelia colurnella: Jaeckh, Entomologica, 8: 139 (1972).

Type locality. Italy ("bei Bozen"). Types in the Museo di Storia Naturale, Trento (Italy).

Distribution. Southern France, Italy, Switzerland.

Remarks. *Oecophora pulverosella* Heinemann was tentatively synonymized with *Oecophora colurnella* Mann by Jäckh (1959). The type material by Heinemann was not found yet and presumed to be lost; however, both a comparison between the original descriptions and proximity of their type localities ("Kalditsch" in Southern Tyrol for *Oe. pulverosella*) supports this synonymy.

Agnoea (*Agnoea*) *detrimentella* (Staudinger, 1859), **comb. nov.**

Oecophora detrimentella Staudinger, Stett. entomol. Ztg., 20: 247 (1859).
Pseudatemelia detrimentella: Vives, SHILAP Revta. Lepid., 13 (1985): 260 ([1986]).

Type locality. Spain (Granada).

Material examined. Holotype (male, abdomen missing) with labels: "*detrimentella* Stgr."; "Origin."; "Granada m."; "Holotypus, *Pseudatemelia detrimentella* (Staudinger, 1859), teste Lvovsky"; "Zool. Mus. Berlin". Type in the Museum für Naturkunde der Humboldt-Universität zu Berlin (Germany).

Distribution. Spain, Portugal.

Remarks. This species externally resembles *A. filiella*, but differs by larger size, the brownish-grey coloration of the head and almost straight ventral margin of valva near its apex (Fig. 2).

Agnoea (*Agnoea*) *filiella* (Staudinger, 1859), **comb. nov.**

Oecophora filiella Staudinger, Stett. entomol. Ztg., 20: 247 (1859).
Borkhausenia blidella Chrétien, Annls Soc. ent. Fr., 84: 344 (1915).
Pseudatemelia filiella: Jaeckh, Entomologica, 8: 139 (1972).

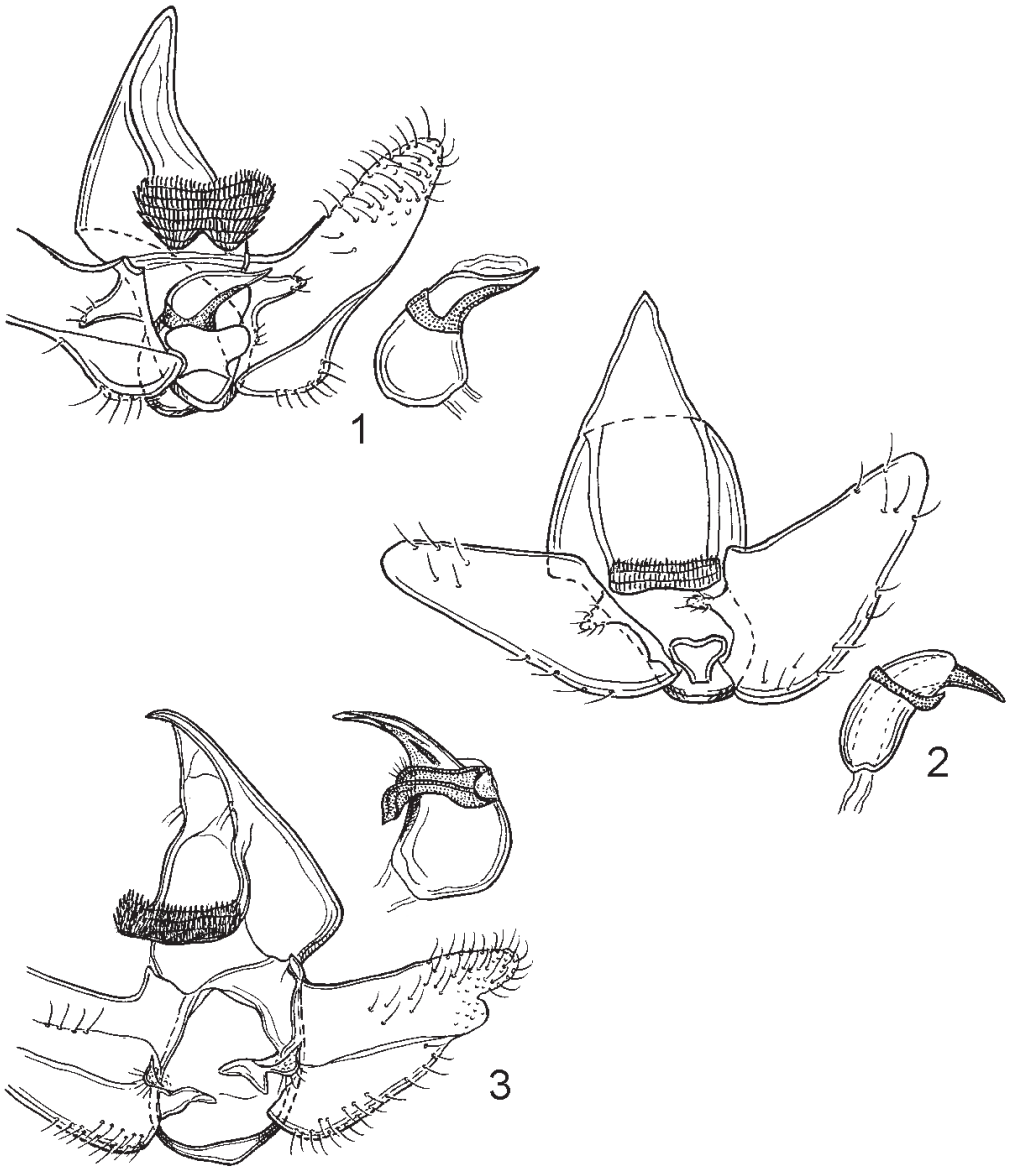
Type locality. Spain (Granada).

Material examined. Lectotype (male) with labels: "*filiella* Stgr."; "Origin."; "Granada m."; "16/6"; "Granada, 16/6, filiella Stgr., E. Jäckh, 1958 "; "Lectotypus *Tubuliferola filiella* (Stgr.), E. Jäckh"; "Zool. Mus. Berlin". Paralectotype (male, without abdomen) with the same labels.

Types in the Museum für Naturkunde der Humboldt-Universität zu Berlin (Germany).

Distribution. Spain, southern France.

Remarks. *Agnoea filiella* is similar to *A. semifuscata* (Walsingham), from which differs by the yellow vertex and by uniformly colored forewings. In addition, *A. filiella*



Figs 1–3. *Agnoea*, male genitalia: **1**, *A. chalcocrates*, lectotype, Velebit; **2**, *A. detrimentella*, Albarracin; **3**, *A. filiella*, lectotype, Granada.

has ventral projection at the apex of valva shorter than dorsal one (Fig. 3), whereas in *A. semifuscata* both projections are of equal length (Jäckh, 1959). *Borkhausenia blidella* Chrétien described from Blida (Algeria) was synonymized with this species by Leraut (1989).

Agnoea* (*Agnoea*) *flavifrontella ([Denis et Schiffermüller], 1775), **comb. nov.**

Tinea flavifrontella [Denis et Schiffermüller], Ankund. Syst. Werkes Schmett. Wienergegend: 143 (1775).

Pseudatemelia flavifrontella: Jaeckh, Entomologica, 8: 139 (1972).

Type locality. Austria ("Wienergegend"). Types lost.

Distribution. Norway, Denmark, Sweden, Finland, Estonia, Latvia, Lithuania, Poland, Ukraine, Russia (European part), Czechia, Slovakia, Germany, The Netherlands, Great Britain, Belgium, France, Italy, Switzerland, Austria, Hungary, former Yugoslavia, Romania, Bulgaria, Albania, Turkey, Iran.

Agnoea (*Agnoea*) *fuscifrontella* (Constant, 1885), **comb. nov.**

Oecophora fuscifrontella Constant, Annls Soc. ent. Fr. (6e ser.), 4: 262, t. 10, f. 24 (1885).
Blastobasis(?) *evanescens* Walsingham, Entomol. month. Mag., 37: 182 (1901).
Agnoea evanescens: Walsingham, Proc. U.S. natn. Mus., 33: 200 (1907).
Pseudatemelia fuscifrontella: Jaeckh, Entomologica, 8: 139 (1972).

Type locality. France: Corsica (Corte). Type in the Museum national d'Histoire naturelle, Paris (France).

Material examined. Holotype (female) of *Blastobasis(?) evanescens* Walsingham with labels: "Type H.T."; "Vizzavona, Corsica, 12.vi.1899 Wlsm. 84150"; Walsingham Collection 1910-427"; "*Blastobasis*(?) ♀ *evanescens*, Wlsm. Ent. Mo. Mag. XXXVII.182 (1901)"; "AGNOEA Wlsm. (type evanescens Wlsm.) Wlsm. Pr. US Nat. Mus. 33. 200 (1907), Ent. Mo. Mag. 45, 965 (1909) / Type ♀ descry. 84150". Type in the Natural History Museum, London (UK).

Distribution. France (Corsica), Italy (Sardinia).

Agnoea (*Agnoea*) *kurentzovi* (Lvovsky, 2001), **comb. nov.**

Pseudatemelia kurentzovi Lvovsky, Zool. Zhurn., 80 (12): 1465–1466 (2001).

Type locality. Russia (Primorsky Territory, middle stream of Bol'shaya Ussurka River). Types in the Zoological Institute of the Russian Academy of Sciences, St Petersburg (Russia).

Distribution. Russia (Primorsky Territory, Amurskaya Oblast').

Agnoea (*Agnoea*) *latipennella* (Jäckh, 1959), **comb. nov.**

Tubuliferola latipennella Jäckh, Dt. ent. Ztschr. Berlin (N.F.), 6: 182 (1959).
Pseudatemelia latipennella: Jaeckh, Entomologica, 8: 139 (1972).

Type locality. Germany ("Kyffhäuser Gebirge, Kattenburg"). Types in the Zoologische Staatssammlung, Munich (Germany).

Distribution. Denmark, Czechia, Slovakia, Germany, The Netherlands, Belgium, Luxemburg, France, Austria.

Agnoea (*Agnoea*) *lavandulae* (Mann, 1855), **comb. nov.**

Oecophora lavandulae Mann, Verh. zool.-bot. Ver. Wien, 5: 562 (1855).
Oecophora ardosiella Constant, Bull. Soc. ent. Fr. (6e serie), 9: cxxv (1889); Annls Soc. ent. Fr. (6 serie), 10: 10 (1890).
Borkhausenia pulverisquamis Walsingham, Entomologist's monthl. Mag., 34: 133 (1898).
Pseudatemelia lavandulae: Jaeckh, Entomologica 8: 139 (1972).

Type locality. France (Corsica). Types in the Naturhistorisches Museum, Wien (Austria).

Distribution. France (Corsica), Italy (Sardinia).

Remarks. *Oecophora ardosiella* Constant and *Borkhausenia pulverisquamis* Walsingham, both described from Corsica, were synonymized with *Oecophora lavandulae* Mann by Walsingham (1901).

Agnoea (*Agnoea*) *pallidella* (Jaeckh, 1972), **comb. nov.**

Pseudatemelia pallidella Jaeckh, Entomologica, 8: 136 (1972).

Type locality. Italy ("Basilicata, Prov. Potenza, Mte Vulture, Umgebung von Monticchio"). Types in the Entomologischen Institut in Bozen (Italy).

Distribution. Italy.

Agnoea (*Agnoea*) *semifuscata* (Walsingham, 1911), **comb. nov.**

Borkhausenia semifuscata Walsingham, Entomologist's monthl. Mag., 47: 189 (1911).

Pseudatemelia semifuscata: Jaeckh, Entomologica, 8: 140 (1972).

Type locality. Algeria ("Algerien, Philippeville"). Types in the Natural History Museum, London (UK).

Distribution. Algeria.

Agnoea (*Agnoea*) *subgilvida* (Walsingham, 1901), **comb. nov.**

Borkhausenia subgilvida Walsingham, Entomologist's monthl. Mag., 37: 41 (1901).
Borkhausenia gypsozyga Meyrick, Exot. Microlepid., 4: 118 (1931).
Pseudatemelia subgilvida: Jaeckh, Entomologica, 8: 140 (1972).

Type locality. France (Corsica, Corté). Types in the Natural History Museum, London (UK).

Distribution. France (Corsica).

Remarks. *Oecophora gypsozyga* Meyrick, described from nearly the same locality (Corsica: Bocognano) as *Tubuliferola subgilvida* Walsingham, was synonymized with the latter species by Leraut (1989).

Agnoea (*Agnoea*) *subochreella* (Doubleday, 1859), **comb. nov.**

Oecophora subochreella Doubleday, Syn. List Brit. Butterflies & Moths: 31 (1859).
Pseudatemelia subochrella: Karsholt & Nielsen, Cat. Lepid. Denmark: 30 (1976).
Batia panzerella auct., nec Fabricius, 1794.

Type locality. Great Britain. Types in the Natural History Museum, London (UK).

Distribution. Denmark, Sweden, Czechia, Slovakia, Germany, The Netherlands, Great Britain, Belgium, France, Spain, Italy, Switzerland, Austria, Hungary, Romania, Albania, Russia (northern Caucasus), Georgia, Azerbaijan, Morocco, Turkey.

Agnoea (*Agnoea*) *synchrozella* (Jäckh, 1959), **comb. nov.**

Tubuliferola synchrozella Jäckh, Dt. ent. Ztschr. Berlin (N.F.), 6: 180 (1959).
Pseudatemelia synchrozella: Jaeckh, Entomologica, 8: 140 (1972).

Type locality. Germany ("Mittenwald, Brunstein"). Types in the Zoologische Staatssammlung, Munich (Germany).

Distribution. Slovakia, Germany, France, Italy, Switzerland, Austria, Croatia, Slovenia, Romania.

Agnoea (*Agnoea*) *xanthosoma* (Rebel, 1900), **comb. nov.**

Borkhausenia xanthosoma Rebel, Dt. ent. Ztschr. "Iris", 13: 174 (1900).
Pseudatemelia xanthosoma: Jaeckh, Entomologica, 8: 140 (1972).

Type locality. Spain ("St. Ildefonso, Castilien"). Types in the Naturhistorisches Museum, Wien (Austria).

Distribution. Spain, Portugal.

Agnoea (*Tubuliferodes*) *elsae* (Svensson, 1982), **comb. nov.**

Pseudatemelia elsae Svensson, Ent. scand., 13: 295, fig. 2 A–C (1982).

Type locality. Sweden (Gotland, Hejdeby). Types in the Museum of Zoology, Lund University (Sweden).

Distribution. Norway, Sweden, Finland, Estonia, Latvia, Lithuania, Poland, Czechia, Slovakia, Austria, northern Italy, Hungary, Russia (Karelia, southern Ural).

Agnoea (*Tubuliferodes*) *josephinae* (Toll, 1956), **comb. nov.**

Tubuliferola josephinae Toll, Annls zool., Warsz., 16: 185 (1956).
Borkhausenia flavifrontella auct., nec [Denis et Schiffermüller], 1775.
Pseudatemelia josephinae: Jaeckh, Entomologica, 8: 139 (1972).

Type locality. Poland ("Kreis Cieszyn, Ustroń, Berg Równica"). Types in the Institute of Systematics and Evolution of Animals, Krakow (Poland).

Distribution. Norway, Denmark, Sweden, Finland, Estonia, Latvia, Lithuania, Poland, Czechia, Slovakia, Germany, The Netherlands, Great Britain, Belgium, Luxemburg, France, Italy, Switzerland, Aus-

tria, Hungary, former Yugoslavia, Romania, Russia (European part, southern Siberia, Primorsky Territory, Kuril Islands), Japan (Hokkaido).

Agnoea (*Tubuliferodes*) *langohri* (E. Palm, 1990), **comb. nov.**

Pseudatemelia langohri E. Palm, Nouv. revue Ent., 7 (4): 401 (1990).

Type locality. France ("Var, Massif de l'Esterel"). Holotype in the collection of G.R. Langohr in Simpelveld (The Netherlands).

Distribution. Southern France.

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