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Triassic of the Tethys Realm

Triassic brachiopods of the Northern Alps and their generic attributions

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The purpose of the following synopsis is to give a review of present generic assignment of the Triassic brachiopod species reported from the Northern Alps. Most of the species have not been revised since BITTNER's time, due to the relative scarcity of the new finds. The data concerning their occurrence in the area mentioned were taken from C. DIENER (1920). The indications from his catalogue were enriched by subsequent informations available to the present author. In any case, this synopsis can hardly be considered complete. It does not solve the problems of synonyms which certainly are common among the Triassic species.

A rather peculiar brachiopod fauna was described by O. GUGENBERGER (Sitzungsber. d. Akad. Wiss. 139, Wien, 1930) from the "Cardita-Schichten" near Launsdorf in Carinthia. This assemblage is difficult to comment without further detailed study and GUGENBERGER's species are not included in this synopsis.

aemulatrix [Rhynchonella aemulatrix BITTN.] = *Norella aemulatrix* (BITTNER, 1890)

alata [Koninckina alata BITTN.] = *Koninckina alata* BITTNER, 1890

altaplecta [Rhynchonella altaplecta BÖCKH] = *Caucasorhynchia altaplecta* (BÖCKH, 1873)

ambigua [Amphiclina ambigua BITTN.] = *Amphiclina ambigua* BITTNER, 1890

amoena [Amphiclina amoena BITTN.] = *Amphiclina amoena* BITTNER, 1890

amphitoma [Amphiclinodonta amphitoma ZUGMAYER (in coll.) BITTN.] = *Amphiclinodonta amphitoma*, BITTNER, 1890

amphitoma [Terebratula amphitoma BRONN] = *Halorella amphitoma* (BRONN, 1832)

ampla [Spiriferina ampla BITTN.] = *Mentzelia ampla* (BITTNER, 1890)

ancilla [Rhynchonella ancilla MOJS.] = *Halorella ancilla* (MOJSISOVICS, 1868)

angulifrons [Rhynchonella angulifrons BITTN.] = *Austriellula angulifrons* (BITTNER, 1890)

angusta [Terebratulites angustus Schl.] = *Silesiathyris angusta* (SCHLOTHEIM, 1820). It has not been proved, however, if the Tethyan "angusta" is identical with the Silesian species.

angustaeformis [Waldheimia angustaeformis BÖCKH] = *Angustothyris angustaeformis* (BÖCKH, 1873)

annexa [Rhynchonella annexa BITT.] = *Austriellula annexa* (BITTNER, 1890)

arara [Retzia Arara LAUBE] = *Hungarispira arara* (LAUBE, 1865)

associata [Rhynchonella associata BITT.] = *Austriellula associata* (BITTNER, 1890)

augusti [Rhynchonella Augusti BITT.] = "*Rhynchonella*" *augusti* BITTNER, 1890

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- ausseana* [Spirigera Ausseana BITTN.] = *Spirigerellina* (?) *ausseana* (BITTNER, 1890)
- austriaca* [Amphiclina austriaca BITTN.] = *Amphiclina austriaca* BITTNER, 1892
- austriaca* [Spirifer Münsteri var. austriaca SUESS, 1854]. The subspecies was referred by Dagys (1963, 1974) to *Lepismatina* as *Lepismatina austriaca*. According to Pearson (1977) "austriaca" is considered a junior synonym of *Zugmayerella uncinata* (SCHAFHÄUTL, 1851)
- austriaca* [Waldheimia austriaca ZUGM.] = *Zeilleria austriaca* (ZUGMAYER, 1880)
- bajuvarica* [Rhynchonella bajuvarica BITTN.] = "*Rhynchonella*" *bajuvarica* BITTNER, 1890
- beyrichi* [Waldheimia (Cruratula) Beyrichii BITTN.] = *Cruratula beyrichi* BITTNER, 1890
- bicarinarum* [Bactrynum bicarinatum EMMR.] = *Bactrynum bicarinatum* EMMERICH, 1855
- bittneri* [Retzia Bittneri TOULA] = "*Retzia*" *bittneri* TOULA, 1913
- blandula* [Koninckina blandula BITTN.] = *Koninckina blandula* BITTNER, 1890. The relation to the genus *Lamellokoninckina* Jing-Feng, 1977 is not quite clear.
- canaliculata* [Waldheimia (Aulacothyris) canaliculata BITTNER] = *Aulacothyris canaliculata* BITTNER, 1892
- carinthiaca* [Terebratula Carinthiaca ROTHPL.] = *Cruratula carinthiaca* (ROTHPLETZ, 1886)
- cassiana* [Spiriferina cassiana LAUBE] = *Mentzelia cassiana* (LAUBE, 1865)
- christomani* [Lingula Christomani SKUPHOS] = "*Lingula*" *christomani* SKUPHOS, 1893
- cellensis* [Discina cellensis SUESS] = "*Discina*" *cellensis* SUESS, 1854
- cinctella* [Waldheimia (? Aulacothyris) cinctella BITTN.] = *Babukella* (?) *cinctella* (BITTNER, 1892)
- coarctata* [Amphiclina coarctata BITTN.] = *Amphiclina coarctata* BITTNER, 1890
- cognata* [Amphiclina cognata BITTN.] = *Amphiclina cognata* BITTNER, 1890
- commendai* [Waldheimia (Aulacothyris) Commendai BITTN.] = *Camerothyris commendai* (BITTNER, 1890). Young specimen of "reascendens" BITTNER, 1890 ?
- compressa* [Waldheimia (Aulacothyris) compressa BITTN.] = *Aulacothyris compressa* BITTNER, 1892
- concordiae* [Rhynchonella Concordiae BITTN.] = "*Rhynchonella*" *concordiae* BITTNER, 1890. The species attributed to *Austrirhynchia* AGER, 1959 by PEARSON (1977)
- contraplecta* [Terebratula contraplecta MÜNST.] = *Euractinella contraplecta* (MÜNSTER, 1841)
- cornigera* [Terebratula cornigera SCHAFH.] = *Austrirhynchia cornigera* (SCHAFHÄUTL, 1851)
- crassula* [Amphiclinodonta crassula ZUGMAYER (in coll.) BITTN.] = *Amphiclinodonta crassula* BITTNER, 1890
- curvifrons* [Terebratula amphitoma curvifrons QUENST.] = *Halorelloidea curvifrons* (QUENSTEDT, 1871)
- cymbula* [?Thecidium cymbula BITTN.] = *Pomatospirella cymbula* (BITTNER, 1890). This very rare species of uncertain affinities was attributed by BITTNER (1892) to his new subgenus of *Spirigera*-*Pomatospirella*.

- damesi* [Waldheimia (Cruratula) Damesi BITTN.] = *Cruratula damesi* BITTNER, 1890
- davidsoni* [Thecospira Davidsonii (Suess nom. in coll.) BITTN.] = *Thecospira davidsoni* BITTNER, 1890
- debilis* [Terebratula debilis BITTN.] = "*Terebratula*" *debilis* BITTNER, 1890
- decurtata* [Terebratula decurtata GIR.] = *Decurtella decurtata* (GIRARD, 1843)
- deslongchampsii* [Spirigera Deslongchampsii SUESS] = "*Spirigera*" *deslongchampsii* SUESS, 1855
- dilatata* [Rhynchonella dilatata SUESS] = *Austriellula dilatata* (SUESS, 1855)
- discoides* [Patellites discoides SCHLOTH.] = "*Discina*" *discoides* (SCHLOTHEIM, 1822)
- dualina* [Waldheimia (Aulacothyris) dualina BITTN.] = *Aulacothyris* (?) *dualina* BITTNER, 1890
- dualis* [Waldheimia (Aulacothyris) dualis BITTN.] = *Camerothyris dualis* (BITTNER, 1890)
- dyactis* [Spirigera dyactis BITTN.] = *Tetractinella* (?) *dyactis* (BITTNER, 1892)
- elegantula* [Koninckina elegantula ZUGMAYER (in coll.) BITTN.] = *Koninckina elegantula* BITTNER, 1890
- elliptica* [Waldheimia elliptica ZUGM.] = *Zeilleria elliptica* (ZUGMAYER, 1880)
- emmrichi* [Pterophloios Emmrichi GÜMBEL, 1861] = recte *Bactrynum bicarinatum* EMMRICH, 1855
- emmrichi* [Spirifer Emmrichi SUESS] = *Sinucoستا emmrichi* (SUESS, 1854)
- eudora* [Waldheimia Eudora LAUBE] = *Cruratula eudora* (LAUBE, 1865)
- eudoxa* [Waldheimia (Cruratula) Eudoxa BITTN.] = *Cruratula eudoxa* BITTNER, 1890
- eurycolpos* [Spirigera eurycolpos BITTN.] = *Oxycolpella eurycolpos* (BITTNER, 1890)
- euryglossa* [Terebratula euryglossa BITTN., 1892] = most probably synonymous with *Lobothyris praepunctata* (BITTNER, 1890)
- familiaris* [Rhynchonella familiaris BITTN.] = "*Rhynchonella*" *familiaris* BITTNER, 1890
- fastosa* [Retzia Schwageri var. fastosa BITTN.] = young specimens of *Neoretzia superba* (SUESS)? Generic attribution of "fastosa" and some other retziids give rise to some doubts, the material studied being insufficient to make a decisive solution of the question possible.
- faucensis* [Rhynchonella faucensis ROTHPL.] = *Cruratula faucensis* (ROTHPLETZ, 1886)
- festiva* [? Waldheimia festiva BITTN.] = *Ornatothyrella festiva* (BITTNER, 1890)
- fischeri* [Lingula Fischeri SUESS] = "*Lingula*" *fischeri* SUESS, 1855
- fissicostata* [Rhynchonella fissicostata SUESS] = *Fissirhynchia fissicostata* (SUESS, 1854)
- fraasi* [Spiriferina Fraasii BITTN.] = *Mentzelia fraasi* (BITTNER, 1890)
- fragilis* [Terebratula fragilis SCHLOTH.] = *Punctospirella fragilis* (SCHLOTHEIM, 1814)
- frontalis* [Waldheimia (Aulacothyris?) frontalis BITTN.] = *Aulacothyris* (?) *frontalis* BITTNER, 1890
- fuggeri* [Rhynchonella Fuggeri BITTN.] = "*Rhynchonella*" *fuggeri* BITTNER, 1890

- generosa* [Rhynchonella *generosa* BITTN.] = "*Rhynchonella*" *generosa* BITTNER, 1890
- geyeri* [Rhynchonella *Geyeri* BITTN.] = *Norella geyeri* (BITTNER, 1890)
- gosaviensis* [Rhynchonellina *gosaviensis* KITTL] = *Rhynchonellina gosaviensis* KITTL, 1916
- gregaria* [Spiriferina *gregaria* SUESS] = *Sinucostra gregaria* (SUESS, 1867)
- gregaria* [Terebratula *gregaria* SUESS] = *Rhaetina gregaria* (SUESS, 1854)
- gregariaeformis* [Terebratula *gregariaeformis* ZUGM.] = *Triadithyris gregariaeformis* (ZUGMAYER, 1880)
- gümbeli* [Crania *Gümbeli* PICHLER] = *Thecospira gümbeli* (PICHLER, 1857)
- gümbeli* [Dimerella *Gümbelii* ZITT.] = *Dimerella gümbeli* ZITTEL, 1870
- guttula* [Rhynchonella *guttula* BITTN.] = *Norella guttula* (BITTNER, 1890)
- haberfelneri* [Amphiclina *Haberfelneri* BITTN.] = *Amphiclina haberfelneri* BITTNER, 1890
- hagar* [Terebratula (*Propygope* nov. subgen.) *Hagar* BITTN.] = *Propygope hagar* BITTNER, 1890
- haidingeri* [Thecidea *Haidingeri* SUESS] = *Thecospira haidingeri* (SUESS, 1854)
- halobiarum* [Spiriferina *halobiarum* BITTN.] = "*Spiriferina*" *halobiarum* BITTNER, 1890. According to DAGYS, 1974 belonging most probably to his new genus *Mentzelioides*.
- halophila* [Rhynchonella *halophila* BITTN.] = *Austriellula halophila* (BITTNER, 1890)
- halorica* [Rhynchonella *halorica* BITTN.] = *Austriellula halorica* (BITTNER, 1890). Maybe synonymous with "halophila".
- hecuba* [Rhynchonella *Hecuba* BITTN.] = "*Rhynchonella*" *hecuba* BITTNER, 1890
- hernsteinensis* [Amphiclina *Hernsteinensis* BITTN.] = *Amphiclina hernsteinensis* BITTNER, 1890
- hexagonalis* [Spirigera *hexagonalis* BITTN.] = *Tetractinella hexagonalis* (BITTNER, 1890)
- hirsuta* [Spirifer *hirsutus* ALB.] = *Hirsutella hirsuta* (ALBERTI, 1864)
- hofmanni* [Spirigera *Hofmanni* BITTN.] = *Dioristella hofmanni* (BITTNER, 1890)
- imitatrix* [Rhynchonella *imitatrix* BITTN.] = *Norella imitatrix* (BITTNER, 1890). Probably synonymous with "aemulatrix".
- indistincta* [Terebratula *indistincta* BEYR.] = *Dioristella indistincta* (BEYRICH, 1863)
- insignis* [Discina *insignis* GOETEL] = "*Discina*" *insignis* GOETEL, 1917
- insignis* [Koninckina *Leonhardi* var. *insignis* TOULA] = *Koninckina insignis* TOULA, 1913
- integrella* [Waldheimia (*Aulacothyris*) *integrella* BITTN.] = synonymous with "*cinctella*"?
- intercurrens* [Rhynchonella *intercurrens* BITTN.] = *Austriellula intercurrens* (BITTNER, 1890)
- intermixta* [Rhynchonella *intermixta* BITTN.] = *Austriellula intermixta* (BITTNER, 1890). Most probably the synonym of *A. halorica*.
- intervallata* [Terebratula *intervallata* BITTN.] = "*Terebratula*" *intervallata* BITTNER, 1892
- julica* [Terebratula *julica* BITTN.] = *Adygella julica* (BITTNER, 1890). JING-SUN (1976) included this species in their new genus *Tibetothyris*.

- juvavica* [Rhynchonella juvavica BITTN.] = *Austriellula juvavica* (BITTNER, 1890)
- juvavica* [Rhynchonellina juvavica BITTN.] = *Rhynchonellina juvavica* BITTNER, 1890
- juvavica* [Terebratula Sturi LAUBE var. juvavica BITTN., 1890] = synonymous with "*Terebratula*" *sturi* LAUBE, 1865?
- kastneri* [Rhynchonellina Kastneri BITTN.] = *Rhynchonellina kastneri* BITTNER, 1890
- kittli* [Juvavellina Kittli BITTN.] = *Juvavellina kittli* BITTNER, 1896
- kittli* [Rhynchonella Kittli BITTN.] = "*Rhynchonella*" *kittli* BITTNER, 1890
- kössenensis* [Spiriferina Kössenensis ZUGM.] = *Zugmayerella kössenensis* (ZUGMAYER, 1880)
- köveskalliensis* [Spiriferina Köveskályensis ŠTÚR] = *Koeveskallina köveskalyensis* (ŠTÚR, 1865)
- laevis* [Rhynchonella laevis SUESS] = *Austriellula laevis* (SUESS, 1855)
- laricimontana* [Terebratula laricimontana BITTN.] = "*Terebratula*" *laricimontana* BITTNER, 1890
- latiuscula* [Retzia latiuscula BITTN.] = "*Retzia*" *latiuscula* BITTNER, 1890
- leonhardi* [Producta Leonhardi MÜNST.] = *Koninckina leonhardi* (MÜNSTER, 1841). The relation to the genus *Lamellokoninckina* JING-FENG, 1977 is not quite clear.
- leopoldiaustriae* [Koninckina Leopoldi Austriae BITTN.] = *Koninckina leopoldiaustriae* BITTNER, 1890
- lepidula* [Amphiclinodonta lepidula BITTN.] = *Amphiclinodonta lepidula* BITTNER, 1890
- leptorhyncha* [Spirigera leptorhyncha BITTN.] = *Pexidella leptorhyncha* (BITTNER, 1890)
- lillii* [Rhynchonella Lillii BITTN.] = most probably synonymous with "*Rhynchonella*" *familiaris* BITTNER, 1890
- lingulina* [Rhynchonella lingulina BITTN.] = young specimens of *Austriellula pirum* (BITTNER, 1890)
- lipoldi* [Spiriferina Lipoldi BITTN.] = *Pseudospiriferina lipoldi* (BITTNER, 1890). According to JING-FENG (1977) was "lipoldi" chosen the type-species of *Pseudospiriferina* YANG-XU, 1966. Later on, DAGYS (1974) used the same species as the type-species of his new genus *Balatonospira*.
- longicollis* [Rhynchonella longicollis SUESS] = *Austriellula longicollis* (SUESS, 1855)
- lunata* [Spirigera lunata GUMB.] = "*Rhynchonella*" *lunata* (GUMBEL, 1861)
- lunzensis* [Amphiclina Lunzensis BITTN.] = *Amphiclina lunzensis* BITTNER, 1890
- lycodon* [Rhynchonella lycodon BITTN.] = "*Rhynchonella*" *lycodon* BITTNER, 1892
- magna* [Amphiclinodonta magna BITTN.] = *Amphiclinodonta magna* BITTNER, 1890
- manca* [Spiriferina manca BITTN.] = *Costispiriferina manca* (BITTNER, 1890)
- marmorea* [Spirigera marmorea BITTN.] = *Pexidella marmorea* (BITTNER, 1890)
- media* [Retzia Schwageri var. media BITTN.] = synonymous with "*fastosa*"?
- mentzeli* [Spirifer Mentzeli DUNK.] = *Mentzelia mentzeli* (DUNKER, 1851)
- mentzeli* [Terebratula Mentzelii v. BUCH] = "*Rhynchonella*" *mentzeli* (v. BUCH, 1843). The species was associated by DAGYS (1974, 1977) with his genus *Costirhynchopsis*.

- mimula* [Rhynchonella *mimula* BITTN.] = *Austriellula mimula* (BITTNER, 1890)
- misella* [Rhynchonella *misella* BITTN.] = "*Rhynchonella*" *misella* BITTNER, 1890
- mitzopuli* [Spiriferina *Mitzopuli* SKUPHOS] = "*Spiriferina*" *mitzopuli* SKUPHOS, 1892
- modesta* [Retzia *modesta* BITTN.] = "*Retzia*" *modesta* BITTNER, 1890
- mojsisovicsi* [Rhynchonella *Mojsisovicsii* BITTN.] = "*Rhynchonella*" *mojsisovicsi* BITTNER, 1890. The species based on one specimen only, maybe synonymous with "kittli" or "notabilis".
- myrina* [Spiriferina *Myrina* BITTN.] = "*Spiriferina*" *myrina* BITTNER, 1892. According to DAGYS (1974) this species belongs to his new genus *Mentzelioides*.
- norica* [?Koninckella *norica* BITTN.] = *Koninckella norica* BITTNER, 1890
- norica* [Waldheimia *norica* SUESS] = *Zeilleria norica* (SUESS, 1859)
- notabilis* [Rhynchonella *notabilis* BITTN.] = "*Rhynchonella*" *notabilis* BITTNER, 1890
- nucleata* [Rhynchonella *nucleata* ROTHPL.] = *Norella nucleata* (ROTHPLETZ, 1886)
- nux* [Spirigera *nux* SUESS] = *Austriellula nux* (SUESS, 1855)
- orthorhyncha* [Spiriferina *orthorhyncha* BITTN.] = "*Spiriferina*" *orthorhyncha* BITTNER, 1892
- ovalis* [Rhaetina *ovalis* PEARSON] = *Rhaetina ovalis* PEARSON, 1977
- oxycolpos* [Spirigera *oxycolpos* SUESS] = *Oxycolpella oxycolpos* (SUESS, 1854). EMMRICH has been introduced as an author of the species, but his denomination of *Spirigera oxycolpos* (1853) was not an available name (see PEARSON, 1977).
- pachyrhyncha* [Spirigera *pachyrhyncha* BITTN.] = *Pexidella pachyrhyncha* (BITTNER, 1890)
- paronica* [Coenothyris *Paronica* TOMM.] = *Adygella paronica* (TOMMASI, 1887)
- patricia* [Waldheimia (?Aulacothyris) *patricia* BITTN.] = *Aulacothyris* (?) *patricia* BITTNER, 1890
- pedata* [Terebratula *pedata* BRONN] = *Halorella pedata* (BRONN, 1832). Most probably synonymous with "amphitoma" (according to DAGYS, 1963 etc.)
- piestingensis* [Thecidium *Piestingense* BITTN.] = *Thecospiropsis piestingensis* (BITTNER, 1890)
- pirum* [Rhynchonella *pirum* BITTN.] = *Austriellula pirum* (BITTNER, 1890)
- planiuscula* [Koninckina *planiuscula* BITTN.] = *Koninckina planiuscula* BITTNER, 1890
- pleurocoela* [Terebratula *pleurocoela* BITTN., 1892] = synonymous with *Lobothyris praepunctata* (BITTNER, 1890)
- plicatifrons* [Halorella *plicatifrons* BITTN.] = *Halorelloidea plicatifrons* (BITTNER, 1890)
- praecursor* [Spiriferina *praecursor* ZUGM.] = *Mentzelioides praecursor* (ZUGMAYER, 1880)
- praepunctata* [Terebratula *praepunctata* BITTN.] = *Lobothyris praepunctata* (BITTNER, 1890)
- pretiosa* [Retzia *pretiosa* BITTN.] = "*Retzia*" *pretiosa* BITTNER, 1890
- productifrons* [Rhynchonella *productifrons* BITTN.] = *Volirhynchia productifrons* (BITTNER, 1890)
- projectifrons* [Rhynchonella *projectifrons* BITTN.] = "*Rhynchonella*" *projectifrons*

- frons* BITTNER, 1890. Most probably synonymous with "protractifrons".
- protractifrons* [Rhynchonella protractifrons BITTN.] = "*Rhynchonella*" *protractifrons* BITTNER, 1890. DAGYS (1974) associates this species with his genus *Volirhynchia*.
- ptychitiphila* [Spiriferina ptychitiphila BITTN.] = "*Spiriferina*" *ptychitiphila* BITTNER, 1890
- pulchella* [Waldheimia (Aulacothyris) pulchella BITTN.] = *Pseudorugitela pulchella* (BITTNER, 1890)
- pumilio* [Rhynchonella pumilio BITTN.] = "*Rhynchonella*" *pumilio* BITTNER, 1892. Most probably synonymous with "seydeli".
- pusillula* [Rhynchonella pusillula BITTN.] = "*Rhynchonella*" *pusillula* BITTNER, 1890
- pyriformis* [Terebratula pyriformis SUESS] = *Rhaetina pyriformis* (SUESS, 1854)
- quadriplecta* [Terebratula quadriplecta MÜNST.] = *Anisactinella quadriplecta* (MÜNSTER, 1841)
- quinquecostata* [Terebratula quinquecostata MÜNST.] = *Pentactinella quinquecostata* (MÜNSTER, 1841)
- ramsaueri* [Terebratula Ramsaueri SUESS] = *Aulacothyris* (?) *ramsaueri* (SUESS, 1855)
- raxana* (Rhynchonella Raxana BITTN.) = *Excavatorhynchia raxana* (BITTNER, 1892)
- raxana* (Terebratula Raxana BITTN.) = "*Terebratula*" *raxana* BITTNER, 1892
- reascendens* [Waldheimia (Aulacothyris) reascendens BITTN.] = *Camerothyris reascendens* (BITTNER, 1890)
- rectifrons* [Halorella rectifrons BITTN.] = *Halorelloidea rectifrons* (BITTNER, 1890)
- reflexa* [Waldheimia (Aulacothyris) reflexa BITTNER] = *Aulacothyropsis reflexa* (BITTNER, 1890)
- refractifrons* [Rhynchonella refractifrons BITTN.] = *Norella refractifrons* (BITTNER, 1890). The species was recently associated by JING-SUN-YE in the Palaeont. Atlas of NW China (1979) with their new genus *Quilianconcha*.
- regilla* [Rhynchonella regilla BITTN.] = "*Rhynchonella*" *regilla* BITTNER, 1890
- retractifrons* [Rhynchonella retractifrons BITTN.] = *Norella retractifrons* (BITTNER, 1890)
- retrocita* [Rhynchonella retrocita SUESS] = *Nucleatula retrocita* (SUESS, 1855)
- rhaetica* [Leptaena rhaetica GUMB.] = *Koninckina rhaetica* (GUMBEL, 1861)
- rhaetica* [Terebratula rhaetica ZUGM.] = *Zugmayeria rhaetica* (ZUGMAYER, 1880)
- rhaetica* [Thecidea rhaetica ZUGM.] = *Davidsonella rhaetica* (ZUGMAYER, 1880)
- rimulata* [Rhynchonella rimulata BITTN.] = *Rimirhynchopsis rimulata* (BITTNER, 1890)
- rosittana* [Halorella Rosittana BITTN.] = *Halorella rosittana* BITTNER, 1890
- rupicola* [Waldheimia (Aulacothyris) rupicola BITTN.] = *Aulacothyris rupicola* BITTNER, 1892
- salinaria* [Rhynchonella salinaria BITTN.] = "*Rhynchonella*" *salinaria* BITTNER, 1890
- sandlingensis* [Waldheimia (Aulacothyris) Sandlingensis BITTN.] = *Camerothyris sandlingensis* (BITTNER, 1890)
- schönii* [Rhynchonella Schönii BITTN.] = *Austriellula schoeni* (BITTNER, 1890)

- schwageri* [Retzia Schwageri BITTN.] = *Schwagerispira schwageri* (BITTNER, 1890)
- sellaris* [?Koninckella sellaris BITTN.] = *Koninckella* (?) *sellaris* BITTNER, 1890
- semidualina* [Waldheimia (Aulacothyris) semidualina BITTN.] = *Camerothyris* (?) *semidualina* (BITTNER, 1890)
- seydelii* [Rhynchonella Seydelii BITTN.] = "*Rhynchonella*" *seydeli* BITTNER, 1982
- speciosa* [Amphiclina speciosa BITTN.] = *Amphiclina speciosa* BITTNER, 1890
- speciosa* [Retzia speciosa BITTN.] = *Schwagerispira speciosa* (BITTNER, 1890)
- spreti* [Rhynchonella spreta BITTN.] = "*Rhynchonella*" *spreti* BITTNER, 1890
- starhembergica* [Crania Starhembergica ZUGM.] = "*Crania*" *starhembergica* ZUGMAYER, 1880
- starhembergica* [Rhynchonella Starhembergica ZUGM.] = *Osmarella starhembergica* (ZUGMAYER, 1880)
- strohmayeri* [Spirigera Strohmayeri SUESS] = *Pexidella strohmayeri* (SUESS, 1855)
- strophomenoides* [Koninckina strophomenoides ZUGMAYER (in coll.) BITTN.] = *Koninckina strophomenoides* BITTNER, 1890
- sturi* [Spirigera Sturi BÖCKH] = *Pexidella sturi* (BÖCKH, 1873)
- sturi* [Terebratula Sturii LAUBE] = "*Terebratula*" *sturi* LAUBE, 1865
- styriaca* [?Nucleatula styriaca BITTN.] = *Nucleatula styriaca* BITTNER, 1890
- subacuta* [Terebratula subacuta MÜNST.] = "*Rhynchonella*" *subacuta* (MÜNSTER, 1841)
- subangusta* [Terebratula subangusta MÜNST.] = *Camerothyris subangusta* (MÜNSTER, 1841)
- subbullati* [Rhynchonella subbullati BITTN.] = "*Rhynchonella*" *subbullati* BITTNER, 1892
- sublevata* [Rhynchonella sublevata BITTN.] = *Austriellula sublevata* (BITTNER, 1890)
- subrimosa* [Terebratula subrimosa SCHAFFH.] = "*Rhynchonella*" *subrimosa* (SCHAFFHÄUTL, 1851)
- suessi* [Juvavella Suessii BITTN.] = *Juvavella suessi* BITTNER, 1890
- suessi* [Spirifer Suessi WINKLER] = *Laballa suessi* (WINKLER, 1859).
- According to PEARSON (1977) ZUGMAYER must be given the authorship of the species under consideration but this statement doesn't seem reasonable to the present author.
- superba* [Rhynchonella superba BITTN.] = "*Rhynchonella*" *superba* BITTNER, 1890
- superba* [Waldheimia superba SUESS] = *Neoretzia superba* (SUESS, 1856)
- synophrys* [Rhynchonella synophrys BITTN.] = *Austriellula synophrys* (BITTNER, 1890)
- tenella* [Terebratula tenella BITTN.] = "*Terebratula*" *tenella* BITTNER, 1890
- tenuissima* [Lingula tenuissima BRONN] = *Glottidia tenuissima* (BRONN, 1837)
- torrenensis* [Rhynchonella Torrenensis BITTN.] = *Austriellula* (?) *torrenensis* (BITTNER, 1890)
- triadica* [Koninckella triassina BITTN., 1887; syn. K. triadica BITTN., 1890] = *Koninckella triassina* BITTNER, 1887
- tricostata* [Terebratula tricostata MÜNST.] = "*Rhynchonella*" *tricostata* (MÜNSTER, 1841)
- trigonella* [Terebratulites trigonellus SCHLOTH.] = *Tetractinella trigonella* (SCHLOTHEIM, 1820)

- trinodosi* [Rhynchonella trinodosi BITTN.] = *Piarorhynchella trinodosi* (BITTNER, 1890)
- tyrolensis* [Thecidium tyrolense LORETZ] = *Thecospira tyrolensis* (LORETZ, 1875)
- uhligi* [Spirigera Uhligii BITTN.] = "*Spirigera*" *uhligi* BITTNER, 1892
- uncinata* [Spirifer uncinatus SCHAFH.] = *Zugmayerella uncinata* (SCHAFHÄUTL, 1851)
- uncinulina* [Rhynchonella uncinulina BITTN.] = "*Rhynchonella*" *uncinulina* BITTNER, 1890
- ungulina* [Amphiclina unguina BITTN.] = *Amphiclina unguina* BITTNER, 1890
- vivida* [Rhynchonella decurtata var. vivida BITTN.] = *Volirhynchia vivida* (BITTNER, 1890)
- vulgaris* [Terebratulites vulgaris SCHLOTH.] = *Coenothyris vulgaris* (SCHLOTHEIM, 1820)
- vulnerata* [Rhynchonella vulnerata BITTN.] = "*Rhynchonella*" *vulnerata* BITTNER, 1892
- waldegiana* [Waldheimia Waldegiana ZUGM.] = *Zeilleria waldegiana* (ZUGMAYER, 1880)
- wissmani* [Terebratula Wissmani MÜNST.] = *Diplospirella wissmani* (MÜNSTER, 1841)
- woehrmanniana* [Terebratula Woehrmanniana BITTN.] = *Adygella woehrmanniana* (BITTNER, 1890)
- zirlensis* [Terebratula (Waldheimia?) Zirlensis WÖHRM.] = *Aulacothyris zirlensis* (WÖHRMANN, 1893)
- zugmayeri* [Amphiclinodonta Zugmayeri BITTN.] = *Amphiclinodonta zugmayeri* (BITTNER, 1890)
- zugmayeri* [Waldheimia (Aulacothyris) Zugmayeri BITTN.] = *Gemerithyris zugmayeri* (BITTNER, 1892)

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