NOMENCLATURAL CHANGES FOR TWENTY TRILOBITES GENERA

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ABSTRACT: Twenty junior homonyms were detected among the Trilobites genera and the following replacement names are proposed: Order Agnostida: *Yakutiana* nom. nov. for *Pseudophalacroma* Pokrovskaya, 1958 (Ptychagnostidae); *Morocconus* nom. nov. for *Cephalopyge* Geyer, 1988 (Weymouthiidae); Order Asaphida: *Russiana* nom. nov. for *Scintilla* Pegel, 1986 (Anomocaridae); *Sunocavia* nom. nov. for *Cavia* Sun, 1993 (Remopleurididae); Order Lichida: *Karslanus* nom. nov. for *Ariaspis* Wolfart, 1974 (Damesellidae); *Belenopyge* Pek & Vanek, 1991 subtitute name for *Lobopyge* Pribyl & Erben, 1952 (Lichidae); Order Phacopida: *Wuoaspis* nom. nov. for *Coronaspis* Wu, 1990 (Encrinuridae); Order Proetida: *Hahnus* nom. nov. for *Eometopus* Hahn & Hahn, 1996 (Brachymetopidae); *Engelomorrisia* nom. nov. for *Capricornia* Engel & Morris, 1996; *Yuanjia* nom. nov. for *Haasia* Yuan, 1988 and *Spatulata* nom. nov. for *Spatulina* Osmólska, 1962 (Proetidae); *Pseudobirmanites* Li, 1978 subtitute name for *Madygenia* Petrurina, 1975 (Rorringtoniidae); Order Ptychopariida: *Demuma* nom. nov. for *Pruvostina* Hupé, 1952 (Bigotinidae); *Novocatharia* nom. nov. for *Catharia* Alvaro & Vizcaino, 2003 (Conocoryphidae); *Geyerorodes* nom. nov. for *Orodes* Geyer, 1990 (Ellipsocephalidae); *Enixus* nom. nov. for *Schistocephalus* Chernysheva, 1956 (Palaeolenidae); *Palmerara* nom. nov. for *Nyella* Palmer, 1979 (Ptychopariidae); *Pinarella* nom. nov. for *Pensacola* Palmer & Gatehouse, 1972 (Yunnanocephalidae); Family uncertain: *Indiligens* nom. nov. for *Hospes* Stubblefield, 1927 and *Indigestus* nom. nov. for *Hybocephalus* Remelé, 1885. Accordingly, new combinations are herein proposed for the type species currently included in these genera respectively: *Yakutiana crebra* (Pokrovskaya, 1958) comb. nov.; *Morocconus notabilis* (Geyer, 1988) comb. nov.; *Russiana polita* (Pegel, 1986) comb. nov.; *Sunocavia dactyloides* (Guo & Duan, 1978) comb. nov.; *Karslanus parteaculeatus* (Wolfart, 1974) comb. nov.; *Belenopyge branikensis* (Barrande, 1872) comb. nov.; *Wuoaspis changningensis* (W. Zhang, 1974) comb. nov.; *Hahnus maximowae* (Hahn & Hahn, 1982) comb. nov.; *Engelomorrisia queenslandica* (Engel & Morris, 1996) comb. nov.; *Yuanjia wildungensis* (Richter, 1913) comb. nov.; *Spatulata spatulata* (Woodward, 1902) comb. nov.; *Pseudobirmanites suavis* (Petrurina, 1975) comb. nov.; *Demuma nicklesi* (Hupé, 1952) comb. nov.; *Novocatharia ferralsensis* (Courtessole, 1967) comb. nov.; *Geyerorodes schmitti* (Geyer, 1990) comb. nov.; *Enixus enigmaticus* (Chernysheva, 1956) comb. nov.; *Palmerara granosa* (Resser, 1939) comb. nov.; *Pinarella isolata* (Palmer & Gatehouse, 1972) comb. nov.; *Indiligens clonograpti* (Stubblefield, 1927) comb. nov. and *Indigestus hauchecornei* (Remelé, 1885) comb. nov.

KEY WORDS: nomenclatural changes, homonymy, replacement names, Trilobites.

In an effort to reduce the number of homonyms in Trilobites, I systematically checked the generic names published. I found twenty trilobites genera whose names had been previously published for other taxa, making them junior homonyms. In accordance with Article 60 of the International Code of Zoological Nomenclature, I propose replacement names for these genus group names.

TAXONOMY

Order AGNOSTIDA
Family PTYCHAGNOSTIDAE
Genus *YAKUTIANA* nom. nov.

Pseudophalacroma Pokrovskaya, 1958. Trudy geol. Inst., Leningr. 16: 79. (Trilobita: Agnostida: Agnostina: Agnostoidea: Ptychagnostidae). Preoccupied by *Pseudophalacroma* Jörgensen, 1923. Rep. Danish Ocean. Exped. 1908-10, 7, J. 2, 3. (Protozoa: Phytomastihophorea: Dinoflagellida: Dinophysidae).

Remarks: Pokrovskaya (1958) proposed the generic name *Pseudophalacroma* as a genus of trilobites with the type species *Pseudophalacroma crebra* Pokrovskaya, 1958 from Dzhakhtarsky Horizon, Yakutia, E Siberia, Russia. It is a valid genus name (Jell & Adrain, 2003). Unfortunately, the generic name was already preoccupied by Jörgensen (1923), who had proposed the genus name *Pseudophalacroma* as a protozoon genus with the type species *Phalacroma nasutum* von Stein, 1883. Thus, the genus group name *Pseudophalacroma* Pokrovskaya, 1958 is a junior homonym of the generic name *Pseudophalacroma* Jörgensen, 1883. I propose a new replacement name *Yakutiana* **nom. nov.** for *Pseudophalacroma* Pokrovskaya, 1958. The name is from the type locality Yakutia.

Summary of nomenclatural changes:

Yakutiana **nom. nov.**
pro *Pseudophalacroma* Pokrovskaya, 1958 (non Jörgensen, 1883)

Yakutiana crebra (Pokrovskaya, 1958) **comb. nov.**
from *Pseudophalacroma crebra* Pokrovskaya, 1958

Family WEYMOUTHIIDAE
Genus *MOROCCONUS* nom. nov.

Cephalopyge Geyer, 1988. Neues Jahrb. Geol. Palaeontol. Abh. B 177 (1): 123. (Trilobita: Agnostida: Eodiscina: Eodiscoidea: Weymouthiidae). Preoccupied by *Cephalopyge* Hanel, 1905. Zool. Jahrb., Syst., 21, 451. (Mollusca: Gastropoda: Opisthobranchia: Nudibranchia: Phylliroidae).

Remarks: The name *Cephalopyge* was initially introduced by Hanel, 1905 for a gastropod genus (with the type species *Phylliroe trematoides* Chun, 1889). It is still used as a valid genus name (Bouchet et al., 2001). Subsequently, Geyer, 1988 described a trilobite genus of the family Weymouthiidae (with the type species *Cephalopyge notabilis* Geyer, 1988 from Jbel Wawrmast Fm, Anti-Atlas, Morocco) under the same generic name. It is a valid genus name (Jell & Adrain, 2003). Thus, the genus *Cephalopyge* Geyer, 1988 is a junior homonym of the genus *Cephalopyge* Hanel, 1905. I propose a new replacement name *Morocconus* **nom. nov.** for *Cephalopyge* Geyer, 1988. The name is from the type locality Morocco.

Summary of nomenclatural changes:

Morocconus **nom. nov.**
pro *Cephalopyge* Geyer, 1988 (non Hanel, 1905)

Morocconus notabilis (Geyer, 1988) **comb. nov.**
from *Cephalopyge notabilis* Geyer, 1988

Order ASAPHIDA
Family ANOMOCARIDAE
Genus *RUSSIANA* nom. nov.

Scintilla Pegel, 1986. In Gintsinger, Fefelov, Vinkman, Tarnovsky, Zhuravleva & Pegel 1986, Akad Nauk SSSR Sib Otd Inst Geol Geofiz Tr 669: 106. ((Trilobita: Asaphida: Asaphina: Anomocaroidea: Anomocaridae). Preoccupied by *Scintilla* Deshayes, 1856. Proc. zool. Soc. London, 23, 1855, 171. (Mollusca: Bivalvia: Heterodonta: Veneroida: Galeommatoidea: Galeommatidae).

Remarks: The mollusk genus *Scintilla* was erected by Deshayes, 1856 with the type species *Scintilla philippinensis* Deshayes, 1856 by subsequent designation. Later, the genus *Scintilla* was described by Pegel, 1986 with the type species *Scintilla polita* Pegel, 1986 from Shangansk Fm, Tuva, Russia. It is a valid genus name (Jell & Adrain, 2003). However, the name *Scintilla* Pegel, 1986 is invalid under the law of homonymy, being a junior homonym of *Scintilla* Deshayes, 1856. I propose to substitute the junior homonym name *Scintilla* Pegel, 1986 for the nomen novum *Russiana*. The name is from the type locality Russia.

Summary of nomenclatural changes:

Russiana **nom. nov.**
pro *Scintilla* Pegel, 1986 (non Deshayes, 1856)

Russiana polita (Pegel, 1986) **comb. nov.**
from *Scintilla polita* Pegel, 1986

Family REMOPLEURIDIDAE
Genus *SUNOCAVIA* nom. nov.

Cavia Sun, 1993. Prof. Pap. Stratigr. Palaeontol. 24: 28. (Trilobita: Asaphida: Asaphina: Remopleurıdoidea: Remopleuridıdae). Preoccupied by *Cavia* Pallas, 1766. Misc. Zool., 30. (Mammalia: Theria: Rodentia: Caviidae: Caviinae).

Remarks: Firstly, the genus *Cavia* was established by Pallas, 1766 for a mammal genus with the type species *Cavia porcellus* Linnaeus, 1758. It is still used as a valid genus name. It is the type genus for the family group names Caviidae and Caviinae. Later, the name *Cavia* was proposed by Sun, 1993 for a trilobite genus with the type species *Haniwa dactyloides* Guo & Duan, 1978 from Fengshan Fm, Hebei, China. It is a valid genus name (Jell & Adrain, 2003). However, the name *Cavia* Sun, 1993 is invalid under the law of homonymy, being a junior homonym of *Cavia* Pallas, 1766. I propose to substitute the junior homonym name *Cavia* Sun, 1993 for the nomen novum *Sunocavia*. The name is dedicated to Hongbing Sun who is the current author of the preexisting genus name *Cavia*.

Summary of nomenclatural changes:

Sunocavia **nom. nov.**
pro *Cavia* Sun, 1993 (non Pallas, 1766)

Sunocavia dactyloides (Guo & Duan, 1978) **comb. nov.**
from *Cavia dactyloides* (Guo & Duan, 1978)
Haniwa dactyloides Guo & Duan, 1978

Order LICHIDA
Family DAMESELLIDAE
Genus *KARSLANUS* nom. nov.

Ariaspis Wolfart, 1974. Geol.Jb.(B) 8: 130. (Trilobita: Lichida: Lichina: Dameselloidea: Damesellidae). Preoccupied by *Ariaspis* Denison, 1963. Fieldiana, Geol. 14 (7): 120. (Chordata: Pteraspidomorphi: Pteraspidomorphes).

Remarks: The name *Ariaspis* was initially introduced by Denison, 1963 for a fossil fish genus (with the type species *Ariaspis ornata* Denison, 1963). It is not extant. It was assigned to Pteraspidomorphes by Sepkoski (2002). Subsequently, Wolfart, 1974 described a trilobite genus of the family Damesellidae (with the type species *Ariaspis parteaculeata* Wolfart, 1974 from Surkh Bum, Afghanistan) under the same generic name. It is a valid genus name in Damesellidae (Jell & Adrain, 2003). Thus, the genus *Ariaspis* Wolfart, 1974 is a junior homonym of the genus *Ariaspis* Denison, 1963. I propose a new replacement name *Karslanus* **nom. nov.** for *Ariaspis* Wolfart, 1974. The name is dedicated to my student Kemal Arslan (Turkey). The name is masculine in gender.

Summary of nomenclatural changes:

Karslanus **nom. nov.**
pro *Ariaspis* Wolfart, 1974 (non Denison, 1963)

Karslanus parteaculeatus (Wolfart, 1974) **comb. nov.**
from *Ariaspis parteaculeata* Wolfart, 1974

Family LICHIDAE
Genus *BELENOPYGE* Pek & Vanek, 1991 substitute name

Lobopyge Pribyl & Erben, 1952. Paläont. Z., 26, (3-4), 158. (Trilobita: Lichida: Lichina: Lichoidea: Lichidae). Preoccupied by *Lobopyge* Attems, 1951. Rev. Zool. Bot. afr., 44, 391. (Diplopoda: Polydesmida: Polydesmidea: Pyrgodesmidae).

Remarks: Firstly, the genus *Lobopyge* was established by Attems, 1951 for a millipede genus with the type species *Lobopyge papillata* Attems, 1951. It is still used as a valid genus name (Jeekel, 1971). Later, the generic name *Lobopyge* was proposed by Pribyl & Erben, 1952 for a trilobite with the type species *Lichas branikensis* Barrande, 1872 from Dvorce-Prokop Fm, Czech Republic. It is a valid genus name (Jell & Adrain, 2003). However, the name *Lobopyge* Pribyl & Erben, 1952 is invalid under the law of homonymy, being a junior homonym of *Lobopyge* Attems, 1951. *Lobopyge* Pribyl & Erben, 1952 has a junior subjective synonym as *Belenopyge* Pek & Vanek, 1991(with the type species *Lichas balliviani* Kozlowski, 1923 from Belén Fm, Bolivia). It was synonymized by Ebach & Ahyong (2001). So

I propose to substitute the junior homonym name *Lobopyge* Pribyl & Erben, 1952 for the name *Belenopyge* Pek & Van, 1991.

Summary of nomenclatural changes:

Belenopyge Pek & Vanek, 1991 **subtitute name**
pro *Lobopyge* Pribyl & Erben, 1952 (non Attems, 1951)

Belenopyge branikensis (Barrande, 1872) **comb. nov.**
from *Lobopyge branikensis* (Barrande, 1872)
Lichas branikensis Barrande, 1872
Lichas balliviani Kozlowski, 1923
Belenopyge balliviani (Kozlowski, 1923)

Order PHACOPIDA
Family ENCRINURIDAE
Genus *WUOASPIS* nom. nov.

Coronaspis Wu, 1990. Acta Palaeontol Sin 29 (5): 544. (Trilobita: Phacopida: Cheirurina: Cheiruroidea: Encrinuridae). Preoccupied by *Coronaspis* MacGillivray, 1921. The Coccidae, 312, 362. (Insecta: Hemiptera: Diaspididae).

Remarks: The generic name *Coronaspis* MacGillivray, 1921 was proposed for an hemipteran genus (with the type species *Chionaspis coronifera* Green, 1905). Subsequently, the generic name *Coronaspis* Wu, 1990 was introduced for a new trilobite genus (with the type species *Coronocephalus changningensis* W. Zhang, 1974 from Xiushan Fm, Sichuan, China. It is a valid genus name (Jell & Adrain, 2003). Thus, the genus *Coronaspis* Wu, 1990 is a junior homonym of the generic name *Coronaspis* MacGillivray, 1921. I propose for the genus *Coronaspis* Wu, 1990 the new replacement name *Wuoaspis* **nom. nov.** The name is dedicated to Hongji Wu who is current author of the preexisting generic name *Coronaspis*.

Summary of nomenclatural changes:

Wuoaspis **nom. nov.**
pro *Coronaspis* Wu, 1990 (non MacGillivray, 1921)

Wuoaspis changningensis (W. Zhang, 1974) **comb. nov.**
from *Coronaspis changningensis* (W. Zhang, 1974)
Coronocephalus changningensis W. Zhang, 1974

Order PROETIDA
Family BRACHYMETOPIDAE
Genus *HAHNUS* nom. nov.

Eometopus Hahn & Hahn, 1996. Cour Forschungsinst Senckenb 195, 26 November: 142. (Trilobita: Proetida: Proetina: Aulacopleuroidea: Brachymetopidae). Preoccupied by *Eometopus* Small & Lynn, 1985. In Lee & Bovee [Eds]. An illustrated guide to the Protozoa. Society of Protozoologists, Kansas: 430. (Protozoa: Ciliophora: Spirotrichea: Armophorida: Metopidae).

Remarks: Firstly, the genus *Eometopus* was established by Small & Lynn, 1985 for a protozoon genus with the type species *Eometopus simolex* Small & Lynn, 1985. It is still used as a valid genus name. Later, the generic name *Eometopus* was

proposed by Hahn & Hahn, 1996 for a trilobite genus with the type taxon *Brachymetopus ouralicus maximowae* Hahn & Hahn, 1982 from Mugodshar Mts, Kazakhstan. It is a valid genus name (Jell & Adrain, 2003). However, the name *Eometopus* Hahn & Hahn, 1996 is invalid under the law of homonymy, being a junior homonym of *Eometopus* Small & Lynn, 1985. I propose to substitute the junior homonym name *Eometopus* Hahn & Hahn, 1996 for the nomen novum *Hahnus*. The name is dedicated to the surname of G. Hahn and R. Hahn who are current authors of the preexisting genus name *Eometopus*. It is masculine in gender.

Summary of nomenclatural changes:

Hahnus **nom. nov.**
pro *Eometopus* Hahn & Hahn, 1996 (non Small & Lynn, 1985)

Hahnus maximowae (Hahn & Hahn, 1982) **comb. nov.**
from *Eometopus maximowae* (Hahn & Hahn, 1982)
Brachymetopus ouralicus maximowae Hahn & Hahn, 1982

Family PROETIDAE
Genus *ENGELOMORRISIA* nom. nov.

Capricornia Engel & Morris, 1996. Geol. Palaeontol. 30, 31 Juli: 125. (Trilobita: Proetida: Proetina: Proetoidea: Proetidae). Preoccupied by *Capricornia* Obraztsov, 1960. Beitr. Ent. 10: 474. (Insecta: Lepidoptera: Tortricoidea: Tortricidae).

Remarks: Engel & Morris (1996) proposed the generic name *Capricornia* as a subgenus of *Bollandia* Reed, 1943 with the type species *Bollandia* (*Capricornia*) *queenslandica* Engel & Morris, 1996 from Neils Creek Clastics, Queensland, Australia. It is a valid genus name in Proteidae (Jell & Adrain, 2003). Unfortunately, the generic name was already preoccupied by Obraztsov (1960), who had proposed the genus name *Capricornia* as an objective replacement name of the preoccupied genus *Melodes* Guenée, 1845 with the type species *Carpocapsa boisduvaliana* Duponchel , 1836 in the moth family Tortricidae. Thus, the genus group name *Capricornia* Engel & Morris, 1996 is a junior homonym of the generic name *Capricornia* Obraztsov, 1960. I propose a new replacement name *Engelomorrisia* **nom. nov.** for *Capricornia* Engel & Morris, 1996. The name is dedicated to B. A. Engel and N. Morris who are the current authors of the preexisting generic name *Capricornia*.

Summary of nomenclatural changes:

Engelomorrisia **nom. nov.**
pro *Capricornia* Engel & Morris, 1996 (non Obraztsov, 1960)

Engelomorrisia queenslandica (Engel & Morris, 1996) **comb. nov.**
from *Capricornia queenslandica* Engel & Morris, 1996

Genus *YUANJIA* nom. nov.

Haasia Yuan, 1988. Palaeontogr Abt A Palaeozool-Stratigr 201 (1-3): 82. (Trilobita: Proetida: Proetina: Proetoidea: Proetidae). Preoccupied by *Haasia* Bollman, 1893. Bull. U.S. nat. Mus., No. 46, 158. (Diplopoda: Chordeumatida: Anthogonidae).

Remarks: The millipede genus *Haasia* was erected by Bollman, 1893 with the type species *Craspedosoma troglodytes* Latzel, 1884. It is a valid genus name (e. g. Jeekel, 1971). Later, the genus *Haasia* was described by Yuan, 1988 with the type species *Cyrtosymbole wildungensis* Richter, 1913 from *Wocklumeria*-Stufe, Rhenish Massif, Germany. It is a valid genus name (Jell & Adrain, 2003). However, the name *Haasia* Yuan, 1988 is invalid under the law of homonymy, being a junior homonym of *Haasia* Bollman, 1893. I propose to substitute the junior homonym name *Haasia* Yuan, 1988 for the nomen novum *Yuanjia*. The name is dedicated to Jinliang Yuan who is current author name of the preexisting genus *Haasia*.

Summary of nomenclatural changes:

Yuanjia **nom. nov.**
pro *Haasia* Yuan, 1988 (non Bollman, 1893)

Yuanjia wildungensis (Richter, 1913) **comb. nov.**
from *Haasia wildungensis* (Richter, 1913)
Cyrtosymbole wildungensis Richter, 1913

Genus *SPATULATA* nom. nov.

Spatulina Osmólska, 1962. Acta palaeont. pol. 7: 181. (Trilobita: Proetida: Proetina: Proetoidea: Proetidae). Preoccupied by *Spatulina* Szilády, 1942. Mitt. münchen. ent. Ges., 32, 625. (Insecta: Diptera: Brachycera: Rhagionidae).

Remarks: The name *Spatulina* was initially introduced by Szilády, 1942 for a fly genus (with the type species *Spatulina engeli* Szilády, 1942 by monotypy). It is stil used as a valid genus name in Diptera. Subsequently, Osmólska, 1962 described a new trilobite genus (with the type species *Phillipsia spatulata* Woodward, 1902 from Coddon Hill Chert Fm, England) under the same generic name. It is a valid genus name in Proetidae (Jell & Adrain, 2003). Thus, the genus *Spatulina* Osmólska, 1962 is a junior homonym of the genus *Spatulina* Szilády, 1942. I propose a new replacement name *Spatulata* **nom. nov.** for *Spatulina* Osmólska, 1962. The name is from the current species name for tautonymy.

Summary of nomenclatural changes:

Spatulata **nom. nov.**
pro *Spatulina* Osmólska, 1962 (non Szilády, 1942)

Spatulata spatulata (Woodward, 1902) **comb. nov.**
from *Spatulina spatulata* (Woodward, 1902)
Phillipsia spatulata Woodward, 1902

Family RORRINGTONIIDAE
Genus *PSEUDOBIRMANITES* Li, 1978

Madygenia Petrunina, 1975. In Repina et al., in Repina, Yaskovitch et al., Trudy Inst. Geol. Geofiz. sib. Otd. 278: 229. (Trilobita: Proetida: Proetina: Aulacopleuroidea: Rorringtoniidae). Preoccupied by *Madygenia* Sharov, 1968. Trudy paleont.Inst. 118: 171. (Insecta: Orthoptera: Ensifera: Oedischioidea: Proparagryllacrididae: Madygeniinae).

Remarks: Firstly, the genus *Madygenia* was established by Sharov, 1968 for fossil Orthoptera with the type species *Madygenia orientalis* Sharov, 1968 by monotypy and original designation. It is still used as a valid genus name. It is the type genus of the subfamily Madygeniinae Gorochov, 1987. Later, the generic name *Madygenia* was described by Petrurina, 1975 for a new trilobite genus with the type species *Madygenia suavis* Petrurina, 1975 from *Kielanella-Tretaspis* Zone, Turkestan. Also, it is stil used as a valid genus name (Jell & Adrain, 2003). However, the name *Madygenia* Petrurina, 1975 is invalid under the law of homonymy, being a junior homonym of *Madygenia* Sharov, 1968. On the other side, *Madygenia* Petrurina, 1975 has a junior subjective synonym as *Pseudobirmanites* Li, 1978 (with the type species *Pseudobirmanites leiboensis* Li, 1978 from Linxing Fm, S Sichuan, China). It was synonymized by Adrain in Jell & Adrain (2003). So I propose to substitute the junior homonym name *Madygenia* Petrurina, 1975 for the name *Pseudobirmanites* Li, 1978.

Summary of nomenclatural changes:

Pseudobirmanites Li, 1978 **subtitute name**
pro *Madygenia* Petrurina, 1975 (non Sharov, 1968)

Pseudobirmanites suavis (Petrurina, 1975) **comb. nov.**
from *Madygenia suavis* Petrurina, 1975
Pseudobirmanites leiboensis Li, 1978

Order PTYCHOPARIIDA
Family BIGOTINIDAE
Genus *DEMUMA* nom. nov.

Pruvostina Hupé, 1952. C.R. Acad. Sci., Paris, 235, 480. [n.n.]; 1953, Notes Serv. Min. Maroc, no. 103 (1952), 222. (Trilobita: Ptychopariida: Ptychopariina: Ellipsocephaloidea: Bigotinidae). Preoccupied by *Pruvostina* Scott & Summerson, 1943. Amer. J. Sci., 241, 670. (Crustacea: Ostracoda).

Remarks: The genus *Pruvostina* was erected by Scott & Summerson, 1943 with the type species *Pruvostina wanlassi* Scott & Summerson, 1943 in Crustacea. Later, the genus *Pruvostina* was described by Hupé, 1952 with the type species *Pruvostina nicklesi* Hupé, 1952 from Amouslek Fm, Morocco. It is a valid genus name in Bigotinidae (Jell & Adrain, 2003). However, the name *Pruvostina* Hupé, 1952 is invalid under the law of homonymy, being a junior homonym of *Pruvostina* Scott & Summerson, 1943. So I propose to substitute the junior homonym name *Pruvostina* Hupé, 1952 for the name *Demuma* **nom. nov.** The name is from the Latin word “demum” (meaning “complete, completely, exact, exactly, certain or certainly” in English).

Summary of nomenclatural changes:

Demuma **nom. nov.**
pro *Pruvostina* Hupé, 1952 (non Scott & Summerson, 1943)

Demuma nicklesi (Hupé, 1952) **comb. nov.**
from *Pruvostina nicklesi* Hupé, 1952

Family CONOCORYPHIDAE
Genus *NOVOCATHARIA* nom. nov.

Catharia Alvaro & Vizcaino, 2003. Spec. Pap. Palaeontol. 70, October: 129. (Trilobita: Ptychopariida: Ptychopariina: Ptychoparioidea: Conocoryphidae). Preoccupied by *Catharia* Lederer, 1863. Wien. ent. Monatschr., 7, 353. (Insecta: Lepidoptera: Pyraloidea: Crambidae: Cathariinae).

Remarks: The name *Catharia* was initially introduced by Lederer, 1863 for a moth genus (with the type species *Hercyna pyrenaealis* Duponchel, 1843 by monotypy). It is a valid genus name as the type genus of the subfamily Cathariinae Minet, 1981 in the family Crambidae. Subsequently, Alvaro & Vizcaino, 2003 described a trilobite genus of the family Conocoryphidae (with the type species *Conocoryphe ferralsensis* Courtessole, 1967 from Coulouma Formation, *Eccaparadoxides macrocercus* Zone (Upper Languedocian, Middle Cambrian), southern Mountagne Noire, France and Iberian Chains) under the same generic name. It is a valid genus name in Conocoryphidae. Thus, the genus *Catharia* Alvaro & Vizcaino, 2003 is a junior homonym of the genus *Catharia* Lederer, 1863. I propose a new replacement name *Novocatharia* **nom. nov.** for *Catharia* Alvaro & Vizcaino, 2003. The name is from the Latin word "nova" (meaning "new" in English) + the preexisting genus name *Catharia*.

Summary of nomenclatural changes:

Novocatharia **nom. nov.**
pro *Catharia* Alvaro & Vizcaino, 2003 (non Lederer, 1863)

Novocatharia ferralsensis (Courtessole, 1967) **comb. nov.**
from *Catharia ferralsensis* (Courtessole, 1967)
Conocoryphe ferralsensis Courtessole, 1967

Family ELLIPSOCEPHALIDAE
Genus *GEYERORODES* nom. nov.

Orodes Geyer, 1990. Beringeria 3: 199. (Trilobita: Ptychopariida: Ptychopariina: Ellipsocephaloidea: Ellipsocephalidae). Preoccupied by *Orodes* Jacoby, 1891. Biol. Centr. Amer., Zool., Col., 6 (1), Suppl., 276. (Insecta: Coleoptera: Chrysomeloidea: Chrysomelidae).

Remarks: Geyer (1990) proposed the genus name *Orodes* with the type species *Orodes schmitti* Geyer, 1990 from Asrir Fm, Morocco. It is a valid genus name in Ellipsocephalidae (Jell & Adrain, 2003). Unfortunately, the generic name was already preoccupied by Jacoby (1891), who had described the genus *Orodes* in the beetle family Chrysomelidae with the type species *Orodes nigropictus* Jacoby, 1891. Thus, the genus *Orodes* Geyer, 1990 is a junior homonym of the generic name *Orodes* Jacoby, 1891. I propose a new replacement name *Geyerorodes* **nom. nov.** for *Orodes* Geyer, 1990. The name is dedicated to the G. Geyer who is the current author of the preexisting generic name *Orodes*.

Summary of nomenclatural changes:

Geyerorodes **nom. nov.**
pro *Orodes* Geyer, 1990 (non Jacoby, 1891)

Geyerorodes schmitti (Geyer, 1990) **comb. nov.**
from *Orodes schmitti* Geyer, 1990

Family PALAEOLENIDAE
Genus *ENIXUS* nom. nov.

Schistocephalus Chernysheva, 1956. In Kiparisova, Markovski & Radchenko (Eds). Materials on paleontology. New families and genera. Ministr. Geol. Okran Nedr Moscow: Vses. nauchno-issled. Geol. Inst. (VSEGEI) 12: 147. (Trilobita: Ptychopariida: Ptychopariina: Ellipsocephaloidea: Palaeolenidae). Preoccupied by *Schistocephalus* Creplin, 1829. N. Obs. de Entozois, 90. (Platyhelminthes: Cestoda: Pseudophyllidea: Diphyllobothriidae: Ligulinae).

Remarks: Chernysheva (1956) established a trilobite genus *Schistocephalus* with the type species *Schistocephalus enigmaticus* Chernysheva, 1956 from Amga River, E Yakutia, Russia. It is a valid genus name in Palaeolenidae (Jell & Adrain, 2003). Unfortunately, the generic name was already preoccupied by Creplin (1829), who had described the genus *Schistocephalus* with the type species *Schistocephalus dimorphus* Creplin, 1829 in Cestoda. Thus, the genus *Schistocephalus* Chernysheva, 1956 is a junior homonym of the generic name *Schistocephalus* Creplin, 1829. I propose a new replacement name *Enixus* **nom. nov.** for *Schistocephalus* Chernysheva, 1956. The name is from the Latin word "enixus" (meaning "zealous" in English).

Summary of nomenclatural changes:

Enixus **nom. nov.**
pro *Schistocephalus* Chernysheva, 1956 (non Creplin, 1829)

Enixus enigmaticus (Chernysheva, 1956) **comb. nov.**
from *Schistocephalus enigmaticus* Chernysheva, 1956

Family PTYCHOPARIIDAE
Genus *PALMERARA* nom. nov.

Nyella Palmer, 1979. In Palmer & Halley, Professional Pap. U.S. geol. Surv. No. 1047: 110. (Trilobita: Ptychopariida: Ptychopariina: Ptychoparioidea: Ptychopariidae). Preoccupied by *Nyella* Oke, 1931. Proc. roy. Soc. Victoria, 43, 200. (Insecta: Coleoptera: Curculionoidea: Curculionidae).

Remarks: Palmer (1979) proposed the generic name *Nyella* as a genus of trilobites with the type species *Poulsenia granosa* Resser, 1939 from Langston Lst, Idaho, USA. It is a valid genus name in Ptychopariidae (Jell & Adrain, 2003). Unfortunately, the generic name was already preoccupied by Oke (1931), who had proposed the genus name *Nyella* as a genus of beetles with the type species *Nyella tuberculata* Oke, 1931 in the beetle family Curculionidae. Thus, the genus group name *Nyella* Palmer, 1979 is a junior homonym of the generic name *Nyella* Oke, 1931. I propose a new replacement name *Palmerara* **nom. nov.** for *Nyella* Palmer, 1979. The name is dedicated to the A. R. Palmer who is the current author of the preexisting generic name *Nyella*.

Summary of nomenclatural changes:

Palmerara **nom. nov.**
pro *Nyella* Palmer, 1979 (non Oke, 1931)

Palmerara granosa (Resser, 1939) **comb. nov.**
from *Nyella granosa* (Resser, 1939)
Poulsenia granosa Resser, 1939

Family YUNNANOCEPHALIDAE
Genus *PINARELLA* nom. nov.

Pensacola Palmer & Gatehouse, 1972. Prof.Pap.U.S.geol.Surv. 456-D: D28. (Trilobita: Ptychopariida: Ptychopariina: Ellipsocephaloidea: Yunnanocephalidae). Preoccupied by *Pensacola* Peckham & Peckham, 1885. Proc. nat. Hist. Soc. Wisconsin, 1885, 84. (Arachnida: Araneae: Salticidae).

Remarks: The generic name *Pensacola* Peckham & Peckham, 1885 was proposed for a genus of spider family Salticidae (with the type species *Pensacola signata* Peckham & Peckham, 1885). Subsequently, the generic name *Pensacola* Palmer & Gatehouse, 1972 was introduced for a new trilobite genus (with the type species *Pensacola isolata* Palmer & Gatehouse, 1972 from *Chorbusulina wilkesi* Faunule, Antarctica) of the family Yunnanocephalidae. It is a valid genus name (Jell & Adrain, 2003). Thus, the genus *Pensacola* Palmer & Gatehouse, 1972 is a junior homonym of the generic name *Pensacola* Peckham & Peckham, 1885. I propose for the genus *Pensacola* Palmer & Gatehouse, 1972 the new replacement name *Pinarella* **nom. nov.** The name is dedicated to my student Pınar Özbek (Turkey). The name is feminine in gender.

Summary of nomenclatural changes:

Pinarella **nom. nov.**
pro *Pensacola* Palmer & Gatehouse, 1972 (non Peckham & Peckham, 1885)

Pinarella isolata (Palmer & Gatehouse, 1972) **comb. nov.**
from *Pensacola isolata* Palmer & Gatehouse, 1972

Family UNCERTAIN
Genus *INDILIGENS* nom. nov.

Hospes Stubblefield, 1927. In Stubblefield & Bulman, 1927, Quart. J. geol. Soc., 83 (1), 128. (Trilobita). Preoccupied by *Hospes* Jordan, 1894. Novit. zool., 1, 182. (Insecta: Coleoptera: Cerambycoidea: Cerambycidae).

Remarks: The generic name *Hospes* Jordan, 1894 was proposed for a genus of longicorn beetle family Cerambycidae. The African genus name is still used as a valid name and, it has four species as *Hospes longitarsis* Aurivillius, 1907; *Hospes nitidicollis* Jordan, 1894; *Hospes punctatus* Jordan, 1894 and *Hospes tomentosus* Schmidt, 1922. Subsequently, the generic name *Hospes* Stubblefield, 1927 was introduced for a new trilobite genus (with the type species *Hospes clonograpti* Stubblefield, 1927 from Shineton Sh Fm, England. It is a valid genus name (Jell & Adrain, 2003). Thus, the genus *Hospes* Stubblefield, 1927 is a junior homonym of the generic name *Hospes* Jordan, 1894. I propose for the genus *Hospes*

Stubblefield, 1927 the new replacement name *Indiligens* **nom. nov.** The name is from the Latin word "indiligens" (meaning "neglected" in English).

Summary of nomenclatural changes:

Indiligens **nom. nov.**
pro *Hospes* Stubblefield, 1927 (non Jordan, 1894)

Indiligens clonograpti (Stubblefield, 1927) **comb. nov.**
from *Hospes clonograpti* Stubblefield, 1927

Family UNCERTAIN
Genus *INDIGESTUS* nom. nov.

Hybocephalus Remelé, 1885. Z. dtsch. geol. Ges., 37, 1032. (Trilobita). Preoccupied by *Hybocephalus* Motschulsky, 1851. Bull. Soc. imp. Nat. Moscou, 24 (2), 482; Schaufuss 1882, Ann. Mus. Stor. nat. Genova, 18, 353. (Crustacea: Ostracoda).

Remarks: The genus *Hybocephalus* was erected by Motschulsky, 1851 in Coleoptera. It is still used as a valid name (e. g. Tree of life web project, 2007) and, it is the type genus of *Hybocephalini* Raffray, 1890 (Pselaphinae). Later, the genus *Hybocephalus* was described by Remelé, 1885 with the type species *Hybocephalus hauchecornei* Remelé, 1885 from Upper Red Orthoceras Limestone, Eberswalde, E Germany. It is a valid genus name (Jell & Adrain, 2003). However, the name *Hybocephalus* Remelé, 1885 is invalid under the law of homonymy, being a junior homonym of *Hybocephalus* Motschulsky, 1851. So I propose to substitute the junior homonym name *Hybocephalus* Remelé, 1885 for the name *Indigestus* **nom. nov.** The name is from the Latin word "indigestus" (meaning "out of order" in English).

Summary of nomenclatural changes:

Indigestus **nom. nov.**
pro *Hybocephalus* Remelé, 1885 (non Motschulsky, 1851)

Indigestus hauchecornei (Remelé, 1885) **comb. nov.**
from *Hybocephalus hauchecornei* Remelé, 1885

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Order	Family	Junior homonym	Senior homonym	Replacement name
AGNOSTIDA	PTYCHAGNOSTIDAE	*Pseudophalacroma* Pokrovskaya, 1958	*Pseudophalacroma* Jörgensen, 1923 (Protozoa)	*Yakutiana* **nom. nov.**
AGNOSTIDA	WEYMOUTHIIDAE	*Cephalopyge* Geyer, 1988	*Cephalopyge* Hanel, 1905 (Mollusca)	*Morocconus* **nom. nov.**
ASAPHIDA	ANOMOCARIDAE	*Scintilla* Pegel, 1986	*Scintilla* Deshayes, 1856 (Mollusca)	*Russiana* **nom. nov.**
ASAPHIDA	REMOPLEURIDIDAE	*Cavia* Sun, 1993	*Cavia* Pallas, 1766 (Mammalia)	*Sunocavia* **nom. nov.**
LICHIDA	DAMESELLIDAE	*Ariaspis* Wolfart, 1974	*Ariaspis* Denison, 1963 (Chordata)	*Karslanus* **nom. nov.**
LICHIDA	LICHIDAE	*Lobopyge* Pribyl & Erben, 1952	*Lobopyge* Attems, 1951 (Diplopoda)	*Belenopyge* Pek & Vanek, 1991 **subtitute name**
PHACOPIDA	ENCRINURIDAE	*Coronaspis* Wu, 1990	*Coronaspis* MacGillivray, 1921 (Hemiptera)	*Wuoaspis* **nom. nov.**
PROETIDA	BRACHYMETOPIDAE	*Eometopus* Hahn & Hahn, 1996	*Eometopus* Small & Lynn, 1985 (Protozoa)	*Hahnus* **nom. nov.**
PROETIDA	PROETIDAE	*Capricornia* Engel & Morris, 1996	*Capricornia* Obraztsov, 1960 (Lepidoptera)	*Engelomorrisia* **nom. nov.**
PROETIDA	PROETIDAE	*Haasia* Yuan, 1988	*Haasia* Bollman, 1893 (Diplopoda)	*Yuanjia* **nom. nov.**

Order	Family	Junior homonym	Senior homonym	Replacement name
PROETIDA	PROETIDAE	*Spatulina* Osmólska, 1962	*Spatulina* Szilády, 1942 (Diptera)	*Spatulata* **nom. nov.**
PROETIDA	RORRINGTONIIDAE	*Madygenia* Petrurina, 1975	*Madygenia* Sharov, 1968 (Orthoptera)	*Pseudobirmanites* Li, 1978 **subtitute name**
PTYCHOPARIIDA	BIGOTINIDAE	*Pruvostina* Hupé, 1952	*Pruvostina* Scott & Summerson, 1943 (Crustacea)	*Demuma* **nom. nov.**
PTYCHOPARIIDA	CONOCORYPHIDAE	*Catharia* Alvaro & Vizcaino, 2003	*Catharia* Lederer, 1863 (Lepidoptera)	*Novocatharia* **nom. nov.**
PTYCHOPARIIDA	ELLIPSOCEPHALIDAE	*Orodes* Geyer, 1990	*Orodes* Jacoby, 1891 (Coleoptera)	*Geyerorodes* **nom. nov.**
PTYCHOPARIIDA	PALAEOLENIDAE	*Schistocephalus* Chernysheva, 1956	*Schistocephalus* Creplin, 1829 (Cestoda)	*Enixus* **nom. nov.**
PTYCHOPARIIDA	PTYCHOPARIIDAE	*Nyella* Palmer, 1979	*Nyella* Oke, 1931 (Coleoptera)	*Palmerara* **nom. nov.**
PTYCHOPARIIDA	YUNNANOCEPHALIDAE	*Pensacola* Palmer & Gatehouse, 1972	*Pensacola* Peckham & Peckham, 1885 (Araneae)	*Pinarella* **nom. nov.**
	UNCERTAIN	*Hospes* Stubblefield, 1927	*Hospes* Jordan, 1894 (Coleoptera)	*Indiligens* **nom. nov.**
	UNCERTAIN	*Hybocephalus* Remelé, 1885	*Hybocephalus* Motschulsky, 1851 (Crustacea)	*Indigestus* **nom. nov.**