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A taxonomic list of the Old World genera in the subfamily Hesperiinae (Hesperiidae) arranged into tribes

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ABSTRACT. A taxonomic list of valid genera in the subfamily Hesperiinae from the Old World assigned to tribes is provided. This list is based on phylogenetic analysis of genomic sequence data complemented by morphological considerations. As a result, there are no *incertae sedis* non-fossil genera in the family Hesperiidae.

Keywords: taxonomy, classification, genomics, phylogeny, biodiversity.

ZooBank registration: http://zoobank.org/CCF59E03-048E-440A-B310-4830DD2BB5C5

Here, we summarize tribal assignment for the Old World Hesperiinae Latreille, 1809 genera currently regarded as valid (Lees et al. 2003; Warren et al. 2008; Warren et al. 2009; Fan et al. 2016; Toussaint et al. 2018; Cong et al. 2019; Huang et al. 2019; Jiang et al. 2019; Li et al. 2019b; Zhang et al. 2022), with comments about several others. No changes to nomenclature or synonymy are proposed. These results are not new but are mostly scattered throughout our previous publications (Cong et al. 2019; Li et al. 2019a; Zhang et al. 2019; Zhang et al. 2022) and are catalogued here for convenience. The following treatment is deduced from the genomic tree shown in Fig. 1 based on our previously published datasets (Zhang et al. 2022), complemented with morphological considerations. The methods used are detailed in Li (2019a) for experimental work and data processing and in Zhang et al. (2022) for phylogenetic tree construction. Twelve tribes are ordered phylogenetically. Genera are listed alphabetically within each tribe to facilitate visual search. We conclude that presently there are no *incertae sedis* non-fossil genera in the entire family Hesperiidae because all genera have been assigned to tribes. All tribes are monophyletic in our analyses.

Family **Hesperiidae** Latreille, 1809
Subfamily **Hesperiinae** Latreille, 1809
Tribe **Aeromachini** Tutt, 1906
Aeromachus Nicéville, 1890
Ampittia Moore, 1881
Arnetta Watson, 1893
Baracus Moore, 1881
Creteus Nicéville, 1895
Halpe Moore, 1878
Halpemorpha Huang, Fan & Chiba, 2019
Lepella Evans, 1937

Onryza Watson, 1893
Pedesta Hemming, 1934
Pithauria Moore, 1878
Praethoressa Huang, Chiba & Fan, 2019
Prosopalpus Holland, 1896
Sebastonyma Watson, 1893
(includes *Parasovia* Devyatkin, 1996)
Sovia Evans, 1949
Thoressa Swinhoe, 1913

Tribe **Ceratrichiini** Grishin, 2019

Argemma Grishin, 2019
Ceratrichia Butler, 1870
Herila Larsen & Collins, 2012
Meza Hemming, 1939
Pardaleodes Butler, 1870
(includes *Ankola* Evans, 1937)

Tribe **Astictopterini** Swinhoe, 1912

Acada Evans, 1937
Acleros Mabille, 1885
Actinor Watson, 1893
Andronymus Holland, 1896
Artitropa Holland, 1896
Astictopterus C. Felder & R. Felder, 1860
Caenides Holland, 1896
Ceratricula Larsen, 2013
Chondrolepis Mabille, 1904
Cupitha Moore, 1884
Dotta Grishin, 2019
Eogenes Mabille, 1909
Flandria Larsen, 2013
Fresna Evans, 1937
Fulda Evans, 1937
Galerga Mabille, 1898
Gamia Holland, 1896
Gorgyra Holland, 1896
Gyrogra Lindsey & Miller, 1965
Hidari Distant, 1886
Hollandus Larsen & Collins, 2015
Hypoleucis Mabille, 1891
Isoteinon C. Felder & R. Felder, 1862
Kedestes Watson, 1893
Lennia Grishin, 2022
Leona Evans, 1937
Lissia Grishin, 2019
Melphina Evans, 1937
Melphinyet Larsen, 2012
Moltena Evans, 1937
Monza Evans, 1937
Mopala Evans, 1937
Nervia Grishin, 2019

Noctulana Larsen, 2012
Osmodes Holland, 1892
Osphantes Holland, 1896
Paracleros Berger, 1978
Paronymus Aurivillius, 1925
Parosmodes Holland, 1896
Perrotia Oberthür, 1916
(includes *Miraja* Evans, 1937)
Platylesches Holland, 1896
Pteroteinon Watson, 1893
Rhabdomantis Holland, 1896
Semalea Holland, 1896
Teniorhinus Holland, 1892
Trida Grishin, 2022
Tsitana Evans, 1937
Xanthodisca Aurivillius, 1925
Xanthoneura Eliot, 1978
Xanthonymus Grishin, 2019
Zographetus Watson, 1893
Zophopetes Mabille, 1904

Tribe **Gretnini** Grishin, 2019
Gretna Evans, 1937

Tribe **Taractrocerini** Voss, 1952
Arrhenes Mabille, 1904
Banta Evans, 1949
Bibla Mabille, 1904
Cephrenes Waterhouse & Lyell, 1914
Kobrona Evans, 1935
Mimene Joicey & Talbot, 1917
Ocybadistes Heron, 1894
Oriens Evans, 1932
Pastria Evans, 1949
Potanthus Scudder, 1872
Sabera Swinhoe, 1908
Suniana Evans, 1934
Taractrocera Butler, 1870
Telicota Moore, 1881
Tiacellia Evans, 1949

Tribe **Erionotini** Distant, 1886
Acerbas Nicéville, 1895
Avestia Grishin, 2019
Cerba Grishin, 2019
Erionota Mabille, 1878
Gangara Moore, 1881
Ge Nicéville, 1895
Hyarotis Moore, 1881
Ilma Swinhoe, 1905
Lotongus Distant, 1886
Matapa Moore, 1881

Oerane Elwes & Edwards, 1897
Pirdana Distant, 1886
Plastingia Butler, 1870
Ploetzia Saalmüller, 1884
Praescobura Devyatkin, 2002
Pseudokerana Eliot, 1978
Pseudopirdana Chiba & Tsukiyama, 1993
Pudicitia Nicéville, 1895
Pyroneura Eliot, 1978
Quedara Swinhoe, 1919
Salanoemia Eliot, 1978
Scobura Elwes & Edwards, 1897
Suada Nicéville, 1895
Suastus Moore, 1881
Unkana Distant, 1886
Zela Nicéville, 1895

Tribe **Notocryptini** Swinhoe, 1913

Ancistroides Butler, 1874
(includes *Notocrypta* Nicéville, 1889 and *Udaspes* Moore, 1881)
Kerana Distant, 1886
Tamela Swinhoe, 1913

Tribe **Ismini** Grishin, 2022

Iambrix Watson, 1893
Idmon Nicéville, 1895
Isma Distant, 1886

Tribe **Eetionini** Grishin, 2022

Eetion Nicéville, 1895

Tribe **Psolosini** Grishin, 2022

Koruthaialos Watson, 1893
(includes *Stimula* Nicéville, 1898)
Psolos Staudinger, 1889

Tribe **Baorini** Doherty, 1886

Afrogegenes de Jong & Coutsis, 2017
Baoris Moore, 1881
Borbo Evans, 1949
Brusa Evans, 1937
Caltoris Swinhoe, 1893
Gegenes Hübner, [1819]
Iton Nicéville, 1895
Parnara Moore, 1881
Pelopidas Walker, 1870
Polytremis Mabille, 1904
Prusiana Evans, 1937
Pseudoborbo Lee, 1966
Torbenlarsenia Kemal & Koçak, 2020
(*Larsenia* Chiba, Fan & Sáfián, 2016 is preoccupied)
Tsukiyamaia Zhu, Chiba & Wu, 2016
Zenonia Evans, 1935

Zenonoida Fan & Chiba, 2016
Zinaida Evans, 1937

Tribe **Hesperiini** Latreille, 1809

Hesperia Fabricius, 1793
Ochlodes Scudder, 1872
Thymelicus Hübner, [1819]

Fig. 1. A phylogenetic tree of representative Hesperiinae (mostly type species of their genera) constructed from all protein-coding autosomal genes in the nuclear genome. Specimen/sample codes and general localities are given. The numbers of dataset partitions (Zhang et al. 2022) supporting the branches are shown by corresponding nodes. The tree is folded over to fit on a page, and black arrows guide the direction of viewing. Detailed analysis of the results will be presented elsewhere.

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