

## 11. Family SCIARIDAE

By Wallace A. Steffan

**S**ciaridae are common faunal elements in nearly all regions of the world but are poorly known because their small size and superficial homogeneity have not attracted collectors or taxonomists. Immature stages can be found in rotten wood, under bark of fallen trees, in other kinds of decaying plant material, feeding in fungi or animal excrement or, in *Austrosciara termitophila*, asinquilines in termite nests. Some species feed on living plant tissue and can cause economically important damage, especially in greenhouses and mushroom houses.

The Australasian/Oceanian fauna is undoubtedly much richer than the listings in this catalog indicate. The regional literature, with the exception of the faunal studies of Hawaii (Hardy 1960) and Micronesia (Steffan 1969), consists primarily

of descriptions of new species. Skuse (1888*b*, 1890*d*) described 61 Sciaridae from Australia, but most of the collections were from New South Wales only. The rich Papua New Guinean fauna has scarcely been touched. The New Zealand fauna was treated by Tonnoir & Edwards (1927).

This catalog is essentially a list of published names, although some necessarily obvious taxonomic changes have been made. Many generic placements undoubtedly are incorrect, and types need to be examined before correct generic assignments can be made. Most of the species listed under *Sciara* should be transferred to other genera after examination of the types.

*Refs.*: Hardy (1960, Hawaiian spp.), Freeman (1983), Frey (1942, 1948), Steffan (1966*b*, rev. Nearctic gen.; 1969, Micronesian spp.), Tuomikoski (1960).

### Genus AUSTROSCIARA Schmitz & Mjöberg

**AUSTROSCIARA** Schmitz & Mjöberg, 1924: 1. Type species: *Austrosciara termitophila* Schmitz & Mjöberg, 1924, mon.  
**termitophila** Schmitz & Mjöberg, 1924: 2. Australia (NSW).

### Genus BRADYSIA Winnertz

**BRADYSIA** Winnertz, 1867: 180. Type species: *Bradysia angustipennis* Winnertz, 1867, des. Enderlein, 1911*c*: 127.  
**bishopi** Steffan, 1973: 353. Hawaiian Is.  
**boninensis** Steffan, 1969: 717. Bonin Is.  
**campbellensis** Steffan, 1964: 296. NZ (Campbell I).  
**impatiens** Johannsen, 1912: 136 (*Sciara*). USA; Hawaiian Is.  
*hardyi* Shaw, 1952: 493 (*Sciara*). Hawaiian Is.  
**kraussi** Steffan, 1969: 718. Guam.  
**molokaiensis** Grimshaw, 1901: 2 (*Sciara*). Hawaiian Is.  
*stonei* Shaw, 1952: 495 (*Sciara*). Hawaiian Is.  
*pseudocampestris* Mohrig — not Australasian/Oceanian.  
**radicum** Brunetti, 1912*b*: 139 (*Sciara*). India; American Samoa, Fiji, French Polynesia (Marquesas, ?Society Is), Hawaiian Is, Western Samoa; England.  
**rubra** Harrison, 1955: 213 (*Sciara*). NZ (Campbell I).  
**setigera** Hardy, 1960: 234 (*Spathobdella*). Hawaiian Is.  
**snyderi** Steffan, 1969: 723. Bonin Is.  
**spatitergum** Hardy, 1956*c*: 85 (*Sciara*). Hawaiian Is; Brazil, Panama.  
*radicum*, Hardy, 1960, not Brunetti, 1912, misid.  
**triticum** Coquillett, 1895*a*: 408 (*Sciara*). Not given [USA]; Hawaiian Is, Micronesia; widesp. New World.

- johannseni* Shaw, 1952: 493 (*Sciara*). Hawaiian Is. [Preocc. Enderlein, 1912.]  
*garreti* Shaw, 1952: 494 (*Sciara*). Hawaiian Is.  
*laffooni* Shaw, 1952: 494 (*Sciara*). Hawaiian Is.  
*watsoni* Colless, 1962b: 955. Macquarie I.

#### Genus CORYNOPTERA Winnertz

- CORYNOPTERA** Winnertz, 1867: 177. Type species: *Corynoptera perpusilla* Winnertz, 1867, des. Enderlein, 1911c: 127.  
*alpina* Mohrig – not Australasian/Oceanian.  
*brevipalpis* Steffan, 1969: 695. Belau; Hawaiian Is.  
*heterochela* Steffan, 1969: 697. Micronesia; Belau.  
*latistylata* Hardy, 1956c: 82 (*Sciara*). Hawaiian Is; Marshall Is, Northern Marianas.  
*ponapensis* Steffan, 1969: 703. Micronesia.  
*sabroskyi* Steffan, 1969: 703. Belau.  
*subantarctica* Steffan, 1964: 295. NZ (Campbell I).  
*sylviae* Steffan, 1969: 705. Belau; Micronesia.

#### Genus CTENOSCIARA Tuomikoski

- CTENOSCIARA** Tuomikoski, 1960: 110. Type species: *Sciara hyalipennis* Meigen, 1804, orig. des.  
*hawaiiensis* Hardy, 1956c: 78 (*Sciara*). Hawaiian Is.  
*hyalipennis* Meigen, 1804: 99 (*Sciara*). Not given [Central Europe; see Gerbachevskaya-Pavluchenko, 1986: 43]; NZ (Campbell I, NZ) [immigrant]; Taiwan, widesp. Palearctic Reg.  
*annulata* Meigen, 1818: 284 (*Sciara*). Not given [Germany].  
*multispinosa* Steffan, 1969: 712. Micronesia.

#### Genus DODECASCARIANA Edwards

- DODECASCARIANA** Edwards, 1928c: 37. Type species: *Dodecascariana debilis* Edwards, 1928, mon.  
*debilis* Edwards, 1928c: 37. Western Samoa; American Samoa; Fiji.

#### Genus EPIDAPUS Haliday

- EPIDAPUS** Haliday in Walker, 1851b: 7. Type species: *Chionea venatica* Haliday in Walker, 1856 [= *Tipula atomaria* De Geer, 1778], subs. mon. Haliday in Walker, 1856b: 56.  
**ATOMARIA** Bigot, 1854: 454. Type species: *Tipula atomaria* De Geer, 1778, taut.  
 Undescribed sp. – Belau (Steffan, 1969: 685).

#### Genus HYPERLACION Schmitz

- HYPERLACION** Schmitz, 1918: 95, 96. Type species: *Hyperlacion wasmanni* Schmitz, 1918, mon.  
*magnisenorium* Hardy, 1956c: 89 (*Scythropochroa*). Hawaiian Is.

#### Genus LOBOSCIARA Steffan

- LOBOSCIARA** Steffan, 1969: 727. Type species: *Bradysia spinipennis* Sasakawa, 1962, orig. des.  
*spinipennis* Sasakawa, 1962: 130 (*Bradysia*). Thailand; Guam, Micronesia.

#### Genus LYCORIELLA Frey

- LYCORIELLA** Frey, 1942: 39. Type species: *Sciara vivida* Winnertz, 1867 [misid., = *Sciara auripila* Winnertz, 1867], orig. des.  
*agraria* Felt, 1898a: 225 [1898b: 225] (*Sciara*). USA; NZ (NZ) [immigrant]; England.  
*agarici* Loudon, 1978: 163. Australia (NSW).

- hoyti** Hardy, 1956c: 80 (*Sciara*). Hawaiian Is.  
**mali** Fitch, 1856: 486 (*Molobrus*). USA; Hawaiian Is.  
*pauciseta* Felt, 1898: 224. USA.  
**solispina** Hardy, 1956c: 84 (*Sciara*). Hawaiian Is.

#### Genus NEOPHNYXIA Tonnoir

- NEOPHNYXIA** Tonnoir *in* Tonnoir & Edwards, 1927: 800. Type species: *Neophnyxia nelsoniana* Tonnoir *in* Tonnoir & Edwards, 1927, orig. des.  
**nelsoniana** Tonnoir *in* Tonnoir & Edwards, 1927: 800. NZ (NZ).

#### Genus ODONTOSCIARA Rübsaamen

- ODONTONYX** Rübsaamen, 1894: 19, 25. Type species: *Sciara nigra* Wiedemann, 1821, des. Coquillett, 1910: 578. [Preocc. Stephens, 1827.]  
**ODONTOSCIARA** Rübsaamen, 1908: 450 (n. n. for *Odontonyx*).  
**PHORODONTA** Coquillett, 1910: 589 (n. n. for *Odontonyx*).  
**filipes** Walker, 1865a: 102 (*Sciara*). "New Guinea" [= Indonesia (Irian Jaya)]. **N. comb.**  
**pacifica** Edwards, 1924f: 569 (*Phorodonta*). Fiji; American Samoa, Vanuatu, Western Samoa. **N. comb.**  
**politicollis** Edwards, 1928c: 34 (*Phorodonta*). Western Samoa. **N. comb.**

#### Genus OHAKUNEA Edwards

- OHAKUNEA** Edwards *in* Tonnoir & Edwards, 1927: 799. Type species: *Ohakunea bicolor* Edwards *in* Tonnoir & Edwards, 1927, orig. des.  
**australiensis** Colless, 1963a: 304. Australia (Vic); Australia (NSW).  
**bicolor** Edwards *in* Tonnoir & Edwards, 1927: 799. NZ (NZ).

#### Genus PHYTOSCIARA Frey

- PHYTOSCIARA** Frey, 1942: 27. Type species: *Sciara halterata* Lengersdorf, 1926, orig. des.  
**brachygaster** Steffan, 1969: 709. Belau; Micronesia.  
**vulcanata** Steffan, 1973: 358. Hawaiian Is.

#### Genus PLASTOSCIARA Berg

- PSEUDOSCIARA** Kieffer, 1898a: 194. Type species: *Pseudosciara pictiventris* Kieffer, 1898, orig. des. [Preocc. Schiner, 1866.]  
**PLASTOSCIARA** Berg, 1899: 78 (n. n. for *Pseudosciara*).  
**COSMOSCIARA** Frey, 1942: 39. Type species: *Plastosciara perniciosa* Edwards, 1922, orig. des.  
**adrostylata** Hardy, 1956c: 72. Hawaiian Is.  
**flavibasis** Edwards, 1928c: 35. American Samoa; Fiji.  
**jaluitensis** Steffan, 1969: 688. Marshall Is.  
**latipons** Hardy, 1956c: 77. Hawaiian Is; Marshall Is, Micronesia.  
**longicosta** Hardy, 1956c: 75. Hawaiian Is.  
**perniciosa** Edwards, 1922c: 160. England; Fiji, French Polynesia (Marquesas), Hawaiian Is, Western Samoa; Finland, Philippines, Tristan da Cunha, USSR.  
*brevicalcarata* Hardy, 1956c: 73. Hawaiian Is.  
**yapensis** Steffan, 1969: 692. Micronesia.

#### Genus PNYXIA Johannsen

- PNYXIA** Johannsen, 1912: 114. Type species: *Epidapus scabiei* Hopkins, 1895, orig. des.  
 Undescribed sp. — Hawaiian Is (Steffan, 1981: 140).

**Genus PSEUDOZYGONEURA Steffan**

**PSEUDOZYGONEURA** Steffan, 1969: 676. Type species: *Pseudozygoneura musicola* Steffan, 1969, orig. des.  
**musicola** Steffan, 1969: 677. Belau; Hawaiian Is [introduced; ?established], Micronesia.

**Genus SCATOPSCIARA Edwards**

**SCAPTOPSCIARA** Edwards in Tonnoir & Edwards, 1927: 798 (*Sciara* subg.). Type species: *Sciara quinquelineata* Macquart, 1834 [= *Sciara vitripennis* Meigen, 1818], orig. des.  
**UDMANNIA** Frey, 1942: 38. Type species: *Sciara pusilla* Meigen, 1818, orig. des. [Preocc. Bergroth, 1915.]  
**UDMANNIELLA** Frey, 1948: 86 (n. n. for *Udmania*).  
**nigrita** Hardy, 1956c: 86 (*Scatopsciara*). Hawaiian Is.  
**unicarata** Edwards in Tonnoir & Edwards, 1927: 798 (*Sciara*). NZ (NZ).

**Genus SCHWENKFELDINA Frey**

**SCHWENKFELDINA** Frey, 1942: 32 (*Neosciara* subg.). Type species: *Sciara carbonaria* Meigen, 1820, orig. des.  
**ponderosa** Walker, 1864: 230 (*Sciara*). Indonesia (Maluku).

**Genus SCIARA Meigen**

**LYCORIA** Meigen, 1800: 17. Suppressed by I.C.Z.N., 1963b: 339.  
**SCIARA** Meigen, 1803: 263. Type species: *Tipula thomae* Linnaeus, 1767, mon.  
**adjuncta** Skuse, 1890c: 398. Australia (NSW).  
**aemula** Skuse, 1888b: 678. Australia (NSW).  
**amabilis** Skuse, 1888b: 712. Australia (NSW).  
**approximata** Skuse, 1888b: 697. Australia (NSW).  
**aquila** Skuse, 1888b: 692. Australia (NSW).  
**atratura** Skuse, 1888b: 704. Australia (NSW).  
**audax** Skuse, 1888b: 693. Australia (NSW).  
**brevifurca** Skuse, 1888b: 700. Australia (NSW).  
**cavicata** Skuse, 1888b: 688. Australia (NSW).  
**conjuncta** Skuse, 1890c: 403. Australia (NSW).  
**consanguinea** Skuse, 1890c: 401. Australia (NSW).  
**constrictans** Edwards in Tonnoir & Edwards, 1927: 792. NZ (NZ).  
**contermina** Skuse, 1890c: 395. Australia (NSW).  
**contractans** Edwards in Tonnoir & Edwards, 1927: 795. NZ (NZ).  
**crassicornis** Skuse, 1890c: 407. Australia (NSW).  
**distigma** Edwards, 1924f: 568. Fiji.  
**diversa** Skuse, 1888b: 701. Australia (NSW).  
**dolosa** Skuse, 1888b: 683. Australia (NSW).  
**erratica** Skuse, 1888b: 696. Australia (NSW).  
**evanescens** Skuse, 1888b: 698. Australia (NSW).  
**exposita** Skuse, 1890c: 397. Australia (NSW).  
**exsequialis** Skuse, 1890c: 409. Australia (NSW).  
**familiaris** Skuse, 1888b: 687. Australia (NSW).  
**femoralis** Doleschall, 1858: 78. Indonesia (Maluku).  
**festina** Skuse, 1888b: 684. Australia (NSW).  
**festiva** Skuse, 1888b: 689. Australia (NSW).  
**finitima** Skuse, 1888b: 677. Australia (NSW).  
**flavicoxis** Skuse, 1890c: 396. Australia (NSW).

- frequens* Skuse, 1888b: 682. Australia (NSW).  
*froggatti* Skuse, 1888b: 681. Australia (NSW).  
*fumipennis* Skuse, 1888b: 706. Australia (NSW).  
*griseinervis* Edwards *in* Tonnoir & Edwards, 1927: 793. NZ (NZ).  
*harrisi* Edwards *in* Tonnoir & Edwards, 1927: 797. NZ (NZ).  
*helmsi* Skuse, 1890c: 408. Australia (NSW).  
*ignobilis* Skuse, 1888b: 717. Australia (NSW).  
*infixa* Skuse, 1890c: 400. Australia (NSW).  
*infrequens* Skuse, 1888b: 719. Australia (NSW).  
*jejuna* Edwards *in* Tonnoir & Edwards, 1927: 796. NZ (NZ).  
*lucidipennis* Skuse, 1888b: 714. Australia (NSW).  
*luctifica* Skuse, 1888b: 680. Australia (SA).  
*luculenta* Skuse, 1888b: 705. Australia (NSW).  
*macleayi* Skuse, 1888b: 691. Australia (NSW).  
*maesta* Skuse, 1888b: 691. Australia (NSW).  
*marcilla* Hutton, 1902b: 192. NZ (NZ).  
*marginata* Skuse, 1890c: 399. Australia (NSW).  
*minutela* Skuse, 1888b: 702. Australia (NSW).  
*montivaga* Skuse, 1888b: 710. Australia (NSW).  
*neorufescens* Miller, 1950: 57 (n. n. for *rufescens* Hutton). NZ (NZ).  
*rufescens* Hutton, 1881: 13. NZ (NZ). [Preocc. Zetterstedt, 1852.]  
*notata* Skuse, 1888b: 720. Australia (NSW).  
*nubeculosa* Edwards *in* Tonnoir & Edwards, 1927: 793. NZ (NZ).  
*nubicula* Skuse, 1888b: 715. Australia (NSW).  
*ornatula* Skuse, 1888b: 711. Australia (NSW).  
*ovalis* Edwards *in* Tonnoir & Edwards, 1927: 795. NZ (NZ).  
*pernitida* Skuse, 1888b: 685. Australia (NSW).  
*philpotti* Tonnoir *in* Tonnoir & Edwards, 1927: 796. NZ (NZ).  
*pictipes* Skuse, 1888b: 721. Australia (NSW).  
*praescellens* Skuse, 1890c: 404. Australia (NSW).  
*prominens* Hardy, 1956c: 83. Hawaiian Is.  
*promiscua* Skuse, 1890c: 394. Australia (NSW).  
*reciproca* Walker, 1856d: 420. Australia (Tas).  
*recondita* Skuse, 1890c: 390. Australia (NSW).  
*rufulenta* Edwards *in* Tonnoir & Edwards, 1927: 794. NZ (NZ).  
*scitula* Skuse, 1888b: 699. Australia (NSW).  
*sedula* Skuse, 1888b: 674. Australia (NSW).  
*selecta* Walker, 1858b: 77. Indonesia (Maluku).  
*serenipennis* Skuse, 1890c: 402. Australia (NSW).  
*sororia* Skuse, 1888b: 716. Australia (NSW).  
*spectabilis* Skuse, 1888b: 716. Australia (NSW).  
*tapleyi* Edwards *in* Tonnoir & Edwards, 1927: 797. NZ (NZ).  
*tepperi* Skuse, 1890c: 393. Australia (SA).  
*tryoni* Skuse, 1890c: 391. Australia (Qld).  
*turrida* de Meijere, 1913a: 45. Indonesia (Maluku).  
*unica* Skuse, 1888b: 708. Australia (NSW).  
*varipes* Walker, 1865a: 102. "New Guinea" [= Indonesia (Irian Jaya)].  
*vecors* Skuse, 1888b: 695. Australia (NSW).  
*vicarians* Edwards *in* Tonnoir & Edwards, 1927: 793. NZ (NZ).  
*winnertzi* Skuse, 1888b: 709. Australia (NSW).  
*womersleyi* Séguy, 1940: 210. Kerguelen Is; Macquarie I.  
*xanthonota* Edwards *in* Tonnoir & Edwards, 1927: 795. NZ (NZ).

*zealandica* Edwards in Tonnoir & Edwards, 1927: 796. NZ (NZ). [Preocc. Kieffer, 1910; no n. n. proposed at this time.]  
*zealandica* Kieffer, 1910a: 327. NZ (NZ).

#### Genus SCYTHROPOCHROA Edwards

**SCYTHROPOCHROA** Enderlein, 1911c: 138. Type species: *Scythropochroa latefurcata* Enderlein, 1911, orig. des.  
*antarctica* Hudson, 1892: pl. 4, fig. 5a,b (*Mycetophila*). Not given [NZ (NZ)]. *Nomen dubium*.  
*gressitti* Steffan, 1969: 680. Micronesia; Guam.  
*nitida* Edwards in Tonnoir & Edwards, 1927: 799. NZ (NZ).  
*quadrispinosa* Steffan, 1969: 682. Belau.  
*samoana* Edwards, 1928c: 36. Western Samoa.  
*trispinosa* Steffan, 1969: 682. Marshall Is.

#### Genus TRICHOSIA Winnertz

**TRICHOSIA** Winnertz, 1867: 173. Type species: *Trichosia splendens* Winnertz, 1867, des. Coquillett, 1910: 616.  
*LEPTOSCIARA* Frey, 1942: 21, 28. Type species: *Sciara longiventris* Zetterstedt, 1851 [= *Sciara caudata* Walker, 1848], orig. des.  
*mastersi* Skuse, 1888b: 723. Australia (NSW).

#### Genus XYLOSCIARA Tuomikoski

*PLASTOSCIARA* Frey, 1942: 34. Type species: *Sciara lignicola* Winnertz, 1867, orig. des. [Preocc. Berg, 1899.]  
**XYLOSCIARA** Tuomikoski, 1957: 10 (n. n. for *Plastosciara*).  
*brevipes* Steffan, 1964: 293. NZ (Campbell I).

#### Genus ZYGONEURA Meigen

**ZYGONEURA** Meigen, 1830: 304. Type species: *Zygoneura sciarina* Meigen, 1830, mon.  
*maculipennis* Skuse, 1890c: 411. Australia (NSW).  
*remota* de Meijere, 1913b: 305. Indonesia (Irian Jaya).