

## Review of the Australasian Genera of Signal Flies (Diptera: Platystomatidae)

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**ABSTRACT.** The distribution patterns of platystomatid genera in the 12 recognized provinces of the Australasian Region are recorded. Notes are provided on biology and behaviour, including parasitism by fungi and strepsipterans, and mimicry of other insects and spiders. Means of separation from other acalyprate families are provided. A key to Australasian genera is given. The subfamily Angitulinae is placed in synonymy of Platystomatinae. The subfamily classification is briefly discussed. The following new genera are described: *Aetha*, *Bama*, *Eumeke*, *Hysma*, *Par*, *Phlyax*, *Signa*, *Tarfa*, *Terzia*, *Tomeus*. *Gonga* and *Polimen* are new subgenera of *Naupoda* and *Bama* respectively. The genus *Lasioxiria* Hendel is a new synonym of *Atopognathus* Bigot. *Chaetostichia* Enderlein is a new synonym of *Scholastes* Loew. *Eopiara* Frey, described as a subgenus of *Piara* Loew, is raised to generic status. The genera *Angituloides* Hendel and *Giraffomyia* Sharp are reduced to subgenera of *Angitula* Walker. The following new species are described: *Aetha cowanae*, *Bama (Polimen) shinonagai*, *Eumeke hendeli*, *Hysma lacteum*, *Paryphodes hospes*, *Signa mouldsi*, *Tarfa bowleyae*, *Terzia saigusai*, *Tomeus wyliei*, *Zealandortalis gregi*. *Lule speiseri* de Meijere, 1914 is a new synonym of *Phasiameya metallica* Walker, 1849. New generic combinations are made as follows: *Angitula austeni* (Hendel, 1913) (*Angituloides*); *Angitula irregularis* (Malloch, 1940) (*Giraffomyia*); *Angitula regularis* (Malloch, 1940) (*Giraffomyia*); *Angitula solomonensis* (Malloch, 1940) (*Giraffomyia*); *Angitula willeyi* (Sharp, 1899) (*Giraffomyia*); *Atopognathus hirsutus* (Hendel, 1914a) (*Lasioxiria*); *Bama bipunctatum* (Hendel, 1914a) (*Euxestomoea*); *Bama papuanum* (Hennig, 1940b) (*Xiria*); *Bama strigatum* (Hennig, 1940b) (*Xiria*); *Chaetorivellia tarsalis* (Walker, 1861c) (*Ortalis*); *Cleitamoides trigonalis* (de Meijere, 1913) (*Cleitamia*); *Eopiara chrysoptera* (Frey, 1964) (*Piara*); *Eopiara elegans* (Frey, 1964) (*Lamprogaster*); *Lamprophthalma egregia* (de Meijere, 1924) (*Plagiostenopterina*); *Lamprophthalma medionotata* (de Meijere, 1924) (*Plagiostenopterina*); *?Microepicausta sangiensis* (de Meijere, 1916) (*Elassogaster*); *Neohemigaster fascifrons* (de Meijere, 1916) (*Pterogenia*); *Neohemigaster guttata* (Walker, 1856) (*Lamprogaster*, later in *Pterogenia*); *Par evitta* (Malloch, 1939a) (*Elassogaster*); *Phlyax simmondsi* (Bezzi, 1928) (*Naupoda*); *Scholastes aduncivena* (Enderlein, 1924) (*Chaetostichia*); *Xiriella lunaris* (de Meijere, 1916) (*Lule*).