## A Key to the Genera of Drosophilidae of the Pacific Islands (Diptera)

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The descriptions of the 24 genera of Drosophilidae reported from the Pacific area are widely scattered and no recent attempt has been made to include them all in a single key. The present account has been drawn up largely from published descriptions and some characters may have been stressed that are not reliable in actual practice. As several of the genera have but one species, it is also likely that some of the characters used are specific rather than generic and, consequently, some of the names included here may be synonyms of older genera. In many instances sufficiently clear-cut characters are not given in the literature and I have been unable to devise adequate contrasting couplets; in such cases a short summary of the known generic characters is given, the alternative being only the stock phrase: "Not entirely as above."

The writer has been fortunate in having access to the extensive collection of Drosophilidae of Dr A. H. Sturtevant, Pasadena, Calif., as well as to his notes on the types of a number of Pacific species. Several of the island records are from specimens in his collection.

## Key to Genera

1.	Mesonotum with 3-4 pairs of strong dorsocentrals, at least one of them pre- sutural
	Mesonotum with 1-2 pairs of dorsocentrals, all postsutural
	Acrostichal hairs in 6 or more rows 3 Acrostichals in 2-4 rows 5
	Four pairs of dorsocentrals; lower margin of gena quite densely haired; size up to 6.5 mm
4.	Lower angle of face with a conspicuous row of strong black bristles curved inwards in front of face; face not carinate; costal index about 3.5; posterior crossvein strongly inclined basally(Hawaii) Hypenomyia Grimshaw Not entirely as above(part; all regions) Drosophila
5.	Eyes oblique, much longer than wide; arista with one dorsal and one ventral ray basal to terminal fork(Marquesas) Rosenwaldia Malloch Eyes normal; arista with numerous dorsal rays and several ventral ones
6.	With 4-5 pairs of dorsocentrals, 1-2 of them presutural; fore femora with a comb of short, stout spines on inner apical 1/3 or more
	With 3 pairs of dorsocentrals, anterior pair at or close to the suture; no femoral comb
7.	Arista furcate, the two branches about equal in length, the lower branch sometimes with a short preapical hair on upper side
	Arista plumose, pectinate or pubescent

8.	Arista pubescent; prescutellars strong	9 10
9.	Mesonotum reddish-brown, without spots; costal index near 5.0; wings with dark pattern of spots on veins and in cells(Hawaii) <b>Pseudiastata</b> Coquil Mesonotum with spotted pattern; costal index near 2.5; wings without complex pattern(Hawaii; Australia) <b>Gitonides</b> Knab (?=Cacoxenus Log	llett
10.	Arista short pectinate dorsally, without ventral branches; pale bluish-gray pruinose species with enlarged bristles(Hawaii) <b>Titanochaeta</b> K Arista distinctly plumose	,
11.	Entire frons highly polished or with a large glossy central triangle extending to anterior margin and only narrowly separated from the equally shining orbits; more or less metallic colored species	12 13
12.	inner surface	
13.	Acrostichal hairs in 6 or more rows	14 23
14.	vein; size up to 7.0 mm(Hawaii) <b>Idiomyia</b> Grimsl Extra crossvein not present as described; size smaller	iaw 15
	Acrostichals in 10 or more rows, often irregular; prescutellars strong	16 17
16.	Costa reaching 3rd vein or slightly beyond; face flattened, not noticeably carinate; anterior reclinate orbital close to proclinate and closer to eye margin than the latter; 3rd costal section usually with small thorn-like warts on under side	Mik
	Anterior reclinate orbitals large, placed well anterior to the proclinates; post-verticals small or minute; inner surface of fore femur of male with row of stout spines; often with fore femora, tibiae and metatarsi dark, the other legs and fore tarsi pale	
18.	Distal costal incision exceptionally deep, the lobe thus formed prominent and black, usually protruding beyond margin	19 20
19.	All three orbitals large and of about equal size; hind tibia with a distinct bristle about 1/3 from base on postero-dorsal surface; two pairs of subequal dorso-centrals; mostly pale yellowish species with darker markings	
	Anterior reclinate orbital usually much smaller than other two; hind tibia without described bristly hair; often with only one pair of dorsocentrals; usually dark species or dark above and contrastingly pale below	
20.	Proboscis heavily chitinized, stout, straight and downwardly projecting, the apical section often as long as head height; central frontal triangle often distinct, large and subshining; oral margin indented medianly, the cheeks extended forward on either side; orbitals often in nearly a straight row and about equally separated at bases	
	Not entirely as above; rarely with any of the above characters, never with all of them	21