

at its base with the discal cell; the marginal vein encompasses the whole wing; some or all the tibiae with spurs.

Third joint of the antennae annulate, never with differentiated style or bristle; tegulae rather large. **TABANIDÆ**

Third joint of antennae simple, with a simple, or thickened styli-form, bristle; tegulae rudimentary. **LEPTIDÆ**

TABANIDÆ.

Species never very small, often among the largest in the order; never thickly pilose; in life the eyes usually brilliantly colored and marked. Head short, broad, eyes large. Antennae porrect, the third joint composed of from three to eight annuli or segments. Thorax not very convex, scutellum without spines on its border. Abdomen broad, moderately elongate or short, never slender or constricted. Legs moderately stout, the front and middle tibiae sometimes dilated, the middle tibiae always with spurs. Veins of the wings distinct; first posterior cell (and fourth in exotic species) rarely closed.

Early stages passed in the water or earth; larvae carnivorous, with a distinct head; pupae free. The females are blood-sucking, usually found in the neighborhood of pastures, in sunny open parts of woods, during the hot sun-shiny days of summer. The males are much more rarely met with, and will be found usually in sweepings of meadow lands, on flowers, etc.

1. Hind tibiae with spurs at their tips, sometimes small. (*Pangoninae*.) 2
Hind tibiae without spurs; ocelli absent. (*Tabaninae*.) 5
2. Third joint of the antennae composed of eight annuli, the first of which is only a little longer than the following ones. 3
Third joint composed of five or fewer segments, the first of which is much longer than the following; ocelli present. 4
3. Front of female narrow, without denuded callus; ocelli rarely absent. **PANGONIA**
Front of female broad, with a large, broad, denuded callus; ocelli present. **APATOLESTES**
4. Second joint of the antennae about half as long as the first; wings hyaline or with small spots; eyes in life with numerous small dots. **SILVIUS**