

ON CHILOPODS OF THE FAMILY MECISTOCEPHALIDÆ.

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While some confusion still exists in the application of the generic name *Mecistocephalus* Newport and consequently of the family name *Mecistocephalidæ*, under the rules of the International Code the problem is a simple one, and *punctifrons* Newport is clearly the type of the genus. *Lamnonyx* thus falls as a synonym to *Mecistocephalus*. In the present paper *Mecistocephalus* is regarded as thus unalterably fixed, and the family *Mecistocephalidæ* is treated broadly as including all *mecistocephaloid* forms

KEY TO GENERA OF THE MECISTOPHALIDÆ.

- a. Coxosterna of second maxillæ discrete, not fused at middle line; palpi of second maxillæ clawless..... (Arrupinæ).
 - b. Coxæ of first maxillæ discrete..... Arrup Chamberlin.
 - bb. Coxæ of first maxillæ fused..... Prolamnonyx Silvestri.
- aa. Coxosterna of second maxillæ united at middle line; palpi of second maxillæ with claws..... (Mecistocephalinæ).
 - b. Cephalic plate with a stout spine beneath near each anterolateral corner; clypeal region divided by a distinctly areolate median longitudinal band extending from anterior areolate area; clypeal setæ few.
 - c. Coxopleuræ of last pediferous segment very large, extending to or beyond the spiracle of the preceding segment..... Megethimus Cook.
- cc. Coxopleuræ of last pediferous segment of normal size, not embracing the preceding segment.
 - d. Laminae of mandibles, excepting the first, with teeth confined to distal region proximad of where they are replaced by a close line of cilia.
 - Lateral pieces of labrum with margin ciliate throughout..... Dasyptyx Chamberlin.
 - dd. Laminae of mandibles with teeth throughout, no such ciliate lines.
 - e. Labral margins shortly ciliate throughout; teeth of mandibular laminae, except distally, exceedingly minute..... Brachyptyx, gen. nov.*
- ee. Labral margins either wholly smooth or setose or ciliate only for a very short distance subjacent to median angles; proximal teeth of mandibular laminae not at all or only moderately and gradually reduced.
 - f. Labral margins wholly smooth; teeth of first lamina of mandibles seven or less..... Mecistocephalus Newport.
 - ff. Labral free margins with a few setæ or a short line of cilia at mesal ends subjacent to median piece; teeth of first mandibular lamina ten or more, the mesal edge of mandible serrate..... Pauroptyx, gen. nov.

*Genotype, *Mecistocephalus mirandus* Pocock (*Lamnonyx mirandus* Silvestri).
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