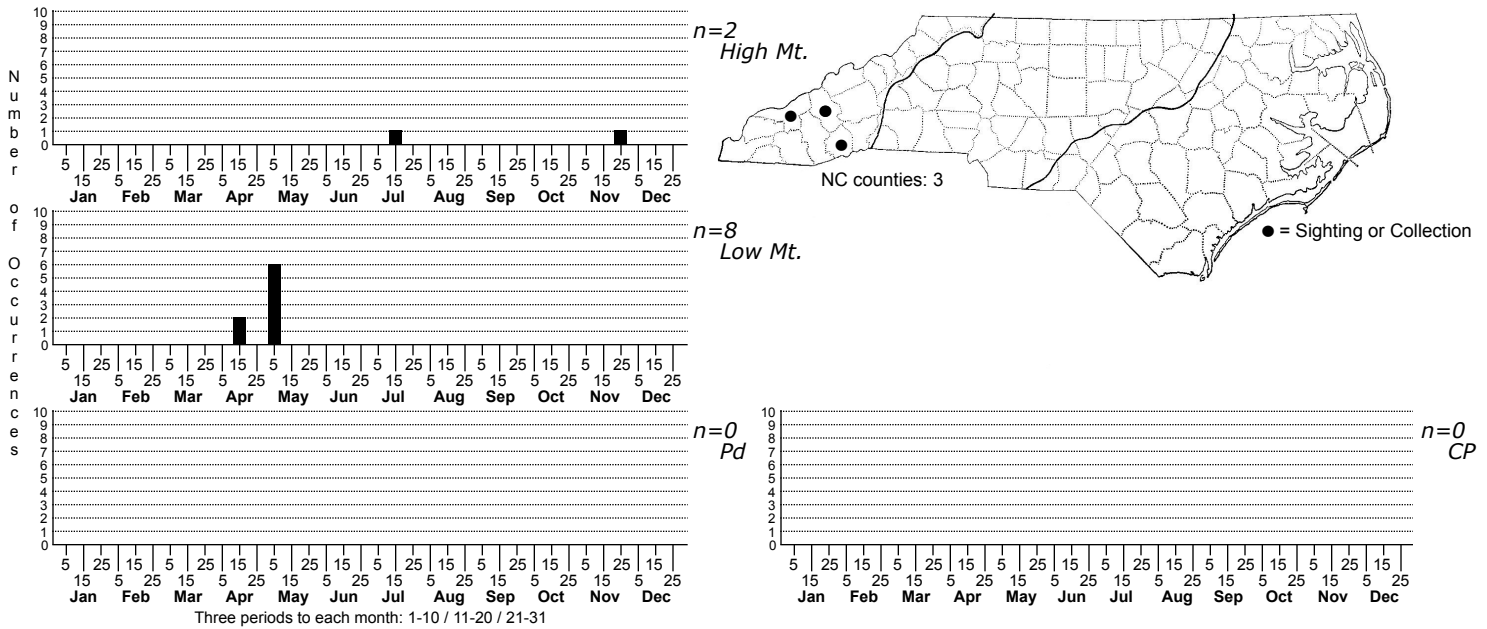


## *Dianea basalovoi*



FAMILY: Isohypsibiidae

TAXONOMIC COMMENTS: Transferred from Isohypsibius to Dianea by Gasiorek et al 2019. Morphologically indistinguishable from species reported from Europe but molecular evidence for further comparison unavailable.

SPECIES COMMENTS: Freshwater. Previously found in Europe, only reported from NC and TN in USA.

ID COMMENTS: Colorless. Eye spots present. The sculpture of the cuticle is composed of irregular polygonal plates, of variable size, which form a very pronounced network (maximum size of the mesh about 5  $\mu\text{m}$ ). This sculpture, most evident on the dorsum, is clearly defined, and is absent on the flanks and the ventral side. Besides the plates of the sculpture, the dorsum has flattened hemispherical gibbosities, on each of which the sculpture forms mesh much smaller and denser. The gibbosities are arranged in nine transverse rows, distributed as follows:

- 1st row: two gibbosities
- 2nd row: two gibbosities (in a single specimen, 4)
- 3rd row: four gibbosities
- 4th row: four gibbosities
- 5th row: four gibbosities
- 6th row: two gibbosities (in two specimens, 4)
- 7th row: four gibbosities
- 8th row: four gibbosities
- 9th row: three gibbosities

The buccal tube is rather narrow (23.4  $\mu\text{m}$  long and 2  $\mu\text{m}$  wide, in the holotype). Apophyses muscle attachments in the shape of crests. Slender stylets, with small furcae, spread very wide. Stylet supports long, straight, slender. Pharynx subcircular (20 by 18  $\mu\text{m}$ ), at times a little pyriform, having the greatest width in the posterior third. Apophyses are present; and three macroplacoids, in the shape of short rounded rods: the first two very close to each other, almost in contact, are very short, equal, or else the second scarcely longer than the first; the third is more elongated. Microplacoid absent. Legs short and stumpy; the fourth pair has a smooth gibbosity on the dorsal side. There is no cuticular bar on the first pair of legs, as present in some species of Isohypsibius. The doubleclaws are large, massive, those of each leg almost equal. The common branch is very short, with an expanded base variously developed, at times scarcely noticeable, spinous, at times large and almost like a lunule, lunuliform. Such enlargement is always more marked on the fourth pair of legs. The two branches, principal and secondary, are almost equally developed, long, robust, with greatest thickness at a certain distance from the common junction. The principal branch runs straight, with an abrupt terminal curvature almost at a right angle, and has two very small accessory points, difficult to see even with oil immersion phase contrast. The secondary branch is strongly arched.

-Ramazzotti & Maucci 1983

DISTRIBUTION: Please refer to the dot map.

HABITAT: Freshwater streams and periphyton. Rarely seen in terrestrial samples.

OBSERVATION METHODS: PC, DIC