

## Some Freshwater Suctorians from Aguascalientes State, Mexico

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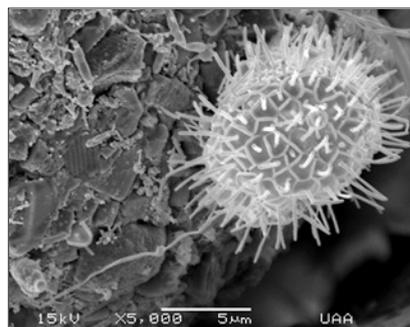
### Abstract

Suctories are ciliated protists that trap their prey through long tentacles that have haptocysts at the tip and suck up the cell's contents. Some representatives have been found in the freshwater bodies of the state of Aguascalientes, Mexico. So, it is important to know the biodiversity of this group.

**Keywords:** Ciliophora; Suctoria; Preys; Waterbodies; México

### Introduction

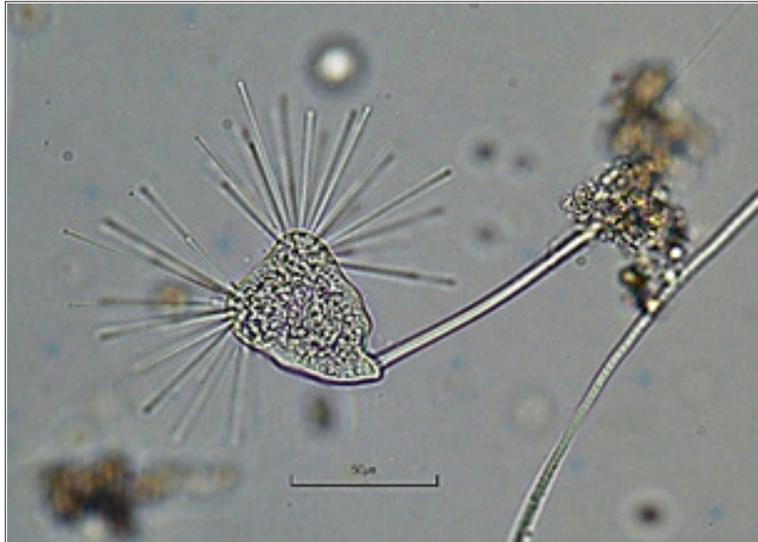
The suctorians (Ciliophora: Suctoria), are the vampires of the waterbodies, due not having a cytostome to feed, instead they have long capitate suction tubes or not called haptocysts (Figure 1-4), and with or without basal widening [1], similar to tentacles, which when catching their prey, they suck the contents of the cell until they are practically empty. They are relatively common in the state of Aguascalientes, which contains myriads of small temporary ponds and some dams that provide drinking water to cities and to water livestock in rural communities.



**Figure 1:** Suctorian (unidentified), showing the no capitate haptocysts, with the basal widening, attached to surface of the tecate Sarcodina *Diffugia* sp. Dam Arroyo Seco. Ags. México. SEM imagen. M: 172. Coordinates: 21° 57' 46.26" N; 102° 23' 21.18".



**Figure 2:** Probably *Discophrya* sp., suctorian showing the capitate haptocysts, apparently without basal widenings close to mass of organic matter. Also, shows the large vacuoles in the cytoplasm. Pond UAA, Ags. Digital imagen. Coordinates: 102° 18' 57.42".



**Figure 3:** *Tokophrya sp.* suctorian ciliate that lives as a predator using its capitata straight haptocysts that it uses to penetrate the prey by sucking the victim's cellular content, since they do not have a cytostoma (mouth). Inhabits small ponds. Collected in Pond UAA, Ags. Digital imagen.



**Figure 4:** *Tokophrya sp.* suctorian living on a rotifer (*Filinia cornuta*), probably uses it as a transport (Foresia), the basal widening is attached to the rotifer and is showing its tentacles that at the tip of these contain haptocysts, which suck the content of the prey. Pond UAA, Ags. Digital imagen.

### Objectives

The aim of this work to show with SEM and digital images the presence of these ciliated protists in the waterbodies in Aguascalientes State.te.

### Materials and Methods

Plankton samples were taken in different localities of the state, these were fixed in 4% formaldehyde, prepared for SEM (JEOL LV-5900), and digital images were obtained from living organisms, using a NIKON Eclipse light microscope, and a Ni digital camera.

### Results

The results are the following. The Suctorians found in the study are: Unidentified (Figure 1), *Discophrya cf. elongata* (Figure 2), [2], and *Tokophrya sp* (Figure 3 & 4), [3].

### Conclusion

The presence of these ciliates contribute to the balance of freshwater ecosystems. It is necessary to do more studies of this group, to know the biodiversity, understand the function of these ecosystems and their importance.

## References

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