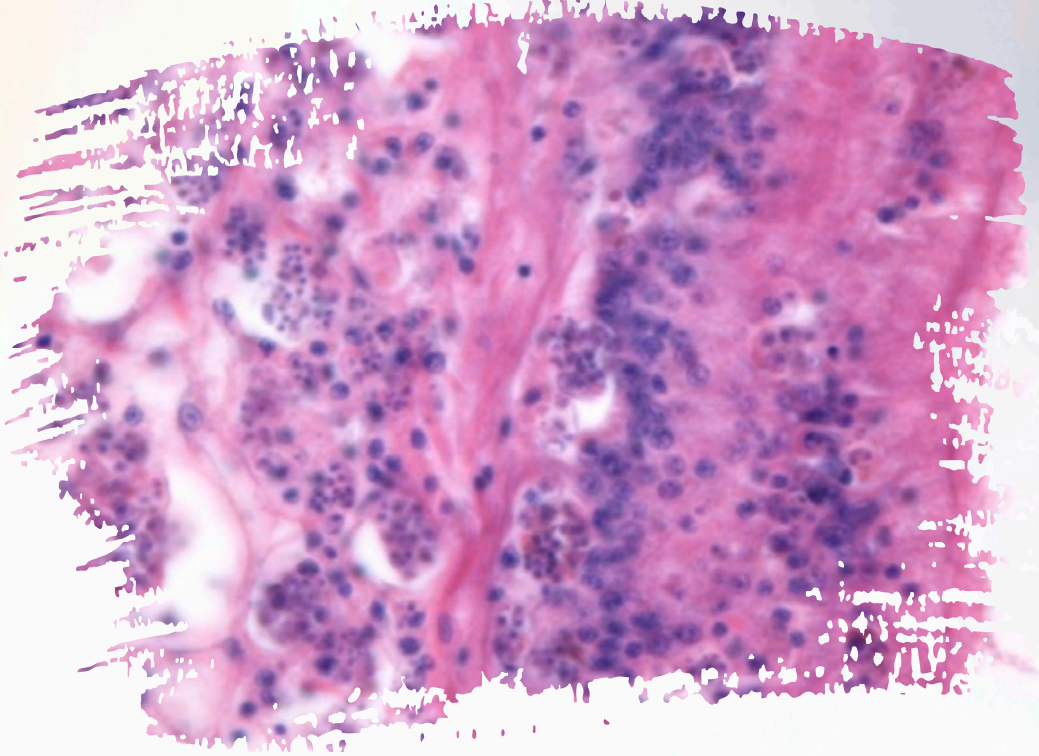


# FAUNA OF INDIA CHECKLIST

JULY, 2024

ONLINE VERSION 1.0



## PROTISTA: ALVEOLATA: PERKINSOZOA, Norén & Moestrup, 1999

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**Key words:** Perkinsozoa, bivalves, India, checklist, protozoa biodiversity.

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**Comments on the checklist:**

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**ZOOLOGICAL SURVEY OF INDIA**  
Ministry of Environment, Forest & Climate Change

# PROTISTA: ALVEOLATA: PERKINSOZOA, Norén & Moestrup, 1999

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**Introduction:** A harmful protist, Perkinsozoa is a hypothesized phylum of intracellular parasites in the infra-kingdom Alveolata. It has been put forth as an explanation for the genus Perkinsus and other existing protist species that are unable to be grouped into the Alveolata phyla. Although it has recently been suggested that the genus Perkinsus belongs to a new phylum called Perkinsozoa in the infra-kingdom Alveolata, opinions on whether this genus should constitute a separate phylum are still divided. As a result, opinions on how to express its taxonomic classification vary.

**Global diversity:** Bivalves, toxic-tide dinoflagellates, fish, and tadpoles are all affected by the Perkinsozoa genus of parasitic protists. As a relatively new classification, the precise number of species in the phylum Perkinsozoa is unknown.

**Diversity in India:** In India, only two species have been recorded till date.

**Diversity in States (Table)**

Sl.No.	State/Union Territory	No. Species	No. Endemic Species
1	Andhra Pradesh	0	
2	Arunachal Pradesh	0	
3	Assam	0	
4	Bihar	0	
5	Chhattisgarh	0	
6	Gujarat	0	
7	Goa	1	
8	Haryana	0	
9	Himachal Pradesh	0	
10	Jharkhand	0	
11	Karnataka	0	
12	Kerala	0	
13	Madhya Pradesh	0	
14	Maharashtra	0	
15	Manipur	0	
16	Meghalaya	0	
17	Mizoram	0	
18	Nagaland	0	
19	Odisha	0	

Sl.No.	State/Union Territory	No. Species	No. Endemic Species
20	Punjab	0	NA
21	Rajasthan	0	
22	Sikkim	0	
23	Tamil Nadu	1	
24	Telangana	0	
25	Tripura	0	
26	Uttar Pradesh	0	
27	Uttarakhand	0	
28	West Bengal	0	
29	Andaman & Nicobar	0	
30	Chandigarh	0	
31	Dadra Nagar Haveli, Daman & Diu	0	
32	Delhi	0	
33	Jammu & Kashmir	0	
34	Ladakh	0	
35	Lakshadweep	0	
36	Puducherry	0	
	<b>INDIA TOTAL</b>	<b>2</b>	<b>0</b>

**Endemism:** No species of the phylum Perkinsozoa are endemic to India.

**Habitat:** Freshwater habitats are less well known than those in the marine environments where Perkinsozoa can be found. Records of the Perkinsozoa phylum in sediments are essentially nonexistent.

**Ecological Significance:** Perkinsozoa, which are prevalent in marine environments, can play important ecological functions in the marine creatures' food chain. In addition to serving as host regulators, parasites are crucial to the food chain.

**Human Significance:** The parasites of the phylum Perkinsozoa have been associated with parasitic diseases in terrestrial and marine animals, particularly amphibians, which can be detrimental from an economic standpoint.

**Threatened species:** Species of the phylum Perkinsozoa from India are not assessed for IUCN threat categories.

**Protected Species as per WPA (2022):** Species of the phylum Perkinsozoa are not listed under any schedules of Wildlife Protection Act (2022).

**Species under CITES:** Species of the phylum Perkinsozoa are not listed under any appendices of CITES.

**Invasive alien species:** No Perkinsozoan species are reported to be invasive in India.

**Gap areas:** There aren't many perkinsozoan research done in India. Being a new phylum, Perkinsozoa needs to be investigated much more, and new discoveries will undoubtedly open up new avenues for research into the taxonomy of perkinsozoans.

Sl. No.	Species
	Phylum PERKINSOZOA, Norén & Moestrup, 1999
	Class PERKINSEA, Levine 1978
	Order PERKINSIDA
	Family PERKINSIDAE, Levine 1978
	Genus <i>Perkinsus</i> , Levine, 1978
1	<i>Perkinsus olsenii</i> , Lester and Davis (1981)
2	<i>Perkinsus marinus</i> , (Mackin, Owen & Collier) Levine 1978

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