

GREGARINA POLYMORPHA (APICOMPLEXA: EUGREGARINIDA)
IN THE BODY CAVITY OF OMMATOIULUS SABULOSUS L.
(ARTHROPODA: DIPLOPODA)

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Gregarines are diverse group of protozoans that parasitize a wide range of invertebrate phyla, including annelids (Pižl, Acta Protozool., 29, 361, 1990) and arthropods (Lipa, Acta Protozool., 5, 97, 1967; Clopton et al., J. Protozool., 38, 472, 1991). So far, it is well known that gregarines are common parasites of tropical millipedes (Janardanan & Ramachandran, Zool. Anz., 203, 392, 1979). Therefore, the efforts were made to clarify if gregarines may parasitize European millipede *Ommatoiulus sabulosus*.

Specimens of parasitic *Gregarina polymorpha* were found in the body cavity of adult *O. sabulosus*. Gregarines exist and developed normally in the body cavity of *O. sabulosus* because cellular encapsulation around *G. polymorpha* was not observed. To survive in the body cavity of the host *G. polymorpha* have involved in life cycle mechanisms of adaptations. The action of the counter defence of the parasite to millipede immunity is a partial escape of *G. polymorpha* from immunological control of the *O. sabulosus*. Gregarines cause little or no damage to the hosts they invade. Further studies clarifying the influence of parasitic gregarines on millipede immune system are necessary.