

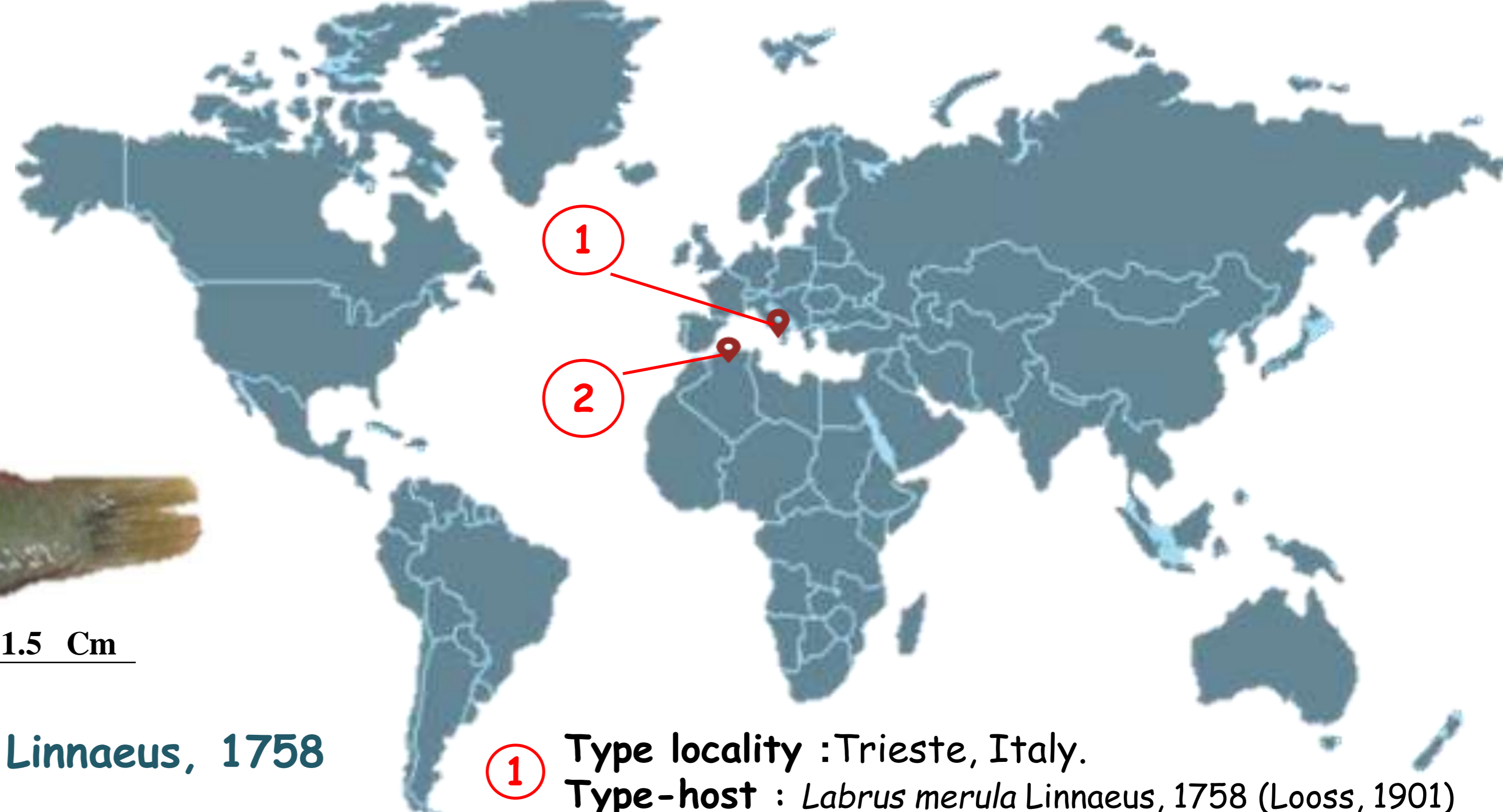
Background

The *Derogenidae* Nicoll, 1910 are represented by *Derogenes minor* Looss, 1901, currently a valid species (WoRMS, 2022). *D. minor* was first described in the stomach of brown wrasse *Labrus merula* Linnaeus, 1758 (Labridae) from off the coast of Trieste, Italy, Western Mediterranean (Looss, 1901). We record this species from Algeria (**New locality**) in Gall-bladder (**New microhabitat**) in *Xyrichthys novacula* Linnaeus, 1758 (**New host**).

As part of a continuing effort to explore the diversity of Digenea flatworm parasites of fishes off Algeria, 30 specimens of *Xyrichthys novacula* Linnaeus, 1758 collected off Algeria, southwestern Mediterranean. The digestive tube was carefully examined for the presence of parasitic Digeneans.



Xyrichthys novacula Linnaeus, 1758



- ① Type locality : Trieste, Italy.
Type-host : *Labrus merula* Linnaeus, 1758 (Looss, 1901)
- ② Algeria : **First record**.
Xyrichthys novacula Linnaeus, 1758 : **New host**.

Morphological study

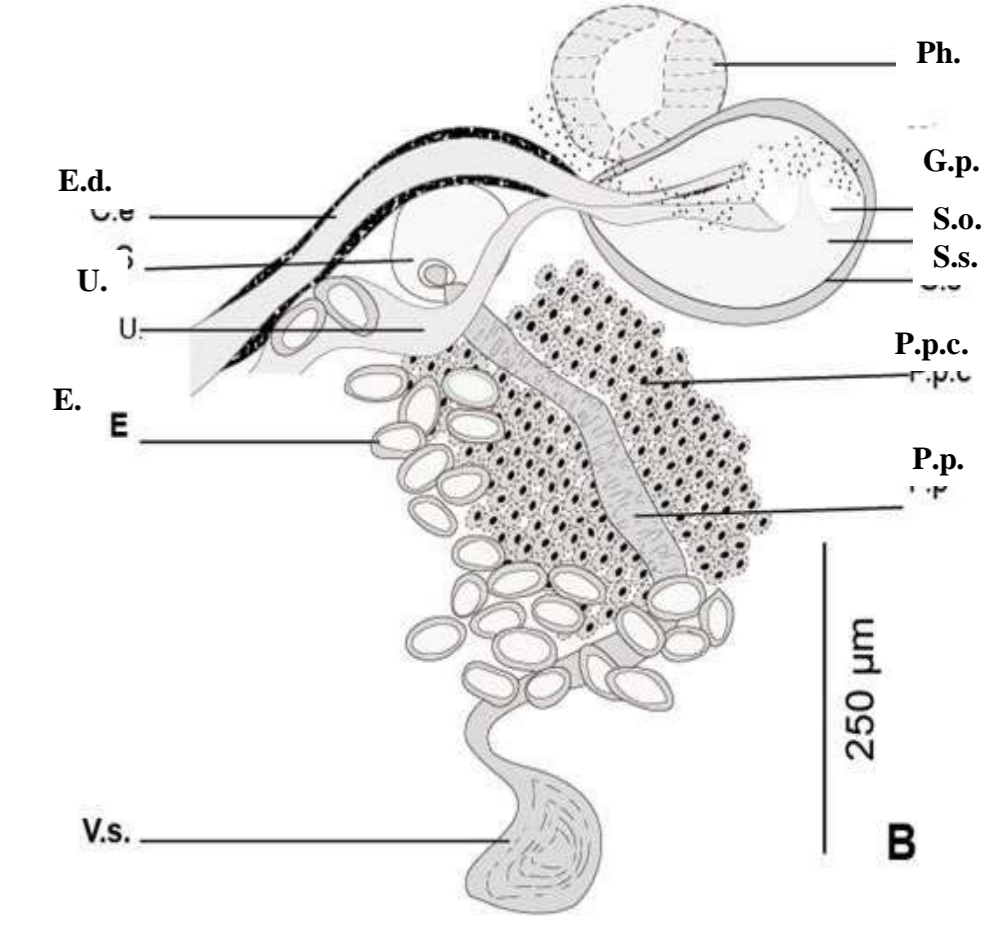
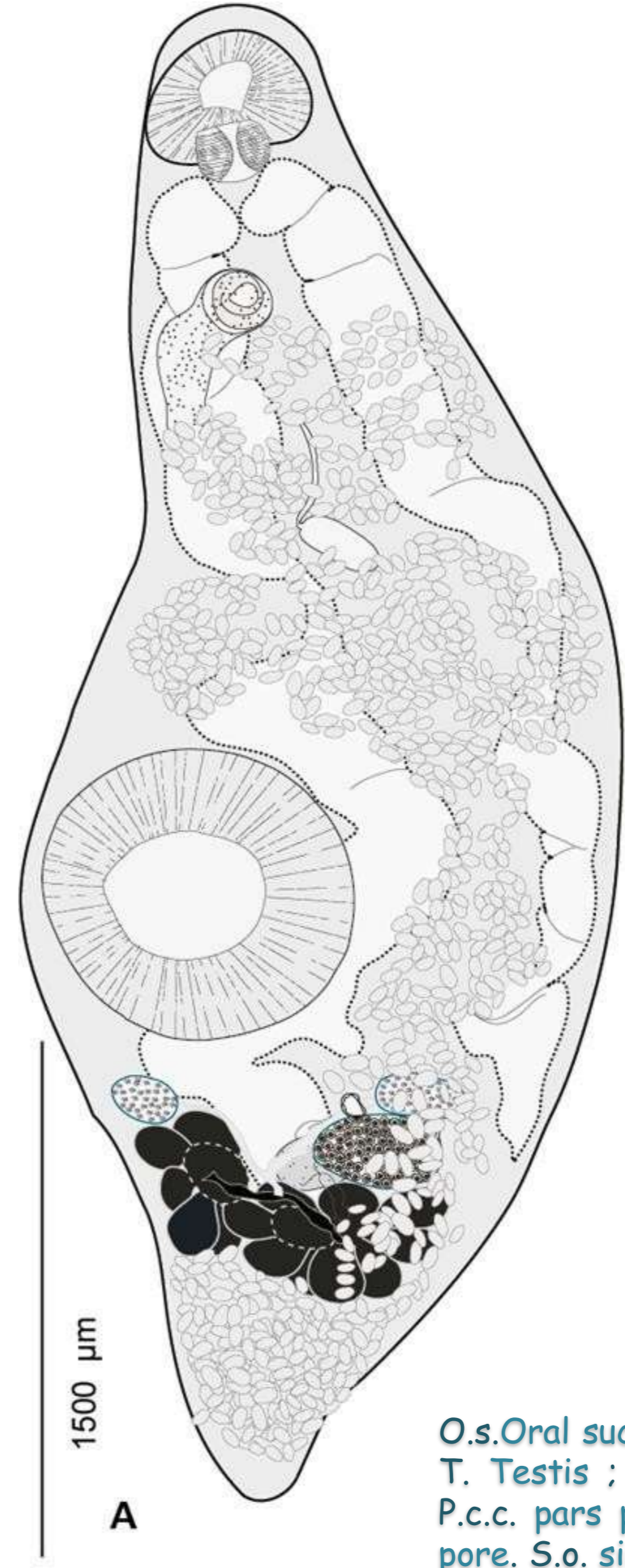
Class: Trematoda
Sub-class: Digenea
Family: Derogenidae Nicoll, 1
Genus: *Derogenes* Lühe, 1900

Result and discussion

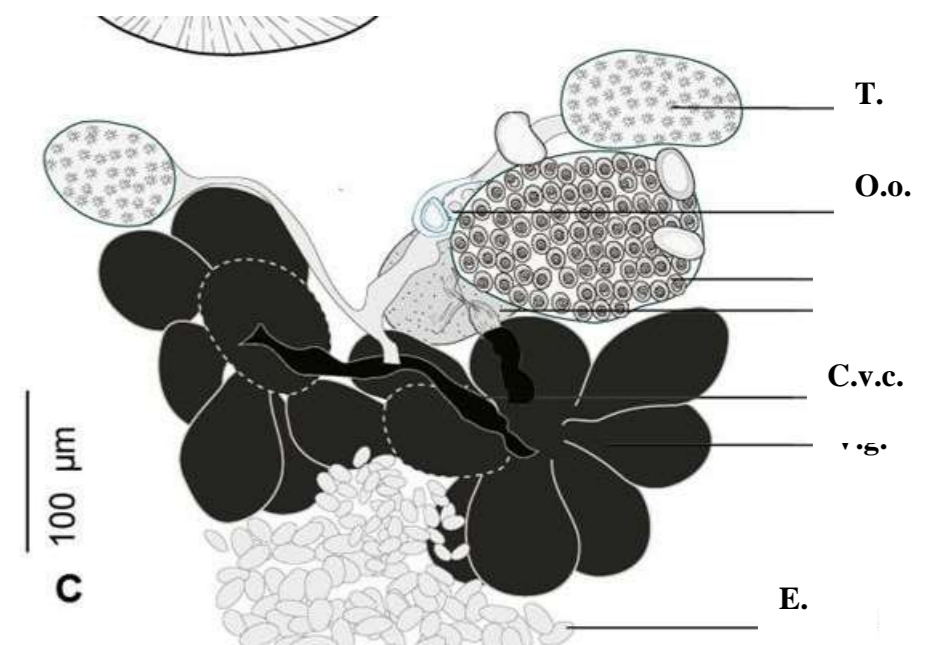
- *D. minor* Looss, 1901 species is similar to its congeners in that it has a robust body and multilobed vitellogenic glands.
- Morpho-anatomical analysis shows that our specie are distinguished also by:
 - ✓ small ovoid seminal vesicle
 - ✓ spherical genital atrium
 - ✓ the existence of the Juel organ.



Derogenes minor Looss, 1901.
Ventral view



• Detail of anatomy of Apparatus male genitalia



• Detail of anatomy of Apparatus female genitalia

O.s. Oral sucker; V.s. Ventral sucker; Ph. Pharynx; O. Ovary; T. Testis; E. Egg. S. sphincter. H.d. hermaphroditic duct. P.c.c. pars prostatica cells. S.v. seminal vesicle. G.p. genital pore. S.o. sinus organ. S.s. sinus sac. E.c. ejaculatory duct. U. uterus. Oo. oötype. G.v.: vitellogenic gland. Jo: Juel's organ. P.p.: pars prostatica. C.v.c.: common yolk canal.

Derogenes minor is a Mediterranean species (Italy vs Algeria), parasitizing the same Labridae family but in different hosts (*Labrus merula* vs *Xyrichthys novacula*) and infesting different microhabitats (stomach vs gall bladder).



1. Looss A. 1901. Über einige Distomen der Labriden des Triester Hafens. Centralblatt für Bakteriologie, Parasitenkunde und Infektionskrankheiten, 29, 398–405. 437–442.
2. Gibson DI. Family Derogenidae Nicoll, 1910. in Keys to the Trematoda. (Vol. 1) Gibson DI, Jones A, Bray RA, Editors. CAB International and the Natural History Museum: Wallingford. p. 351–368.