



TEGUMENT

Source-linked image preparation and
boundary review

Society for Evolutionary Parasite Systematics

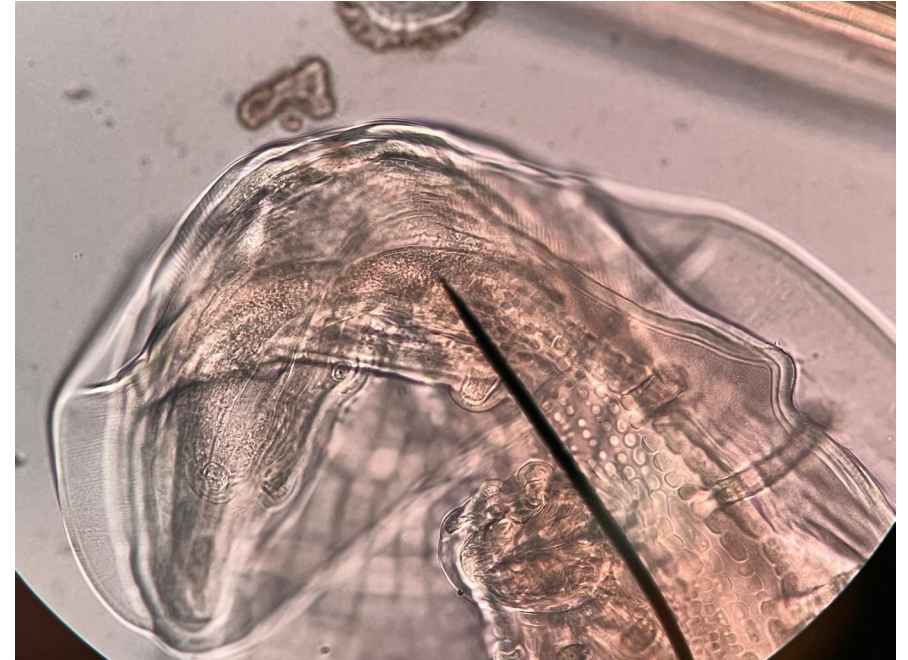




Image preparation records

01 Original

Retain pixels, checksum and acquisition metadata

02 Region

Record crop coordinates in the original image

03 Boundary

Review masks, overlap and clipped structures

04 Derivative

Retain transforms and the source relationship

Current specification includes manual review and prototype paths.

A boundary depends on the task



Task	Required review	Consequence
Whole-body outline	Continuity and overlapping organisms	Reject bridges across separate structures
Hook or spicule	Tip, base and view orientation	Partial visibility limits length claims
Egg profile	Wall and internal objects	Avoid including debris in the boundary
Stitched whole mount	Seams and local transforms	Verify scale throughout the composite

Dwyer, M. R. (2026). SEPS:PRISM methodology reference, version 1.2, 18 October 2026. Society for Evolutionary Parasite Systematics. Current implementation includes manual and prototype paths; no validated end-to-end classifier claimed.

Evaluation of segmentation



Overlap

$\text{IoU} = \text{intersection area} / \text{union area}$

$\text{Dice} = 2 \times \text{intersection} / \text{total mask area}$

Compare against reviewed reference masks.

Diagnostic completeness

Check whether the mask retains the structure that matters.

A small missing tip can change a measurement despite high overlap.

No segmentation performance estimate exists for this recovered set.