



SEPS:PRISM

Specimen evidence and research architecture

Society for Evolutionary Parasite Systematics



Current pipeline responsibilities

01 FieldView or import

Original images and specimen context

03 HookFuse

Diagnostic structures and measurements

05 FUZZARIA and review

Evidence limits and expert determination

02 TEGUMENT

Reviewed boundaries and source-linked crops

04 Candidate comparison

Supported task and reference classes

06 Evidence export

Images, data and versioned decisions

Current specification includes manual review and prototype paths.

PARAPLEX ecological analysis



Reviewed inputs

Host and specimen identifiers.

Defined examination events and target-specific eligibility.

Identification limits from FUZZARIA and expert review.

Executed analysis

Source-ledger ingestion and broad-group summaries.

Recorded co-detection and identifier reconciliation.

Population and transmission models require suitable data.

Recovered data support distinct questions



Dataset	Observed unit	Current result
Host count archive	33 host rows	178 AgCo and 2 NeFa recorded parasites
Nematode profiles	2 regions in 1 frame	Pixel geometry and outline reconstruction
Pentastome reference	37 primary configurations, 14 hosts	Host permutation $p = 0.2387$
Clinical morphology	1 tegu case	External views and attributed clinical review
Necropsy master	194 rows and 81 reptile hosts	PARAPLEX source-linked summaries

SEPS scientific collection reports and data tables, 22 October 2026. Host eligibility, anatomy and source identity limitations remain in the associated manuscripts.

Validation endpoints



Measurement and shape

Estimate bias against a calibrated reference.

Repeat tracing and assess orientation sensitivity.

Keep individual specimens and hosts identifiable.

Taxonomic support

Hold out the biological units required by the intended use.

Report errors and unresolved cases together.

Preserve the diagnostic argument and expert decision.