



Figure S1. A. Resin slide of whole-sample meiofauna extraction fixed for TEM and embedded in the form of a microscope slide. B. Anterior end of *Cicerina debrae* (Platyhelminthes, Kalyptorhynchia) from such a slide, photographed by DIC microscopy; note proboscis (pr) with secretory ampules (sa) and pharynx (ph). C. Flow diagram of the preparation of resin slides (from 32).

Table S1. Historical/modern comparison of turbellarian species at EI, organized by sub-taxon. Historical data collected by Reinhard Rieger in August 1970 (5500 specimens, ~69 spp). Modern data from collections made from June 2009 – January 2019. Names of undescribed taxa used here are labels and not being made available for formal taxonomic purposes. Abundances are from 1970.

Rieger Helping Name	Abundance	Contemporary name
Acoelomorpha (4 spp.)		
AcoelGelb	37	<i>Kuma flava</i>
AcoelBraun	5	<i>Anaperus singularis</i> ?
Nemertoderma	7	<i>Sterreria cf. psammicola</i>
Paratomella	4	<i>Paratomella rubra</i>
AcoelUndet.	23	
Catenulida (1 sp.)		
<i>Retronectes</i> outerbanks	10	<i>Retronectes atypica</i>
Macrostomorpha (7 spp.)		
<i>Microstomum</i>	1	<i>Microstomum</i> "gracile"
<i>Paramyozonaria</i>		<i>Paramyozonaria rosacea</i> ?
<i>Macrostomum</i>	1	
<i>Myozona</i>	3	<i>Myozona</i> sp.

<i>Psammomacrostomum</i>	6	<i>Psammomacrostomum</i> n.sp.
<i>Paramalostomum</i>	286	<i>Paramalostomum</i> n.sp. "riegeri"
<i>Haplopharynx</i>	9	<i>Haplopharynx</i> n.sp.
Prolecithophora (3 spp)		
Archimonotresis	3	<i>Archimonotresis</i> n.sp.
Plagiosand	215	<i>Plagiosomum</i> "corculum"
Plagiotief	3	
Proseriata (20 spp.)		
Pros. reise	531	<i>Cirrifera</i> cf. <i>xanthoderma</i>
Pros. mittelparynx	8	
Pros atypisch	420	
Pros bitestes	190	Monocelid 2-testes ?
Pros unmöglich	1	<i>Prosogynopora riseri</i>
Pros neu	2	
Nematopl gr. Aug	150	<i>Nematoplana</i> Augi
Nematopl (unreadable) Aug	40	<i>Nematoplana</i> sp.
Togarma	8	
<i>Polystyliphora</i>	407	<i>Polystyliphora</i> cf. <i>karlingi</i>
Ostostumpf	590	<i>Kataplana celeretrix</i>
Ostospitz	600	<i>Phyllosyrtis</i> n.sp. "hannafloydae"?
Otokurzspitz	50	
Otolog	81	
Otogross II	8	Otogross
Otoriese	11	Otoriese
Otorhabdot	1	Otorhabdot
Otofett	3	
Pros (unreadable)	11	
Pros bromol	364	Monocelididae n.g. n.sp.
Rhabdocoela: Dalytyphloplanidae (20 spp.)		
Dalyblind	2	Dalytyph ng. nsp ("Orostylis ")
Dalylongphar	2	
Russelkopf rhabdit	12	
Russelkopf spirale	7	
Russelkopf kurzpenis	57	<i>Coronhelmis</i>
Russelkopf macro	260	Dumpy Typhloplanid
<i>Promesostoma spirale</i>	151	<i>Promesostoma</i> n.sp
Typhlotief	1	
Rhabdocoela: Kalyptrorhynchia (26 spp.)		
Cinciaugi	3	Cinci augi
Cincibind	13	Squarenose
Placo augi	6	<i>Placorhynchus doei</i>
Eukalypto spitz	23	<i>Placorhynchus doei</i> ?
Eukalypto zange	1	Eukalypto zange
Eukalyptoriese	1	EukalyptoRiese
Eukalyptospirale	125	
Eukalyptokompli	73	
Eukalyptoschrag	1	EukalyptoShrag
Gnathoschwanz	1	Gnathoschwanz
Gnathospitz	1	<i>Drepanorhynchides hastatus</i>
Schizocarcharodo	135	
Schizoblindmacro	35	Schizochilus n.sp. "foxi"
Schizolongrussel	131	<i>Proschzorhynchus</i> n.sp. "shaunae"
Schizokurzrussel	13	
Schizofaroennis	4	<i>Carolinorhynchus follybeachensis</i>
Schizomesozooan	26	
Proschizospirale	1	Schizo4-belt
Schizoblindkompli	1	Schizoblind compli
Tylacoaugi	3	<i>Thylacorhynchus</i> "augi"
Tylacoschwanz	72	<i>Thylacorhynchus</i> "schwanz"
Carcharodo klein	45	Carcharodo klein
Carcharodo kompli	6	Carcharodo kompli
Karkinoaugi	84	<i>Lehardyia alleithoros</i>
Cheliplanilla schwanz	11	<i>Cheliplanilla</i> n.sp.

Cheliplana ohne schwanz	1	<i>Cheliplana</i> "Not BCOC"
Not matched to a Rieger species from EI		<i>Lehardyia</i> sp2
Not matched to a Rieger species from EI		<i>Karkinorhynchus</i> n.sp "ESTPG"
Not matched to a Rieger species from EI		Karkino2 small proboscis
Not matched to a Rieger species from EI		STL brown unknown (Proschizo)
Not matched to a Rieger species from EI		STL Schizo (Proschizo)
Not matched to a Rieger species from EI		Gracile Schizo
Not matched to a Rieger species from EI		Tiny Eukalypt
Not matched to a Rieger species from EI		Blind Cheli October
Not matched to a Rieger species from EI		<i>Coelogyropora</i> (Long Litho)
Not matched to a Rieger species from EI		<i>Diopisthoporus</i> "rubra"
Not matched to a Rieger species from EI		<i>Diopisthoporus gymnopharynx</i>
Not matched to a Rieger species from EI		<i>Microstomum</i> "gross"
Not matched to a Rieger species from EI		Pseudostomidae 4-eyes
Not matched to a Rieger species from EI		<i>Carcharodorhynchus</i> 99
Not matched to a Rieger species from EI		Schizo-2-belt
Not matched to a Rieger species from EI		Oto3
Not matched to a Rieger species from EI		<i>Diopisthoporus lofolitis</i>
Not matched to a Rieger species from EI		Schizo-2-belt
Not matched to a Rieger species from EI		ParotoGerade
Not matched to a Rieger species from EI		<i>Praeconvoluta</i> cf. <i>tigrina</i>
Not matched to a Rieger species from EI		<i>Hesiolcium</i> cf. <i>inops</i>
Not matched to a Rieger species from EI		<i>Cystiplana</i> cf. <i>rubra</i>
Not matched to a Rieger species from EI		Gliderband oto
Not matched to a Rieger species from EI		Proschizo tertius
Not matched to a Rieger species from EI		Proschizo knobby2