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Nr. inw. 2053

Szafa: 5

Półka: 14

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2053

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DUPLICATE

WRA

THE ROTIFERA ;

OR

WHEEL-ANIMALCULES.

BY

C. T. HUDSON, LL.D. CANTAB.

ASSISTED BY

P. H. GOSSE, F.R.S.

WITH ILLUSTRATIONS.

IN TWO VOLUMES.

PLATES.



LONDON :

LONGMANS, GREEN, AND CO.

1886.

All rights reserved.

Those viewless beings,
Whose mansion is the smallest particle
Of the impassive atmosphere,
Enjoy and live like man:
And the minutest throb,
That through their frame diffuses
The slightest, faintest motion,
Is fixed, and indispensable,
As the majestic laws
That rule yon rolling orbs.

SHELLEY.

Qui curiosus postulat totum suæ
Patere menti, ferre qui non sufficit
Mediocritatis conscientiam suæ,
Judex iniquus, æstimator est malus
Suique naturæque; nam rerum parens,
Libanda tantum quæ venit mortalibus,
Nos scire pauca, multa mirari jubet.

GROTIUS.



2053 II

EXPLANATION OF THE LETTERING OF THE PLATES.

<i>c</i>	Corona									} Parts of head and body.
<i>l</i>	Lobe of do.									
<i>sp</i>	Styligerous prominence									
<i>ch</i>	Chin									
<i>cc</i>	Ciliated cup									
<i>h</i>	Hook									
<i>hp</i>	Horny processes									
<i>f</i>	Foot									
<i>t</i>	Toe									
<i>cw</i>	Ciliary wreath									
<i>pw</i>	Principal wreath									
<i>sw</i>	Secondary wreath									
<i>tr</i>	Taster									
<i>v</i>	Vestibule									
<i>bf</i>	Buccal funnel									
<i>lp</i>	Lips									
<i>t</i>	Tube from lips to crop									
<i>cp</i>	Crop									
<i>mx</i>	Mastax									
	Trophi	{	<i>ms</i>	malleus	{	<i>mm</i>	manubrium	}	} Nutritive system.	
<i>ti</i>	or									<i>is</i>	incus	{	us	uncus
	Jaws	<i>rs</i>	ramus	{	<i>fm</i>	fulcrum				
<i>æ</i>	Œsophagus									
<i>s</i>	Stomach									
<i>i</i>	Intestine									
<i>r</i>	Rectum									
<i>cl</i>	Cloaca									
<i>sg</i>	Salivary gland									
<i>gg</i>	Gastric gland									
<i>fg</i>	Foot gland									
<i>lc</i>	Lateral canal									
<i>vl</i>	Vibratile tag									
<i>cv</i>	Contractile vesicle									
<i>oy</i>	Ovary									
<i>g</i>	Germ									
<i>om</i>	Ovum									
<i>ot</i>	Oviduct									
<i>p</i>	Penis									
<i>ss</i>	Sperm-sac									
<i>lm</i>	Longitudinal muscle									
<i>tm</i>	Transverse muscle									
<i>gn</i>	Ganglion									
<i>e</i>	Eye									
<i>a</i>	Dorsal antenna									
<i>a'</i>	Lateral antenna									
<i>ts</i>	Tactile style									
<i>n</i>	Nerve thread									

WYKAZ TŁUMACZEŃ

WYKAZ TŁUMACZEŃ
WYKAZ TŁUMACZEŃ

EXPLANATION OF PLATE A.

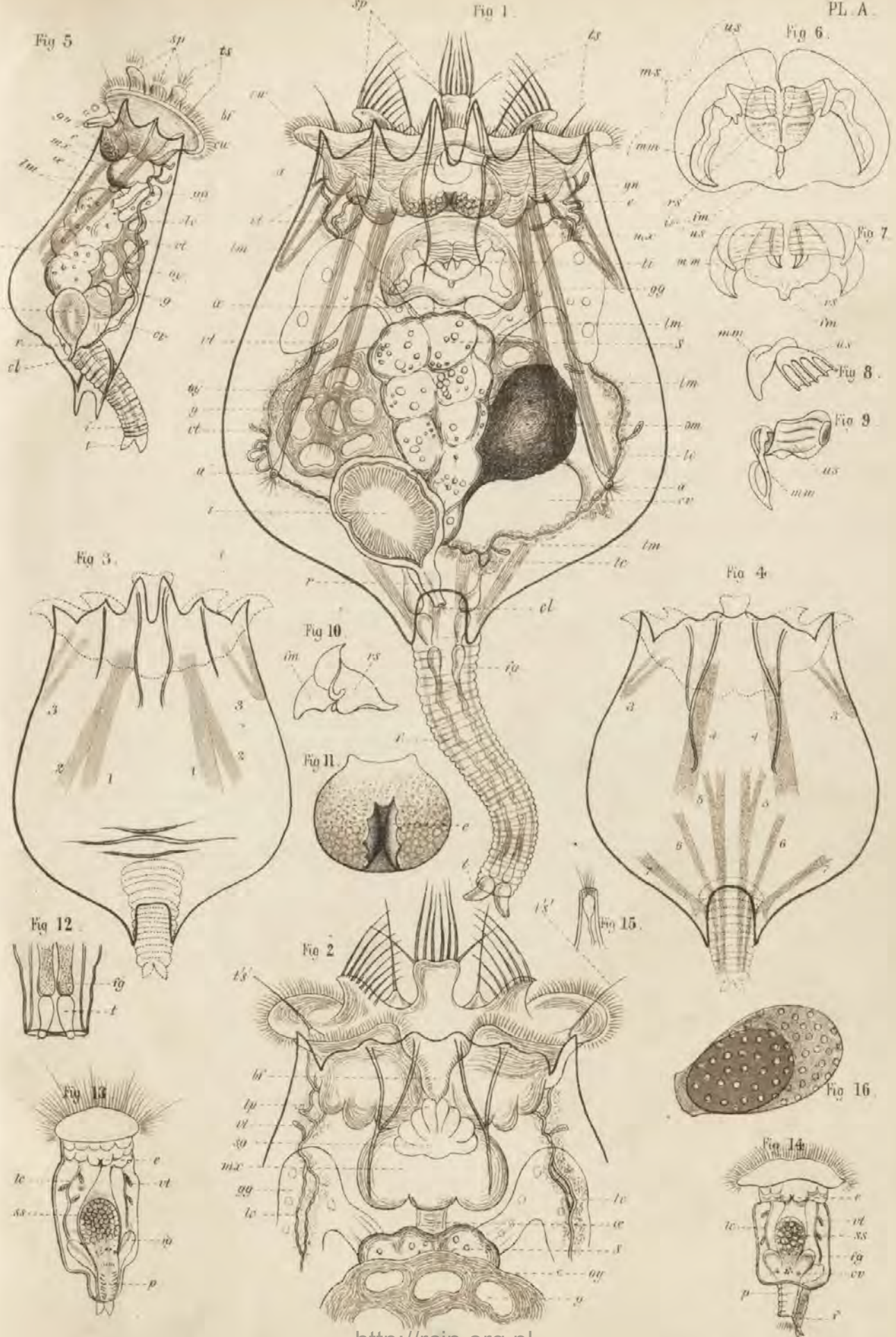
* * * *In all cases throughout the plates, both the plain and coloured, the figures that have the initial H attached to them have been drawn from life by Dr. Hudson, and those with the initial G, also from life, by Mr. Gosse.*

BRACHIONUS RUBENS and the details of its structure.

<p>1. Dorsal view H</p> <p>2. Ventral view; upper half H</p> <p>3. Lorica and muscles; dorsal view H</p> <p>4. " " ventral view H</p> <p>5. Side view H</p> <p>6. Mastax and trophi; dorsal view G</p> <p>7. Trophi; ventral view G</p> <p>8. Malleus expanded by pressure G</p>	<p>9. Malleus, as in nature G</p> <p>10. Incus, side view G</p> <p>11. Ganglion and eye H</p> <p>12. Extremity of foot H</p> <p>13. Male; penis withdrawn (after Dr. Cohn)</p> <p>14. Male; penis extruded (after Dr. Cohn)</p> <p>15. Dorsal antenna H</p> <p>16. Ephippial egg (after Dr. Cohn)</p>
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In all the above figures the letters signify as follows:—

<p><i>sp</i> styliigerous prominence</p> <p><i>f</i> foot</p> <p><i>t</i> toe</p> <p><i>cw</i> ciliary wreath</p> <p><i>bf</i> buccal funnel</p> <p><i>lp</i> lips</p> <p><i>mx</i> mastax</p> <p><i>ti</i> trophi</p> <p><i>ms</i> malleus</p> <p><i>us</i> uncus</p> <p><i>mm</i> manubrium</p> <p><i>is</i> incus</p> <p><i>rs</i> ramus</p> <p><i>fm</i> fulcrum</p> <p><i>a</i> œsophagus</p> <p><i>s</i> stomach</p> <p><i>i</i> intestine</p> <p><i>r</i> rectum</p>	<p><i>cl</i> cloaca</p> <p><i>sg</i> salivary gland</p> <p><i>gg</i> gastric gland</p> <p><i>fg</i> foot gland</p> <p><i>lc</i> lateral canal</p> <p><i>vt</i> vibratile tag</p> <p><i>cv</i> contractile vesicle</p> <p><i>oy</i> ovary</p> <p><i>g</i> germ</p> <p><i>om</i> ovum</p> <p><i>p</i> penis</p> <p><i>ss</i> sperm sac</p> <p><i>lm</i> longitudinal muscle</p> <p><i>gn</i> ganglion</p> <p><i>e</i> eye</p> <p><i>a</i> dorsal antenna</p> <p><i>a'</i> lateral antenna</p> <p><i>ts</i> tactile style</p>
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EXPLANATION OF PLATE B.

1. Melicerta ringens	}	Leuwenhoek, 1703-1705
2. Trochal disc of Melicerta ringens, from above		
3. Limnias ceratophylli		
4. Trochal disc of Limnias ceratophylli, from above		
5. Rotifer or Philodina	}	Baster, 1759
6. Synchaeta Baltica		
7. Rotifer macrurus	}	Baker, 1753
8. Brachionus Bakeri		
9. Philodina or Rotifer		
10. Euchlanis	}	Eichhorn, 1775
11. Triarthra		
12. Actinurus Neptunius		
13. Megalotrocha		
14. Stephanoceros Eichhornii	}	Joblot, 1718
15, 16. Floscularia ornata		
17. Brachionus pala	}	Brady, 1755
18. Philodina or Rotifer		
19. Lacinularia socialis	}	Müller, 1776-1786
20. Stephanops cirratus		
21. Brachionus Bakeri		
22. Pterodina patina		
23. Salpina		
24. Euchlanis		
25. Dinocharis poecillum		
26. Mastigocerca carinata		
27. Notommata tigris		
28, 29. Hydatina senta		
30. Notommata longiseta	}	
31, 32. Lacinularia socialis		
33. Notommata aurita		
34. Anurea striata		



DEKRET

Prezydent Rzeczypospolitej Polskiej

Art. 133 Konstytucji

W sprawie: ...

Art. 133 Konstytucji

W sprawie: ...

Art. 133 Konstytucji

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Art. 133 Konstytucji

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Art. 133 Konstytucji

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PLATE C.

Showing the Coronæ, Trophi, and Feet of some of the principal Families of the ROTIFERA.¹

Order I. RHIZOTA.

Flosculariadæ	Fig. I.	Floscularia campanulata.
"	"	Stephanoceros Eichhornii.
Melicertadæ	Fig. II.	Melicerta ringens.

Order II. BDELLOIDA.

Philodinadæ	Fig. III.	Rotifer citrinus.
Adinetadæ	Fig. IV.	Adineta vaga.

Order III. PLOÏMA.

Sub-order IL-LORICATA.

Asplanchnadæ	Fig. V.	Asplanchna Ebbesbornii.
Synchætadæ	"	Synchæta mordax.
Hydatinadæ	"	Hydatina senta.

Sub-order LORICATA.

Division I.

Euchlanidæ	Fig. VI.	Euchlanis deflexa.
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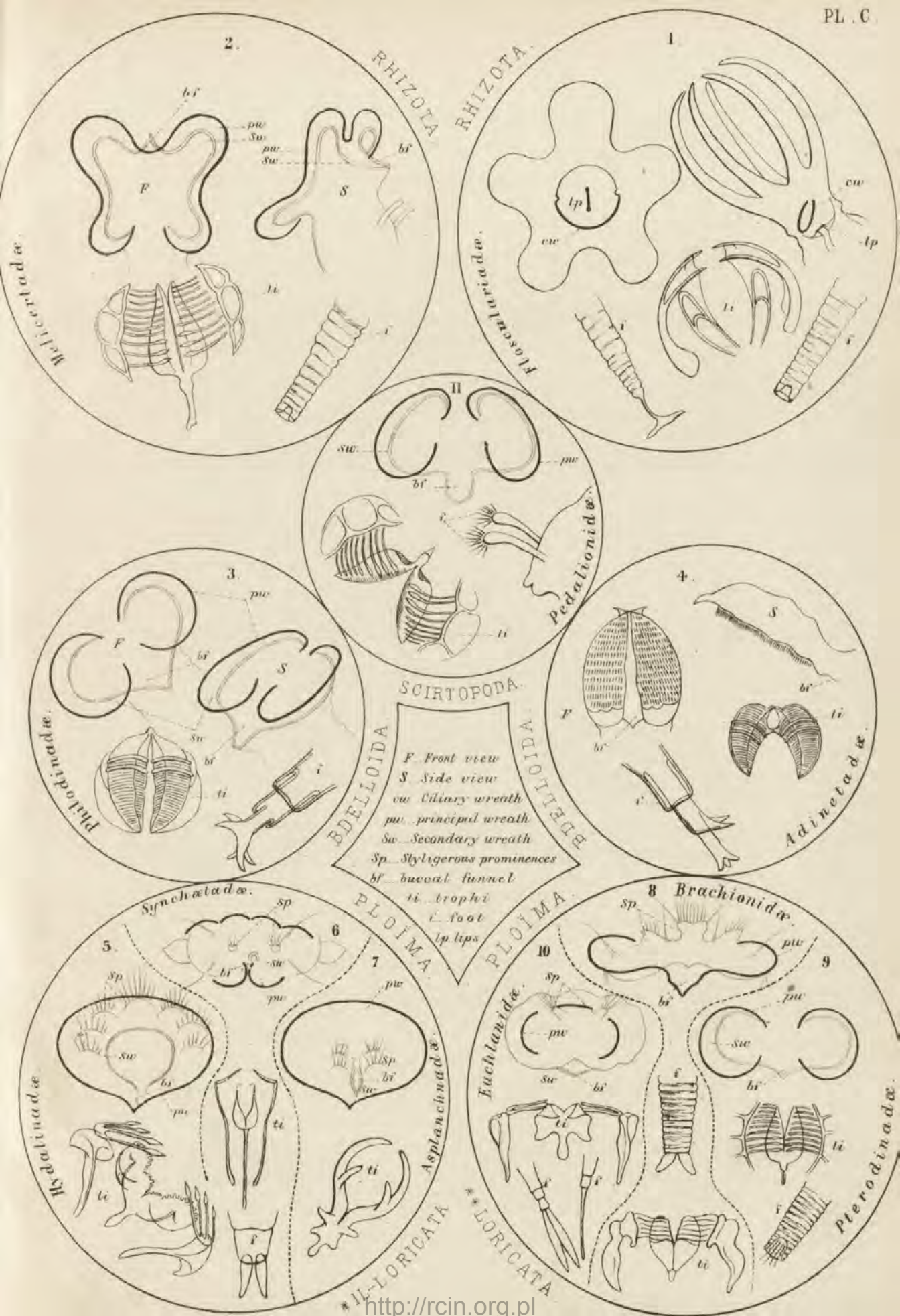
Division II.

Pterodinadæ	Fig. VI.	Pterodina patina.
Brachionidæ	"	Brachionus urceolaris.

Order IV. SCIIRTOPODA.

Pedalionidæ	Fig. VII.	Pedalion mirum.
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¹ See pages 30, 31, 32.



SCIRTOPODA.

BDELLOIDA

BDELLIIDA

F Front view
 S Side view
 cw Ciliary wreath
 pu principal wreath
 su Secondary wreath
 Sp Styligerous prominences
 bf buccal funnel
 ti trophi
 i foot
 lp lips

Corona, Trophi, & Feet, of some of the principal Families of the ROTIFERA

PLATE D.

1.	<i>Floscularia campanulata</i>	. with everted tube (after Dr. Moxon)	
2.	<i>Floscularia Cyclops</i>	. . . ventral view	H
3.	<i>Acyclus inquietus</i>	. . . side view	} after Prof. Leidy.
3a.	" "	. . . head, ventral view	
3b.	" "	. . . head, closed, side view	
4.	<i>Apsilus lentiformis</i>	. . . dorsal view	} after El. Metschnikoff
4a.	" "	. . . ventral view, contracted	
4b.	" "	. . . nervous ganglion, lateral canals, and vibratile tags	
4c.	" "	. . . trophi	
4d.	" "	. . . young female, dorsal view	
4e.	" "	. . . male, dorsal view	
4f.	" "	. . . hind extremity of male	
5.	<i>Apsilus bipera</i>	. . . ventral view	} after Miss Foulke
5a.	" "	. . . head, dorsal view, showing ciliary wreath	
6.	<i>Melicerta conifera</i>	. . . male coming out of tube	G
6a.	" "	. . . male, side view	G
7.	<i>Limnias ceratophylli</i>	. . . male	G
8.	<i>Æcistes velatus</i>	. . . side view; corona expanded	G
8a.	" "	. . . side view; corona contracted	G
8b.	" "	. . . corona, side view, showing thickenings	G
8c.	" "	. . . foot and sucker	G
8d.	" "	. . . cloaca, and surrounding parts	G
8e.	" "	. . . mastax, front view	G
8f.	" "	. . . mastax, side view	G
9.	<i>Megalotrocha alboflavicans</i>	. . . young female	G
9a.	" "	. . . young male (?)	G
10.	<i>Conochilus volvox</i>	. . . male, dorsal view (after Dr. Cohn)	
11.	<i>Trochosphæra æquatorialis</i>	. . . female, side view (after Prof. C. Semper)	

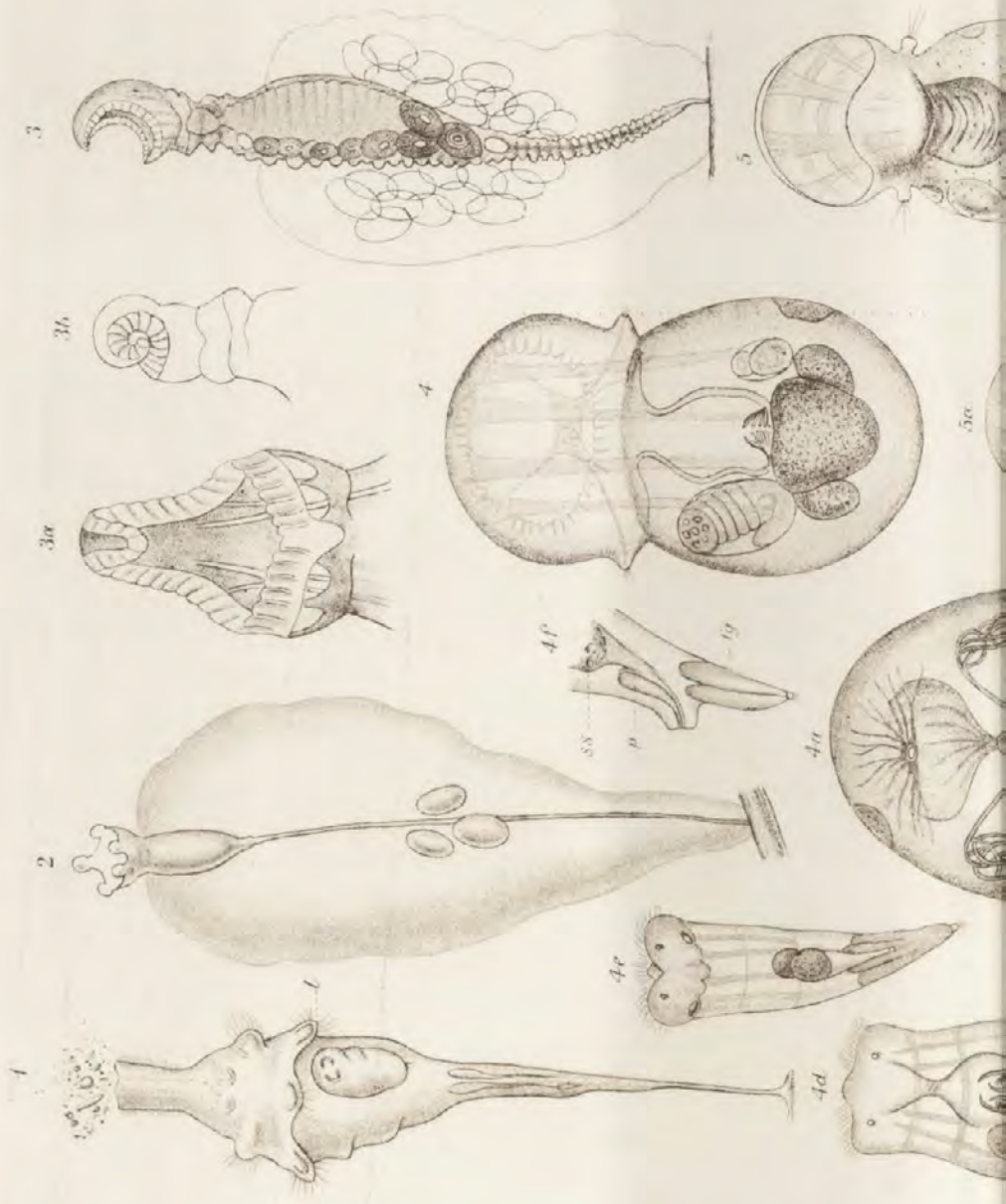




Fig. 3. C. Thierssen } ad viv. dit.
 4. 5. P. H. 1850. 6. } ad viv. dit.

Harbath imp.

- 1. PLOSCULARIA CAMPANULATA 2. PLOSCULARIA CYCLOPS 3. ACYLIUS INQUIETUS 4. APSILIUS LENTIFORMIS 5. APSILIUS BIPERA.
- 6. MELICERTA CONIFERA 7. LIMNIA CERATOPHYLLI 8. OECISTES VELATUS 9. MEGALOTROCHA ALBOFLAVICANS
- 10. CONOCHILUS VOLVOX 11. TROCHOSPHERA AEQUATORIALIS





Fig. 1. Floscularia campanulata }
 2. Floscularia campanulata }
 3. Acycilius inquetus }
 4. Apsilius lentiformis }
 5. Sapsilus bipera }
 6. Melicerta conifera }
 7. Limnias ceratophylli }
 8. Megalotrocha alboflavicans }
 9. Conochilus volvox }
 10. Trochosphaera aequatorialis }

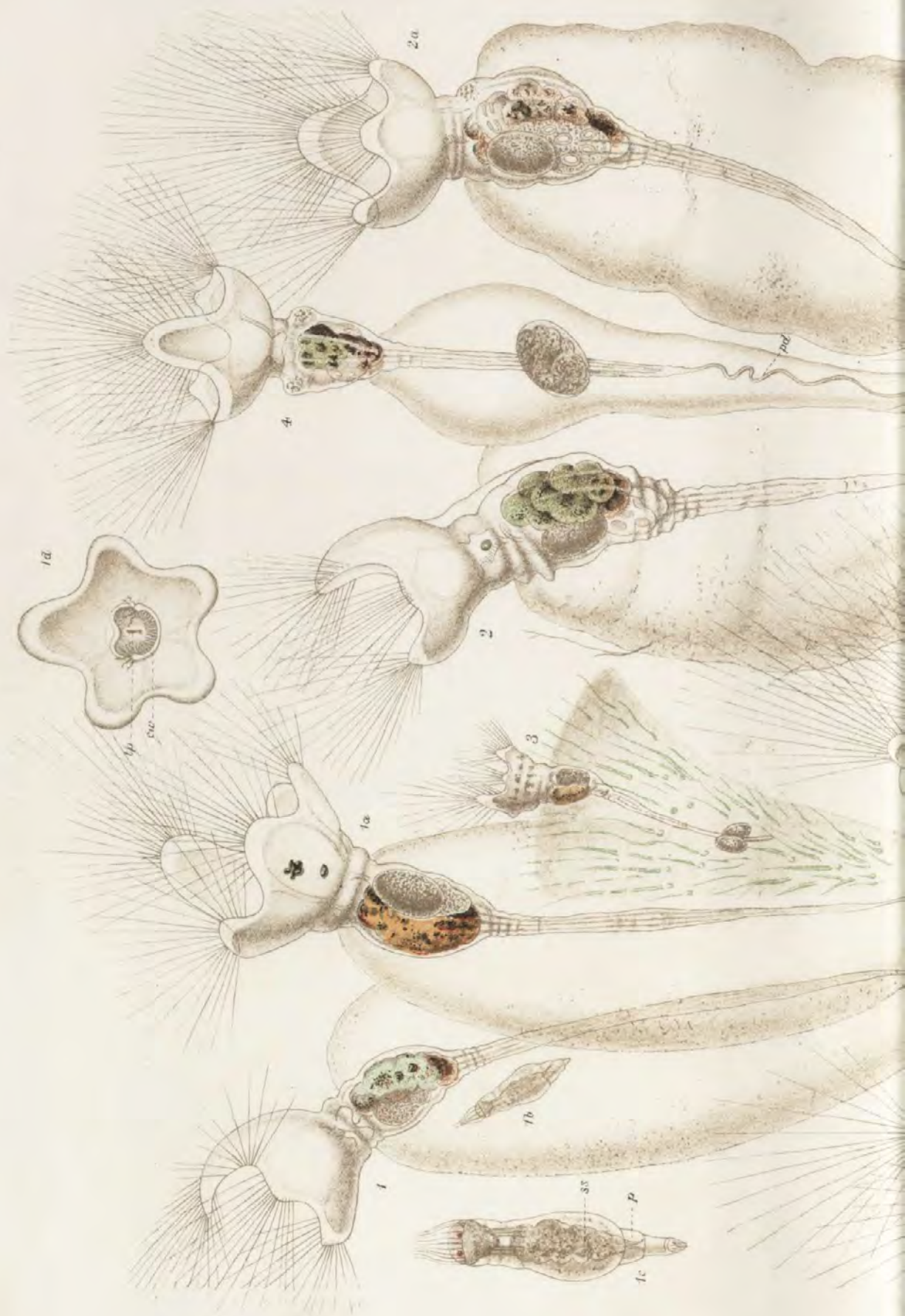
Habitans Europ.

1. FLOSCULARIA CAMPANULATA. 2. FLOSCULARIA CAMPANULATA. 3. ACYILIUS INQUETUS. 4. APSILIUS LENTIFORMIS. 5. SAPSILUS BIPERA.
 6. MELICERTA CONIFERA. 7. LIMNIAS CERATOPHYLLI. 8. MEGALOTROCHA ALBOFLAVICANS.
 9. CONOCHILUS VOLVOX. 10. TROCHOSPHERA AEQUATORIALIS.

PLATE I.

* * In all cases throughout the plates, where the sex is not mentioned, the animal is a female.

1.	Floscularia	campanulata	. . . . .	side view	H
1a.	"	"	. . . . .	obliquely ventral	H
1b.	"	"	. . . . .	male, same scale as 1	H
1c.	"	"	. . . . .	male, enlarged	H
1d.	"	"	. . . . .	female, trochal disc from above	H
2.	Floscularia	ambigua	. . . . .	side view	H
2a.	"	"	. . . . .	obliquely ventral	H
3.	Floscularia	algicola	. . . . .	side view	H
4.	Floscularia	longicaudata	. . . . .	dorsal view	H
5.	Floscularia	coronetta	. . . . .	side view	H
5a.	"	" (after Cubitt)	. . . . .	trochal disc, from above	
6.	Floscularia	Cyclops	. . . . .	side view	H
7.	Floscularia	cornuta	. . . . .	side view	H
8.	Floscularia	regalis	. . . . .	side view	H
8a.	"	"	. . . . .	dorsal view	H
9.	Floscularia	ornata	. . . . .	obliquely dorsal	H
9a.	"	" trophi	. . . . .	side view	G
9b.	"	" "	. . . . .	obliquely from above	G
9c.	"	" young female just hatched	. . . . .	. . . . .	G
9d.	"	" the same a little older	. . . . .	. . . . .	G





C. T. H. v. d. W. ad. ov. d. d.

FLUSCULARIA.

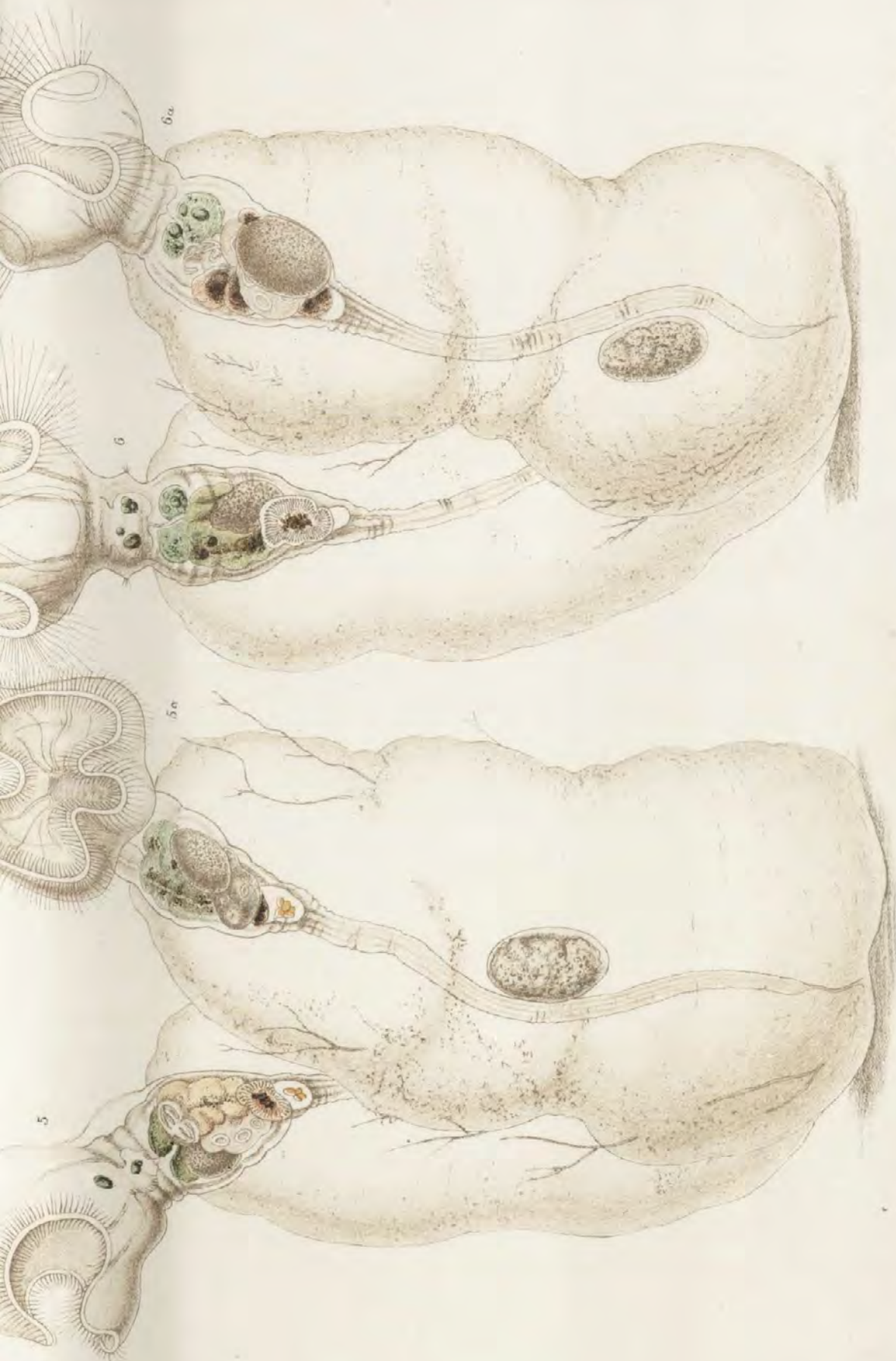
- 1. F. CAMPANULATA. 2. F. AMBIGUA. 3. F. ALGICOLA. 4. FLONGICAUDATA.
- 5. F. CORONETA. 6. F. CYCLOPS. 7. F. CORNUTA. 8. F. REGALIS. 9. F. ORNATA.

Hartn. imp.

PLATE II.

1.	<i>Floscularia algicola</i>	. . . . .	a cluster.	. . . . .	H
1a.	"	"	side view of head	. . . . .	H
1b.	"	"	dorsal view of head	. . . . .	H
2.	<i>Floscularia coronetta</i>	. . . . .	dorsal view of head	. . . . .	H
3.	<i>Floscularia campanulata</i> (? <i>ambigua</i>)		diagram after Dr. Moxon		
4.	Diagram of a Floscule	. . . . .		. . . . .	H
5.	<i>Floscularia Hoodii</i>	. . . . .	side view	. . . . .	H
5a.	"	"	ventral view	. . . . .	H
6.	<i>Floscularia trilobata</i>	. . . . .	dorsal view	. . . . .	H
6a.	"	"	ventral view	. . . . .	H





Herbario imp.

FLOSCULARIA.

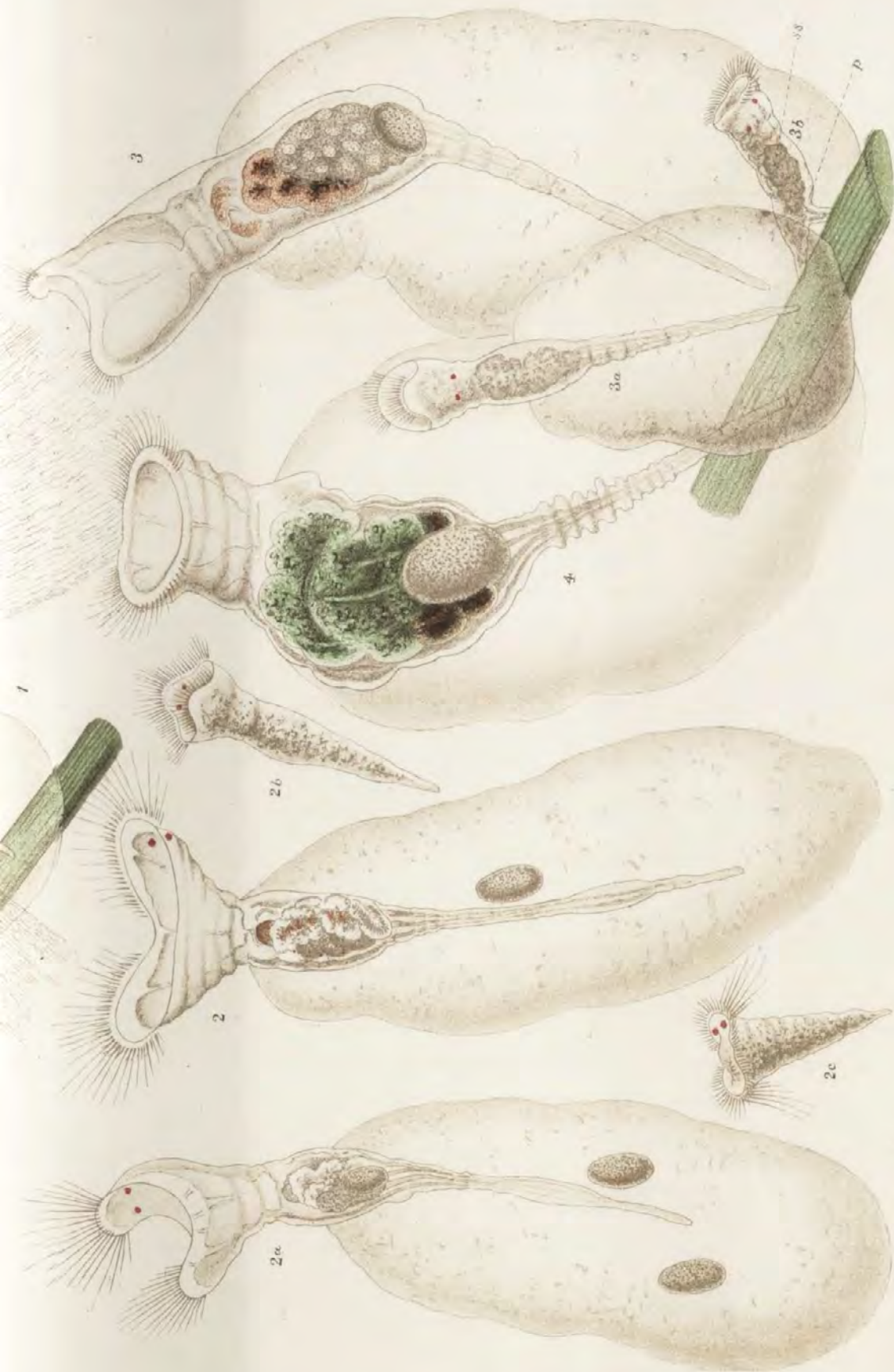
- 1. F. AMBIGUA MINOR. 2. F. CAMPANULATA.
- 3. F. CAMPANULATA (C). 4. DIAGRAM OF A FLOSCULE.
- 5. F. HOODII. 6. F. TRILOBATA.

U. Haberm. del. viv. del.

PLATE III.

1.	<i>Floscularia mira</i>	. . .	seen obliquely from above	. . . . .	H
2.	<i>Floscularia mutabilis</i>	. . .	side view; swimming	. . . . .	H
2a.	" "	. . .	side view; at rest	. . . . .	H
2b.	" "	. . .	young female, ventral view	. . . . .	H
2c.	" "	. . .	young male, side view	. . . . .	H
3.	<i>Floscularia calva</i>	. . .	side view	. . . . .	H
3a.	" "	. . .	young female, dorsal view (after Mr. J. Hood)	. . . . .	H
3b.	" "	. . .	young male, side view (after Mr. J. Hood)	. . . . .





C.T. Hudson, ad viv. del.

FLOSCULARIA.

1. F. MIRA. 2. F. MUTABILIS. 3. F. CALVA. 4. F. DENTATA.

Herbart imp.

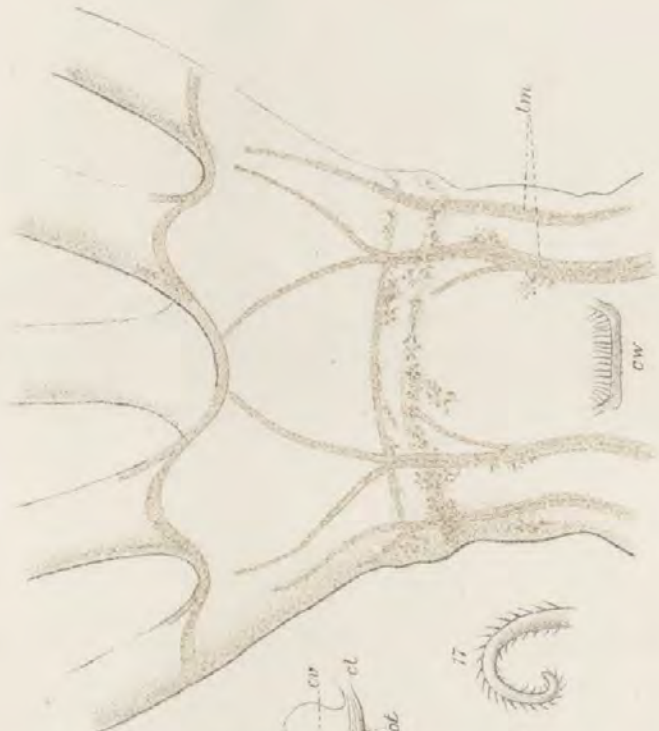
PLATE IV.

1. *Stephanoceros Eichhornii*, side view H
8. Young female just hatched, adhering to the glass cover head downwards . G
9 & 10. the same a little later G
11, 12, & 13. 3, 8, and 11 hours after being hatched G
14 & 15. 18 and 36 hours after being hatched G

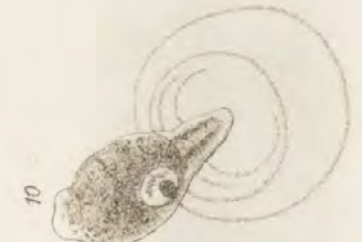
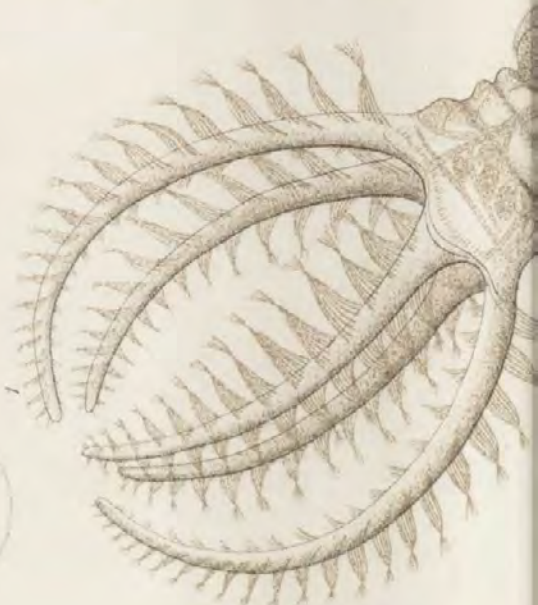
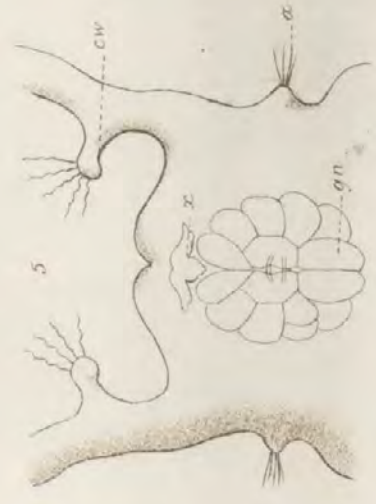
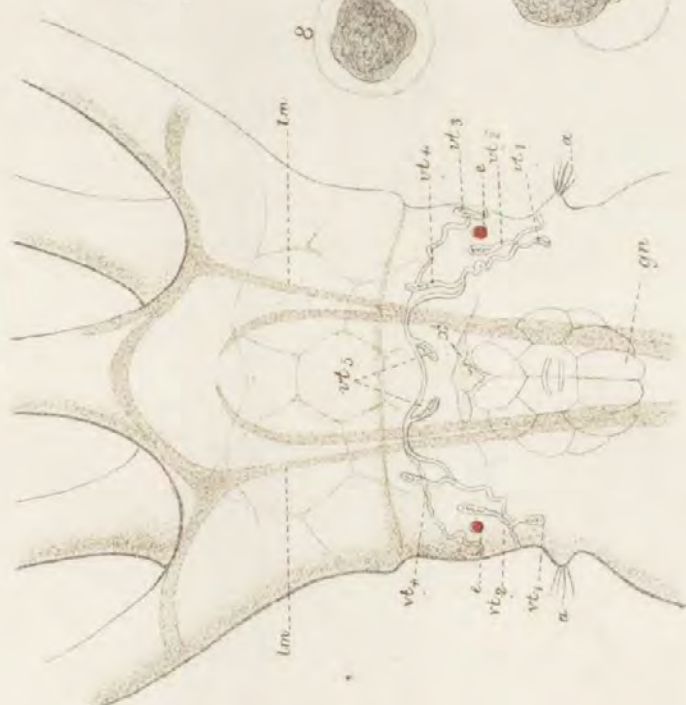
Details of Stephanoceros Eichhornii.

2. Head, dorsal view H
3. „ ventral view H
4. „ side view H
5. „ seen dorsally in the plane passing through the knobs of the ciliary
wreath H
6. Trophi H
7. Ovary (after Dr. Leydig)
16. A budding tentacle (after Mr. Rossiter)
17. The same a little more developed (after Mr. Rossiter)

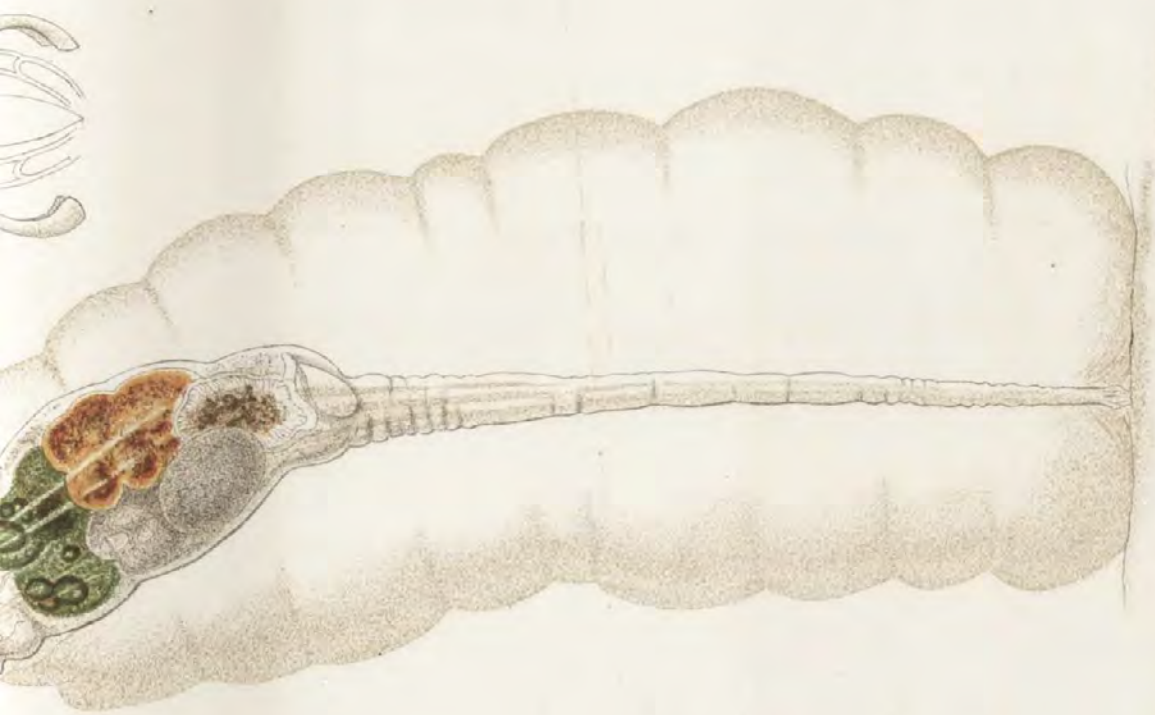
3



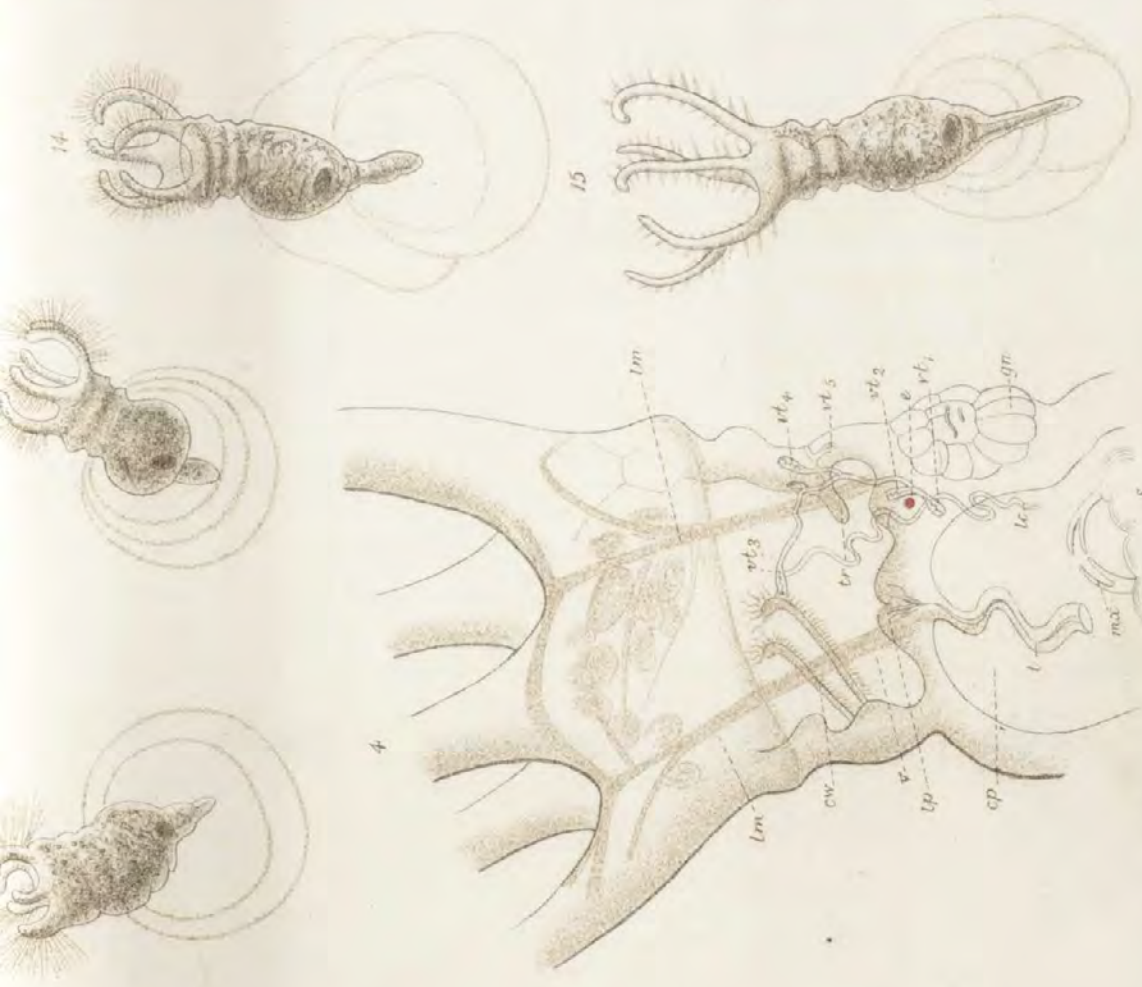
2



6



Habicht. imp.

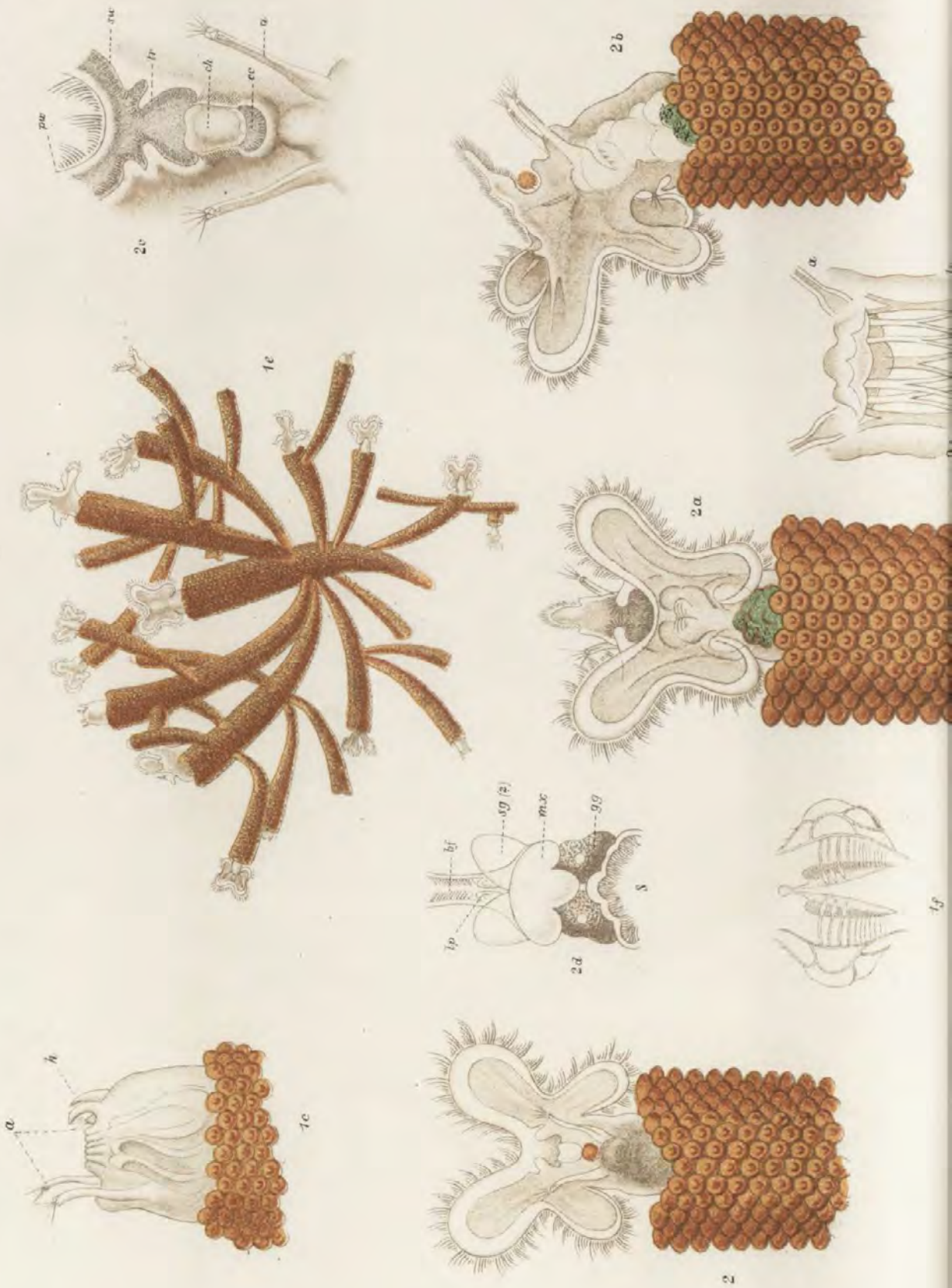


Figs 1 to 5 C. T. Hudson } ad viv del.
 Figs 8 to 15. P. H. Gosse

STEPHANOCEROS.
 S. EICHHORNII

PLATE V.

1.	<i>Melicerta ringens</i>	.	.	.	ventral view	.	.	.	.	.	.	H
1a.	"	"	.	.	side view	.	.	.	.	.	.	H
1b.	"	"	.	.	partially retracted, side view	.	.	.	.	.	.	H
1c.	"	"	.	.	upper part of 1b, enlarged	.	.	.	.	.	.	H
1d.	"	"	.	.	young female, side view	.	.	.	.	.	.	H
1e.	"	"	.	.	cluster	.	.	.	.	.	.	H
1f.	"	"	.	.	trophi	.	.	.	.	.	.	H
2.	<i>Melicerta conifera</i>	.	.	.	ventral view	.	.	.	.	.	.	H
2a.	"	"	.	.	dorsal view	.	.	.	.	.	.	H
2b.	"	"	.	.	side view	.	.	.	.	.	.	H
2c.	"	"	.	.	details of head, ventral view	.	.	.	.	.	.	H
2d.	"	"	.	.	details of body, ventral view	.	.	.	.	.	.	H
2e.	"	"	.	.	longitudinal muscles to chin and neck	.	.	.	.	.	.	H
3.	<i>Melicerta tubicolaria</i>	.	.	.	ventral view	.	.	.	.	.	.	H
3a.	"	"	.	.	side view	.	.	.	.	.	.	H
3b.	"	"	.	.	young female, dorsal view	.	.	.	.	.	.	H
3c.	"	"	.	.	young male, side view	.	.	.	.	.	.	H
4.	Diagram of a <i>Melicerta</i>	.	.	.	.	.	.	.	.	.	.	H





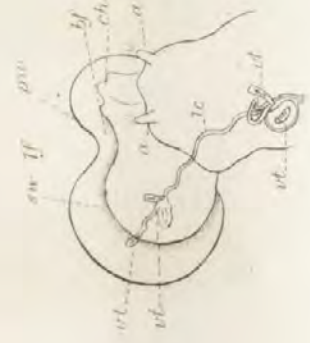
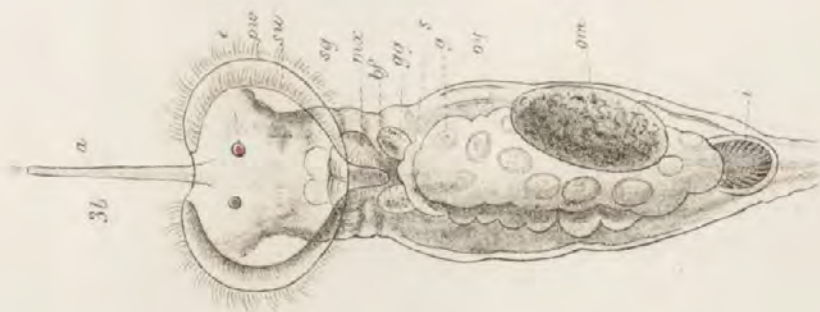
C.T. Hudson. an. vrv. dal.

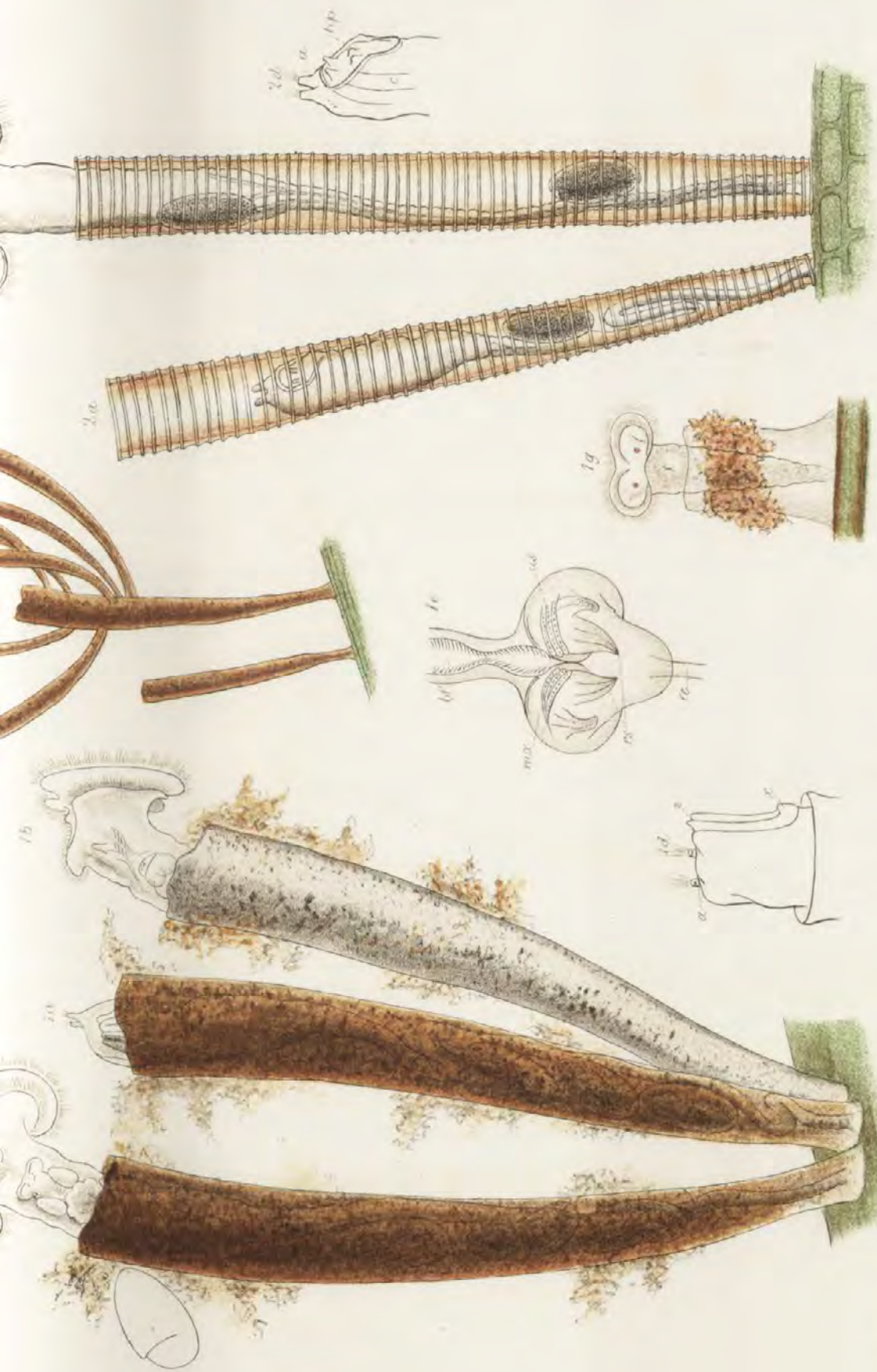
Hanhart mp

MELICERTA.
 1. M. RINGENS. 2. M. CONIFERA. 3. M. TUBICULARIA. 4. DIAGRAM OF A MELICERTA.

PLATE VI.

1.	<i>Limnias ceratophylli</i>	.	ventral view	H
1a.	"	"	side view; corona contracted	H
1b.	"	"	side view; corona expanded	H
1c.	"	"	a cluster of tubes	H
1d.	"	"	head, side view; <i>z z</i> edge of chitinous plate	} after Judge Bedwell
1e.	"	"	buccal funnel, mastax and cesophagus . . . . .		G
1f.	"	"	head and neck; ventral view showing vascular system	H
1g.	"	"	young female, dorsal view	H
2.	<i>Limnias annulatus</i>	.	ventral view	} after Mr. Cubitt
2a.	"	"	side view; retracted	
2b.	"	"	head; dorsal view	
2c.	"	"	head; seen from above	
2d.	"	"	head; corona contracted	
3.	<i>Cephalosiphon Limnias</i>	.	group: <i>x, y, z</i> successive stages of growth	H
3a.	"	"	dorsal view	H
3b.	"	"	ventral view	H





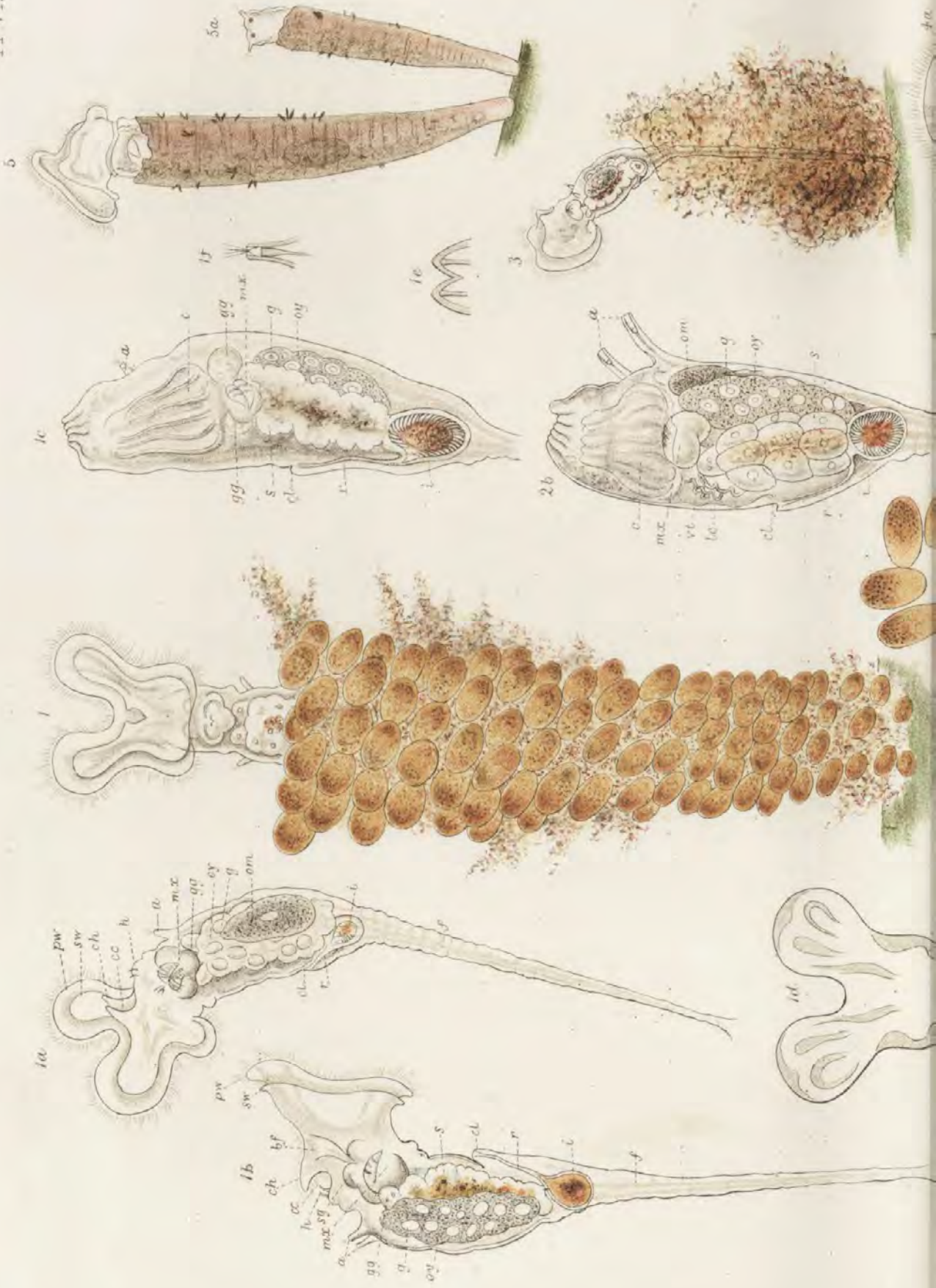
7904423 (T. H. D. 1899) ad. v. ad.
 Page: P. H. Coase.

Hartwell, 1890

LIMNIAS; CEREHALOSIPHON.

1. L. CERATOPHYLLI, 2. L. ANNULATUS. 3, 6. LIMNIAS

THE STATE OF NEW YORK
IN SENATE
January 15, 1902.
REPORT
OF THE
COMMISSIONERS OF THE LAND OFFICE
IN ANSWER TO A RESOLUTION
PASSED BY THE SENATE
MAY 10, 1899.
ALBANY: JAMES BROWN PUBLISHER.
1902.





C.J. Hudson sc. viv. del.

MELICERTA; ECISTES.

1. M. JANUS. 2. E. PILULA. 3. E. CRYSTALLINUS. 4. E. UMBELLA. 5. E. INTERMEDIUS. 6. E. LONGICORNIS.

Hanhart. imp.

PLATE VIII.

1.	<i>Lacinularia socialis</i>	. . .	dorsal view	. . . . .	H
1a.	"	" . . .	side view	. . . . .	H
1b.	"	" . . .	group	. . . . .	H
1c.	"	" . . .	male; side view	. . . . .	H
1d.	"	" . . .	penis	. . . . .	H
2.	<i>Megalotrocha alboflavicans</i>	. . .	dorsal view	. . . . .	H
2a.	"	" . . .	side view	. . . . .	H
2b.	"	" . . .	ventral view; corona expanded	. . . . .	H
2c.	"	" . . .	ventral view; corona contracted	. . . . .	H
3.	<i>Conochilus volvox</i>	. . .	side view	. . . . .	H
3a.	"	" . . .	ventral view	. . . . .	H
3b.	"	" . . .	dorsal view	. . . . .	H
3c.	"	" . . .	obliquely ventral view	. . . . .	H
3d.	"	" . . .	male; side view	. . . . .	H
3e.	"	" . . .	cluster	. . . . .	H
3f.	"	" . . .	cloacal opening	. . . . .	H
3g.	"	" . . .	antennæ	. . . . .	H
3h.	"	" . . .	eye	. . . . .	H
3i.	"	" . . .	showing junction of lateral canal and cloaca	. . . . .	H
3k, 3l, 3m, 3n.	"	" . . .	successive stages of ephippial egg	. . . . .	H
3p.	"	" . . .	male in egg	. . . . .	H
3q.	"	" . . .	spermatozoa	. . . . .	} after Dr. Cohn
3r.	"	" . . .	spermatozoa attached to ovum.	
4.	<i>Conochilus dossuarius</i>	. . .	obliquely dorsal view	. . . . .	H





Hanhart imp.

LACINULARIA, MEGALOTROCHA, CONOCHILUS.
 I. L. SOCIALIS 2 M. ALBOFLAVICANS 3 C. VOLVOX 4 C. DOSSUARIUS

E. T. Hudson del.

PLATE IX.

1.	<i>Cecistes</i>	<i>serpentinus</i>	.	.	side view	.	.	.	.	.	.	G
1a.	"	"	.	.	side view, contracted (on a smaller scale)	.	.	.	.	.	.	G
1b.	"	"	.	.	head; showing the hooks	.	.	.	.	.	.	G
2.	<i>Cecistes</i>	<i>brachiatus</i>	.	.	dorsal view	.	.	.	.	.	.	G
2a.	"	"	.	.	upper portion, expanded; side view	.	.	.	.	.	.	G
2b.	"	"	.	.	upper portion, contracted	.	.	.	.	.	.	G
2c.	"	"	.	.	extremity of an antenna	.	.	.	.	.	.	G
2d.	"	"	.	.	extremity of foot, showing peduncle	.	.	.	.	.	.	G
3.	<i>Cecistes</i>	<i>Stygis</i>	.	.	dorsal view	.	.	.	.	.	.	G
4.	<i>Philodina</i>	<i>roseola</i>	.	.	dorsal view; corona expanded	.	.	.	.	.	.	G
4a.	"	"	.	.	dorsal view; corona contracted	.	.	.	.	.	.	G
4b.	"	"	.	.	side view	.	.	.	.	.	.	G
4c.	"	"	.	.	dorsal view; contracted into a ball	.	.	.	.	.	.	G
4d.	"	"	.	.	transverse muscles shown under pressure	.	.	.	.	.	.	G
5.	<i>Philodina</i>	<i>aculeata</i>	.	.	side view; corona expanded	.	.	.	.	.	.	G
5a.	"	"	.	.	side view; corona contracted	.	.	.	.	.	.	G
5b.	"	"	.	.	dorsal view; hiding the foot	.	.	.	.	.	.	G
5c.	"	"	.	.	column partly retracted; and antenna	.	.	.	.	.	.	G
5d.	"	"	.	.	dorsal view in outline; showing the spines	.	.	.	.	.	.	G
6.	<i>Philodina</i>	<i>citrina</i>	.	.	dorsal view	.	.	.	.	.	.	G
7.	<i>Philodina</i>	<i>megalotrocha</i>	.	.	dorsal view	.	.	.	.	.	.	G
7a.	"	"	.	.	side view	.	.	.	.	.	.	G
7b.	"	"	.	.	dorsal view; contracted	.	.	.	.	.	.	G





Hanhart inv.

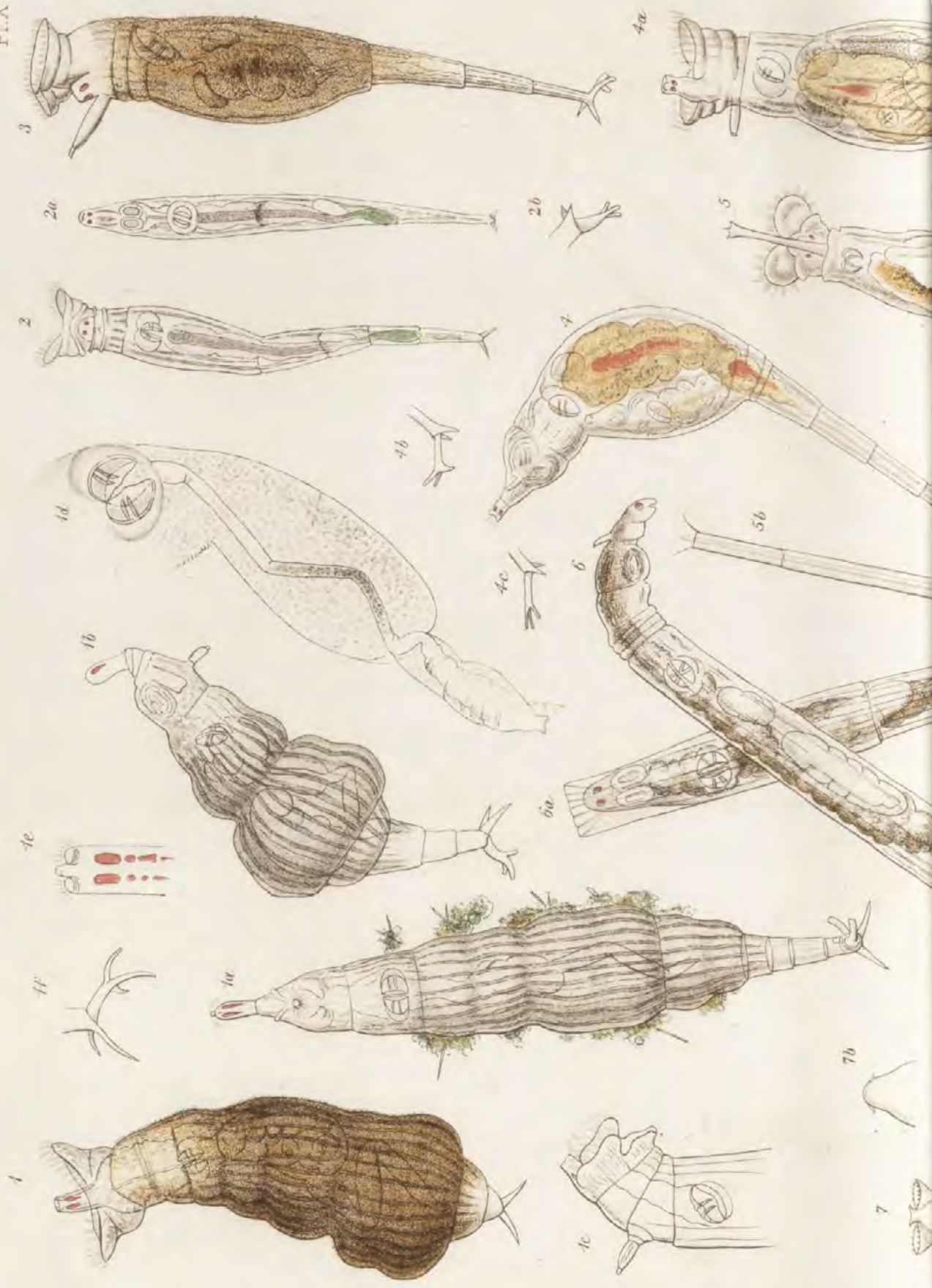
CECISTES, PHILODINA.

1. C. SERPENTINUS. 2. C. BRACHIATUS. 3. C. STYGIS.
 4. P. ROSEOLA. 5. P. ACULEATA. 6. P. CITRINA. 7. P. MEGALOTROCHA.

Fig. 1035e ad viv. del.

PLATE X.

1.	<i>Rotifer tardus</i>	dorsal view; corona expanded	G
1a.	" "	dorsal view; corona contracted	G
1b.	" "	side view	G
1c.	" "	head; side view; corona expanding	G
1d.	" "	mastax and alimentary canal (under pressure)	G
1e.	" "	column with the eye spots broken up	G
1f.	" "	spurs and toes	G
2.	<i>Rotifer vulgaris</i>	dorsal view; corona expanded	G
2a.	" "	dorsal view; corona contracted	G
2b.	" "	spurs and toes	G
3.	<i>Rotifer hapticus</i>	side view	G
4.	<i>Rotifer macrurus</i>	dorsal view; corona contracted	G
4a.	" "	obliquely dorsal view; corona expanded	G
4b, 4c.	" "	spurs and toes	G
5.	<i>Rotifer megaceros</i>	dorsal view	G
5a.	" "	side view	G
5b.	" "	dorsal antenna	G
6.	<i>Actinurus Neptunius</i>	side view, extended	G
6a.	" "	dorsal view, contracted	G
7.	<i>Callidina bihamata</i>	dorsal view	G
7a.	" "	side view	G
7b.	" "	column and hooks, dorsal view	G
7c.	" "	column and hooks, ventral view	G
8.	<i>Callidina bidens</i>	dorsal view; corona expanded	G
8a.	" "	dorsal view; corona contracted	G
8b.	" "	dorsal view, retracted	G
9.	<i>Callidina parasitica</i>	dorsal view; corona contracted	G
9a.	" "	dorsal view, retracted	G
9b.	" "	head, dorsal view; corona expanded	G
9c.	" "	trophi	G
9d.	" "	penultimate joint and spurs	G
10.	<i>Adineta vaga</i>	ventral view	H
10a.	" "	head, side view (after Mr. H. Davis)	
10b.	" "	ovary, lateral canals, and vibratile tags	H
10c.	" "	trophi	H





Figs 1 to 9, P.H. Gause; 10, G. H. Sars.

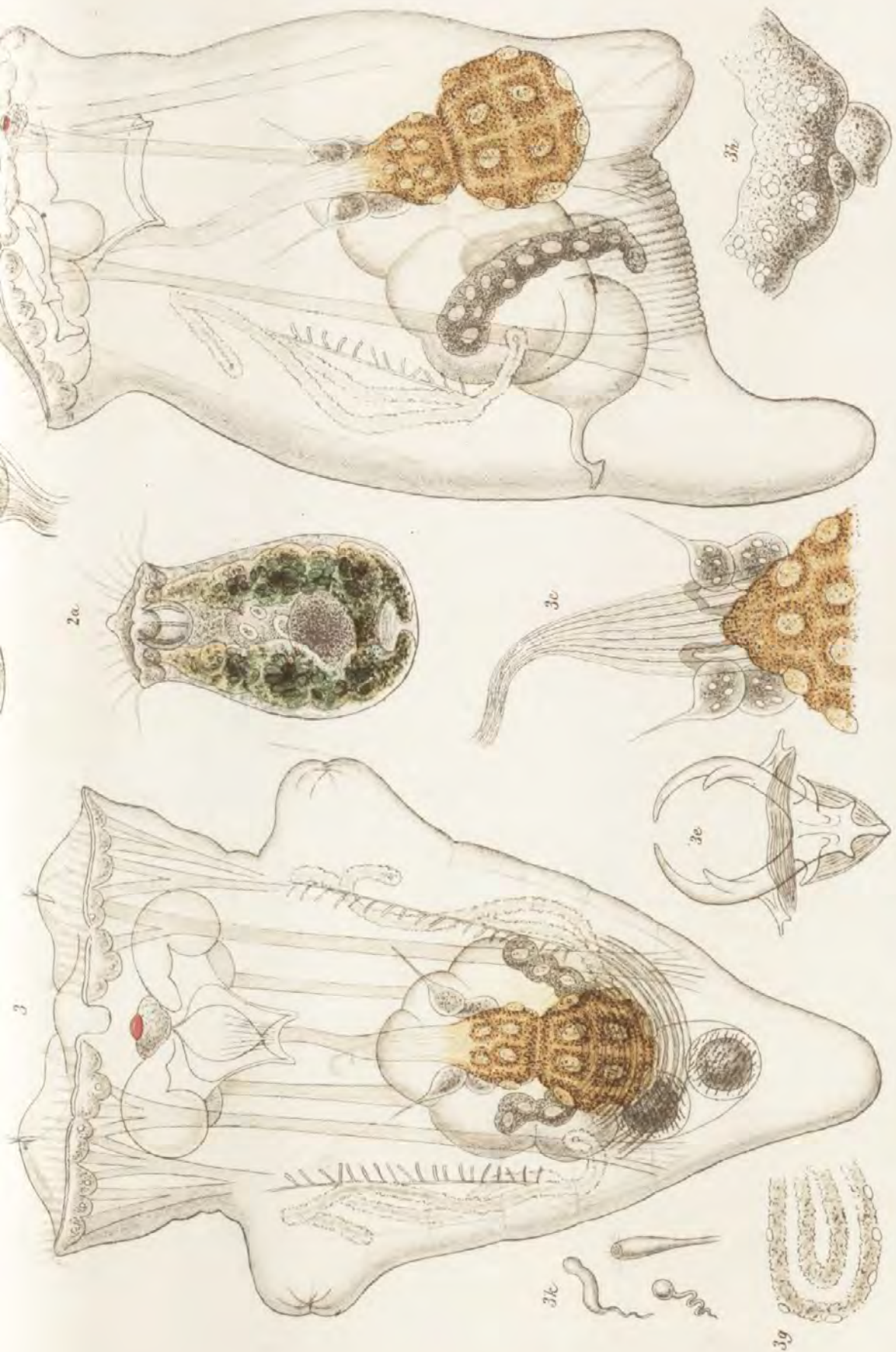
ROTIFER; ACTINURUS; CALLIDINA; ADINETA.

- 1. R. TARDUS. 2. R. VULGARIS. 3. R. HAPTICUS. 4. R. MACRURUS. 5. R. MEGACEROS.
- 6. A. NEPTUNIUS. 7. C. ETHAMATA. 8. C. BIDENS. 9. C. PARASITICA. 10. A. VAGA.

PLATE XI.

1.	<i>Microcodon clavus</i>	. . .	ventral view	} after Dr. Grenacher	
1a.	" "	. . .	side view		
1b.	" "	. . .	eye, pigment-plates, nervous ganglion		H
1c.	" "	. . .	trophi	H	
2.	<i>Sacculus viridis</i>	. . .	dorsal view	H	
2a.	" "	. . .	ventral view	H	
2b.	" "	. . .	side view	H	
2c.	" "	. . .	male	G	
3.	<i>Asplanchna Ebbesbornii</i>	. . .	dorsal view	H	
3a.	" "	. . .	side view	H	
3b.	" "	. . .	head; ventral view	H	
3c.	" "	. . .	oesophagus, stomach, gastric glands and ducts	H	
3d.	" "	. . .	top of gastric gland, and duct	H	
3e.	" "	. . .	trophi, with extensor and retractor muscles	H	
3f.	" "	. . .	lateral canal and vibratile tags; male	H	
3g.	" "	. . .	bend in lateral canal, with imbedded glands (?)	H	
3h.	" "	. . .	central portion of ovary; two ova forming	H	
3i.	" "	. . .	male; side view	H	
3j.	" "	. . .	male; penis, sperm-sac, and contractile vesicle	H	
3k.	" "	. . .	spermatozoa	H	
3l.	" "	. . .	rocket-headed, lateral antenna	H	





Hanhart imp.

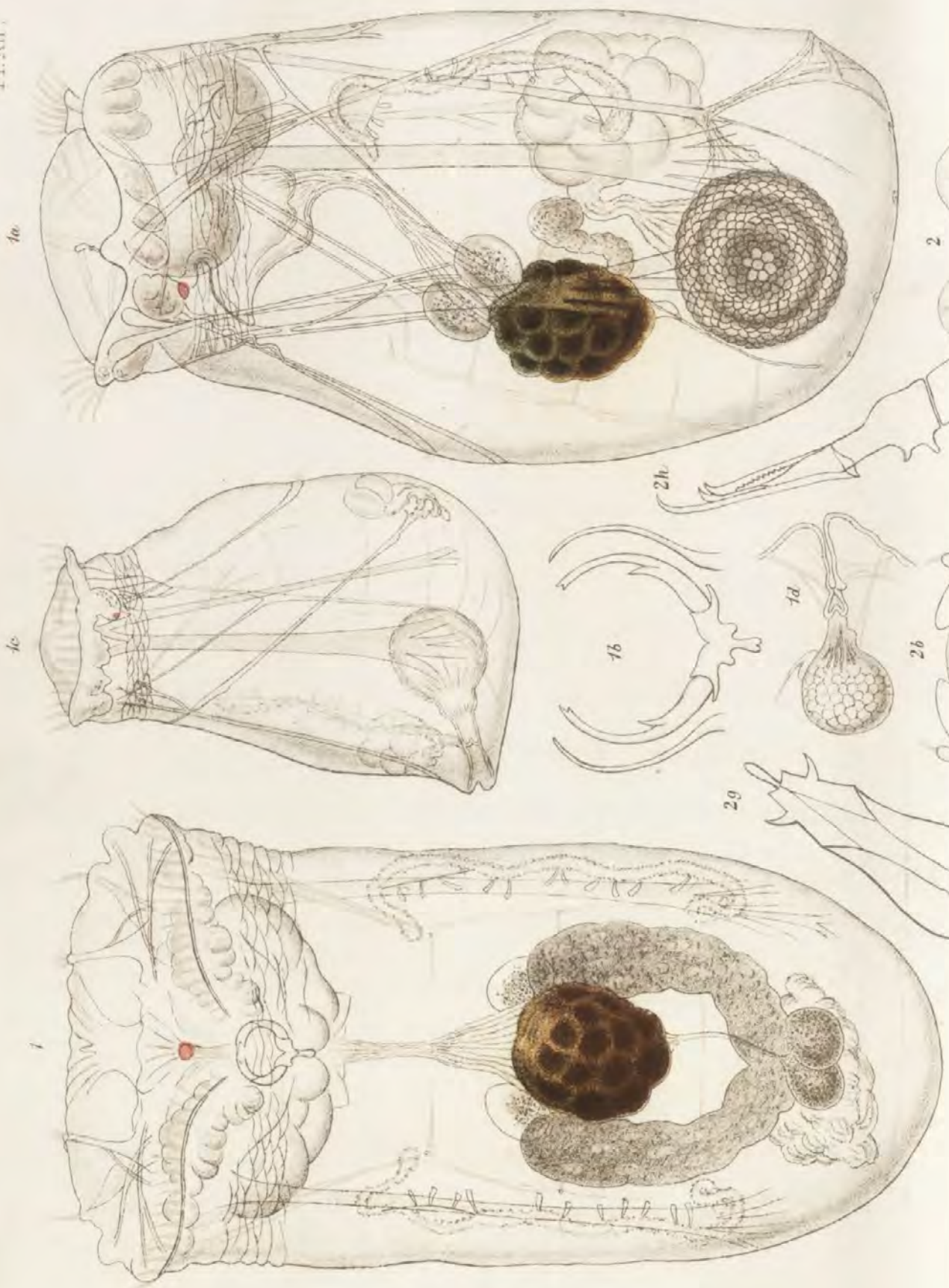
MICROCODON; SACCULUS; ASPLANCHNA.

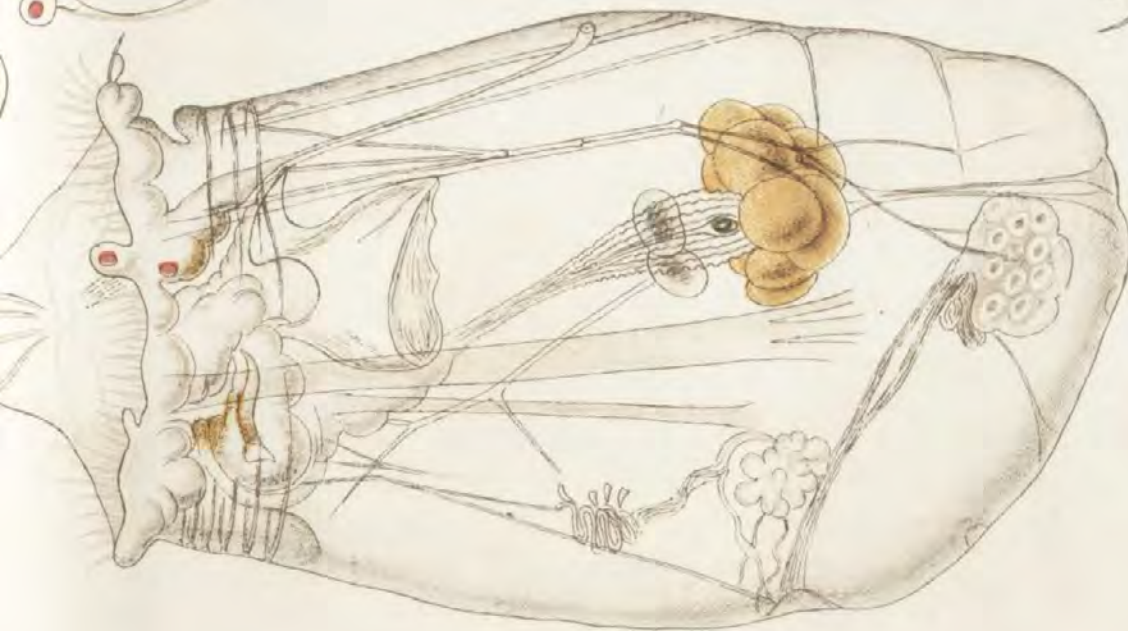
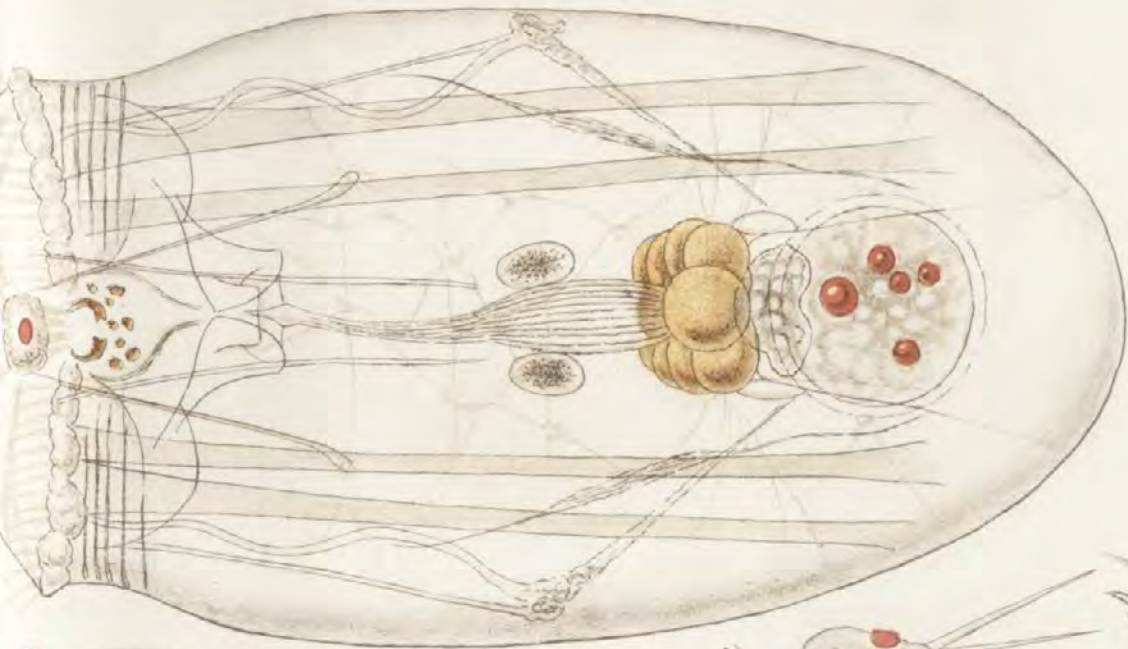
1 M. CLAVUS. 2 S. VIRIDIS. 3 A. EBBSBORNII.

Figs 2 to 2b, 3 C. I. Hubert, ad. v. r. d. l.
Fig. 2. F. H. Gasse

PLATE XII.

1.	<i>Asplanchna Brightwellii</i>	.	ventral view	.	.	.	.	.	.	.	.	.	G
1a.	"	"	side view	.	.	.	.	.	.	.	.	.	G
1b.	"	"	trophi	.	.	.	.	.	.	.	.	.	(after Mr. J. Dalrymple)
1c.	"	"	male; side view	.	.	.	.	.	.	.	.	.	G
1d.	"	"	penis and sperm-sac	.	.	.	.	.	.	.	.	.	(after Mr. J. Dalrymple)
2.	<i>Asplanchna priodonta</i>	.	dorsal view	.	.	.	.	.	.	.	.	.	G
2a.	"	"	side view	.	.	.	.	.	.	.	.	.	G
2b.	"	"	head, from above	.	.	.	.	.	.	.	.	.	G
2c.	"	"	male; side view	.	.	.	.	.	.	.	.	.	H
2d.	"	"	male; brain, eye, nerve-threads	.	.	.	.	.	.	.	.	.	H
2e.	"	"	male; dorsal antenna	.	.	.	.	.	.	.	.	.	H
2f.	"	"	trophi open	.	.	.	.	.	.	.	.	.	G
2g.	"	"	trophi closed, from above	.	.	.	.	.	.	.	.	.	G
2h.	"	"	trophi closed, side view	.	.	.	.	.	.	.	.	.	G





Figs 1, la, k, 2-2b, 2f-2h, PHCOESSE, ad viv. ael.
2c-2e, C. T. HUDSON

Hannaré imp

ASPLANCHNA.

I. A. BRIGHTWELL II. 2. A. PRIODONTA

PLATE XIII.

1.	<i>Synchaeta Baltica</i>	dorsal view	G
1a.	" "	front view	G
2.	<i>Synchaeta tremula</i>	dorsal view	H
2a.	" "	side view	H
2b.	" "	hind extremity, with antennæ	H
2c.	" "	male	H
2d.	" "	mastax	G
3.	<i>Synchaeta pectinata</i>	dorsal view	H
3a.	" "	front view	H
3b.	" "	lateral canal and vibratile tags	H
3c.	" "	dorsal antennæ	H
4.	<i>Synchaeta oblonga</i>	dorsal view	G
5.	<i>Polyarthra platyptera</i>	dorsal view	H
5a.	" "	side view	H
5b.	" "	the same, with male eggs	G
5c.	" "	mastax and œsophagus	G
5d.	" "	plume	G
5e.	" "	the same; the tip enlarged	G
5f.	" "	mastax; side view	G
5g.	" "	mastax; ventral view	G
5h.	" "	males	G
6.	<i>Triarthra longiseta</i>	side view	H
6a.	" "	gastric gland	H
6b.	" "	eye and pigment	H
6c.	" "	striated muscle	H
6d.	" "	extremities of spine	H
6e.	" "	side antenna	H
6f.	" "	ephippial egg	H
7.	<i>Triarthra breviseta</i>	side view	G
7a.	" "	dorsal view	G
8.	<i>Triarthra mystacina</i>	obliquely ventral view	G
9.	<i>Pteroessa surda</i>	empty lorica; side view	G
9a.	" "	the same; dorsal view (?)	G
9b.	" "	the same; ventral view (?)	G
10.	<i>Pedetes saltator</i>	dorsal view	G
10a.	" "	side view	G





Figs 2 to 26, 30, 31, 5a, 5c, 6f, C. Thomsen } ad viv. del.
 27, 28, 29, 32, 33, 34, 35, 36, 37, 38, 39, 40 }
 1872

SYNCHETA; POLYARTHERA; TRIARTHERA; PTERESSA; PEDETES.

1. S. BALTICA. 2. S. TREMULA. 3. S. PECTINATA. 4. S. OBLONGA. 5. P. PLATYPTERA. 6. I. LONGISETA. 7. T. BREVISETA. 8. T. MYSTACINA. 9. P. T. SURDA. 10. PED. SALTATOR.

Hamburg: imp.

PLATE XIV.

1.	<i>Hydatina senta</i>	.	dorsal view	.	.	.	.	.	.	.	.	H
1a.	"	"	ventral view (young specimen)	.	.	.	.	.	.	.	.	H
1b.	"	"	side view	.	.	.	.	.	.	.	.	H
1c.	"	"	ideal section of head	.	.	.	.	.	.	.	.	H
1d.	"	"	hind extremity, showing muscles	.	.	.	.	.	.	.	.	H
1e.	"	"	trophi	.	.	.	.	.	.	.	.	H
1f.	"	"	dead specimen, showing muscles	.	.	.	.	.	.	.	.	H
1g.	"	"	antenna	.	.	.	.	.	.	.	.	H
1h.	"	"	internal parasites	.	.	.	.	.	.	.	.	H
1k.	"	"	one of the same under pressure	.	.	.	.	.	.	.	.	H
1l.	"	"	globular body from a parasite	.	.	.	.	.	.	.	.	H
1m.	"	"	female with internal fungus	.	.	.	.	.	.	.	.	H
1n.	"	"	male; dorsal view	.	.	.	.	.	.	.	.	H
2.	<i>Rhinops vitrea</i>	.	ventral view	.	.	.	.	.	.	.	.	H
2a.	"	"	side view	.	.	.	.	.	.	.	.	H
2b.	"	"	mastax	.	.	.	.	.	.	.	.	H
2c.	"	"	proboscis, with eyes, ganglion, and nerve threads	.	.	.	.	.	.	.	.	H
2d.	"	"	muscles	.	.	.	.	.	.	.	.	H





2b



2c



Hanbhart imp



1c



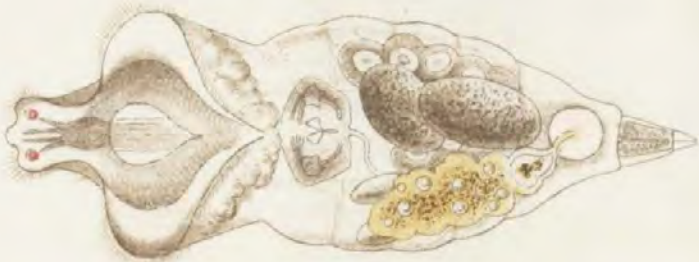
2d



2a



2



1f



1d



C.T.Hudson. ad vivv del

HYDATINA, RHINOPS.

I.H.SENTA. 2.R.VITREA.

PLATE XV.

1.	Notops	Brachionus . . .	dorsal view	H
1a.	"	" . . .	side view	H
1b.	"	" . . .	male; side view	H
1c.	"	" . . .	setæ above the buccal funnel	H
1d.	"	" . . .	setæ on a frontal prominence	H
2.	Notops	hyptopus . . .	dorsal view	H
2a.	"	" . . .	side view	H
2b.	"	" . . .	the same, showing vascular system	H
2c.	"	" . . .	mastax	H
3.	Notops	clavulatus . . .	ventral view	G
3a.	"	" . . .	side view	G



1a



1d



1b



1c



1



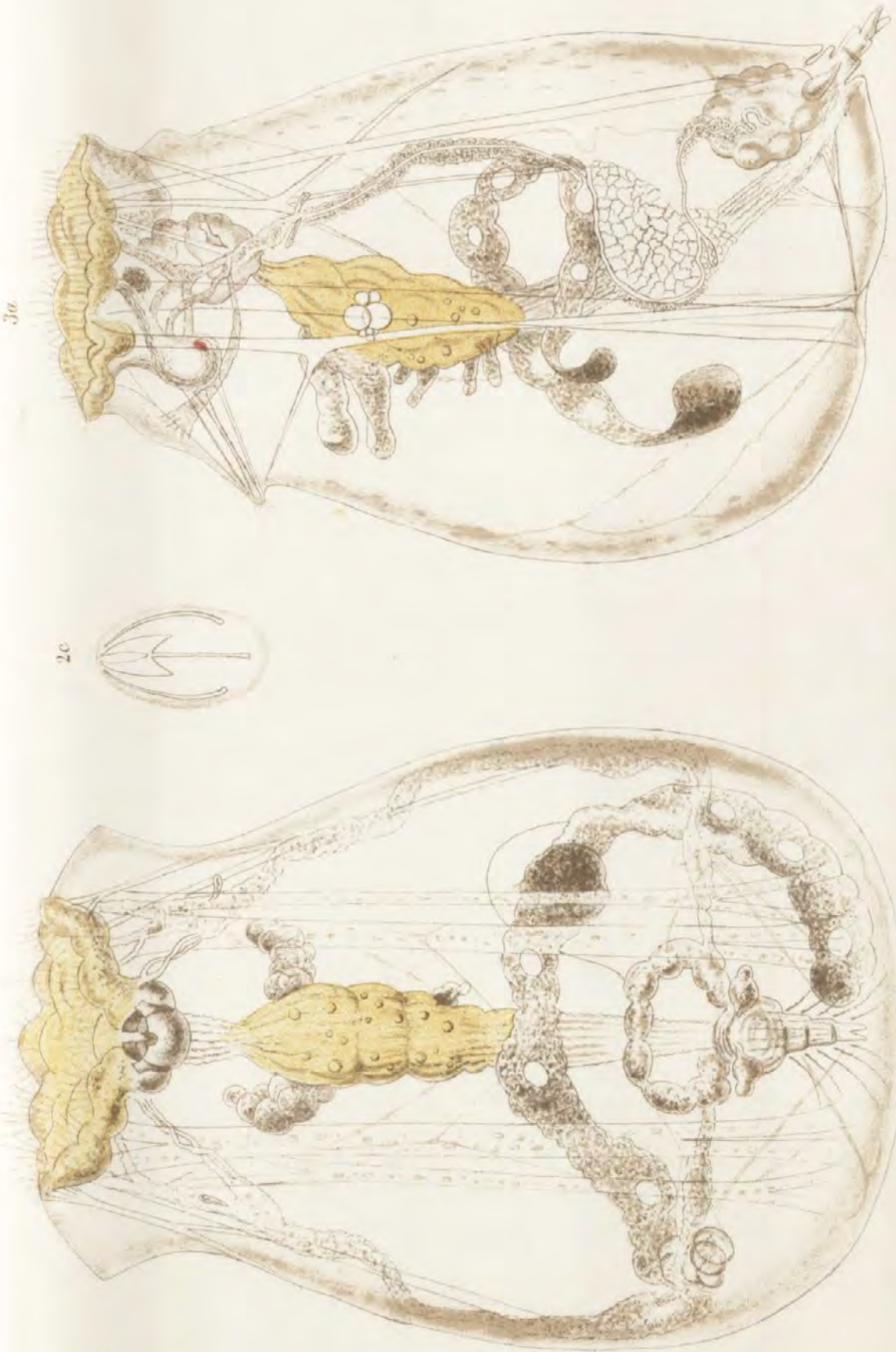
2a



2



2b



Hanhart imp

NOTOPS.
 1. N. BRACHIONUS. 2. N. HYPTIOPUS. 3. N. CLAVULATUS.

Fig. 1. 2. C. T. Hudson } ad viv. ab.
 " 3. P. H. Gosse }

PLATE XVI.

1.	<i>Copeus labiatus</i>	. . . . .	dorsal view	G
1a.	" "	. . . . .	edges of lip	G
2.	<i>Copeus spicatus</i>	. . . . .	dorsal view	G
2a, 2b.	" "	. . . . .	side views of head	G
3.	<i>Copeus Cerberus</i>	. . . . .	dorsal view	G
3a.	" "	. . . . .	side view	G
4.	<i>Copeus pachyurus</i>	. . . . .	dorsal view	G
4a.	" "	. . . . .	transverse section	G
4b.	" "	. . . . .	head, showing buccal orifice	G
5.	<i>Copeus caudatus</i>	. . . . .	dorsal view	G
5a.	" "	. . . . .	side view	G
5b.	" "	. . . . .	mastax and trophi	G
5c.	" "	. . . . .	occipital antenna	G
5d.	" "	. . . . .	hind dorsal tentacle	G
6.	<i>Notommata collaris</i> (?)	. . . . .	dorsal view	H
6a.	" "	. . . . .	side view	H

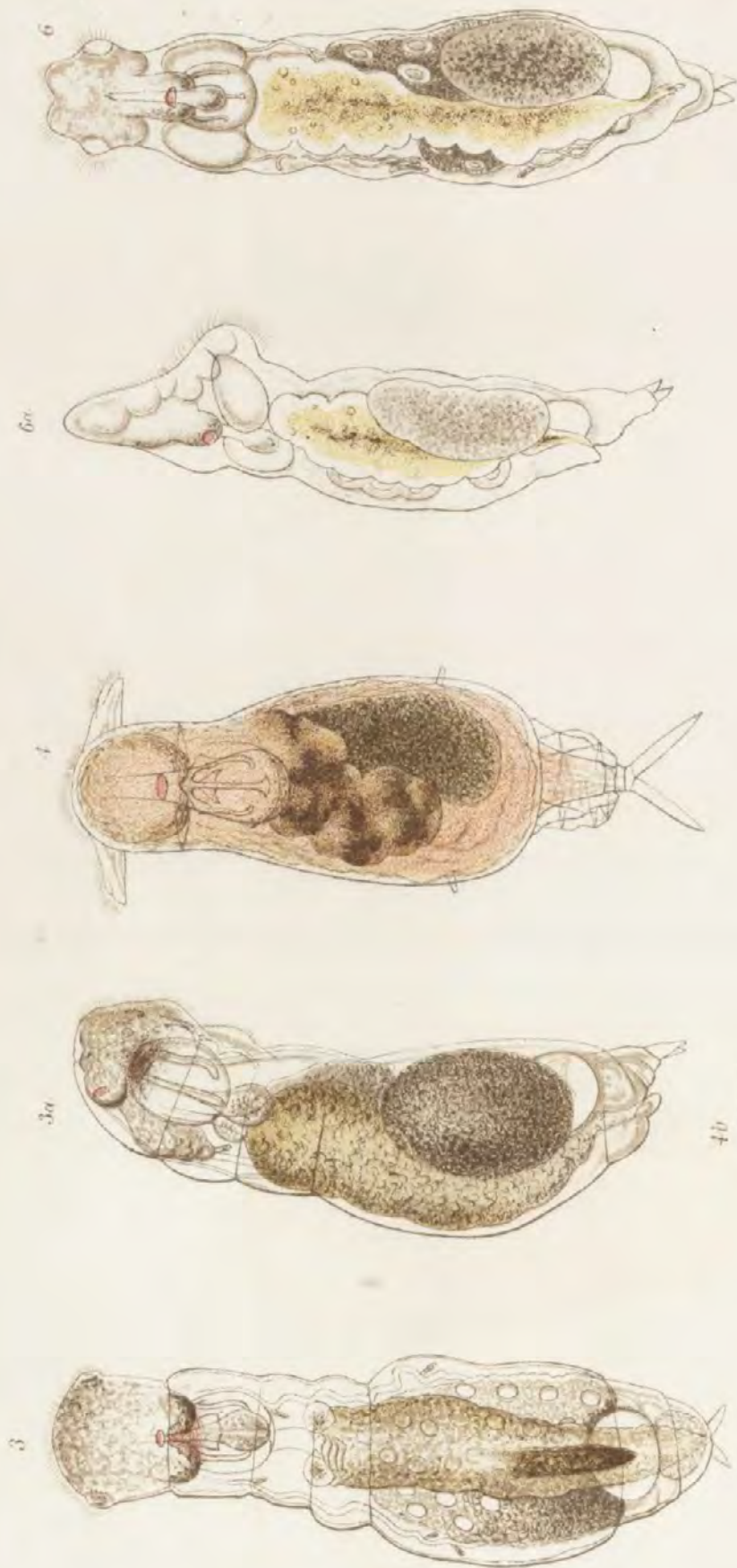




Fig. 1 to 5, F. H. Gorsec, ad viv., del.
 " 6, C. T. Hudson

COPEUS; NOTOMMATA.

- 1. C. LABIATUS.
- 2. C. SPICATUS.
- 3. C. CERBERUS.
- 4. C. PACHYURUS.
- 5. C. CAUDATUS.
- 6. N. COLLARIS.

Hänhart imp.

PLATE XVII.

1.	<i>Notommata brachyota</i>	dorsal view	G
1a.	" "	side view	G
1b.	" "	end of brain, with eye; side view	G
2.	<i>Notommata saccigera</i>	dorsal view	G
2a.	" "	side view	G
3.	<i>Notommata ansata</i>	dorsal view	G
3a.	" "	side view	G
4.	<i>Notommata tripus</i>	dorsal view	G
4a.	" "	side view (smaller scale)	G
4b.	" "	head, showing auricles	G
4c.	" "	trophi	G
5.	<i>Notommata pilarius</i>	dorsal view	G
5a.	" "	side view	G
5b.	" "	transverse section	G
6.	<i>Notommata aurita</i>	dorsal view	G
6a.	" "	side view	G
6b.	" "	central lobe of brain, with eye	G
7.	<i>Notommata cyrtopus</i>	dorsal view	G
7a.	" "	side view	G
7b.	" "	trophi	G
8.	<i>Notommata tuba</i>	dorsal view	G
9.	<i>Notommata lacinulata</i>	dorsal view	G
9a.	" "	side view	G
9b.	" "	trophi, ventral view	G
9c.	" "	trophi, side view	G
10.	<i>Eosphora aurita</i>	dorsal view	G
10a.	" "	side view	G
11.	<i>Taphrocampa Saundersia</i>	dorsal view	G
11a.	" "	side view	G
11b.	" "	transverse section	G
12.	<i>Taphrocampa annulosa</i>	dorsal view	G
12a.	" "	side view	G
12b.	" "	transverse section	G
12c.	" "	trophi, side view	G
12d.	" "	trophi, ventral view	G
12e.	" "	tail (var.)	G
13.	<i>Albertia intrusor</i>	ventral view	G
13a.	" "	side view	G
13b.	" "	trophi, ventral view	G
14.	<i>Albertia naiadis</i>	side view (after Mr. E. C. Bousfield)	



2053





Seubert 1893

NOTOMMATA; EOSPHORA; TAPHROCAMPA; ALBERTIA.

1 N BRACHYOTA 2 N SACCICERA 3 N ANSATA 4 N TRIPUS 5 N PILARIUS 6 N AURITA 7 N CYRTOPIUS 8 N TUBA
 9 N LACINULATA 10 E AURITA 11 T SAUNDERSIE 12 T ANNULOSA 13 A INTRUSOR 14 A NAIDIS

Pl. Gesell. 1893: 46

PLATE XVIII.

1.	<i>Notommata forcipata</i>	dorsal view	G
1a.	" "	side view	G
1b.	" "	toes	G
2.	<i>Notommata naias</i>	ventral view	G
2a.	" "	head; dorsal view	G
2b.	" "	mastax and trophi	G
3.	<i>Pleurotrocha constricta</i>	dorsal view	G
3a.	" "	side view	G
3b.	" "	head; ventral view	G
3c.	" "	foot and toes	G
4.	<i>Pleurotrocha leptura</i>	dorsal view	G
4a.	" "	side view	G
5.	<i>Pleurotrocha gibba</i>	dorsal view	G
5a.	" "	side view	G
6.	<i>Proales decipiens</i>	dorsal view	G
6a.	" "	side view	G
7.	<i>Proales sordida</i>	dorsal view	G
7a, 7b.	" "	side views	G
7c.	" "	trophi	G
8.	<i>Proales gibba</i>	side view	G
9.	<i>Proales petromyzon</i>	ventral view	G
9a.	" "	side view; extended	G
9b.	" "	side view; contracted	G
9c.	" "	head, side view; enlarged	G
9d.	" "	eye	G
10.	<i>Proales tigridia</i>	dorsal view	G
10a.	" "	side view	G
11.	<i>Proales parasita</i>	side view	G
11a.	" "	mastax and trophi	G
12.	<i>Distemma labiatum</i>	dorsal view	G
12a.	" "	side view	G
13.	<i>Distemma Collinsii</i>	side view	G
14.	<i>Triophthalmus dorsualis</i> (?)	dorsal view	G
14a.	" "	side view	G
15.	<i>Furcularia æqualis</i>	dorsal view	G
15a.	" "	side view	G
16.	<i>Furcularia longiseta</i>	dorsal view	G
16a.	" "	side view	G
17.	<i>Proales felis</i>	dorsal view	G
17a.	" "	side view	G
17b.	" "	trophi	G





F.H. Gosse, ad viv. del.

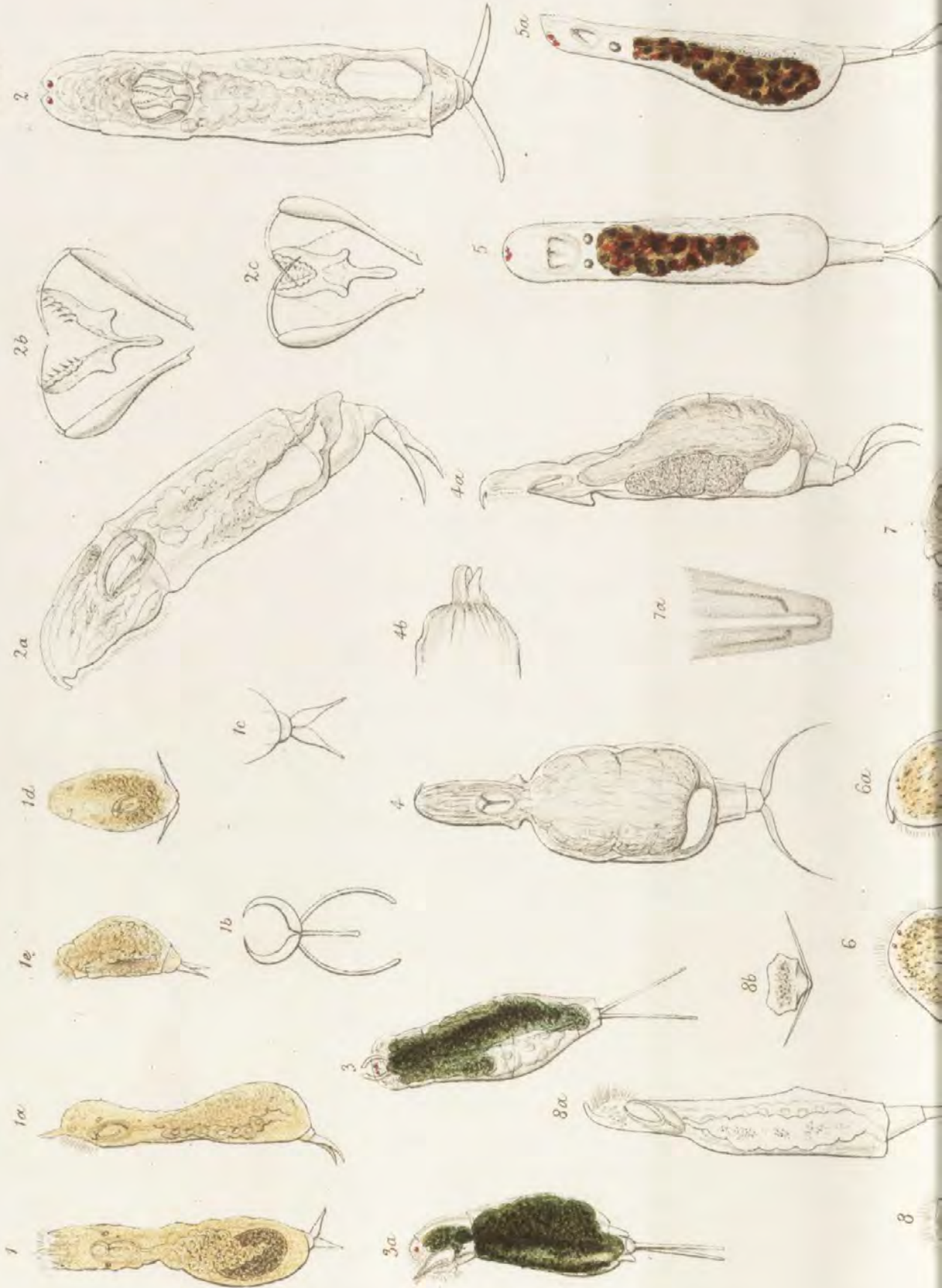
Reinach, t. 107.

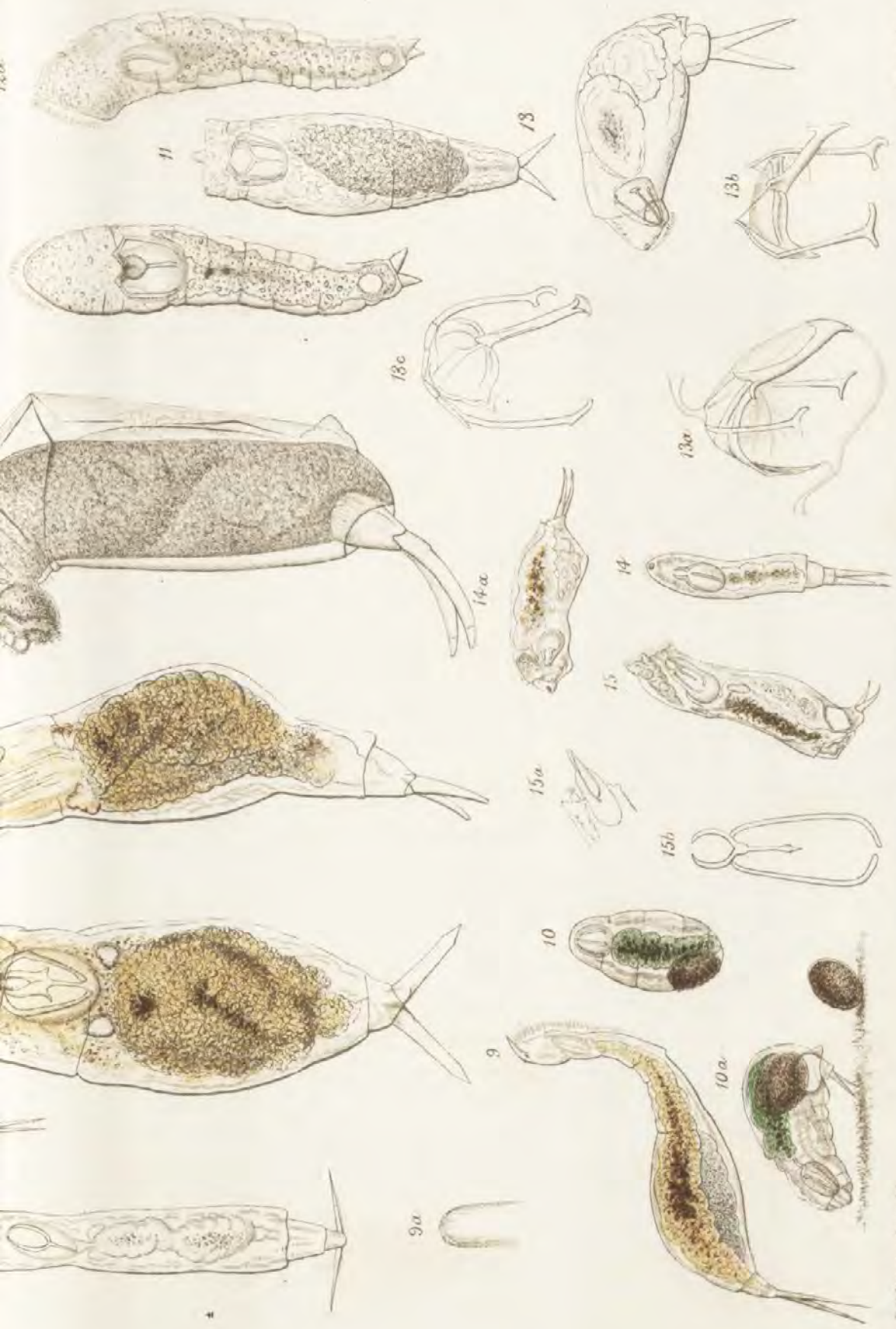
NOTOMMATA, PLEUROTROCHA, PIRALES, DISTEMMIA, TRIOPHTHALMUS (2), FURCULARIA.

1. N. FORCIPATA 2. N. NAJAS. 3. PL. CONSTRICTA 4. PL. LEPTURA 5. PL. GIBBA 6. PR. DECIPIENS 7. PR. SORDIDA 8. PR. GIBBA 9. PR. PETROMYZON
 10. PR. TIGRIDA 11. PR. PARASITA 12. D. LABIATUM 13. D. COLLINSII 14. T. DORSUALIS 15. F. EQUALIS 16. F. LONGICSETA 17. PR. FELIX

PLATE XIX.

1.	<i>Distemma raptor</i>	dorsal view	G
1a.	" "	side view	G
1b.	" "	trophi	G
1c.	" "	foot and toes	G
1d.	" "	contracted; dorsal view	G
1e.	" "	" side view	G
2.	<i>Diglena forcipata</i>	dorsal view	G
2a.	" "	side view	G
2b.	" "	trophi, expanded	G
2c.	" "	trophi, shut	G
3.	<i>Diglena biraphis</i>	dorsal view	G
3a.	" "	side view	G
4.	<i>Diglena circinator</i>	dorsal view	G
4a.	" "	side view	G
4b.	" "	fore parts, in contraction	G
5.	<i>Diglena clastopis</i>	dorsal view	G
5a.	" "	side view	G
6.	<i>Diglena grandis</i>	dorsal view	G
6a.	" "	side view	G
7.	<i>Diglena gibber</i>	side view	G
8.	<i>Diglena caudata</i>	dorsal view	G
9.	<i>Diglena giraffa</i>	side view	G
9a.	" "	head, dorsal view	G
10.	<i>Diglena catellina</i>	dorsal view	G
10a.	" "	side view	G
11.	<i>Diglena permollis</i>	dorsal view	G
12.	<i>Furcularia micropus</i>	dorsal view	G
12a.	" "	side view	G
13.	<i>Furcularia gibba</i>	side view	G
13a.	" "	mastax and trophi, obliquely ventral view	G
13b.	" "	trophi, expanded	G
13c.	" "	trophi, shut	G
14.	<i>Furcularia gracilis</i>	dorsal view	G
14a.	" "	side view	G
15.	<i>Furcularia marina</i>	side view	G
15a.	" "	protruded trophi, and antenna	G
15b.	" "	trophi	G





P. H. Gosse, ad viv. del.

Barbiers imp.

DISTEMMA, DIGLENA; FURCULARIA.

- 1. DIS-RAPTOR. 2. DIG-FORCIPATA. 3. DIG-BIRAPHIS. 4. DIG-CIRCINATOR. 5. DIG-CLASTOPIS. 6. DIG-GRANDIS. 7. DIG-GIBBER.
- 8. DIG CAUDATA. 9. DIG-GIRAFFA. 10. DIG-CATELLINA. 11. DIG-PERMOLLIS. 12. F-MICROFOS. 13. F-GIBBA. 14. F-GRACILIS. 15. F-MARINA.

PLATE XX.

1.	<i>Furcularia forficula</i>	dorsal view	G
1a.	" "	side view	G
1b.	" "	toe	G
2.	<i>Furcularia Boltoni</i>	dorsal view	G
2a.	" "	side view	G
3.	<i>Furcularia ensifera</i>	dorsal view	G
3a.	" "	side view	G
4.	<i>Furcularia cæca</i>	dorsal view	G
4a.	" "	side view	G
5.	<i>Mastigocerca bicornis</i>	dorsal view	G
5a.	" "	side view	G
5b.	" "	muscles	G
6.	<i>Mastigocerca stylata</i>	side view	G
6a.	" "	mastax and trophi	G
6b.	" "	muscles	G
7.	<i>Mastigocerca carinata</i>	side view	G
7a.	" "	insertion of toe	G
8.	<i>Mastigocerca elongata</i>	side view	G
9.	<i>Mastigocerca rattus</i>	dorsal view	G
9a.	" "	side view	G
10.	<i>Mastigocerca lophoessa</i>	side view	G
10a.	" "	empty lorica	G
11.	<i>Mastigocerca scipio</i>	side view	G
12.	<i>Mastigocerca macera</i>	side view; dead	G
13.	<i>Rattulus tigris</i>	side view	G
13a.	" "	mastax and trophi	G
13b, 13c.	" "	foot and toes	G
14.	<i>Rattulus cimolius</i>	dorsal view	G
14a.	" "	side view	G
14b, 14c.	" "	mastax and trophi	G
15.	<i>Rattulus sejunctipes</i>	dorsal view	G
15a.	" "	side view	G
16.	<i>Rattulus calyptus</i>	side view	G
17.	<i>Rattulus helminthoides</i>	obliquely ventral view	G
17a.	" "	side view	G
18, 18a.	<i>Cælopus porcellus</i>	side views	G
18b.	" "	front of lorica	G
18c.	" "	transverse muscles; and toes, apart	G
18d.	" "	toes, one within the other	G
19.	<i>Cælopus tenuior</i>	dorsal view	G
19a.	" "	side view	G
20.	<i>Cælopus minutus</i>	dorsal view	G
20a.	" "	side view	G
21.	<i>Cælopus brachyurus</i>	side view	G
22.	<i>Cælopus cavia</i>	side view	G





Harbari imp

FURCULARIA; MASTIGOCERCA; RATTULUS; COELOPUS.

- 1 F. FORPICULA 2 F. HOLTONI 3 F. ENSIFERA 4 F. C. 5 M. BICORNIS 6 M. STYLATA 7 M. MARINATA 8 M. ELONGATA 9 M. RATTUS
- 10 M. LOPHOESSA 11 M. SCIPIO 12 M. MACERA 13 R. TIGRIS 14 R. CIMOLIUS 15 R. SEJUNCTIPES 16 R. CALYPTUS 17 R. HELMINTHOIDES.
- 18 C. PORCELLUS 19 C. TENUIOR 20 C. MINUTUS 21 C. BRACHYURUS 22 C. CAVIA

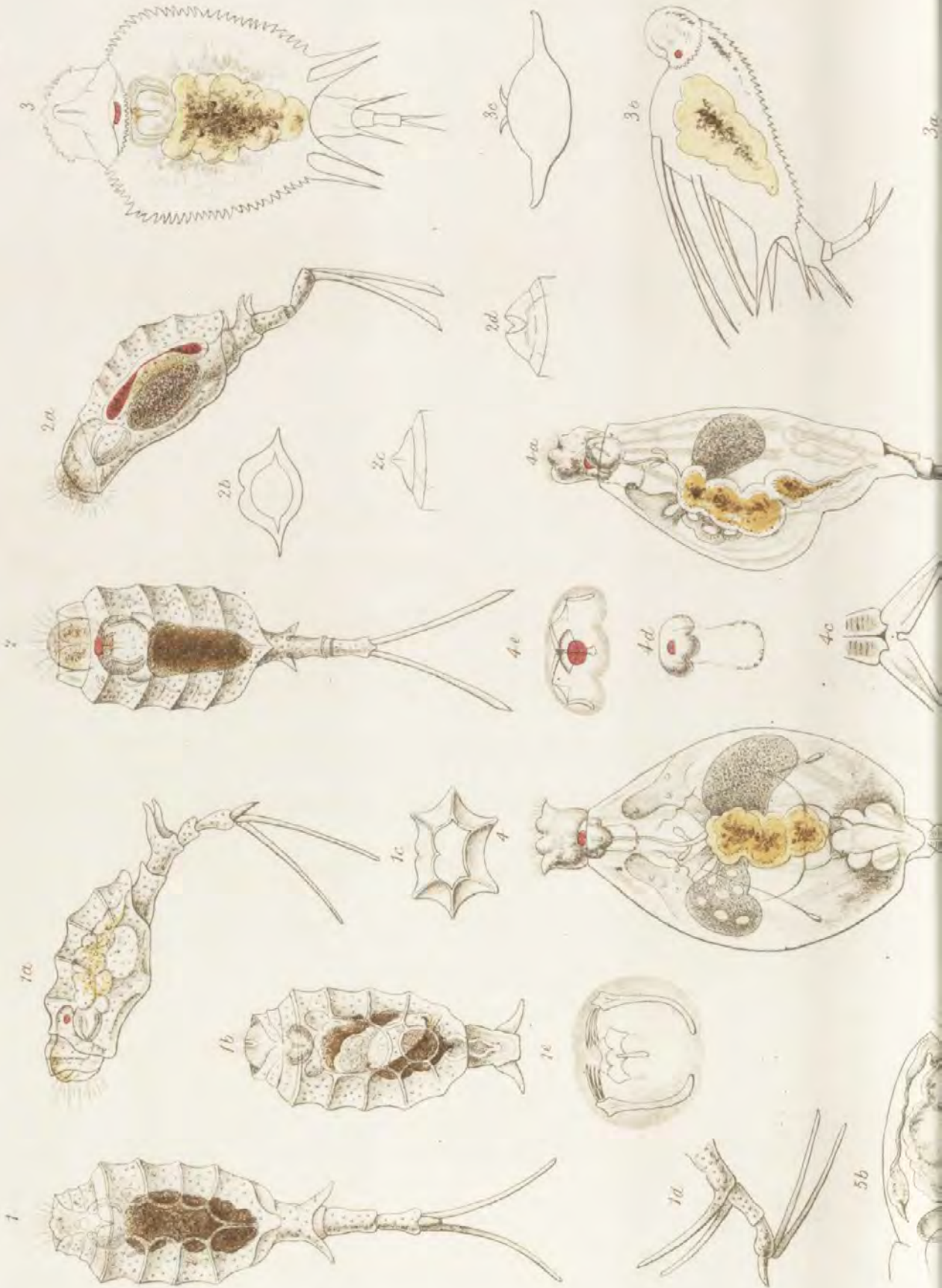
P. H. Gosse, ad viv. del.

VIII.

22

PLATE XXI.

1.	<i>Dinocharis pocillum</i>	. . . . .	dorsal view	H
1a.	" "	. . . . .	side view	H
1b.	" "	. . . . .	ventral view	H
1c.	" "	. . . . .	transverse section	H
1d.	" "	. . . . .	variety; foot	H
1e.	" "	. . . . .	trophi	G
2.	<i>Dinocharis tetractis</i>	. . . . .	dorsal view	G
2a.	" "	. . . . .	side view	G
2b.	" "	. . . . .	transverse section	G
2c.	" "	. . . . .	head; cap closed	G
2d.	" "	. . . . .	head; cap open	G
3.	<i>Dinocharis Collinsii</i>	. . . . .	dorsal view, the armature omitted	G
3a.	" "	. . . . .	dorsal view, showing spines	G
3b.	" "	. . . . .	side view	G
3c.	" "	. . . . .	transverse section	G
4.	<i>Scaridium eudactylosum</i>	. . . . .	dorsal view	H
4a.	" "	. . . . .	side view	H
4b.	" "	. . . . .	ventral view	H
4c.	" "	. . . . .	junction of foot and toes	H
4d.	" "	. . . . .	mastax and brain	H
4e.	" "	. . . . .	mastax, trophi, and eye	G
5.	<i>Scaridium longicaudum</i>	. . . . .	dorsal view	G
5a.	" "	. . . . .	side view	G
5b.	" "	. . . . .	head, showing mastax, trophi, and eye	G
6.	<i>Stephanops muticus</i>	. . . . .	dorsal view	G
6a.	" "	. . . . .	side view	G
7.	<i>Stephanops lamellaris</i>	. . . . .	dorsal view	G
7a.	" "	. . . . .	side view	G
8.	<i>Stephanops unisetatus</i>	. . . . .	dorsal view	G
8a.	" "	. . . . .	side view	G
9.	<i>Stephanops chlæna</i>	. . . . .	dorsal view	G
9a.	" "	. . . . .	side view	G





Figs 1 to 4e, 4a, 4d, L.T. Hudson } ad viv. det.
the rest, F.H. Grassé.

Hanhardt imp.

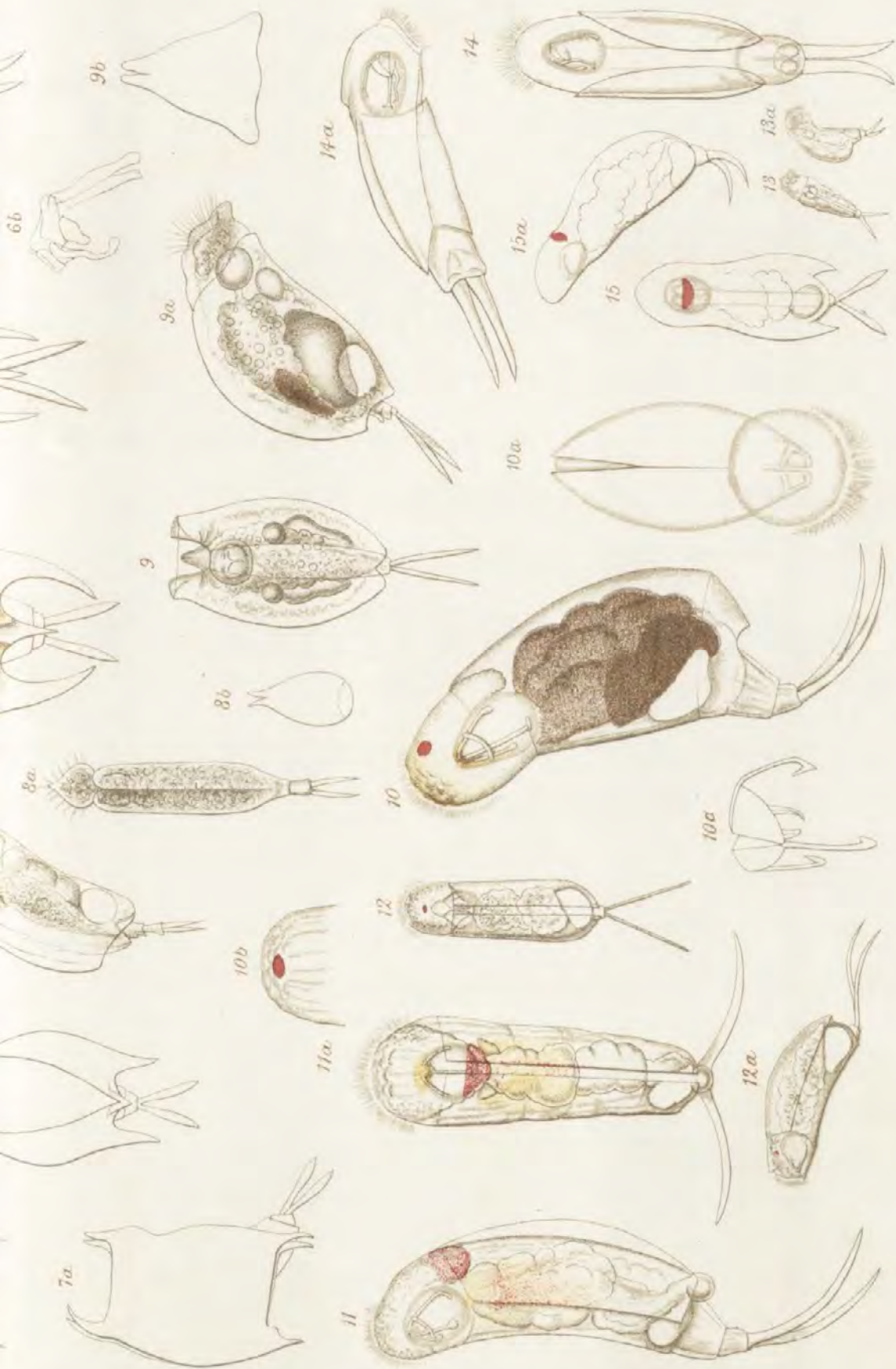
DINOCHARIS; SCARIDIUM; STEPHANOPS.

- 1 D. POCILLUM. 2 D. TETRACTIS 3 D. COLLINSH 4. SC. EUDACTYLOTUM.
5. SC. LONGICAUDUM. 6. ST. MUTICUS. 7. ST. LAMELLARIS. 8. ST. UNISETATUS. 9. ST. CHLENA.

PLATE XXII.

1.	<i>Salpina mucronata</i>	. dorsal view	G
1a.	" "	. side view	G
1b.	" "	. lorica, oblique view	G
2.	<i>Salpina spinigera</i>	. dorsal view	G
2a.	" "	. side view	G
2b.	" "	. transverse section, dorsal half	G
3.	<i>Salpina mutica</i>	. dorsal view	G
3a.	" "	. side view	G
4.	<i>Salpina brevispina</i>	. side view	G
4a.	" "	. lorica, dorsal view	G
4b.	" "	. lorica, side view	G
5.	<i>Salpina eustala</i>	. dorsal view	G
5a.	" "	. side view	G
6.	<i>Salpina macracantha</i>	. dorsal view	G
6a.	" "	. side view	G
6b.	" "	. trophi, side view	G
7.	<i>Salpina sulcata</i>	. dorsal view	G
7a.	" "	. side view	G
7b.	" "	. rear view	G
8.	<i>Diplax compressa</i>	. side view	G
8a.	" "	. dorsal view	G
8b.	" "	. transverse section	G
9.	<i>Diplax trigona</i>	. dorsal view	G
9a.	" "	. side view	G
9b.	" "	. transverse section	G
10.	<i>Diaschiza semiaperta</i>	. side view	G
10a.	" "	. lorica, dorsal view	G
10b.	" "	. head and eye	G
10c.	" "	. trophi	G
11.	<i>Diaschiza pæta</i>	. side view	G
11a.	" "	. dorsal view	G
12.	<i>Diaschiza valga</i>	. dorsal view	G
12a.	" "	. side view	G
13.	<i>Diaschiza exigua</i>	. dorsal view	G
13a.	" "	. side view	G
14.	<i>Diaschiza tenuior</i>	. dorsal view	G
14a.	" "	. side view	G
15.	<i>Diaschiza Hoodii</i>	. dorsal view	G
15a.	" "	. side view	G





T. H. Cosen, ad. viv. del.

Hamann 1897

SALPINA; DIPLAX & DIASCHIZA.

1 S. MUCRONATA 2. S. SPINIGERA 3. S. MUTICA 4. S. BREVISPIA 5. S. EUSTALA 6. S. MACRACANTHA.

7. S. SULCATA 8. DIP. COMPRESSA 9. DIP. TRIGONA 10. DIA. SEMIAPERTA 11. DIA. PETA. 12. DIA. VALGA.

13. DIA. PETA. 14. DIA. PETA. 15. DIA. PETA.

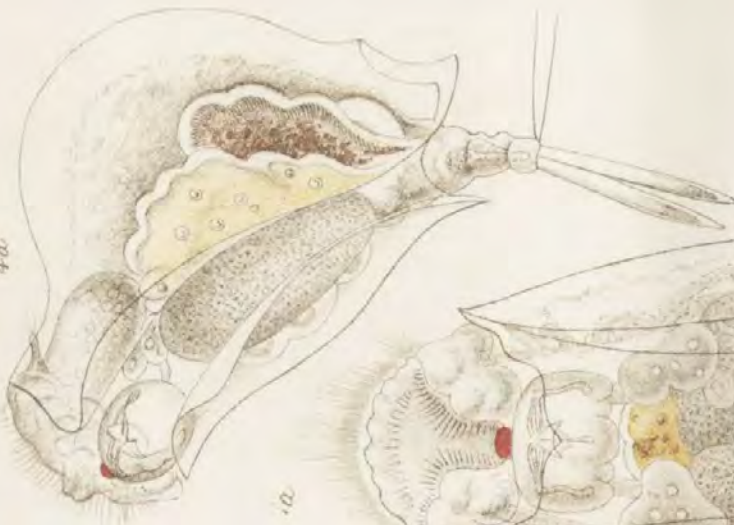
PLATE XXIII.

1.	<i>Euchlanis lyra</i>	. . .	dorsal view	H
1a.	" "	. . .	ventral view	H
1b.	" "	. . .	foot, and contained vessels	H
2.	<i>Euchlanis pyriformis</i>	. . .	ventral view	H
2a.	" "	. . .	transverse section	H
2b.	" "	. . .	front-edges of lorica	H
3.	<i>Euchlanis unisetata</i> (?)	. . .	side view	H
4.	<i>Euchlanis triquetra</i>	. . .	dorsal view	H
4a.	" "	. . .	side view	H
4b.	" "	. . .	ventral view of lorica	H
4c.	" "	. . .	transverse section	H
5.	<i>Euchlanis dilatata</i>	. . .	ventral view : <i>a</i> , edge of dorsal plate ; <i>b</i> , edge of the flange of ventral plate ; <i>c</i> , edge of the portion connecting the dorsal and ventral plates, and at right-angles to both	H
5a.	" "	. . .	dorsal front-edge of lorica	H
5b.	" "	. . .	ventral front-edge of lorica	H
6.	<i>Euchlanis macrura</i>	. . .	dorsal view	H

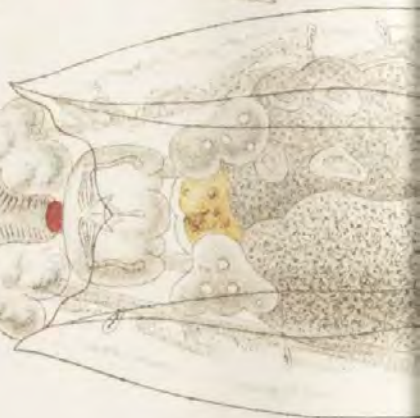
3



4a



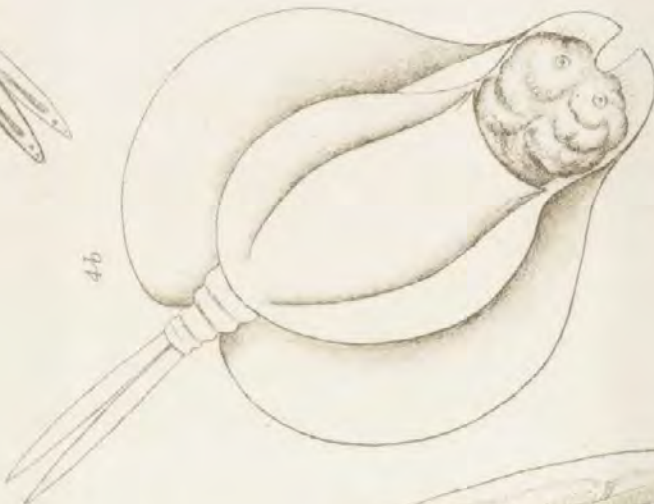
1a



4c



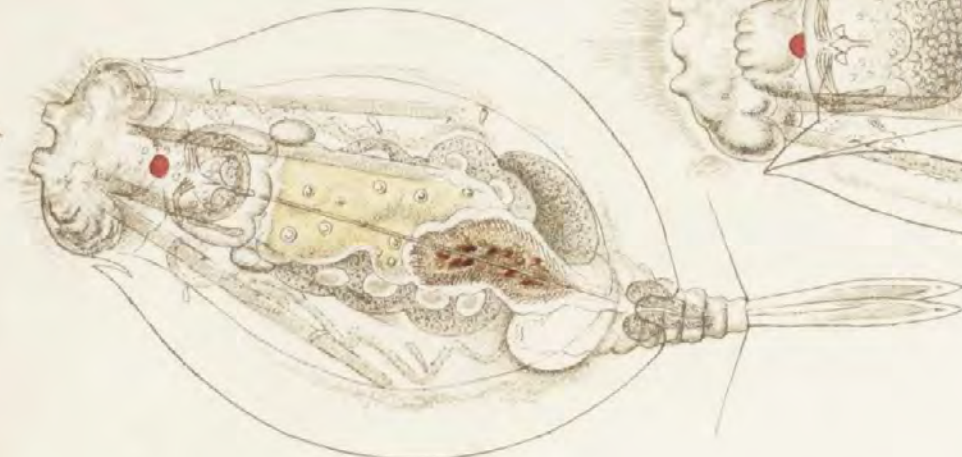
4b



2a



4



1





C. T. Hudson ad viv. del.

EUCLYPTUS.

1 E. LYRA. 2. E. PYRIFORMIS 3 E. UNISETA. 4 E. TRIQUETRA. 5 E. DILATATA. 6 E. MACRURA

Hartbar: imp.

PLATE XXIV.

1.	<i>Euchlanis deflexa</i>	.	.	ventral view	.	.	.	.	.	.	G
1a.	"	"	.	dorsal view	.	.	.	.	.	.	G
1b.	"	"	.	side view	.	.	.	.	.	.	G
1c.	"	"	.	empty lorica, ventral view	.	.	.	.	.	.	H
2.	<i>Diplois propatula</i>	.	.	dorsal view	.	.	.	.	.	.	G
2a.	"	"	.	side view	.	.	.	.	.	.	G
3.	<i>Diplois Daviesiæ</i>	.	.	dorsal view	.	.	.	.	.	.	G
3a.	"	"	.	side view	.	.	.	.	.	.	G
3b.	"	"	.	transverse section	.	.	.	.	.	.	G
3c.	"	"	.	hind end of lorica, dorsal view	.	.	.	.	.	.	G
3d.	"	"	.	trophi	.	.	.	.	.	.	G
4.	<i>Cathypna luna</i>	.	.	dorsal view, head extended	.	.	.	.	.	.	G
4a.	"	"	.	dorsal view, head retracted	.	.	.	.	.	.	G
4b.	"	"	.	side view, head retracted	.	.	.	.	.	.	G
4c.	"	"	.	rear view	.	.	.	.	.	.	G
5.	<i>Cathypna sulcata</i>	.	.	dorsal view	.	.	.	.	.	.	G
5a.	"	"	.	side view, head retracted	.	.	.	.	.	.	G
5b.	"	"	.	side view, head extended	.	.	.	.	.	.	G
5c.	"	"	.	lorica, ventral view	.	.	.	.	.	.	G
5d.	"	"	.	edge of lorica	.	.	.	.	.	.	G
6.	<i>Cathypna rusticula</i>	.	.	dorsal view	.	.	.	.	.	.	G
6a.	"	"	.	side view	.	.	.	.	.	.	G
6b.	"	"	.	rear view	.	.	.	.	.	.	G
7.	<i>Distyla flexilis</i>	.	.	dorsal view	.	.	.	.	.	.	G
7a.	"	"	.	side view	.	.	.	.	.	.	G
8.	<i>Distyla Gissensis</i>	.	.	dorsal view	.	.	.	.	.	.	G
8a.	"	"	.	side view	.	.	.	.	.	.	G

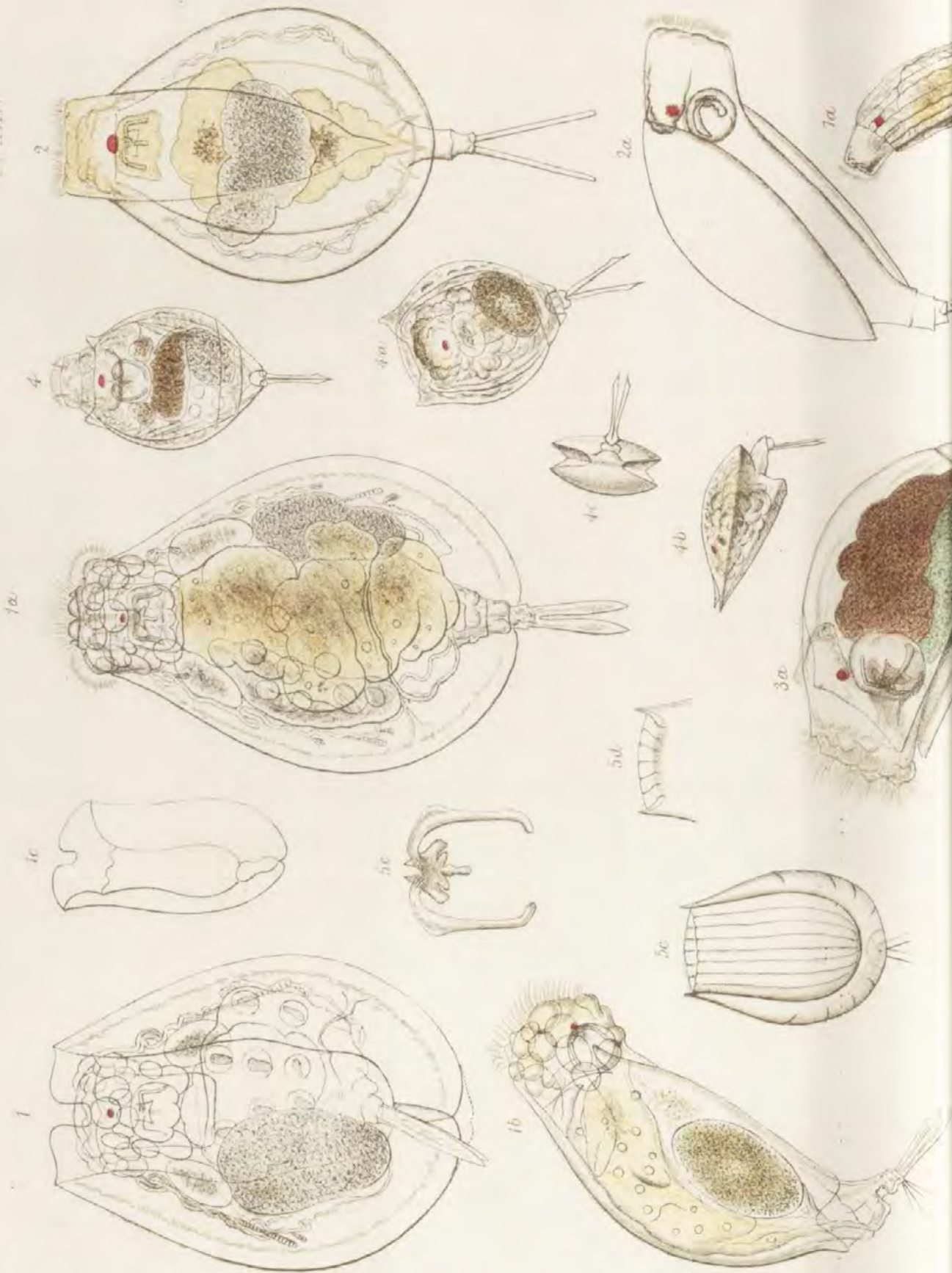




Fig. 1. U. Hirschen, ad nat.
the rest: P.H. Gosse, ad viv. } del.

EUCHLANIS; DIPLONIS; CATHYPNA; DISTYLA.

1 *E. DEFLEXA*. 2 *DIP. PROPATULA*. 3 *DIP. DAVIESI*. 4 *C. LUNA*. 5 *C. SULCATA*. 6 *C. RUSTICULA*.

7 *DIS. FLEXILIS*. 8 *DIS. GISSENSIS*.

Hannart. imp.

PLATE XXV.

1.	<i>Monostyla cornuta</i>	dorsal view	G
1a.	" "	side view	G
1b.	" "	transverse section	G
2.	<i>Monostyla lunaris</i>	dorsal view	G
2a, 2b.	" "	side view	G
2c.	" "	rear view	G
3.	<i>Monostyla quadridentata</i>	dorsal view	G
4.	<i>Monostyla bulla</i>	dorsal view	G
4a.	" "	side view	G
4b.	" "	rear view	G
4c.	" "	front of lorica	G
5.	<i>Monostyla Lordii</i>	dorsal view	G
6.	<i>Metopidia lepadella</i>	dorsal view	G
6a.	" "	side view	G
6b.	" "	transverse section	G
7.	<i>Metopidia triptera</i>	dorsal view	G
7a.	" "	side view	G
7b.	" "	front view	G
8.	<i>Metopidia oxysternon</i>	ventral view	G
8a.	" "	side view	G
8b.	" "	lorica; ventral view	G
8c.	" "	lorica; dorsal view	G
8d.	" "	transverse section	G
8e.	" "	head; side view	G
8f.	" "	trophi	G
8g.	" "	pectoral notch of lorica	G
8h.	" "	hind end of ventral plate, showing orifice for the foot	G
9.	<i>Metopidia acuminata</i>	dorsal view	G
9a.	" "	side view	G
9b.	" "	lorica; ventral view	G
9c.	" "	transverse section	G
10.	<i>Metopidia rhomboides</i>	dorsal view	G
10a.	" "	side view	G
10b.	" "	transverse section	G
11.	<i>Metopidia solidus</i>	dorsal view	G
11a.	" "	ventral view, head retracted	G
11b.	" "	side view	G
11c.	" "	rear view	G
11d.	" "	front of lorica	G
11e.	" "	hind end of lorica	G
11f.	" "	stomach	G
12.	<i>Colurus dactylotus</i>	dorsal view	G
12a.	" "	side view	G
13.	<i>Colurus pedatus</i>	side view	G
13a.	" "	foot and toes	G





Hastler, imp.

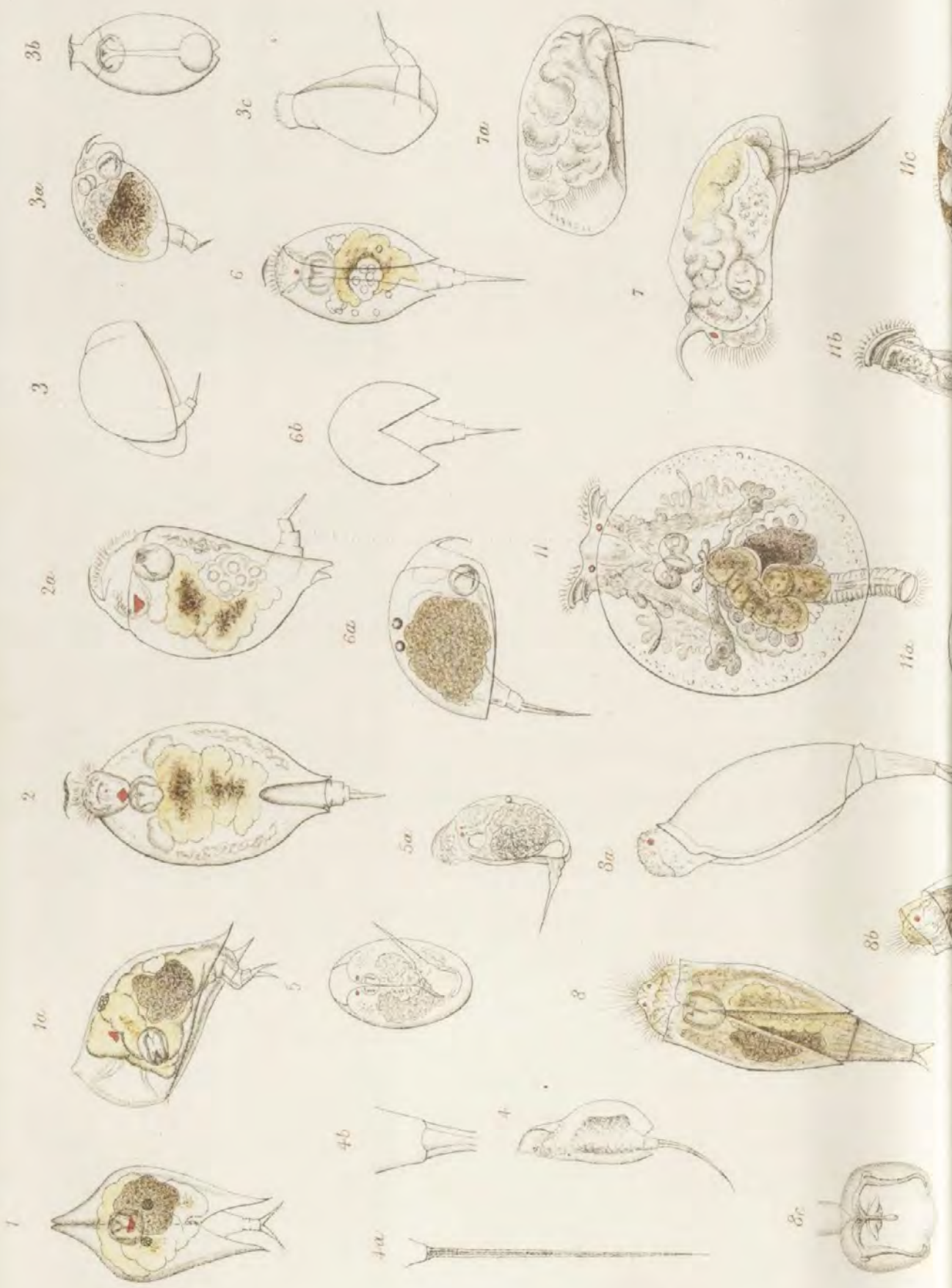
MONSTYLA; COLURUS.

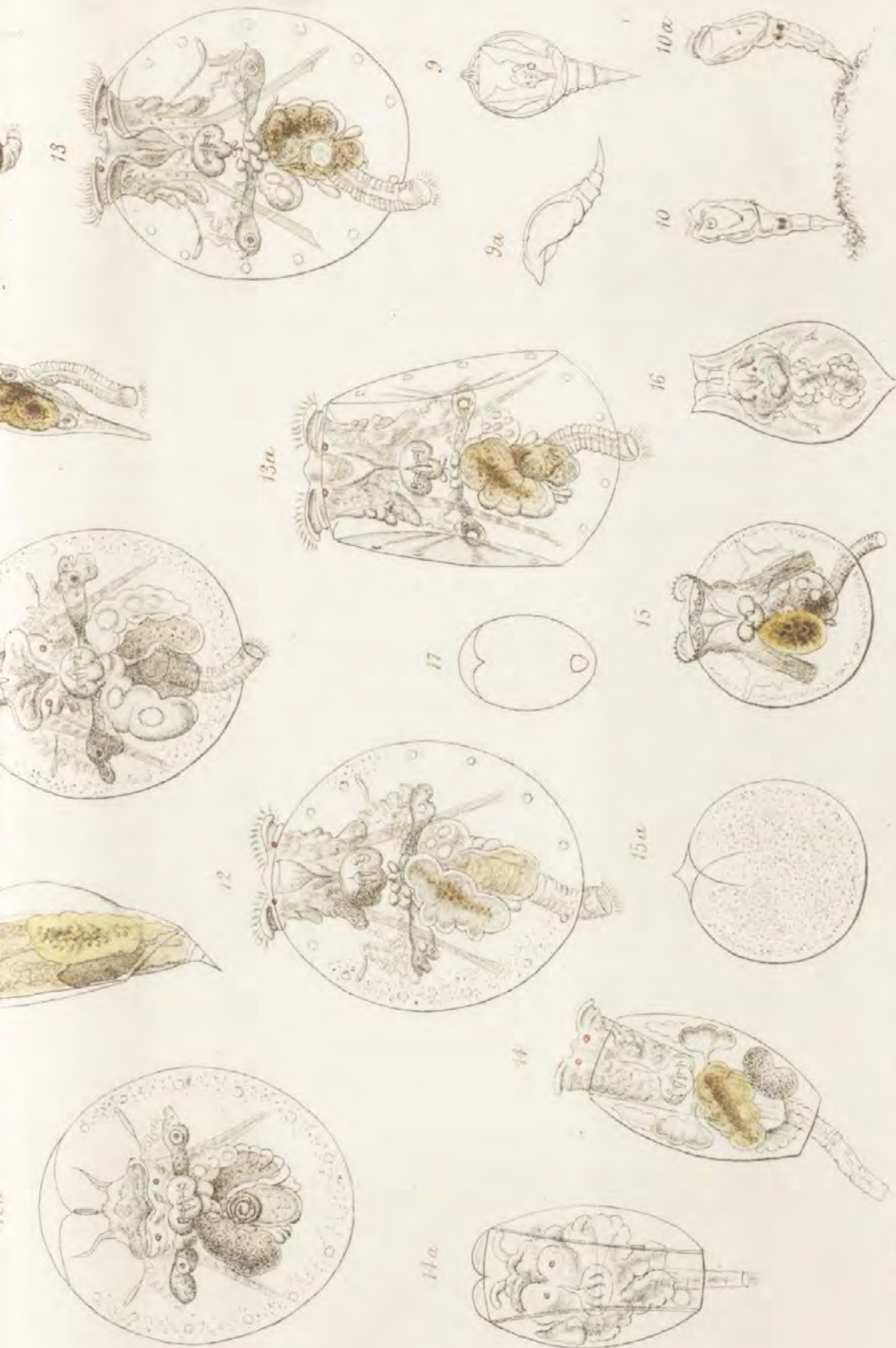
- 1 M. CORNUTA 2 M. LUNARIS 3 M. QUADRIDENTATA 4 M. BULLA 5 M. GORDII 6 M. LEPADELLA 7 M. TRIPTERA
- 8 M. OXYSTERNON 9 M. ACUMINATA 10 M. RHOMBOIDES 11 M. SOLIDUS 12 C. DACTYLOTUS 13 C. PEDATUS.

PH. Giese, ad. viv. del.

PLATE XXVI.

1.	<i>Colurus deflexus</i>	dorsal view	G
1a.	" "	side view, head retracted	G
2.	<i>Colurus bicuspidatus</i>	dorsal view	G
2a.	" "	side view	G
3.	<i>Colurus obtusus</i>	side view, head retracted	G
3a.	" "	side view, head protruded	G
3b.	" "	ventral view	G
3c.	" "	obliquely ventral view	G
4.	<i>Colurus cœlopinus</i>	side view	G
4a.	" "	extremity of foot, and toe	G
4b.	" "	junction of foot and toe	G
5.	<i>Colurus amblytelus</i>	ventral view	G
5a.	" "	side view	G
6.	<i>Colurus caudatus</i>	ventral view	G
6a.	" "	side view	G
6b.	" "	rear view	G
7.	<i>Monura colurus</i>	side view, head protruded	G
7a.	" "	side view, head retracted	G
8.	<i>Mytilia Tavina</i>	ventral view	G
8a.	" "	side view, head and foot protruded	G
8b.	" "	side view, head and foot retracted	G
8c.	" "	trophi	G
9.	<i>Cochleare staphylinus</i>	dorsal view	G
9a.	" "	side view	G
10.	<i>Cochleare turbo</i>	dorsal view	G
10a.	" "	side view	G
11.	<i>Pterodina patina</i>	dorsal view	H
11a.	" "	ventral view, head retracted	H
11b.	" "	side view	H
11c.	" "	front view	H
12.	<i>Pterodina patina</i> (a variety)	dorsal view	H
12a.	" "	ventral view, head and foot retracted	H
13.	<i>Pterodina valvata</i>	ventral view	H
13a.	" "	dorsal view, lorica folded	H
14.	<i>Pterodina clypeata</i>	dorsal view	G
14a.	" "	dorsal view, head retracted	G
15.	<i>Pterodina mucronata</i>	dorsal view	G
15a.	" "	ventral view, lorica	G
16.	<i>Pterodina truncata</i>	ventral view	G
17.	<i>Pterodina elliptica</i>	lorica, ventral view	H





Hasthart imp.

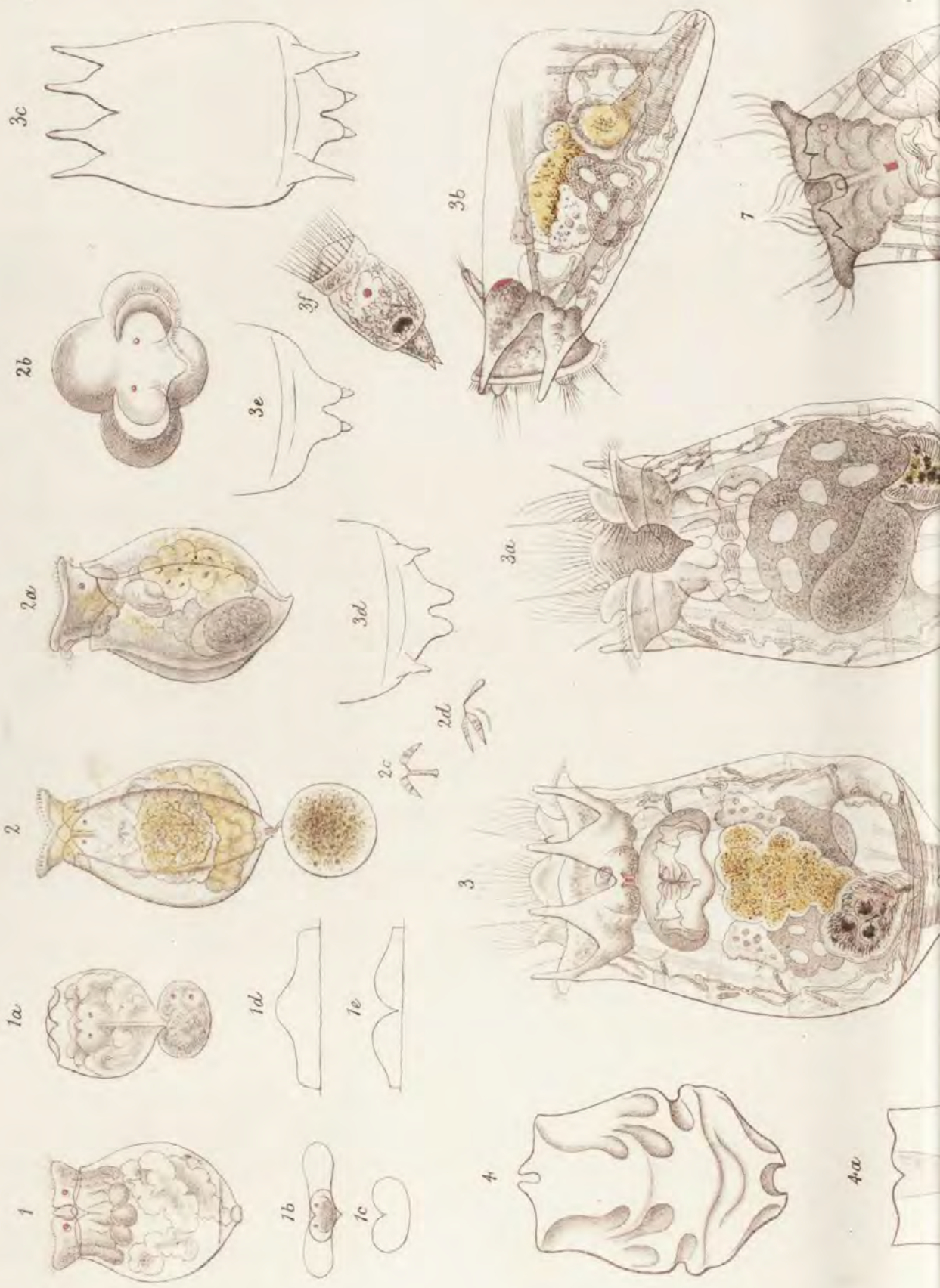
COLURUS; MONURA, MYTILIA; COCHLEARE; PTERODINA.

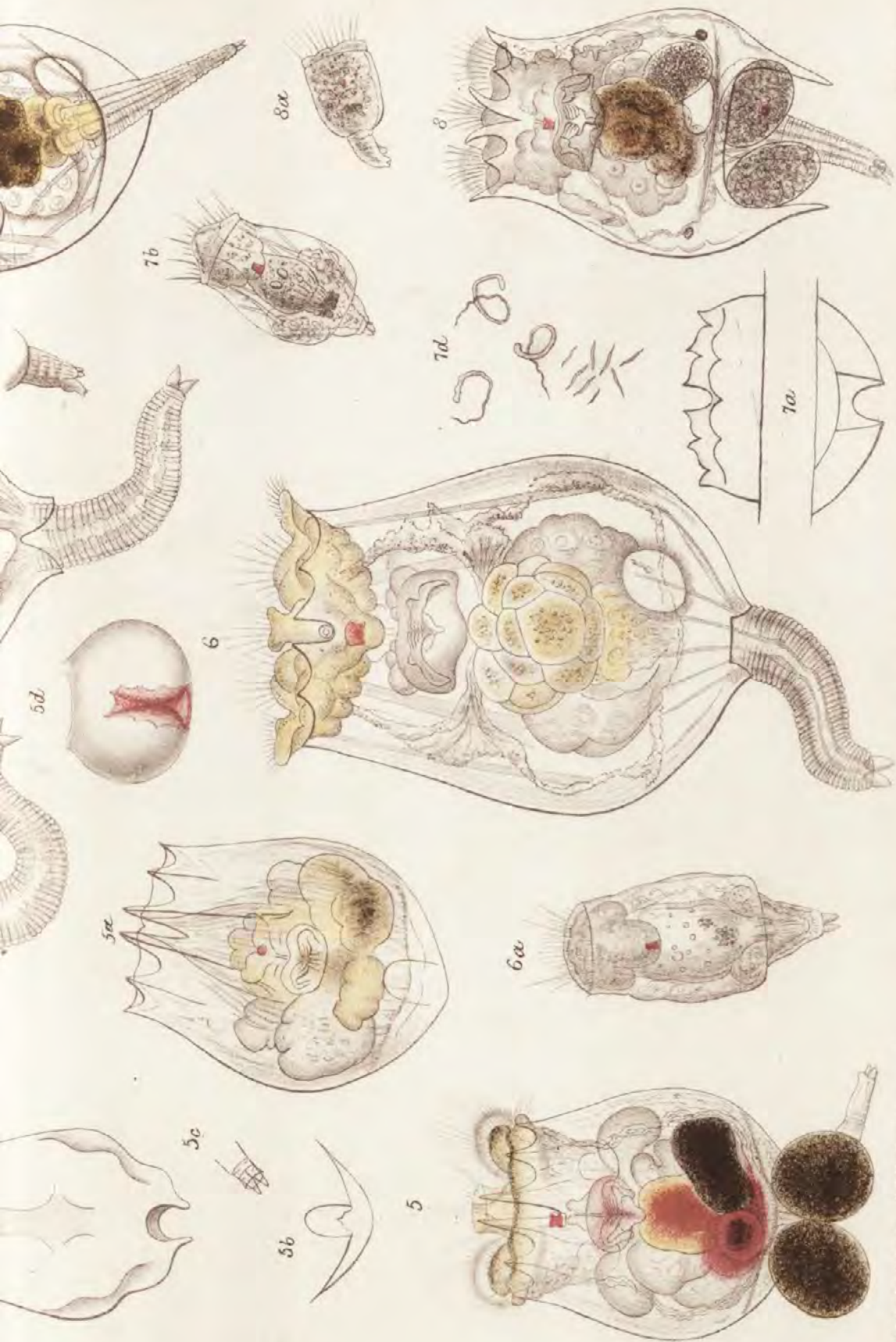
- 10. DEFLEXUS 2 C. BICUSPIDATUS 3 C. OBTUSUS 4 C. CELOPINUS 5 C. AMBLYTELOS 6 C. CAUDATUS
- 7. MON. COLURUS 8. MY. LAVINA 9. COCH. STAPHYLINUS 10. COCH. TURBO 11. P. PATINA 12. P. PATINA (Var)
- 13. P. VALVATA 14. P. CLYPEATA 15. P. MUCRONATA 16. P. TRUNCATA 17. P. ELLIPTICA.

Publ. by G. Reichenow, ad viv. det. Dr. Carl V. S. G. G. G.

PLATE XXVII.

1.	<i>Pompholyx complanata</i>	. dorsal view, extended	G
1a.	" "	. dorsal view, retracted	G
1b.	" "	. front view	G
1c.	" "	. outline of corona	G
1d, 1e.	" "	. occipital and pectoral edges of lorica	G
2.	<i>Pompholyx sulcata</i>	. dorsal view	G
2a.	" "	. side view	H
2b.	" "	. front view	H
2c, 2d.	" "	. trophi	G
3.	<i>Brachionus pala</i>	. dorsal view	H
3a.	" "	. ventral view	H
3b.	" "	. side view	H
3c, 3d, 3e.	" "	. loricae of three varieties	H
3f.	" "	. male	G
4.	<i>Brachionus angularis</i>	. lorica, dorsal view	H
4a.	" "	. lorica, ventral view	H
5.	<i>Brachionus rubens</i>	. dorsal view, extended	G
5a.	" "	. dorsal view, retracted	G
5b.	" "	. hind end of lorica	G
5c.	" "	. end of foot	G
5d.	" "	. brain and eye	H
6.	<i>Brachionus urceolaris</i>	. dorsal view	G
6a.	" "	. male	G
7.	<i>Brachionus Mülleri</i>	. dorsal view	G
7a.	" "	. extremities of lorica	G
7b.	" "	. male	G
7c.	" "	. penis and foot	G
7d.	" "	. spermatozoa	G
8.	<i>Brachionus Bakeri</i>	. dorsal view	G
8a.	" "	. male	G





2 a. 2 b. 3 a. 3 b. 4 a. 5 a. 5 b. 5 c. 5 d. 6 a. 6 b. 6 c. 6 d. 7 a. 7 b. 7 c. 7 d. 8 a. 8 b. 8 c. 8 d. } ed viv del.
 the real. P. H. Gosse.

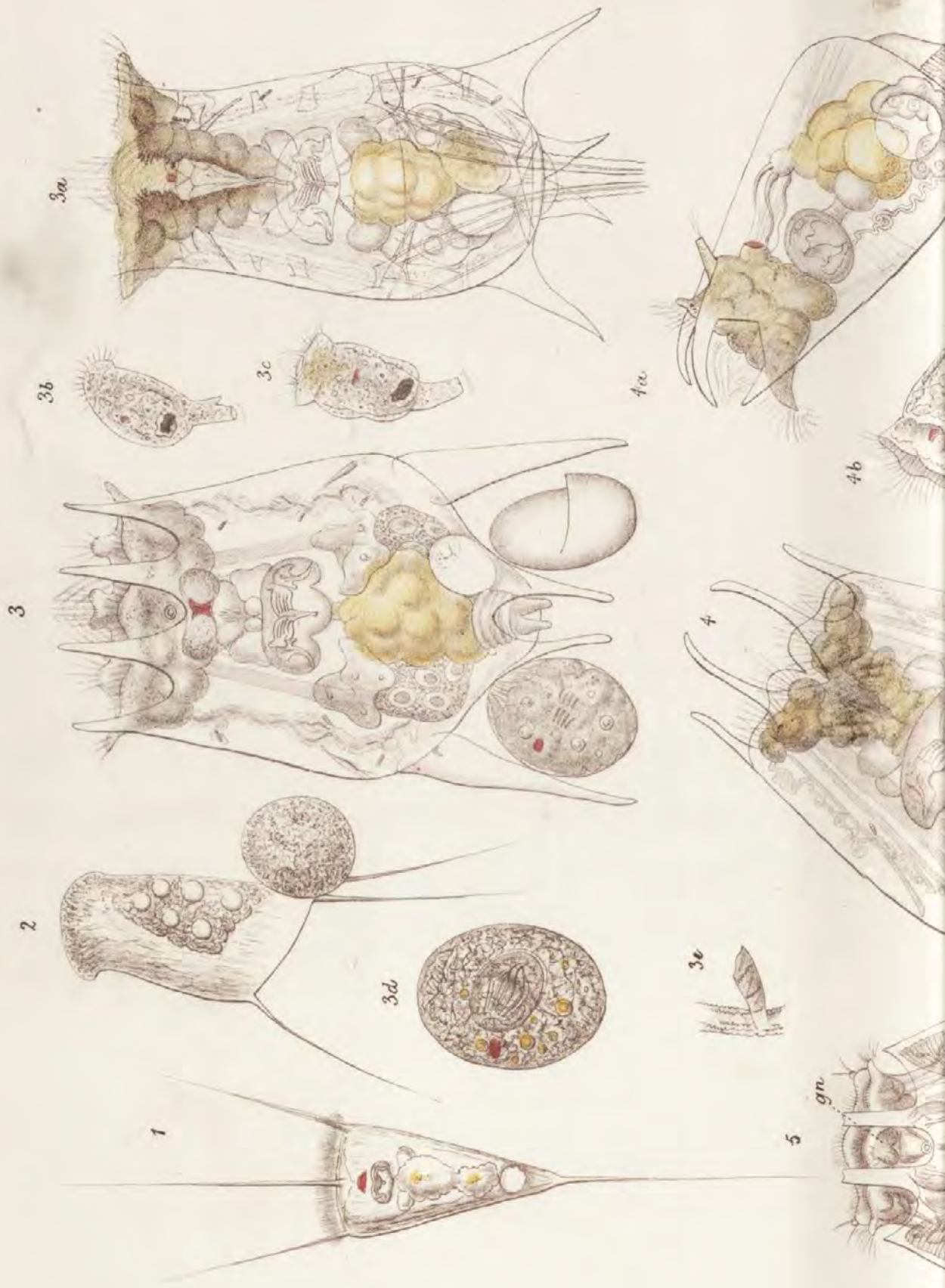
Hanbuel. npp

POMPHOLYX; BRACHIONUS.

1 P. COMPLANATA 2 P. SULCATA 3 B. PALA 4 B. ANGULARIS. 5 B. RUBENS. 6 B. URCEOLARIS
 7 B. MÜLLERI. 8 B. BAKERI

PLATE XXVIII.

1.	<i>Eretmia tetrathrix</i>	. dorsal view	. . . . .	. G
2.	<i>Eretmia trithrix</i>	. side view	. . . . .	. G
3.	<i>Brachionus pala</i>	. variety; dorsal view	. . . . .	. H
3a.	" "	. variety; ventral view	. . . . .	. G
3b.	" "	. male, side view	. . . . .	. G
3c.	" "	. male, dorsal view	. . . . .	. G
3d.	" "	. female egg	. . . . .	. G
4.	<i>Brachionus Dorcas</i>	. dorsal view	. . . . .	. G
4a.	" "	. side view	. . . . .	. G
4b.	" "	. male, dorsal view	. . . . .	. G
4c.	" "	. male, side view	. . . . .	. G
4d.	" "	. vibratile tag	. . . . .	. G
5.	<i>Noteus quadricornis</i>	. dorsal view; to show viscera	. . . . .	. H
5a.	" "	. lorica, dorsal view	. . . . .	. H
6.	<i>Notholca longispina</i>	. lorica, obliquely dorsal view	. . . . .	. H
6a.	" "	. lorica, side view	. . . . .	. H
6b.	" "	. trunk, dorsal view	. . . . .	. H
6c.	" "	. trunk, ventral view	. . . . .	. H
6d.	" "	. top of lorica, ventral view; to show movable flap	. . . . .	. H





3, 5, 5a, 6 to 6d, C.T. Hudson } ad viv del
 4a, 4c, 6b, 6c, 6d, P.H. Coase. } sic rec.

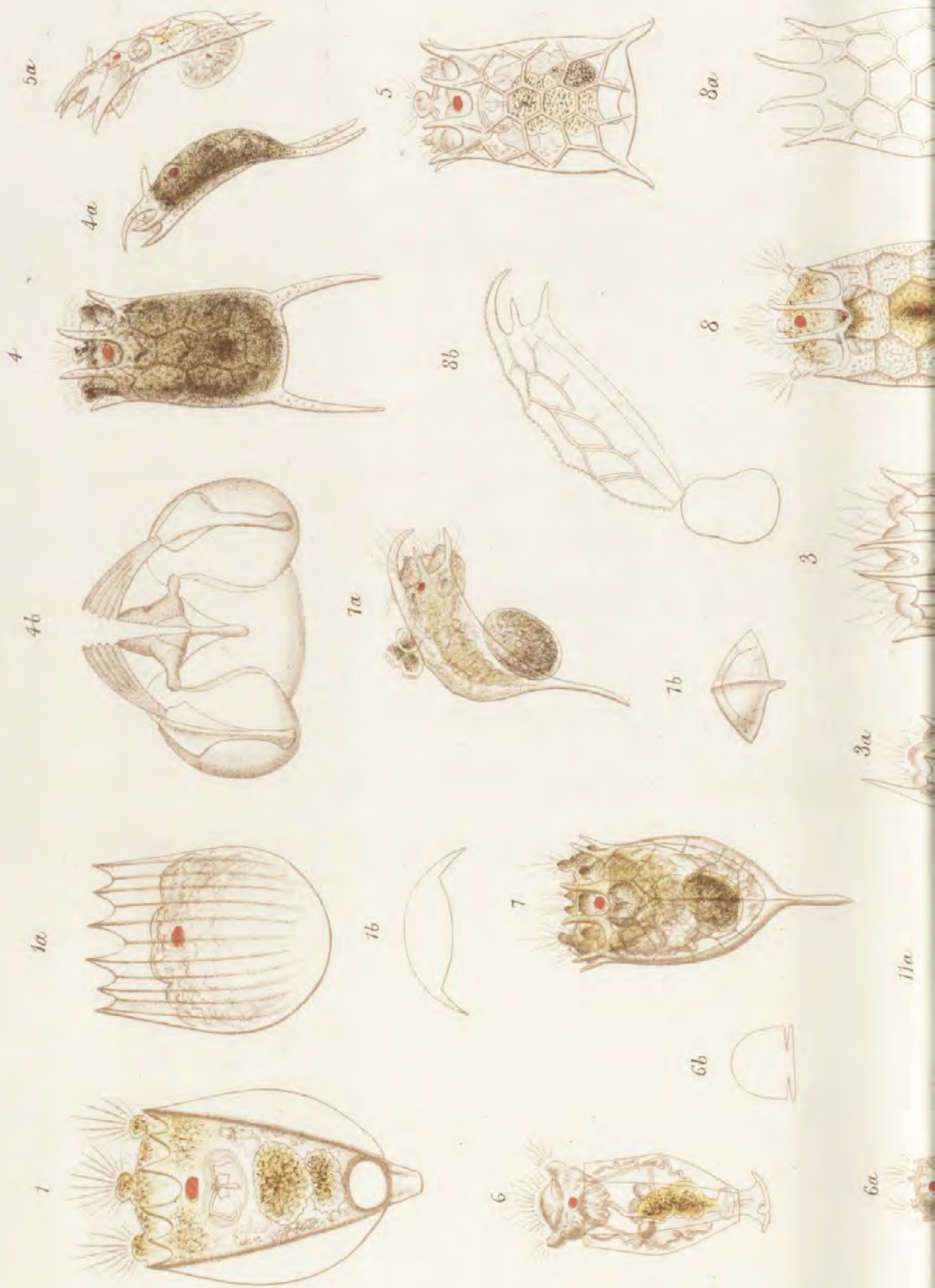
BRACHIONUS; NOTUS; ERETμία; NOTHOLICA.

1. ETETRAHRIX 2. E. TRITHRIX 3. B. PALA(?) 4. B. DORCAS 5. NOT. QUADRICORNIS. 6. NOTH LONGISPINANA

Hanbhart imp

PLATE XXIX.

1.	<i>Notholca scapha</i>	. dorsal view, extended	G
1a.	" "	. dorsal view, retracted	G
1b.	" "	. transverse section	G
2.	<i>Notholca thalassia</i>	. dorsal view	G
2a.	" "	. lorica, dorsal view	G
2b.	" "	. lorica, side view	G
2c.	" "	. lorica, pectoral edge	G
2d.	" "	. trophi	G
3.	<i>Notholca acuminata</i>	. dorsal view	G
3a.	" "	. side view	G
4.	<i>Anuræa aculeata</i>	. dorsal view	G
4a.	" "	. side view	G
4b.	" "	. mastax and trophi	G
5.	<i>Anuræa brevispina</i>	. dorsal view	G
5a.	" "	. side view	G
6.	<i>Anuræa hypelasma</i>	. dorsal view	G
6a.	" "	. ventral view, with eggs attached	G
6b.	" "	. transverse section	G
7.	<i>Anuræa cochlearis</i>	. dorsal view	G
7a.	" "	. side view	G
7b.	" "	. rear view	G
8.	<i>Anuræa serrulata</i>	. dorsal view	G
8a.	" "	. lorica, dorsal view	G
8b.	" "	. lorica, side view	G
9.	<i>Anuræa curvicornis</i>	. lorica, dorsal view	G
9a.	" "	. lorica, side view	G
10.	<i>Anuræa tecta</i>	. dorsal view	G
10a.	" "	. lorica, side view	G
10b.	" "	. rear view	G
11.	<i>Eretmia cubeutes</i>	. lorica, dorsal view	G
11a.	" "	. lorica, side view	G
12.	<i>Eretmia pentathrix</i>	. lorica, dorsal view	G





Haidt del. 1872

NOTHOLCA; *ANURAEA*; *ERETMIA*.

1. N. SCAPHA. 2. N. THALASSIA 3. N. ACUMINATA 4. A. ACULEATA 5. A. BREVISPIA 6. A. HYPELASMMA
 7. A. COCHLEARIS. 8. A. FERRULATA 9. A. CURVICORNIS 10. A. TECTA. 11. E. CUBEUTES 12. E. PENTATHRIX.

PH. GÖTTSCHE LOWE del.

PLATE XXX.

1.	<i>Pedalion mirum</i>	. . .	side view	H
1a.	" "	. . .	dorsal view	H
1b.	" "	. . .	front view	H
1c.	" "	. . .	side view (side limbs removed) showing viscera	H
1d.	" "	. . .	dorsal view, showing muscles	H
			a, dorsal limb { 1, depressors 2, elevators	
			β, inner lateral limb { 3, depressors 4, elevators	
			γ, outer lateral limb { 5, depressors 6, elevators	
			δ, ventral limb { 7, depressors 8, elevators	
			The ventral depressors (5, 5), of the outer lateral limbs, meet a similar dorsal pair on the mid-dorsal and mid-ventral surfaces; and the four together encircle the body. There is a similar encircling set of four (1, 1) belonging to the dorsal limb.	
1e.	" "	. . .	ventral view, showing muscles	H
			9, ventral longitudinal muscles for retracting head	
1f.	" "	. . .	side view, showing muscles	H
			10, dorsal longitudinal muscles for retracting head	
			11, right depressor of dorsal antenna	
			12, circular muscles of the neck	
			13, right depressor of chin	
1g.	" "	. . .	male, dorsal view	H
1h.	" "	. . .	male, side view	H
2.	<i>Hexarthra polyptera</i>	. . .	dorsal view (after Dr. Schmarda)	
3.	<i>Æcistes ptygura</i>	. . .	head, dorsal view, showing hooks	H
4.	<i>Seison Grubei</i>	. . .	female, retracted; side view	} (after Dr. Claus)
4a.	" "	. . .	male, extended; side view	
4b.	" "	. . .	trophi	
5.	<i>Drilophaga bucephalus</i>	. . .	side view; attached to <i>Lumbriculus</i> { (after Prof. Vejdovský)	
6.	<i>Balatro calvus</i>	. . .	ventral view (after M. Ed. Claparède)	
7.	<i>Copeus spicatus</i>	. . .	side view	H
8.	<i>Brachionus Mülleri</i>	. . .	ventral view	H
9.	<i>Brachionus angularis</i>	. . .	dorsal view	H
9a.	" "	. . .	aperture for lateral antenna	H





Tab. 3, 7. G. I. Hudson. ad rev. del.

Hambat imp

PELALION; HEXARTERA; CECISTES; SEISON; DRILLOPHAGA; BALATRO; COPEUS; BRACHIONUS.

1. P. MIRUM 2. H. POLYPTERA 3. C. PTYCURA 4. S. GRUBELI 5. D. BUCIFHALUS 6. BAL. CALVUS.

7. C. SPICATUS 8. BR. MÜLLERI 9. BR. ANGULARIS.

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