

S. *HIRSUTUS*, n. sp. (Plate XIII. figs. 192-194.)

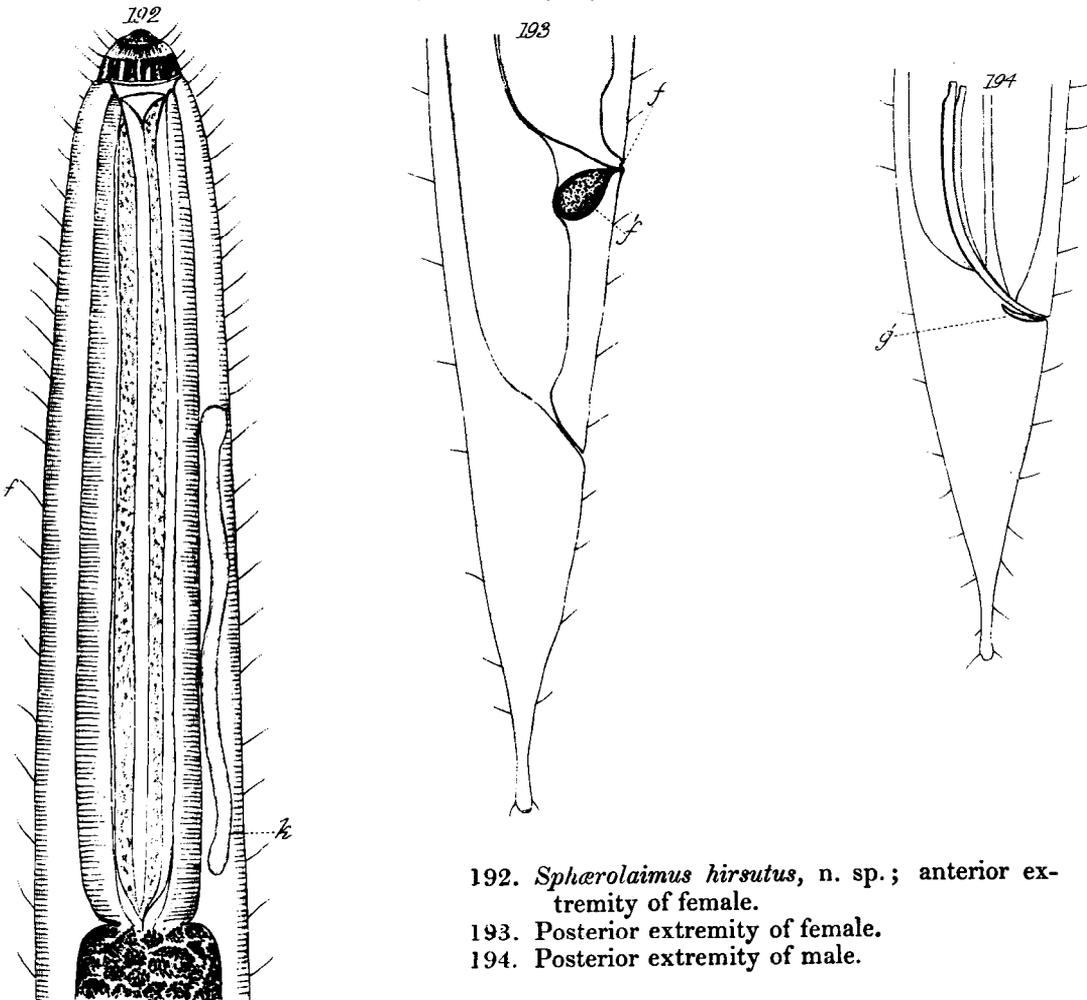
Female, length $\frac{1}{10}$ " , breadth $\frac{1}{133}$ " .

External Characters.—Body thick in proportion to length, tapering slightly anteriorly, but more considerably towards posterior extremity, which is slightly swollen and rounded at termination; covered with rather long setæ, which are largest and most numerous about anterior extremity. Head rounded, somewhat conical. *Integument* having transverse striæ $\frac{1}{15000}$ " apart, and an appearance of longitudinal also, $\frac{1}{10000}$ " apart.

Pharyngeal cavity somewhat globular, about $\frac{1}{400}$ " in depth, surrounded about middle by a dark band, apparently due to markings of its walls, whilst anteriorly more delicate lines are seen converging towards the mouth. *Œsophagus* about $\frac{1}{3}$ rd of total length. *Intestine* densely covered with fat-particles of a dark colour, obscurely tessellate. *Anus* $\frac{1}{87}$ " from posterior extremity. *Vulva* considerably posterior to middle of body, $\frac{1}{100}$ " in front of anal cleft. *Vaginal gland* single, brownish, pyriform, projecting backwards, $\frac{1}{333}$ " long, by $\frac{1}{500}$ " wide. *Excretory ventral gland* tubular, not dilated at extremity, extending from posterior part to a little in front of middle of œsophagus, where its duct opens.

Male, length $\frac{1}{10}$ " , breadth $\frac{1}{154}$ " *Œsophagus* shorter than in female. *Anus* $\frac{1}{91}$ " from posterior extremity. *Spicules* long, rather narrow, and moderately curved, $\frac{1}{115}$ " in length; *accessory piece* single, shield-shaped, with two grooves, along which the spicules glide, $\frac{1}{1000}$ " long, by $\frac{1}{1250}$ " broad.

Hab. Marine surface-mud from estuary, Falmouth.



192. *Spherolaimus hirsutus*, n. sp.; anterior extremity of female.

193. Posterior extremity of female.

194. Posterior extremity of male.

EXPLANATION OF PLATES.

The same letters refer to similar parts in all the figures.

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| <i>a.</i> Mouth. | <i>i.</i> Supplementary male organ. |
| <i>b.</i> Pharynx. | <i>k.</i> Abdominal gland. |
| <i>b'</i> . Pharyngeal teeth. | <i>k'</i> . Excretory orifice of same. |
| <i>b''</i> . Pharyngeal processes. | <i>l.</i> Floating gland-cells. |
| <i>c.</i> Œsophagus. | <i>m.</i> Œsophageal ring. |
| <i>c'</i> . Median swelling of same. | <i>n.</i> Ocellus. |
| <i>c''</i> . Terminal swelling of same. | <i>o.</i> Lateral canals. |
| <i>c'''</i> . Valvular apparatus of latter. | <i>p.</i> Integument. |
| <i>d.</i> Intestine. | <i>p'</i> . Cervical markings of same. |
| <i>d'</i> . Hepatic cells. | <i>q.</i> Cephalic papillæ. |
| <i>e.</i> Anus. | <i>r.</i> Caudal sucker. |
| <i>e'</i> . Anal glands. | <i>r'</i> . Sucker-tubes. |
| <i>f.</i> Vulva. | <i>s.</i> Genital papillæ or suckers. |
| <i>f'</i> . Vaginal glands. | <i>t.</i> Caudal ala of male. |
| <i>g.</i> Male spicules. | <i>t'</i> . Rays supporting same. |
| <i>g'</i> Accessory pieces. | <i>u.</i> Ovum. |
| <i>h.</i> Seminal tube. | <i>v.</i> Sperm-cell. |

Most of the figures are representations of the object drawn to a scale of 150:1, *i. e.* are representations magnified 150 diameters—the exceptions being figs. 126–128 and figs. 151–177, all of which are only magnified 100 diameters.

Unless stated to the contrary, the drawings represent the anterior and posterior extremities from a lateral aspect—the animal lying on its side.

Where transverse integumental striæ exist, they are only *represented* on the anterior extremity.