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LII.—Descriptions of a new Genus of Gobioid Fish

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3. *Eu. triodon*? Ehr. Frustules with three ridges on the dorsum. Ehr. Infus. p. 192. t. 21. f. 24; Pritch. Infus. p. 214. f. 164?; Bailey, l. c. pl. 2. f. 30.

In Cold Bath Spring near Tunbridge Wells, *Mr. Jenner*.

Frustules very minute, with two indistinct puncta at each end. The lateral view is slightly concave on one side, and on the other convex with three dentations; striæ wanting or indistinct.

The form of this species greatly resembles a single frustule of *Fragilaria pectinalis* β^* , but is smaller; the protuberances also are larger in proportion to the size of the plant.

The figure in the 'American Bacillaria' is much larger and has distinct lateral striæ, and was probably taken from an older specimen.

PLATE XIV. fig. 3. *Eunotia triodon*: *a*, front view; *b*, lateral view.

4. *Eu. tetraodon*, Ehr. Frustules with four ridges on the dorsum; lateral striæ distinct. Ehr. Infus. p. 192. t. 21. f. 25; Pritch. Infus. p. 214; Bailey, l. c. pl. 2. f. 31.

In boggy pools, rare. Dolgelley and Penzance, *J. R.*; Weston Bogs near Southampton, *Mr. Jenner*.

This is a large species: in the front view the puncta are distinct; in the lateral view one margin is very concave, and the other very convex with four large, rounded elevations, and a constriction near each end. The strongly marked striæ slightly converge towards the concave margin.

PLATE XIV. fig. 4. *Eunotia tetraodon*: *a*, front view; *b*, dorsum; *c*, lateral view.

LII.—Description of a new Genus of *Gobioid Fish*. By JOHN RICHARDSON, M.D., F.R.S. &c.

To Richard Taylor, Esq.

MY DEAR SIR,

Haslar Hospital, 17th April, 1844.

I SEND you the generic characters of a gobioid fish discovered by Sir James Clark Ross at Kerguelen's Land, on his recent antarctic voyage. The genus will occupy a place in the system near *Callionymus* and *Trichonotus*, and affords a connecting link between the Gurnards and Gobies.

I remain, dear Sir, yours faithfully,

JOHN RICHARDSON.

CHANNICHTHYS, *Richardson*.

Caput magnum, cranio scabro, subtetragono; facie horizontali, depressiuscula, ante oculos longa, lateraliterque per parietes oris membranaceos aucta.

Faux laxissima, horizontalis, terminalis; rictu superne ab ossibus

* This may be the *Fragilaria trionodis*, Ehr., a species I am unacquainted with except by name.

intermaxillaribus (satis mobilibus, nec tamen propter pedicellorum brevitatem protrahilibus) facto.

Os maxillare gracile paulo in f curvatum, angulum tantum oris attingens, nec sub aciem ossis præorbitalis recidens.

Dentes in ambitu oris stipati, breves curvati. Vomer et palatum edentati. Ossa pharyngis denticulata.

Oculi largiusculi, laterales.

Apertura cuiusque paris *narium* invicem remotæ: anteriores minores in apice extremo rostri positæ.

Os præorbitale oblique flabelliforme, rostro brevius: ossa suborbitalia sequentia minima, *Gena* magna, nuda, inarmata.

Ossa operculi parva una cum membrana connectenti circumeuntique operculum modicum, triangulare conficientia. Os operculare proprium tripartitum, parte postica in apicibus quinque subspinosis divisa.

Apertura branchialis amplissima intra ramos maxillæ inferioris procedens. Membrana branchiostega lata, radiis sex gracilibus sustentata. Arcus branchiarum quatuor liberi et lamina una operculo adnata.

Corpus teres modo *Triglorum* in caudam gracilem sensim attenuatum, ventre tumido.

Cutis lævis, squamæ veræ nullæ. *Linea lateralis* versus finem ejus diffracta, ad basin pinnæ caudæ desinens, per totum cursum suum scutellis scabris armata. Scutelli pauci in linea media lateris sparsi.

Pinnæ ventrales ante pectorales positæ. Pinnæ verticales pinna *Trigli* simulantes. Pinnæ dorsales duæ: prior quarum alta, triangularis: radii pinnæ secundæ setacei, simpliciusculi. Radii pinnæ ani omnes articulati cum apicibus modo *Trachinorum* de membrana extantibus. Pinnæ pectorales majusculæ, rotundatæ, non pedicellatæ, radiis omnibus divisæ.

Papilla genitilis simplex, parva. Vesica aeris nulla. Ventriculus ovalis cum ramo brevi ascendenti. Intestinum convolutionem unam faciens dein rectum ad anum tendens. Cæca pylorica dua brevissima.

Channichthys rhinoceros, Rich. Species unica adhuc cognita. Statura sesquipedalis.

Rad.:—B. 6; D. 8|—35; A. 31; C. 11½; P. 21; V. 1½.

LIII.—Description of a Genus of Chinese Fish. By JOHN RICHARDSON, M.D., F.R.S. &c.

Familia THERAPONINÆ.

Genus HAPALOGENYS, Richardson.

Ch. Gen.—*Corpus* altum, compressum, dorso acuto, squamis asperis undique tectum. *Linea lateralis* arcuata, continua.

Caput undique squamosum, regionibus arctis narium, labiis, oris posterioribus maxillarum, ac plicis inflexis membranæ branchiostegæ