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On some new fossil fish from the Lias of Lyme Regis

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	<i>Myomorphus.</i>	<i>Megalonyx.</i>
Length of dentary ramus from the last molar to the anterior margin	115 mill.	150 mill.
Space occupied by the three serial teeth	63 "	60 "
Length of the bar	30 "	40 "
Depth of the dentary ramus below the serial molars	70 "	100 "
Interior separation of the two rami towards the last molar	18 "	18 "

—*Comptes Rendus*, tome lxvii. September 23, 1868, pp. 665–668.

On Capillary Vascular Systems in the Gasteropoda.

By Professor C. WEDL.

The theory proposed by Milne-Edwards, that in the Mollusca the arterial and venous systems are not united by a capillary system, but that a system of lacunæ destitute of proper walls intervenes between them, is not confirmed in the Gasteropoda investigated by the author. In *Helix*, *Limax*, *Turbo*, *Lymnceus*, and *Murex* he has ascertained the existence of closed capillary systems, with proper walls and characteristic of the different organs; these may be displayed by injection either from the arterial or the venous side. The existence of a lacunar system must be denied even in the respiratory organs. Nor could he convince himself that the vascular system is open either towards the cavity of the body or the outer surface. Hence the theory of the imperfect circulation of the blood in the Gasteropoda is at least not of universal application.—*Anzeige der Akad. der Wiss. in Wien*, July 23, 1868, p. 179.

On some new Fossil Fish from the Lias of Lyme Regis.

By Sir PHILIP DE M. GREY EGERTON, Bart., M.P., F.R.S., F.G.S.

1. *Osteorachis macrocephalus*, gen. et spec. nov.—A Sauroid fish, chiefly remarkable for the massive dimensions and complete ossification of the bodies of the vertebræ, and characterized by the large size of the head and the multiplicity of the teeth.

2. *Isocolum granulatum*, gen. et spec. nov.—For elegance of form this fish can vie with the salmon of modern times, its contour being very similar. It bears the greatest resemblance to the Sauroid genus *Caturus*, but in the absence of the teeth it cannot be assigned with certainty to any particular family.

3. *Holophagus gulo*, spec. nov.—A cœlacanth fish, remarkable for its resemblance, especially in the contour of the head, to the Cretaceous genus *Macropoma*, and for substantiating Prof. Huxley's demonstration of the persistence of type presented by this family, which ranged from the Coal-measures to the Chalk.

4. *Eulepidotus sauroides*, gen. et spec. nov.—This first represents a genus uniting the Lepidoid and Sauroid families of Agassiz's Ganoid order; the teeth and the tail being Sauroid in character, while the fins are Lepidoid, and the scales partake of the characters of those structures in both families.—*Proc. Geol. Soc.* June 17, 1868.