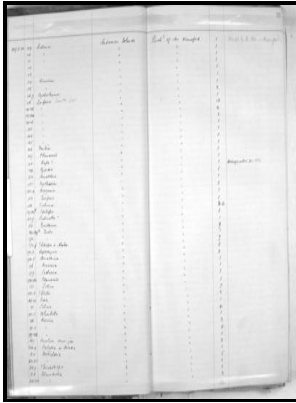


On the origin of the so-called test-cells in the Ascidian ovum.

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Description: -

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Tunicata On the origin of the so-called test-cells in the Ascidian ovum.

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Notes: Bibliography: p. 155-156.

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The chief genera are: *Thylacium* Carus , with ascidiozooids projecting above general surface of colony; *Goodsiria* Cunningham , with ascidiozooids completely imbedded in investing mass; and *Chorizocornus* Herdman , with ascidiozooids united in little groups which are connected by stolons. Fol 14 added largely to the knowledge of the Appendiculariidae, and Giard 15 to that of the compound Ascidians. Each vesicle is the modified remains of a part of the primitive coelom or body cavity, and is formed of cells which eliminate nitrogenous waste matters from the blood circulating in the neighbouring blood lacunae and deposit them in the cavity of the vesicle, where they form a concentrically laminated concretion of a yellowish or brown colour.

Animal egg as evolutionary innovation: a solution to the puzzle

A curved outgrowth from the posterior end of the mesenteron forms the alimentary canal oesophagus, stomach and intestine , which at first ends blindly.

Leonardo da Vinci : the anatomist (1452

Muscle cells in the anterior and middle part of the ascidian larva tail differentiate in a highly autonomous manner.

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The walls of the stomach are glandular; and a system of delicate tubules with dilated ends, which ramifies over the outer wall of the intestine and communicates with the cavity of the stomach by means of a duct, is probably a digestive gland. The ampullae execute co-ordinated pulsations, the co-ordination being due to variations in the blood-pressure. The remarkable process of gemmation seen in the families Didemnidae and Diplosomidae may probably be regarded as a modification of the stolonial type.

Details

In some Ascidians the vessels in the test become very numerous and their end branches terminate in swollen bulbs close under the outer surface of the test. Although at first produced as a cuticle, the test soon becomes organized by the migration into it of cells derived from the mesoderm.

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ULTRASTRUCTURE OF THE CENTROSOME ATTRACTING BODY CAB THAT IS INVOLVED IN UNEQUAL CLEAVAGE IN ASCIDIAN EMBRYO T. Gemmation and Growth of Colonies. The mantle has eight or nine circular muscle bands surrounding the body.

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