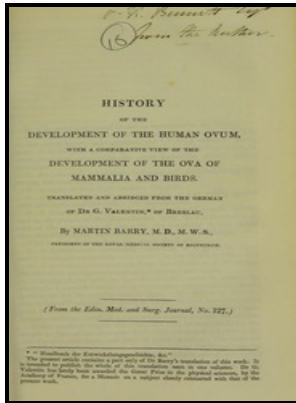


On the origin of the so-called test-cells in the Ascidian ovum.

- - Details



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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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Details

Lissoclimides, cytotoxic diterpenes from *Lissoclinum voeltzkowi* Michaelsen.

Leonardo da Vinci : the anatomist (1452)

Alboinon, an oxadiazinone alkaloid from the ascidian *Dendrodoa grossularia*. There is a trend in the family towards increasing egg size, fewer eggs per zooid, longer development time and larger larvae upon hatching. Outside this ring is a row of cells, the neuro-muscular ring.

AN41

The opposite end of the body has a terminal opening surrounded by eight rounded lobes. We approached the molecular nature of the muscle determinants going upstream of the cascade by analyzing transcriptional control mechanisms of muscle-specific structural genes. The chief genera are: *Boltenia* Savigny, branchial aperture four-lobed, stigmata normal; and *Culeolus* Herdman, branchial aperture with less than four lobes, stigmata absent or modified fig.

1911 Encyclopædia Britannica/Tunicata

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. The blastopore closes in the posterior part of the dorsal surface. Here, I consider the possibility that different body plans had their origin in self-organizing physical processes in ancient clusters of cells, and suggest that eggs represented a set of independent evolutionary innovations subsequently inserted into the developmental trajectories of such aggregates.

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