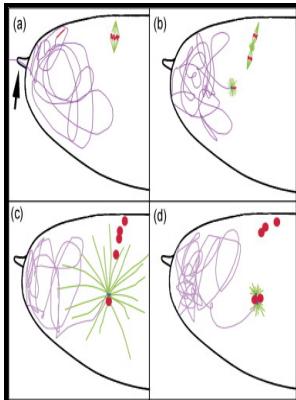


On the origin of the so-called test-cells in the Ascidian ovum.

-- 1911 Encyclopædia Britannica/Tunicata



Description: -

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

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Notes: Bibliography: p. 155-156.

This edition was published in 1880



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Tags: #Animal #egg #as #evolutionary #innovation: #a #solution #to #the #puzzle

Details

Predicted amino acid sequences of these genes suggested that both genes encode novel secreted proteins. Branches of the same nerve appear to connect the basal end of the peripheral secretory cells. He considers that the chorda must be regarded as a mesodermal organ.

Tunicata

The testis is composed of a great number of delicate branched tubules, which ramify over the ovary and the adjacent parts of the intestinal wall. The buds while still very young migrate from their place of origin on the stolon, divide by fission, and become attached to the dorsal outgrowth of the body of the nurse, where they develop. Ancestral states of these traits are determined by mapping them onto a molecular phylogeny based on small ribosomal subunit nuclear DNA sequence data.

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These organelles co-operate in the synthesis of yolk, which accumulates in previtellogenetic bodies to form progressively larger and denser granules, mainly distributed in the central area of the oocyte.

AN41

We have reported that blood cells of juveniles are derived from trunk lateral cells of the larvae. The neural complex in ascidians is known to be derived from embryonic neural tube. European seas, in shal^l low water.

Animal egg as evolutionary innovation: a solution to the puzzle

The test is at first devoid of cells and forms a delicate gelatinous investment, but it shortly afterwards becomes cellular by the migration into it of test cells formed by proliferation from the epiblast. The branchial sac is simply an enlarged pharynx with two ventral ciliated openings stigmata leading to the exterior.

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