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Developmental Biology Of The Sea

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Evolutionary crossroads in developmental biology: sea ...

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Developmental Biology of the Sea Urchin XXV
The sea urchin embryo has long been used as a model organism to address many questions in developmental biology. There are a number of important features that make the sea urchin an ideal system. The straightforward artificial spawning, fertilization and rearing, and embryo optical transparency make this organism a great resource.

The Sea Urchin as a Model Organism | Developmental Biology ...
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Developmental Biology of the Sea Urchin XX
The most common and ancestral mode of reproduction is indirect (planktotrophic) development, during which the fertilized egg is transformed into a swimming, feeding larva known as a pluteus larva, or echinopluteus. This embryonic phase of development is quite short (1–4 days, depending on the species and tempera- ture).

Sea Urchins as a Model System for Studying Embryonic ...
He separated sea urchin blastomeres from each other by vigorous shaking. Each of the blastomeres from a 2 cell embryo developed into a complete larva. What is a morphogen? What are morphogen gradients and how are these important in developmental biology? A morphogen is a "form giver" - is a diffusable biochemical molecule that can determine the ...

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Developmental biology - ScienceDaily
1. The osmotic theory suggests that ions and proteins are secreted into the blastocoel by the blastomeres and this results in a pressure buildup due to the osmotic flow of water. This pressure would then be responsible for aligning the axis mitosis of the blastomeres and the enlargement of the blastocoel. 2.

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The study of echinoderms and, in particular, of sea urchins, that was carried out at these marine stations was influential in the formation of many seminal ideas in developmental biology (for reviews, see the classic texts of Wilson, 1925; Morgan, 1927).