

Experimental Embryology

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Experimental embryology identifies the stages of the determination of the material of rudimentary organs and tissues, the sources of formative or inductive influences, the role of synthesis of macromolecules in the processes of determination and differentiation, and the factors responsible for morphogenesis.

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In this chapter, we will discuss three of the major research programs in experimental embryology. The first concerns how forces outside the embryo influence its development. The second concerns how forces within the embryo cause the differentiation of its cells. The third looks at how the cells order themselves into tissues and organs.

[Principles of experimental embryology - Developmental ...](#)

In Wilhelm Roux ...made him a founder of experimental embryology.

[Experimental embryology | Britannica](#)

The third, or experimental embryology, is concerned with an imitation and a modification of the course of nature, with a view to understanding the physics and chemistry of the various processes underlying the development and differentiation of the embryo, so as to bring them under human control to the furthest extent possible.

[Experimental Embryology: Bringing Embryology Under Human ...](#)

EXPERIMENTAL EMBRYOLOGY. The study of general or comparative embryology reveals the fact that during their normal development, animals pass through a number of visibly different stages; each stage being characterized by the possession of various structures in a condition more or less well formed, as compared with earlier and later stages.

[Experimental Embryology - differentiation, cells ...](#)

The endeavour to discover by experiment the causes of this process — as distinct from the mere description of the process - is a comparatively new branch of biological science, for Experimental Embryology, or, as some prefer to call it, the Mechanics of Development (Entwicklungsmechanik), or the Physiology of Development, really dates from Roux's production of a half-embryo from a half-blaatomere, and the consequent formulation of the 'Mosaik-Theorie' of self-differentiation.

[Book - Experimental Embryology \(1909\) - Embryology](#)

Buy *The Heritage of Experimental Embryology: Hans Spemann and the Organizer* (Monographs on the History and Philosophy of Biology) by Viktor Hamburger (ISBN: 9780195051100) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders.

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Experimental Embryology approaches to study regulative development and self-organisation in vitro. (a) Using embryonic stem cells (ESCs) from mouse embryos, aggregated in round-bottomed wells under defined conditions, the processes of multilineage cell fate differentiation, spatiotemporal organisation and axial morphology can be assessed. Because of

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their observed differentiation to three germ layers and axial organisation, these structures were termed 'gastruloids'.

~~Experimental embryology of gastrulation: pluripotent stem ...~~

Embryology is the branch of biology that studies the prenatal development of gametes, fertilization, and development of embryos and fetuses. Additionally, embryology encompasses the study of congenital disorders that occur before birth, known as teratology. Early embryology was proposed by Marcello Malpighi, and known as preformationism, the theory that organisms develop from pre-existing miniature versions of themselves. Then Aristotle proposed the theory that is now accepted, epigenesis. Epige

~~Embryology—Wikipedia~~

Dizhou Tong, also called Ti Chou Tung, studied marine animals and helped introduce and organize experimental embryology in China during the twentieth century. He introduced cellular nuclear transfer technology to the Chinese biological community, developed methods to clone organisms from many marine species, and investigated the role of cytoplasm in early development.

~~Dizhou Tong (1902–1979) | The Embryo Project Encyclopedia~~

Originally called Journal of Embryology and Experimental Morphology (ISSN 0022-0752) and established in 1953, the journal provided a periodical that would be primarily devoted to morphogenesis. In 1987, the journal was renamed Development. The journal's full archive from 1953 is available online.

~~Development (journal)—Wikipedia~~

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