

Embryonic Development

Name: _____

Date: _____

Embryonic development is a complex series of events that begins with the fertilization of an egg to form a zygote, which eventually gives rise to a full grown organism.

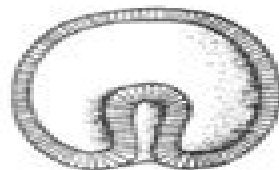
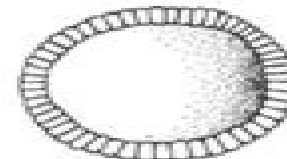
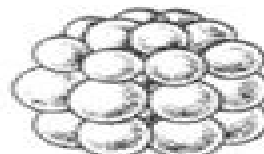
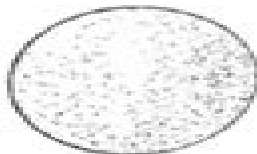
The development of the embryo begins after fertilization. It follows a well-defined pattern of growth and differentiation. Embryonic development is controlled, for the most part, by the genes—the hereditary material contributed by both parents. Development may occur either in the external environment or within the body of a parent.

STAGES OF EMBRYONIC DEVELOPMENT

After fertilization, the zygote divides by mitosis into two cells. Mitotic division, which is called cleavage in embryos, continues, eventually forming a solid ball of cells. This is the morula stage. As cleavage continues, the center of the ball becomes hollow. This is the blastula stage. With still further cleavage, an inward growth of cells at a particular point results in the formation of a pocket, which pushes into the hollow center of the ball. This is the gastrula stage.

Within the double-walled gastrula three distinct layers of embryonic tissue—the germ layers—develop. The inner layer is the endoderm. The outer wall of the gastrula forms the ectoderm. And between the ectoderm and endoderm a middle layer called the mesoderm forms.

1. Label each stage of embryonic development shown in the following diagrams.



2. The three embryonic germ layers are the _____, _____, and _____.
3. Mitotic division in embryonic development is commonly called _____.

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Oskar Hertwig



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Embryogenesis in Mammals Katherine Elliott, Maeve O'Connor, 2009-09-16 The Novartis Foundation Series is a popular collection of the proceedings from Novartis Foundation Symposia in which groups of leading scientists from a range of topics across biology chemistry and medicine assembled to present papers and discuss results The Novartis Foundation originally known as the Ciba Foundation is well known to scientists and clinicians around the world *A Laboratory Guide to the Mammalian Embryo* David K. Gardner, Michelle Lane, Andrew J. Watson, 2004-01-08 This book pulls together the full range of cell culture biochemical microscopic and genetic techniques to study the early mammalian embryo Until now there has never been such a comprehensive compendium though there have been more focused books of protocol such as *Manipulating the Mouse Embryo* from Cold Spring Harbor This book is intended to appeal to all constituencies from basic experimental science to clinical and animal science applications Text-book of the Embryology of Man and Mammals Oscar Hertwig, 1901 Text-book of the embryology of man and mammals Oskar Hertwig, 1905 *Text-book of the Embryology of Man and Mammals* Oscar Hertwig, 1892 **Text-book of the embryology of man and mammals** Oskar Hertwig, 1892

An Atlas for Staging Mammalian and Chick Embryos H. Butler, 2018-02-06 For the convenience of research workers particularly those with limited knowledge of embryology we have put together a series of tables to enable rapid identification of specific stages of embryonic development in the more commonly used mammals Because of its frequent usage the chick embryo is included this atlas **Living Embryos** Jack Cohen, Brendan Massey, 2014-05-20 *Living Embryos* An Introduction to the Study of Animal Development covers the growth of an animal embryo specifically the sequence developmental events of an egg This book addresses the mammalian embryo as a homograph and demonstrates early vertebrate development mechanisms Some of the topics covered in the book are the early embryology development and growth of the frog mammals chick rabbit arthropods polychaetes nematodes molluscs and tunicates Other chapters deal with the formation of the nervous muscular and alimentary systems These topics are followed by the analysis of the development of fishes The discussion then shifts to the method of fertilization The last chapters examine the formation of cleavage cleavage geometry embryonic membranes and organization of the egg The book can provide useful information to embryologists biologists students and researchers **Experimental Approaches to Mammalian Embryonic Development** Janet Rossant, Roger A.

Pedersen, 1988-11-25 Recent advances in the experimental analysis of the mammalian embryo are discussed from various scientific perspectives in this summary of major breakthroughs in embryonic development *The Embryonic Development of the Ovary and Testis of the Mammals* Bennet Mills Allen, 2013-09 This historic book may have numerous typos and missing text Purchasers can usually download a free scanned copy of the original book without typos from the publisher Not indexed Not illustrated 1903 edition Excerpt The material was in practically all cases fixed in Flemming's fluid and stained with Heidenhain's iron hematoxylin with a counter stain of Siirefuchsin Orange G or Bordeaux red Sections were cut to a

thickness of 6 x or in a few cases 10 jx and were mounted in series It was of course necessary in all cases to section the anterior part of the mesonephros together with the sex gland itself An account of the earlier literature upon this subject would be useless repetition since we have such valuable and extensive reviews as those given by Waldeyer 70 and 02 Born 94 Coert 98 Winiwarter 00 Bouin 00 Mihalkovics 85 In the general summary reference will be made to some of the more recent and important works bearing upon these problems but no attempt will be made to attain completeness in a consideration of the earlier literature a very large part of which is of merely historical value ii general topography The orientation of the various organs to be considered may be well understood from a study of the pig embryo of 2.5 cm length Text Fig 1 and Plate I Fig 1 The mesonephra are a pair of elongated laterally compressed bodies attached to the dorsal body wall on each side of the mesentery Their long axes diverge anteriorly and converge posteriorly They are prominent structures extending three fourths of the length of the abdominal cavity being closely united to the dorso median part of its wall by their short broad mesenteries Each mesonephros is flattened on its median face while the lateral face is convex A sharp ridge extending the entire length of the medio ventral face marks the course of the Wolffian and Müllerian ducts the latter being ventral to the former The genital ridge is situated on the

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