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Chapter 3 -  
Embryology and

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development 2  
Embryoblast forms  
epiblast and hypoblast  
which constitute the  
“bilaminar disc”. 1)  
epiblast layers - give  
rise to the amniotic  
cavity superior to it 2)  
hypoblast layer gives  
rise to the primitive  
yolk sac/ extracoelomic  
cavity.

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Embryology is central to evolutionary developmental biology ("evo-devo"), which studies the genetic control of the development process (e.g. morphogens), its link to cell signalling, its roles in certain diseases and mutations, and its links to stem cell research.

**Embryology -  
Wikipedia**

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here by looking at the external appearance of embryos in sequence from 1 to 23. It is not so important to memorise the dates, as they are only approximate, but more important to understand growth (size changes) and the development (overall sequence of events) during this period.. Clicking the Carnegie stage numbers opens a page dedicated to describing that single

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stage and ...

## **Embryonic Development - Embryology**

A baby goes through several stages of development, beginning as a fertilized egg. The egg develops into a blastocyst, an embryo, then a fetus. During each normal menstrual cycle, one egg (ovum) is usually released from one of the

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ovaries, about 14 days after the last menstrual period. Release of the ...

### **Stages of Development of the Fetus - Women's Health Issues ...**

Development of the Kidneys. In the embryo, the kidneys develop from three overlapping sequential systems; the pronephros, the mesonephros, and the



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metanephros. They are all derived from the urogenital ridge.

Pronephros. The pronephros appears in the 4th week of development. Its development begins in the cervical region of the embryo.

Segmented ...

## **Development of the Urinary System - Kidney - Bladder ...**

Embryology is the branch of medicine

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concerned with the study of embryos and their development. In this article, we outline the processes that take place within weeks 1-3 of embryonic development - cellular division, differentiation and gastrulation. We shall also look at the clinical applications of this knowledge. Week 1 and 2

**Embryology -  
Cellular Division -**

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## **Gastrulation -**

### **TeachMeAnatomy**

Problems with Embryo Development. Severe problems with embryonic development can occur as early as the first 3 weeks. With so many internal organ systems and external structures beginning specialization and development in the embryo, the developing organism is particularly sensitive to

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damage from genetic abnormalities and environmental exposures.

## **The Stages of Embryo Development — Altor Health**

During the third week of development conceptus implantation in the uterus wall is complete and trophoblast cells continue to invade uterine wall in the

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process of early placentation (villi formation). Within the conceptus, gastrulation converts the bilaminar embryo into the trilaminar embryo (ectoderm, mesoderm, endoderm).

## **Week 3 - Embryology**

The 3D Atlas of Human Embryology comprises 14 user-friendly and interactive 3D-PDFs of all organ systems in

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real human embryos between stage 7 and 23 (15 till 60 days of development), and additional stacks of digital images of the original histological sections and annotated digital label files.. The atlas was created by students and embryologists of the Department of Anatomy, Embryology ...

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The development of the lower female reproductive tract is shown below - the uterus, cervix, and upper 1/3 of the vagina (derived from paramesonephric ducts) are shown in red and the lower 2/3 of the vagina, bulbourethral glands (purple buds appearing at the end of the movie), and vestibule (derived from urogenital sinus) is

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shown in yellow:

## **Duke Embryology - Urogenital Development**

Human body - Human body - Basic form and development: In general structure, the human body follows a plan that can be described as a cylinder enclosing two tubes and a rod. This body plan is most clearly evident in the embryo; by birth, the plan is



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apparent only in the trunk region—i.e., in the thorax and abdomen. The body wall forms the cylinder.

### **Human body - Basic form and development | Britannica**

The embryo starts receiving oxygen and nutrition through the placenta. The cells making up the ovum are beginning to differentiate and

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specialize in areas of development. Some cells will make up the embryo; others the amniotic sac and placenta etc. The ovum, which has been floating around in your uterus, has now implanted into the wall of the ...

### **Week 5 - Month 2 The embryonic stage begins Fetal ...**

Human embryonic  
development, or

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human embryogenesis, refers to the development and formation of the human embryo. It is characterised by the processes of cell division and cellular differentiation of the embryo that occurs during the early stages of development. In biological terms, the development of the human body entails growth from a one-celled zygote to an

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adult human being.

## **Human embryonic development - Wikipedia**

Embryology and development.

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## **Embryology and development | Clinical Gate**

Embryology and  
Development of the  
Craniovertebral  
Junction. Congenital  
anomalies of the CVJ  
frequently occur with  
various combinations  
of neural  
abnormalities,  
suggesting an

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interrelationship, if not a common cause, of its origin and development.<sup>6</sup> A review of the embryology, outlining the developmental sequence and timing of events in this region, follows here.

## **Embryology, Development, and Classification of Disorders ...**

Embryology is a vital branch of biological

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studies because an understanding of the growth and development of a species before birth can shed light on how it evolved and how various species are related. Embryology is considered to provide evidence for evolution and is a way to link various species on the phylogenetic tree of life.

## **What Is Embryology**

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## **Evolution by Definition?**

The Multi-Dimensional Human Embryo is a collaboration funded by the National Institute of Child Health and Human Development (NICHD) to produce and make available over the internet a three-dimensional image reference of the human embryo based on magnetic resonance imaging. The collection of images is intended



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to serve students,  
researchers, clinicians,  
and the general public  
interested in ...

## **Multi-dimensional Human Embryo, Home Page**

Embryology is a vast  
field, which would  
require its own  
textbook to cover in  
even minimal detail.  
For the purposes of this  
chapter, the reader  
should understand that  
the maturational

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process from fertilized egg to term infant is ordered, proceeding according to a set schedule (Fig. 3.1). The organism is first one cell (the zygote), which then divides, and this process is repeated over and over ...

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