

Vocabulary

- ovulation - Eisprung
- germ cell - Keimzellen \Rightarrow gametes
- ovaries - Eierstöcke
- implantation - Einnistung

Blastocyst \Rightarrow Trophoblast + Embryoblast sind Bestandteile

- Placenta
- Gebärmutter schleimhaut English **endometrium**
- Wochenzeitraume
heal

Mesoderm

1. Chordamesoderm \Rightarrow plays role in the induction and development of the vertebral column
2. paraxial mesoderm
3. intermediate mesoderm
4. Lateral mesoderm

Gameten

Samiken

thyroid - Schilddrüse
hrt da hormone

Pre embryonic week 1 und 2

Embryonic 3-8 week

fetal stage 9 bis end

Pre embryonic : **cleavage** (Mitose : Zygote into smaller identical blastomers)
1. 30 std after fertilization
4. 72 std after 11 = morula nach 4.

Tag 4 - 5 100 cells

morula becomes blastocyst :

Trophoblast (Plazenta)

Embryoblast (Embryo)

implantation

- Trophoblast secret HCG (pregnancy test)

Embryogenesis : 2 week

- bilaminar germ disc \Rightarrow Epiblast and Hypoblast

\hookrightarrow inner cell mass (Embryoblast)

\hookrightarrow Hypoblast und Epiblast

\hookrightarrow Trophoblast (Plazenta) produces two layer

Cytotrophoblast and Syncytiotrophoblast

- Amniotic- and yolk sac produced to protect the Embryo (Amnion = environment, temperature / yolk sac = nutrition storage (Eisenspeicher), blood cells, vessels)

Embryonic :

Gastrulation

beginnt

Tag 14

- bilaminar germ disc rotates 90°
- Notochord developed (ventral) = Prenotochordal cell + Hypoblast cells

Endoderm: Hypoblast + epiblast cell

Mesoderm: Epiblast cells

ectoderm: Epiblast lack of cells (epiblast - epiblast cells)

Ectoderm: - surface ectoderm (epithelium, epidermis, nose, ear hair, glands)
- nervous ectoderm (brain, nervous system)

Mesoderm: - paraxial mesoderm (somites)
- intermediate mesoderm (urogenital structures, dermis)
- somatic mesoderm (Lymphs, splanchnopleuric mesoderm, heart, muscle tissues, serous membrane PPP.)