

Vocabulary

ovulation - Eisprung

germ cell - Keimzellen \Rightarrow gametes

ovaries - Eierstöcke

implantation - Einnistung

Blastocyst \Rightarrow Trophoblast + Embryoblast sind Bestandteile

- Placenta

- Gebärmutter schleimhaut English endometrium

- wachsezeitfrüchte

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

Gamete

Sperm

thyroid - Schilddrüse
myr of a hormone

Pre embryonic week 1 and 2

Embryonic 3-8 week

fetal stage 9 bis end

zygote 24-30 std (2n by egg and sperm)

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 (Placenta)

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 (Placenta) produces two layer

Cytotrophoblast and Syncytiotrophoblast

- Amniotic- and yolk sac produced to protect the embryo (Amniotic = environment, temperature / yolk sac = nutrition storage (reservoir), blood vessels)

Embryonic : Gastrokotisch beginnt Tag 14

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

Endoderm: Hypoblast + epiblast cell

Mesoderm: Epiblast cells

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

ECTODERM:

- surface ectoderm (epithelium, epidermis, hair, nails, glands)
- nervous ectoderm (brain, nervous system)

MESODERM:

- praxial mesoderm (somites)
- intermediate mesoderm (-urogenital structures, dermis)
- somatic mesoderm (lymph, splanchnic mesoderm, heart, muscle tissues, serous membranes)
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