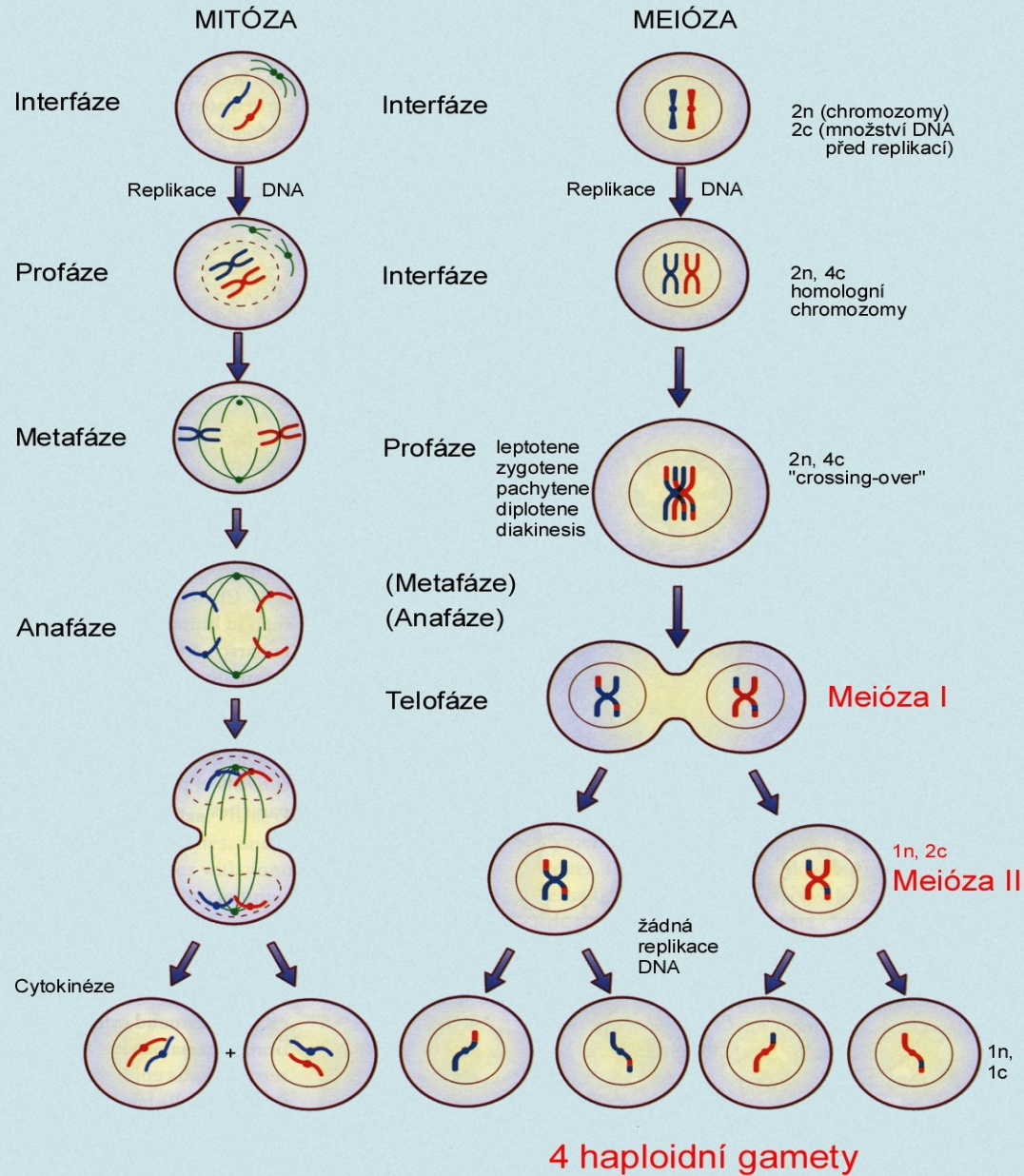




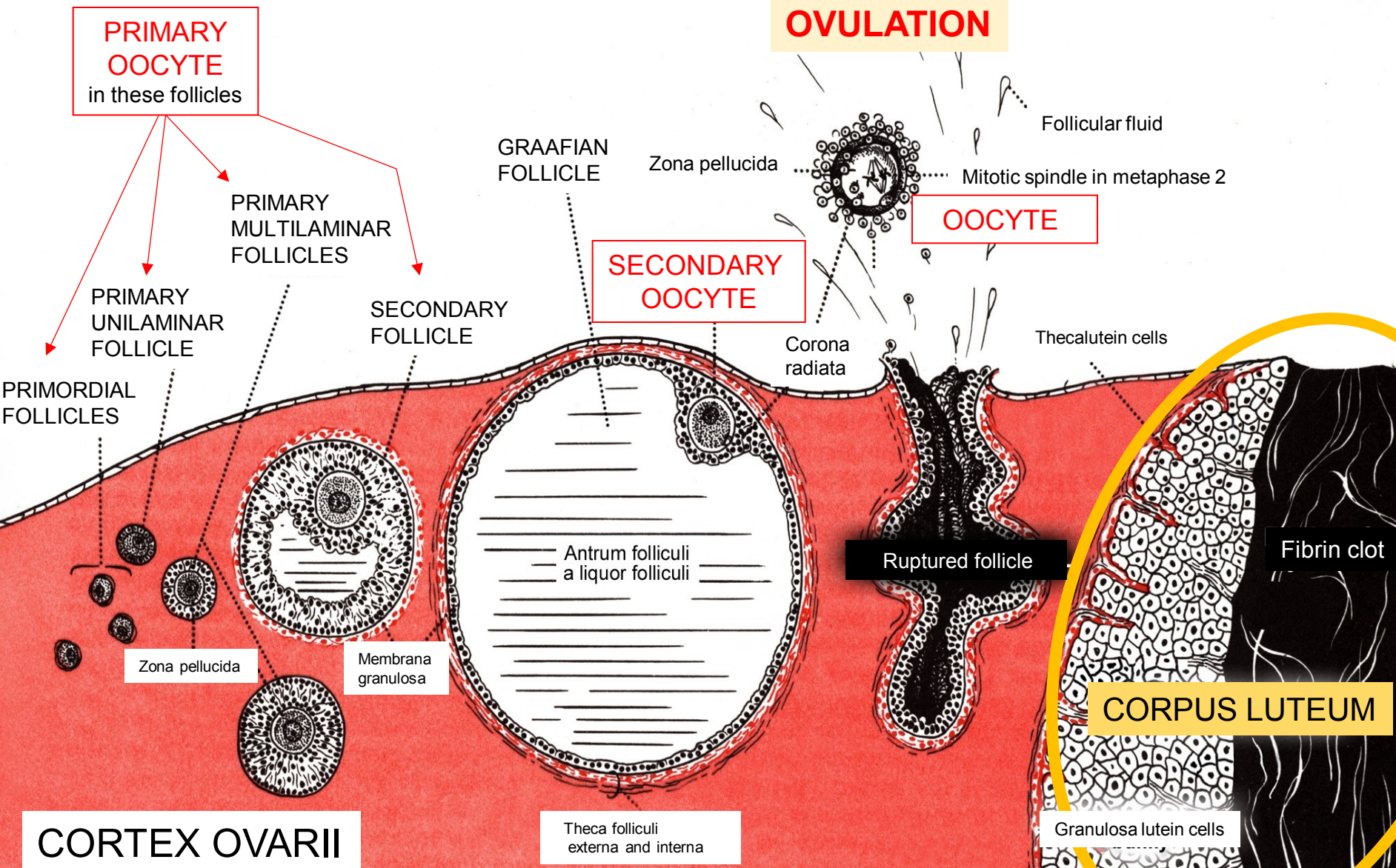
GENERAL EMBRYOLOGY 1

- Meiosis. Development of gametes. Fertilization. Cleavage.
- Implantation. Changes in blastocyst during implantation.
- Differentiation of embryoblast.
- Germ disc. Development of embryonic mesoderm and notochord. Somites. The other axial organs of embryo.
- Flexion of embryo. Development of the umbilical cord.

MITOSIS AND MEIOSIS – the main differences

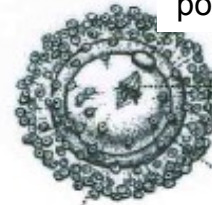


GROWTH AND MATURATION OF OVARIAN FOLLICLES



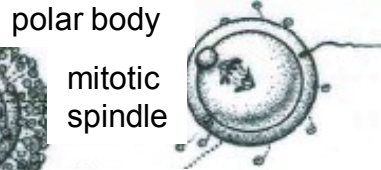
FERTILIZATION AND IMPLANTATION

oocyte II



cumulus oophorus

sperm penetration



zona pellucida

ovum



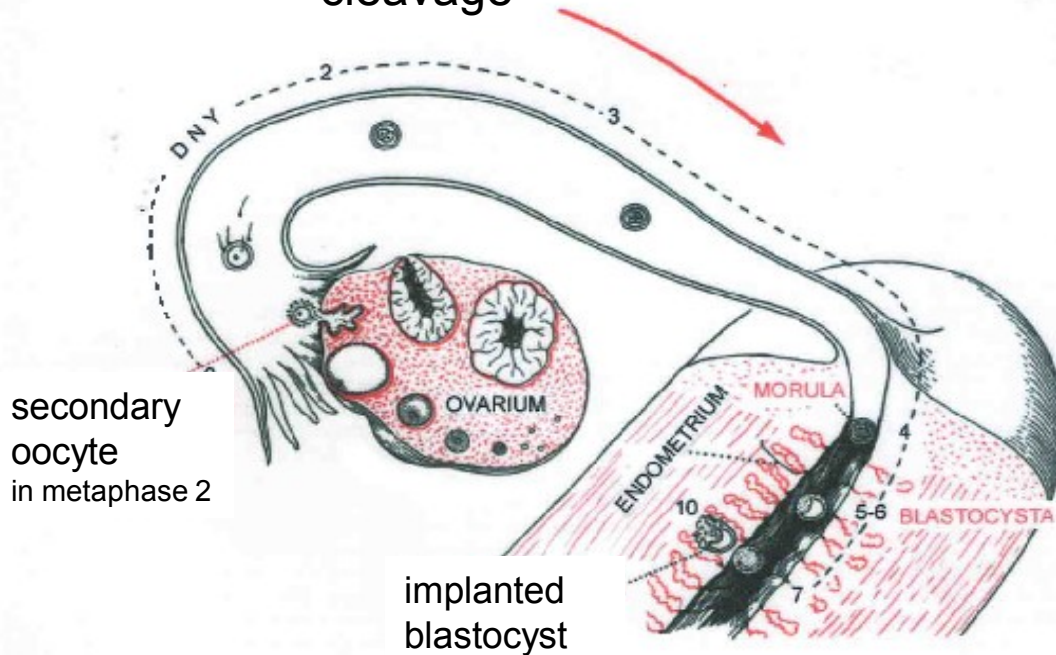
pronuclei

begining of cleavage



diploid set of chromosomes

cleavage



implanted blastocyst

FERTILIZATION

Zygote

– 18 h after fertilization



24 h



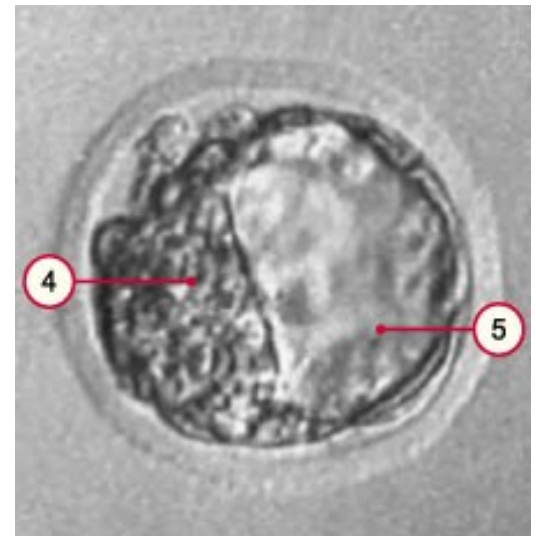
45 h



72 h

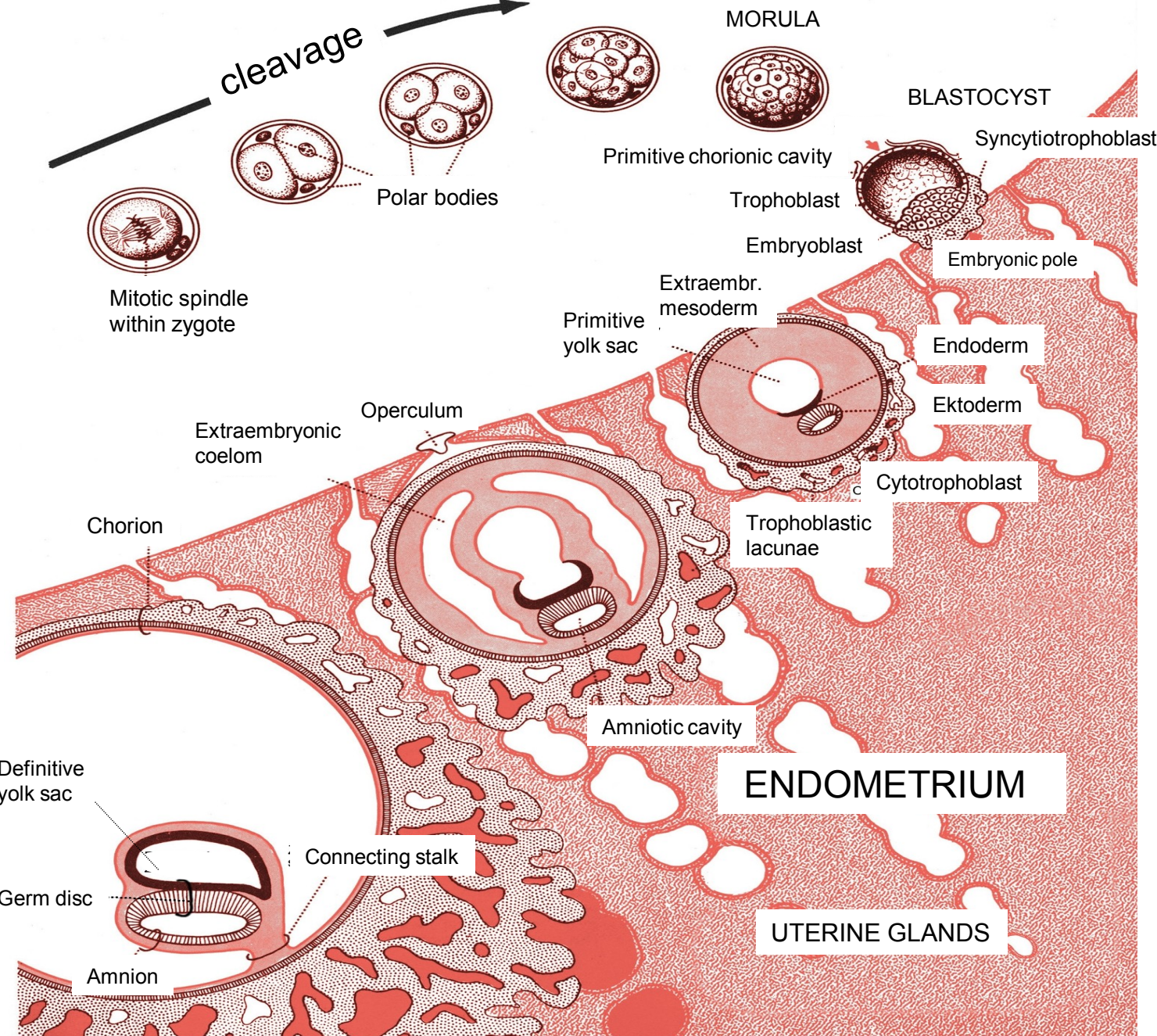


Morula – 96 h

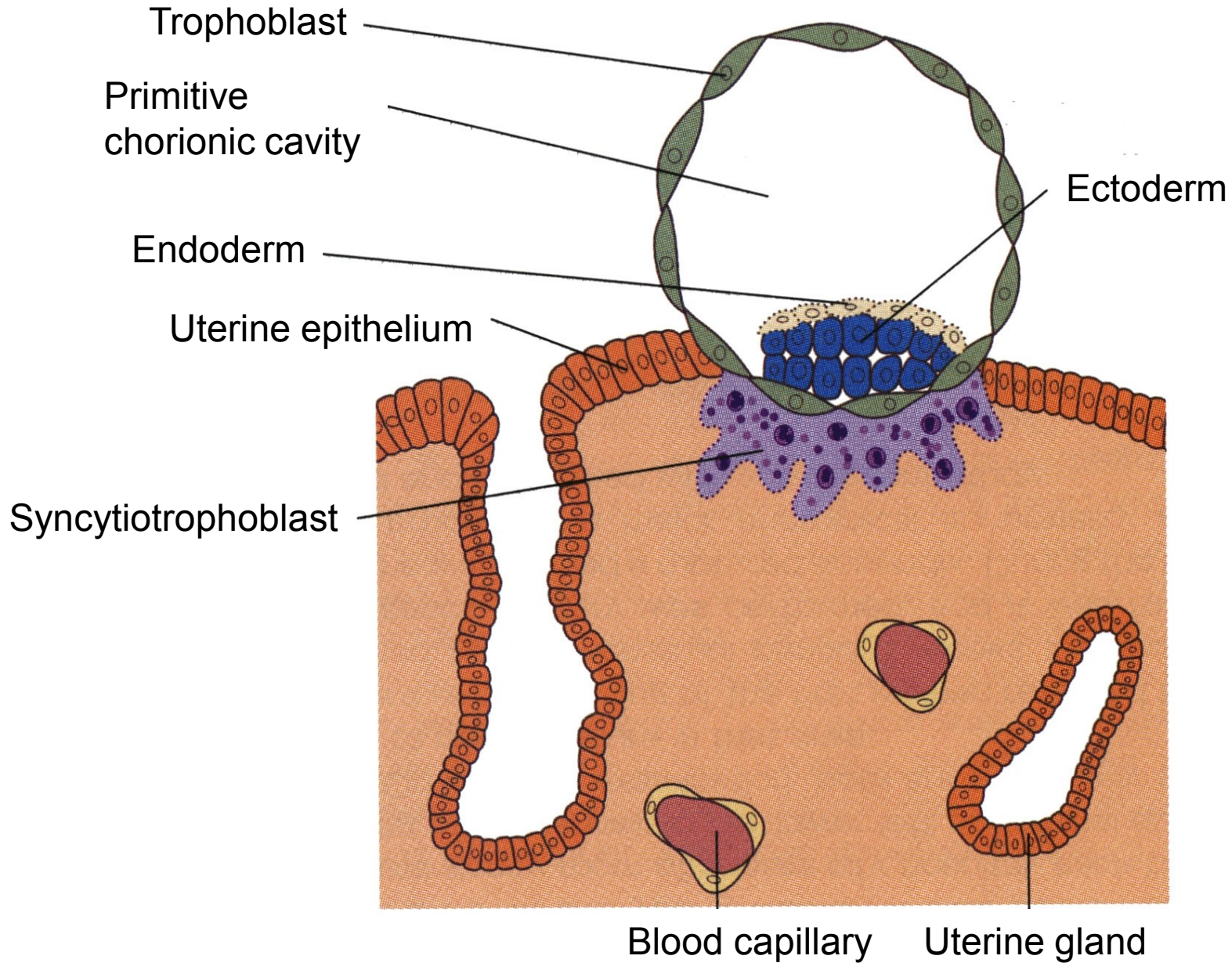


Blastocyst

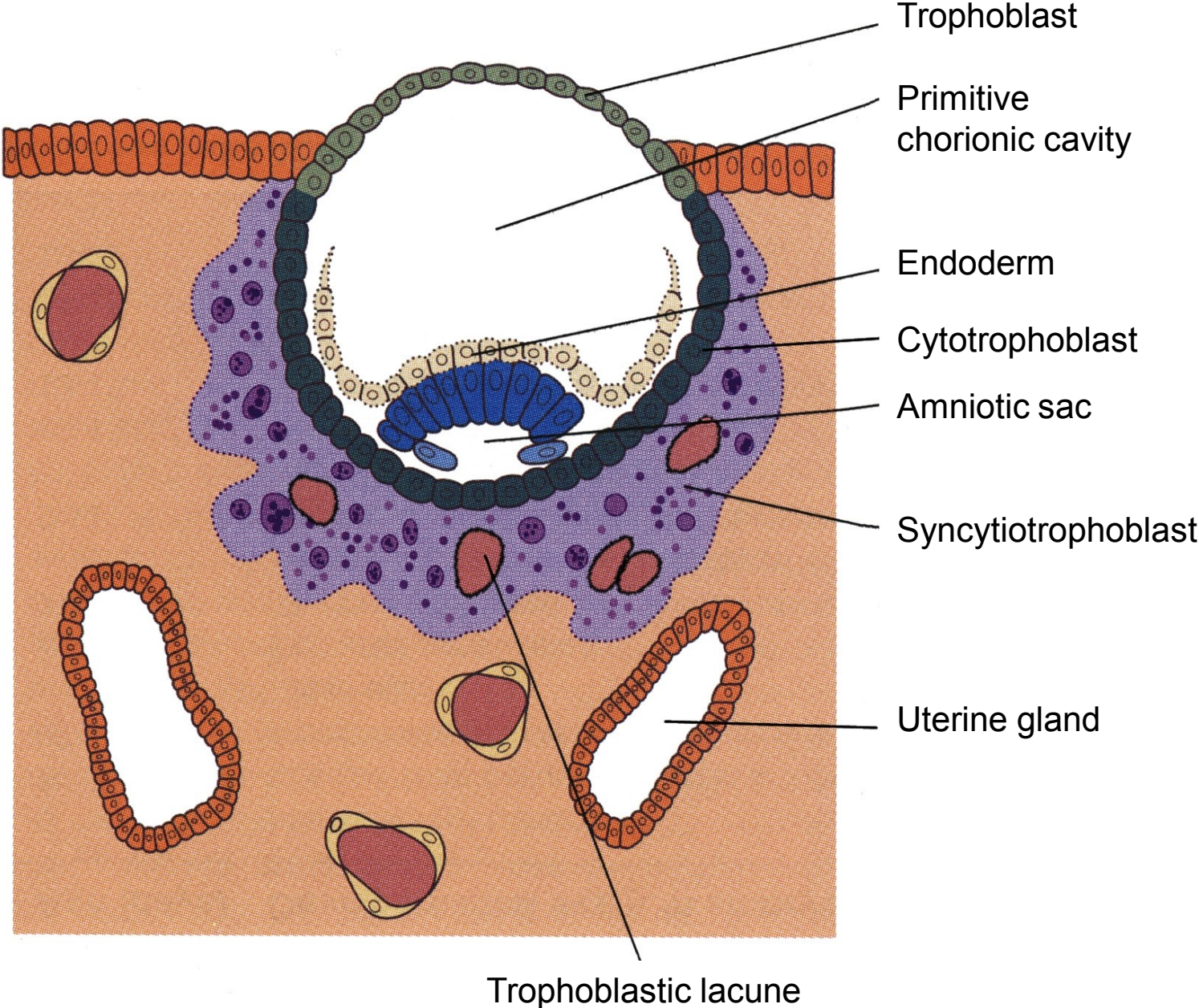
CLEAVAGE AND IMPLANTATION



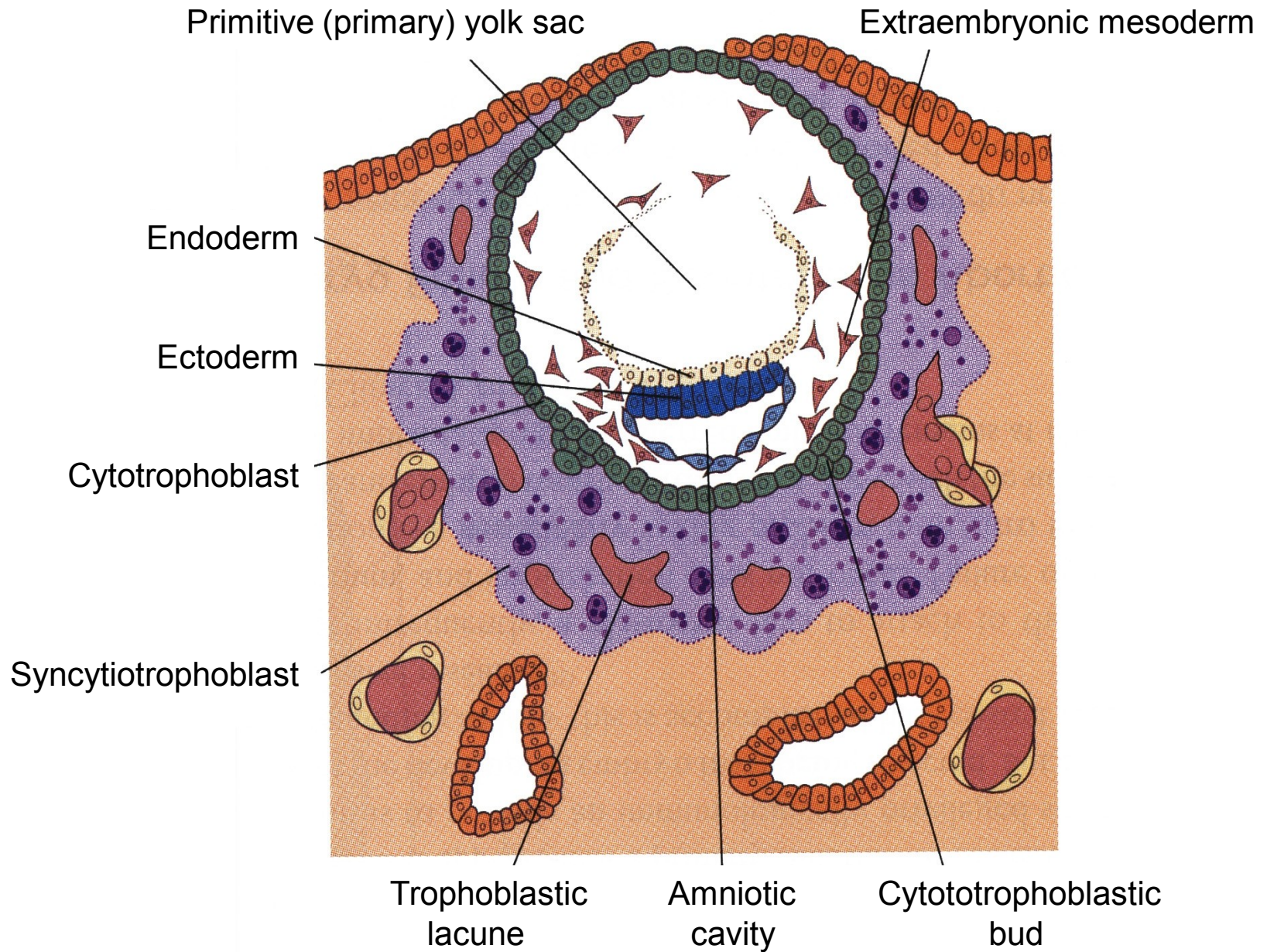
IMPLANTATION – DAY 7



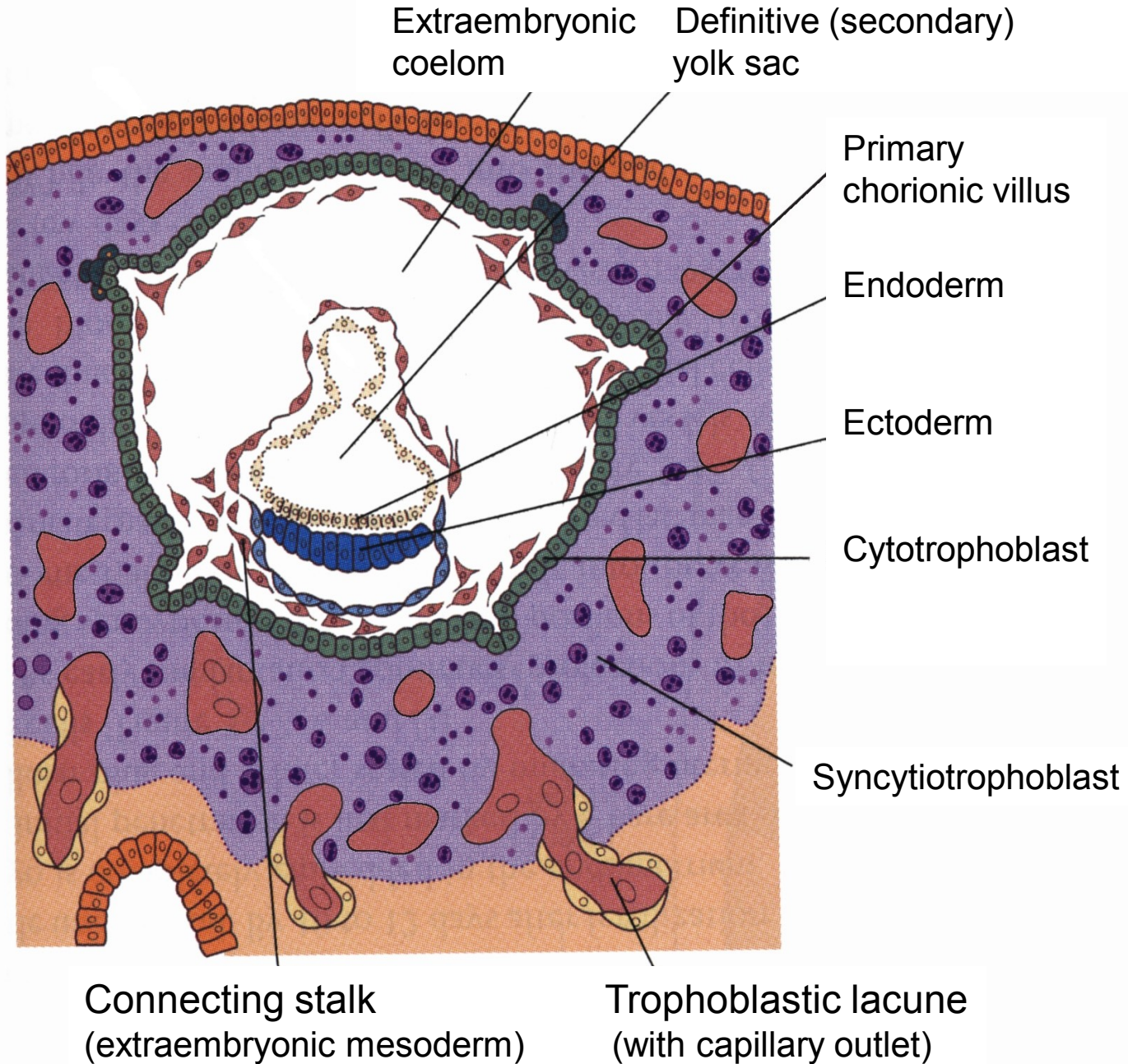
IMPLANTATION – DAY 8 1/2



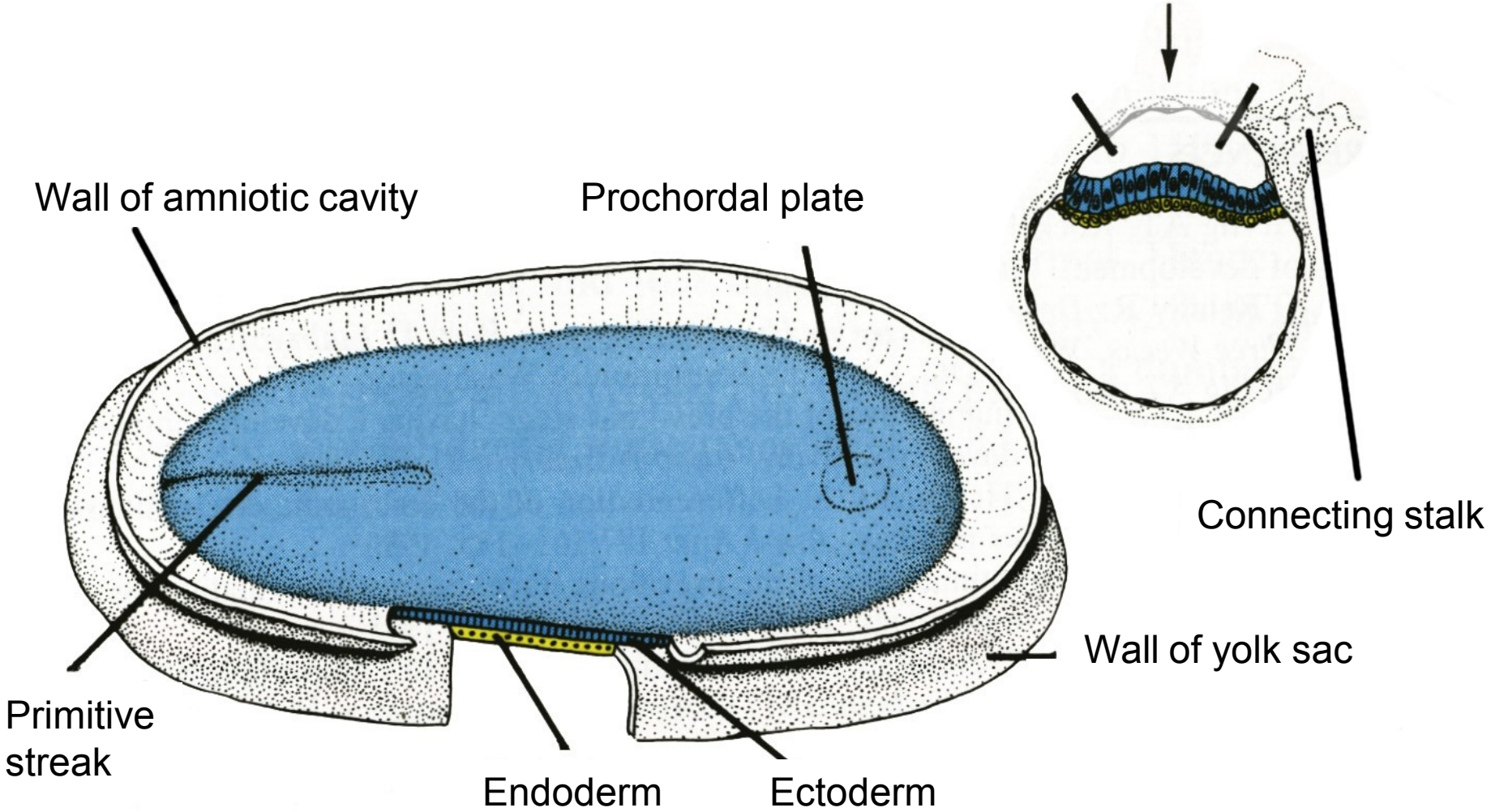
IMPLANTATION – DAY 10



IMPLANTATION – DAY 13

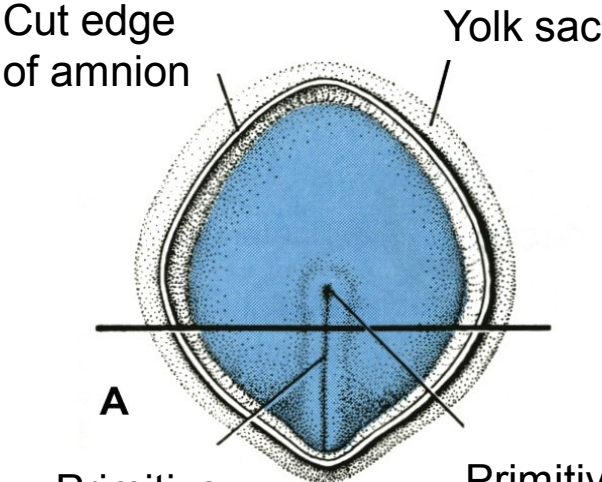


DORSAL SIDE OF GERM DISC – DAY 14

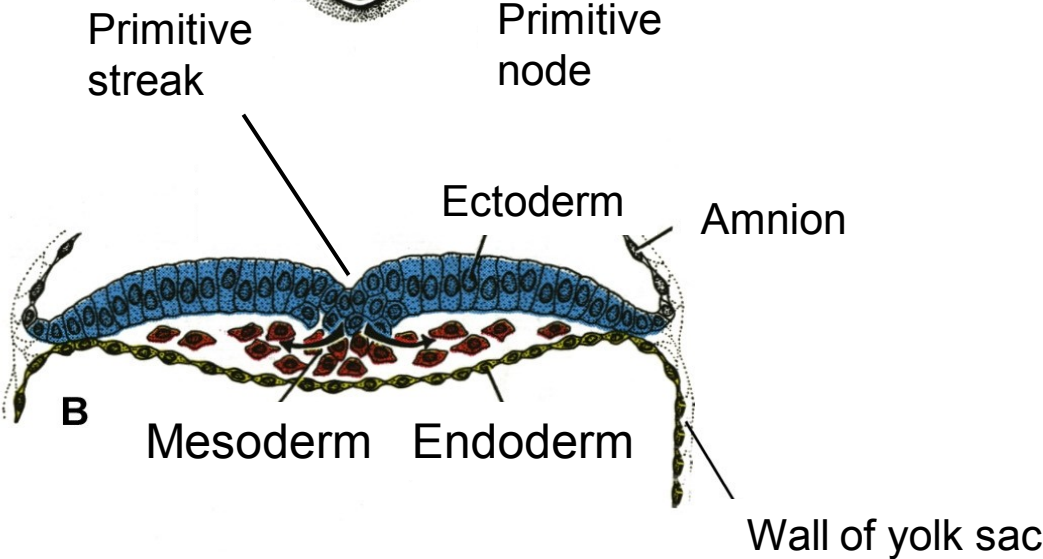


GERM DISC - DAY 16

A – view on dorsal side:



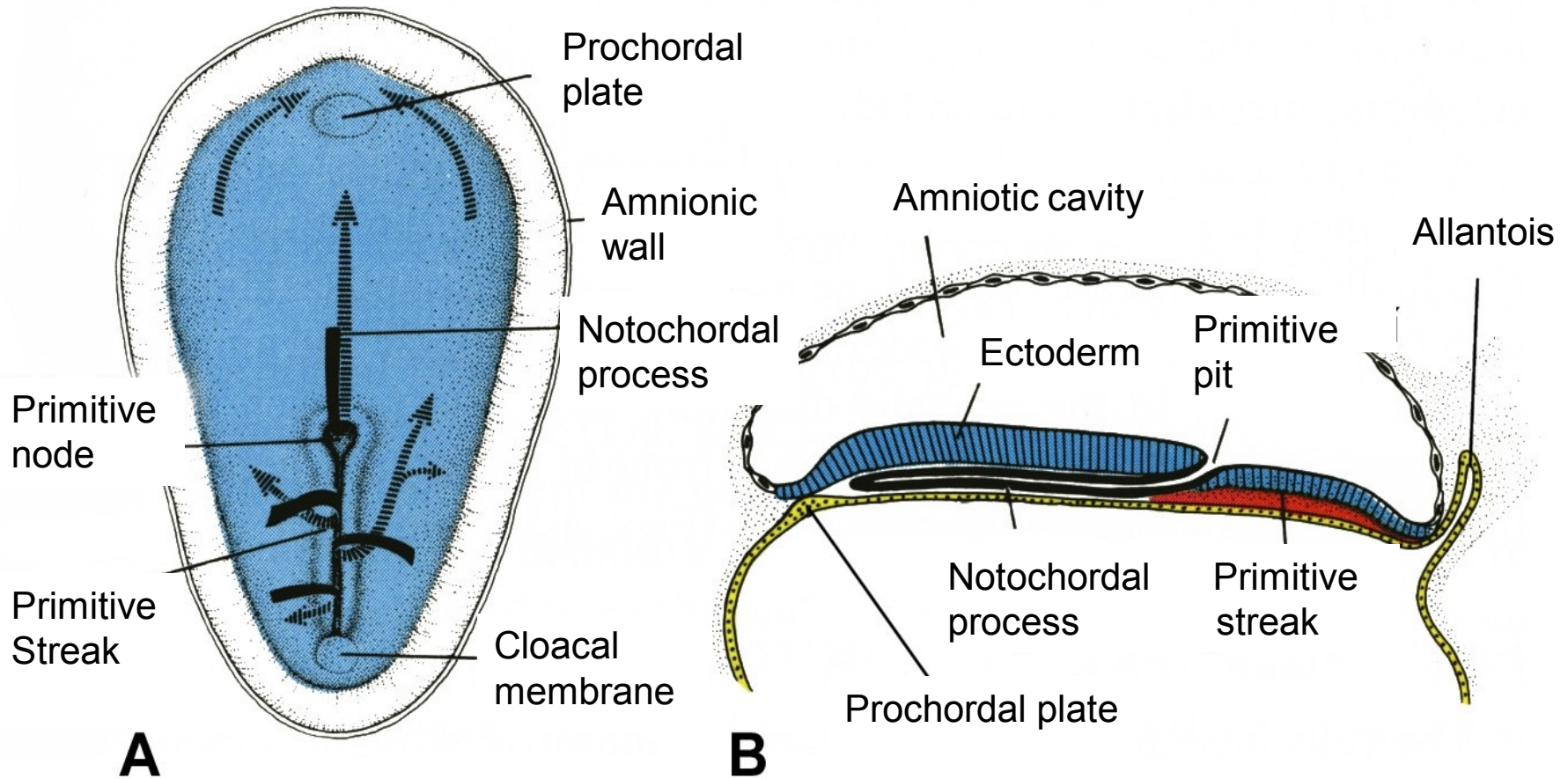
B – transverse section through germ disc:



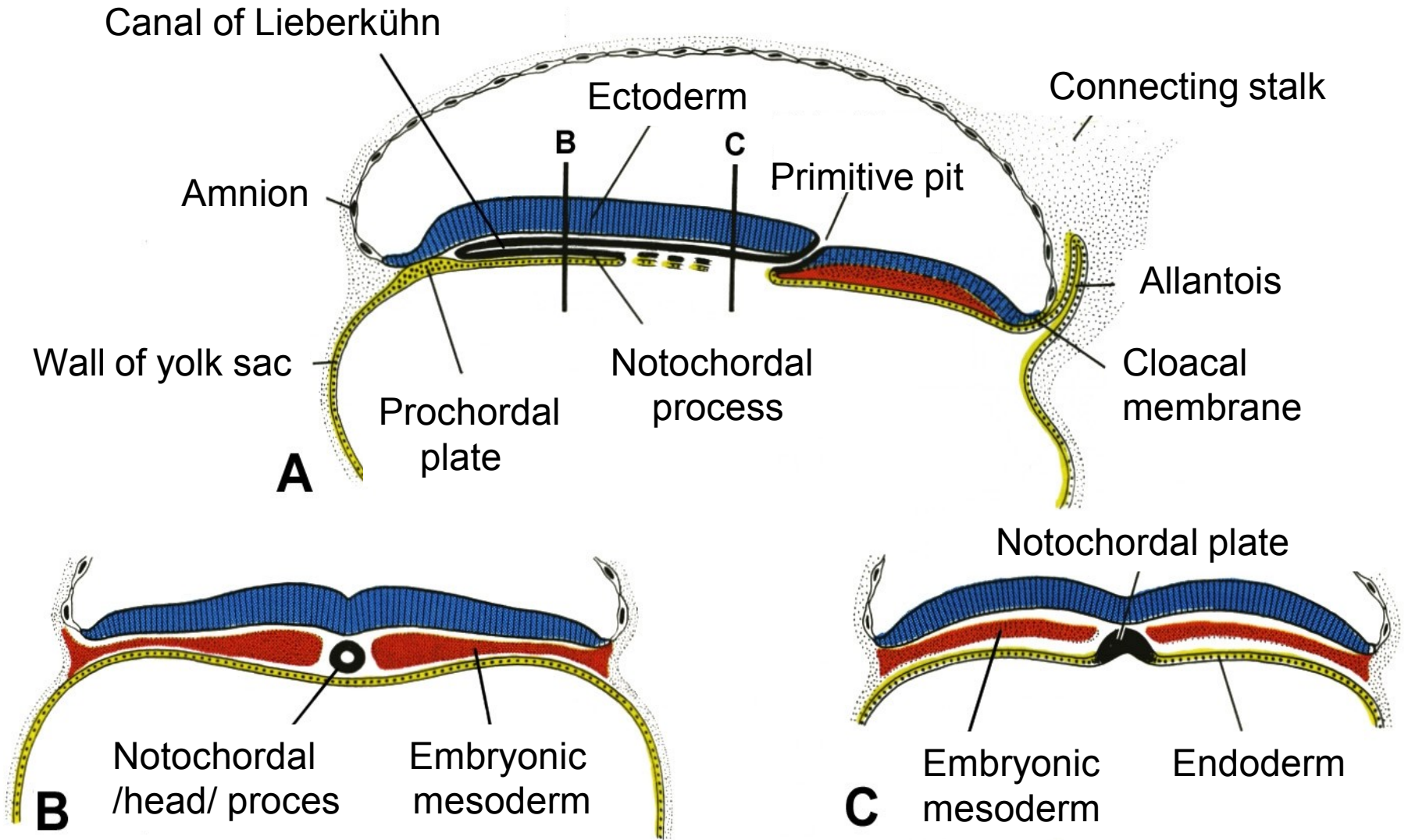
GERM DISC - DAY 16

A – view on dorsal side

B – longitudinal section

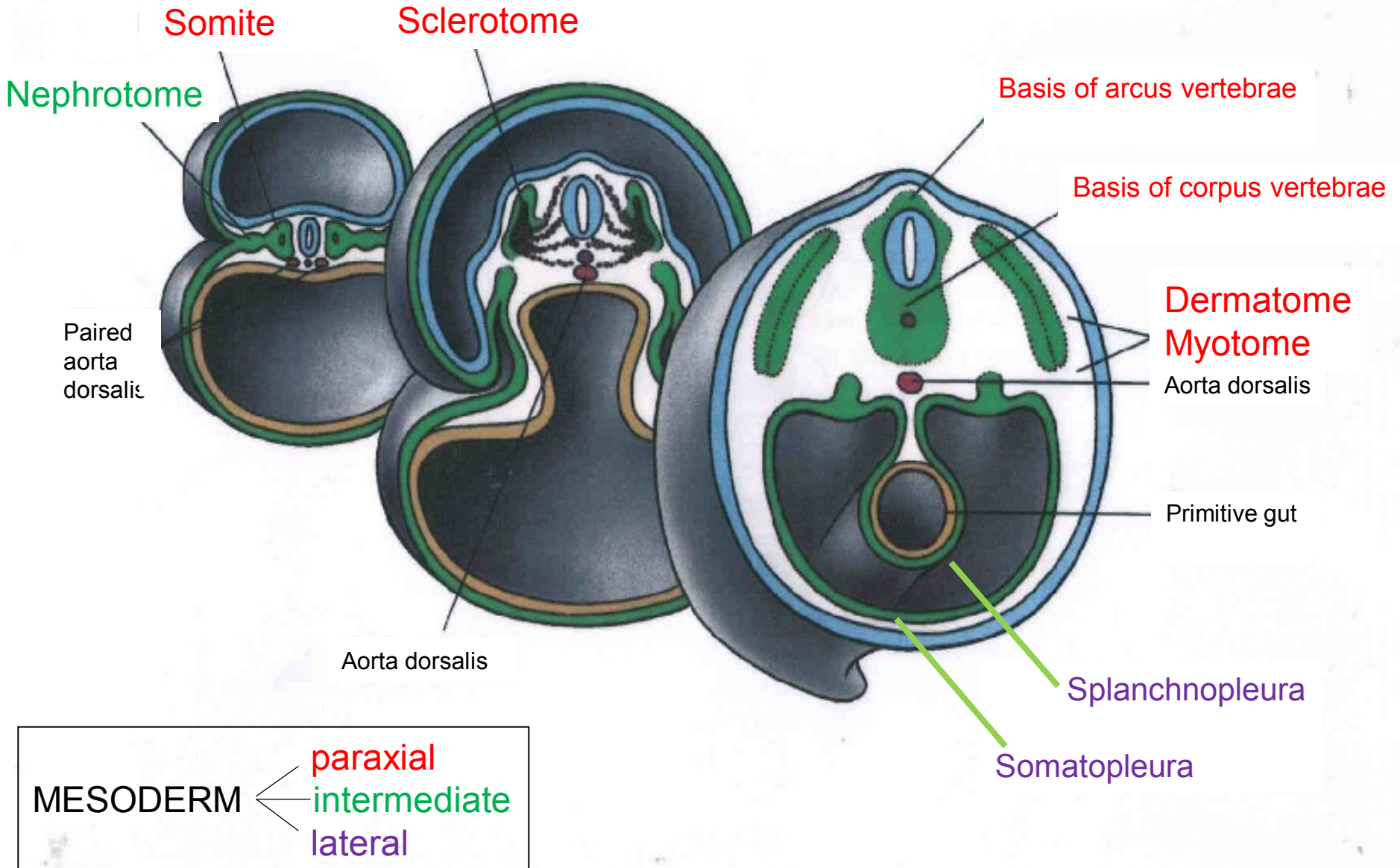


GERM DISC - DAY 17

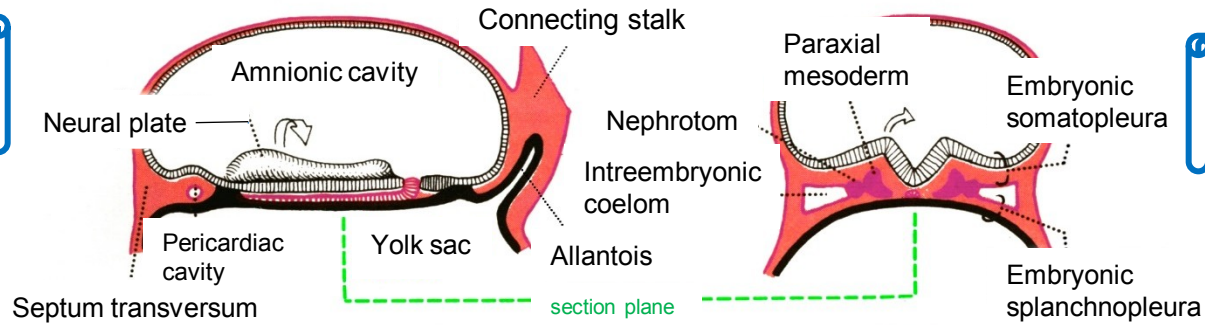


A – longitudinal section, **B**, **C** – transversal sections

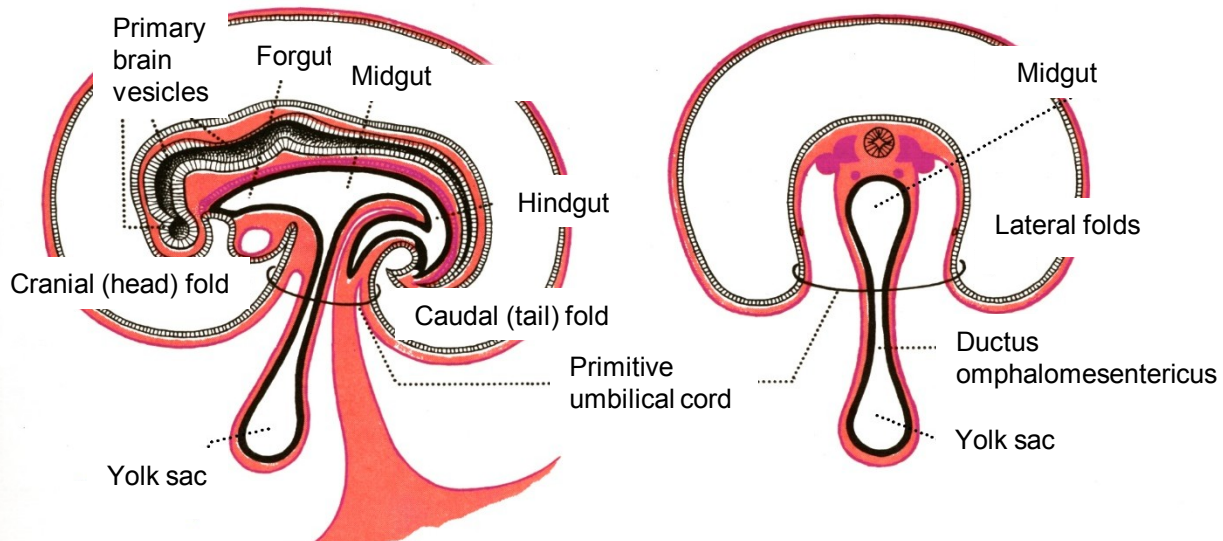
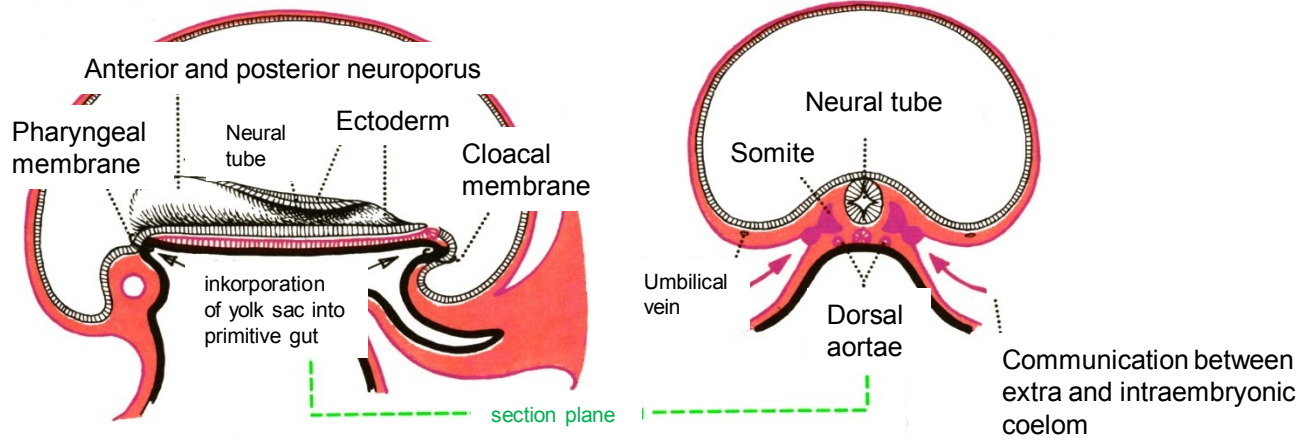
DIFFERENTIATION OF MESODERM



EMBRYO



FLEXION





EMBRYOLOGY

Set of embryological pictures I, II