

Human Development

Lecture 2: *Fertilization through gastrulation*

Friday, February 20, 2009, 11:00 am

Learning objectives:

- Basic morphological processes during pre-implantation and early post-implantation development
- Lineage relationships between early embryonic tissues
- Origin of extraembryonic tissues
- Cell movements during gastrulation
- Molecular basis of anterior-posterior and left-right axis specification
- Axial midline and patterning of the neural plate
- Embryonic induction and key signaling molecules

Reading assignment:

Gilbert: pp. 348-369

Schoenwolf: pp. 39-100