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