

Mader/Biology, 11/e – Chapter Outline

Chapter 42

42.1 Early Developmental Stages

A. Details of Fertilization in Humans

1. **Fertilization** requires that sperm and egg interact to form a zygote.
 - a. A human sperm cell has three parts.
 - 1) The head contains a haploid nucleus covered by a capped acrosome containing enzymes, allowing the sperm to penetrate the egg.
 - 2) A middle piece contains ATP-producing mitochondria.
 - 3) The tail is a flagellum that allows the sperm to swim.
 2. The plasma membrane of the egg is surrounded by the *zona pellucida*.
 - a. The *zona pellucida* is surrounded by a few layers of adhering follicular cells, collectively called the *corona radiata*.
 - b. These cells nourished the egg when it was in a follicle of the ovary.
 3. Fertilization involves the following steps.
 - a. Several sperm penetrate the *corona radiata* and several sperm attempt to penetrate the *zona pellucida*.
 - b. One sperm enters the egg and their nuclei eventually fuse.
 - c. After the sperm head binds tightly to the *zona pellucida*, the acrosome enzymes digest and form a pathway for the sperm through the *zona pellucida*.
 - d. The head, middle piece, and usually the tail enter the egg.
 - e. Prevention of *polyspermy* depends on changes in the egg plasma membrane when the sperm touches the egg and depolarizes the egg plasma membrane; this is called "fast block."
 - f. Vesicles in the egg called cortical granules secrete enzymes that turn the *zona pellucida*, forming an impenetrable fertilization membrane; this is called "slow block."
 - g. As soon as plasma membranes of the sperm and egg fuse, the *zona pellucida* lifts away from the surface of the egg, forming a moat that prevents entrance of any other sperm.
 - h. The diploid zygote forms when a nuclear envelope surrounds the sperm and egg chromosomes.

B. Embryonic Development

- **Development** includes all the changes that occur during the life cycle of an organism and can be divided into three stages: cellular, tissue, and organ.
1. Cellular Stages of Development
 - a. An organism is an **embryo** during the first stages of development.
 - b. After fertilization, a zygote undergoes **cleavage**, cell division without growth.
 - c. DNA replication and mitosis occur repeatedly, and the cells get smaller with each division.
 - d. In the lancelet, the cell divisions are equal in the resulting **morula**.
 - e. A cavity called the **blastocoel** develops forming a hollow ball called the **blastula**.
 - f. Chickens lay hard shelled eggs containing **yolk**.
 - 1) Yolk-filled cells don't participate in cleavage.
 - 2) When the blastocoels form, it separates cells from the yolk.
 - g. Vertebrate zygotes form a morula.
 - 1) When there is yolk, the zygote and embryo exhibit polarity and there are two poles:
 - i. Animal pole has faster growing and smaller cells that develop into the ectoderm and endoderm layers
 - ii. Vegetal pole has slower growing and larger cells that develop into the endoderm.
 2. Tissue Stages of Development

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