



# Embryonic Development in Fish

## **Embryonic development starts with eggs**

- Fish embryonic development consists of seven stages leading to hatching.
- These stages are the zygote period, cleavage period, blastula period, gastrula period, segmentation period, pharyngula period, and finally hatching.

- **Inception**
- **Cleavage Period**
- **Gastrula and Pharyngula Periods**
- **Hatching**

# **Hormones involved in reproduction and their sources**

## **transaction of external signal**

- The External environment where the fish is living plays vital role in inducing the animal to go for maturation.
- Photoperiod (the duration / or length of day time) plays important role in maturation of animals.

# **Mechanism involved in maturation and ovulation**

## **Steroids in the male**

- interstitial cells in testis

## **produced steroids**

- Androgen
- Progestins
- Steroid conjugates

- **Antrogen**
- **Progestin s**
- **Steroid conjugates**
- **Gonadal regression**