

SEX REVERSAL IN FISH



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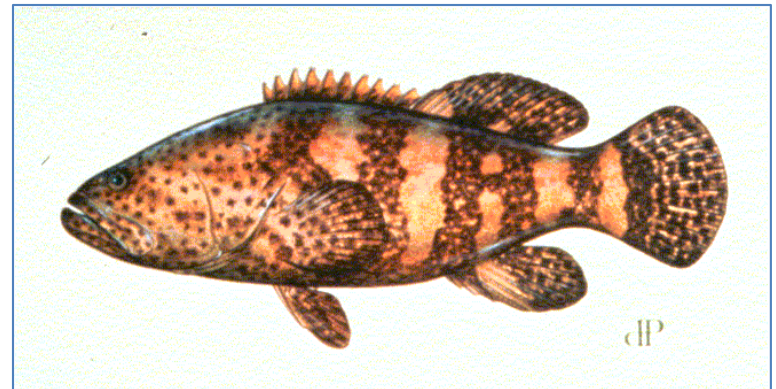
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Sex Reversal

- A process that changes the sexual identity of an individual from one sex to the other.

Sex Reversal

- **Protandrous hermaphrodites**-they start life as males, reach maturity at three or four and, a year or so later, become female. Ex. Seabass, *Lates calcarifer*
- A **protogynous hermaphrodite** is an animal that begins its life cycle as a female. As the animal ages, based on internal or external triggers, it shifts sex to become a male animal. Ex. Grouper, *Epinephelus tauvina*



Sex Reversal

- **Gonadotropin-releasing hormone (GnRH)**, also known as **Luteinizing-hormone-releasing hormone (LHRH)** and **lutiberin**, is a tropic peptide hormone responsible for the release of FSH and LH from the anterior pituitary. GnRH is synthesized and released from neurons within the hypothalamus. The peptide belongs to gonadotropin-releasing hormone family.