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## CHAPTER-11

# Scientific Correlation Between Feeding Behavior of *Rynchops albigollis* and *Pethia ticto*: A Case Study on a Vulnerable Avian Species of Odisha

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### Abstract

Birds play a very important role in sustaining the nature's biological equilibrium. The process of globalization and depleting environmental condition has a serious impact on avian diversity. One such avifauna named *Rynchops albigollis* (Indian Skimmer) is getting declining worldwide due to adverse environmental condition and anthropogenic actions. Hence, there is an urgent need to study these threatened species and makes some conservation strategies to save the number of these species in the interest of mankind. To save and increase its numbers, an attempt has been made on studying its feeding behavior. As this species major diet consist of 5 types of fish, we have selected one of the fish species among major fish diet for experimental analytical work. The extracts were prepared and chromatographic studies were carried out & the results revealed that the experimental fish species *Pethia ticto* (Kerandi) was may used to induce the breeding and egg laying activity in Indian Skimmer. It was observed that the extract is rich with diverse bioactive compounds. The present study highlights the importance of fish as diet to Indian Skimmer.

**Keywords:** Medicinal values, Fabales, Odisha, Bioactive Compounds.

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