

Article

Reproductive Behavior and Sexual Patterns in Two Cales, *Heteroscarus acroptilus* and *Olisthops cyanomelas* (Odacidae) at Rocky Reefs in Temperate Australia

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Abstract: We investigated reproductive behavior and sexual patterns in two odacid fish—Rainbow cale *Heteroscarus acroptilus* and Herring cale *Olisthops cyanomelas*—inhabiting temperate reefs in Australia on the basis of underwater observations and histological studies. The males of both species established a territory and continuously courted females they encountered in the territory. The males and females went up in the water column to release gametes in pairs. We found ovarian cavities in the gonadal tissue of *H. acroptilus* males, suggesting that protogynous sex change occurred in this species. Dichromatism is reported in *O. cyanomelas*, with males having a dark blue body color while females have a brown body color; however, we found small mature males also included among brown individuals. Furthermore, we diagnosed *O. cyanomelas* with gonochorism, which is rare in closely related labrids. We compared the similarities and differences in reproductive behavior and sexual patterns between the two species and with labrids.

Keywords: spawning ecology; reproductive tactics; sex reversal; protogyny; gonochorism; monoandry; hermaphroditism; gonadal tissue; southern hemisphere; Tasman Sea

Key Contribution: We revealed the reproductive behavior of odacid fish through underwater observations for the first time. We found two sexual patterns of protogyny and gonochorism in two odacid species.



Citation: Kawase, H.; Sunobe, T. Reproductive Behavior and Sexual Patterns in Two Cales, *Heteroscarus acroptilus* and *Olisthops cyanomelas* (Odacidae) at Rocky Reefs in Temperate Australia. *Fishes* **2023**, *8*, 491. <https://doi.org/10.3390/fishes8100491>

Academic Editors: Yongjiang Xu, Bin Wang and Rafael Nóbrega

Received: 30 August 2023

Revised: 21 September 2023

Accepted: 26 September 2023

Published: 2 October 2023



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1. Introduction

Odacidae is one of three families in Labriformes [1], in which six genera with 12 species are reported [2]. All odacid species are distributed along the southern coast of Australia or New Zealand, inhabiting seaweed beds on temperate shallow rocky reefs. Labridae is also a family in Labriformes, in which some 71 genera with more than 500 species are recorded from tropical to temperate regions of the Atlantic, Indian and Pacific Oceans [1]. Recent molecular phylogenetic studies have reported that odacids are deeply nested within the labrid tribe Hypsigerynini [3,4]. Studying the reproductive behavior and sexual patterns of odacids that have evolved in isolated areas is crucial not only for understanding the diversity and uniqueness observed in those regions, but also for elucidating the evolution of reproductive behavior and sexual patterns of labrids that have diversified in the oceans around the world.

Ecological studies on odacids have included butterflyfish *Calx pulfus* inhabiting rocky reefs in New Zealand, with reports on the influence of season, ontogeny, and tide on diet [5], otolith-based age estimation, sex-specific growth, longevity, and age-based reproductive events [6], and temperature-related variations in growth rate, size, maturation, and life span [7]. Furthermore, a histological study revealed that the sexual ontogeny of *O. pulfus*

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Table of Contents Patterns Of Reproductive Behavior

1. Understanding the eBook Patterns Of Reproductive Behavior
 - The Rise of Digital Reading Patterns Of Reproductive Behavior
 - Advantages of eBooks Over Traditional Books
2. Identifying Patterns Of Reproductive Behavior
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Patterns Of Reproductive Behavior
 - User-Friendly Interface
4. Exploring eBook Recommendations from Patterns Of Reproductive Behavior
 - Personalized Recommendations
 - Patterns Of Reproductive Behavior User Reviews and Ratings
 - Patterns Of Reproductive Behavior and Bestseller Lists
5. Accessing Patterns Of Reproductive Behavior Free and Paid eBooks
 - Patterns Of Reproductive Behavior Public Domain eBooks

- Patterns Of Reproductive Behavior eBook Subscription Services
- Patterns Of Reproductive Behavior Budget-Friendly Options
- 6. Navigating Patterns Of Reproductive Behavior eBook Formats
 - ePub, PDF, MOBI, and More
 - Patterns Of Reproductive Behavior Compatibility with Devices
 - Patterns Of Reproductive Behavior Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Patterns Of Reproductive Behavior
 - Highlighting and Note-Taking Patterns Of Reproductive Behavior
 - Interactive Elements Patterns Of Reproductive Behavior
- 8. Staying Engaged with Patterns Of Reproductive Behavior
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Patterns Of Reproductive Behavior
- 9. Balancing eBooks and Physical Books Patterns Of Reproductive Behavior
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Patterns Of Reproductive Behavior
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Patterns Of Reproductive Behavior
 - Setting Reading Goals Patterns Of Reproductive Behavior
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Patterns Of Reproductive Behavior
 - Fact-Checking eBook Content of Patterns Of Reproductive Behavior
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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