

Development and characterization of microsatellite markers for the toadfish *Aphos porosus*

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Abstract

The toadfish *Aphos porosus* is a coastal benthic-demersal fish from the Southeastern Pacific coast. This species exhibits parental care and low dispersal potential, and it is subjected to bycatch by artisanal and industrial fisheries, which make *A. porosus* a susceptible species in conservation terms. In this work we present 18 polymorphic microsatellite loci for this species. Allelic richness varied between 2 and 8 alleles and observed heterocigosity ranged between 0.026 and 0.737. Fourteen of the 18 loci were unlinked, polymorphic and in Hardy–Weinberg equilibrium. The non-exclusion probability over all loci was very low (0.0013). These loci show potential for population genetic analyses, for studying reproductive strategies and supporting conservation policies for this species.

Keywords

Benthic fish Batrachoididae Southeastern Pacific coast 454 sequencing

Electronic supplementary material

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Concepts found in this article

[What is this?](#)

Non-exclusion Probability

Low Dispersal Potential

Parental Care

Null Allele Presence

Massive DNA Sequencing

Allelic Richness

GS Junior Titanium Series

Parentage Analysis

Reproductive Strategy

Library Preparation

Microsatellite Marker

Polymorphic Microsatellite Locus

Conservation Policy

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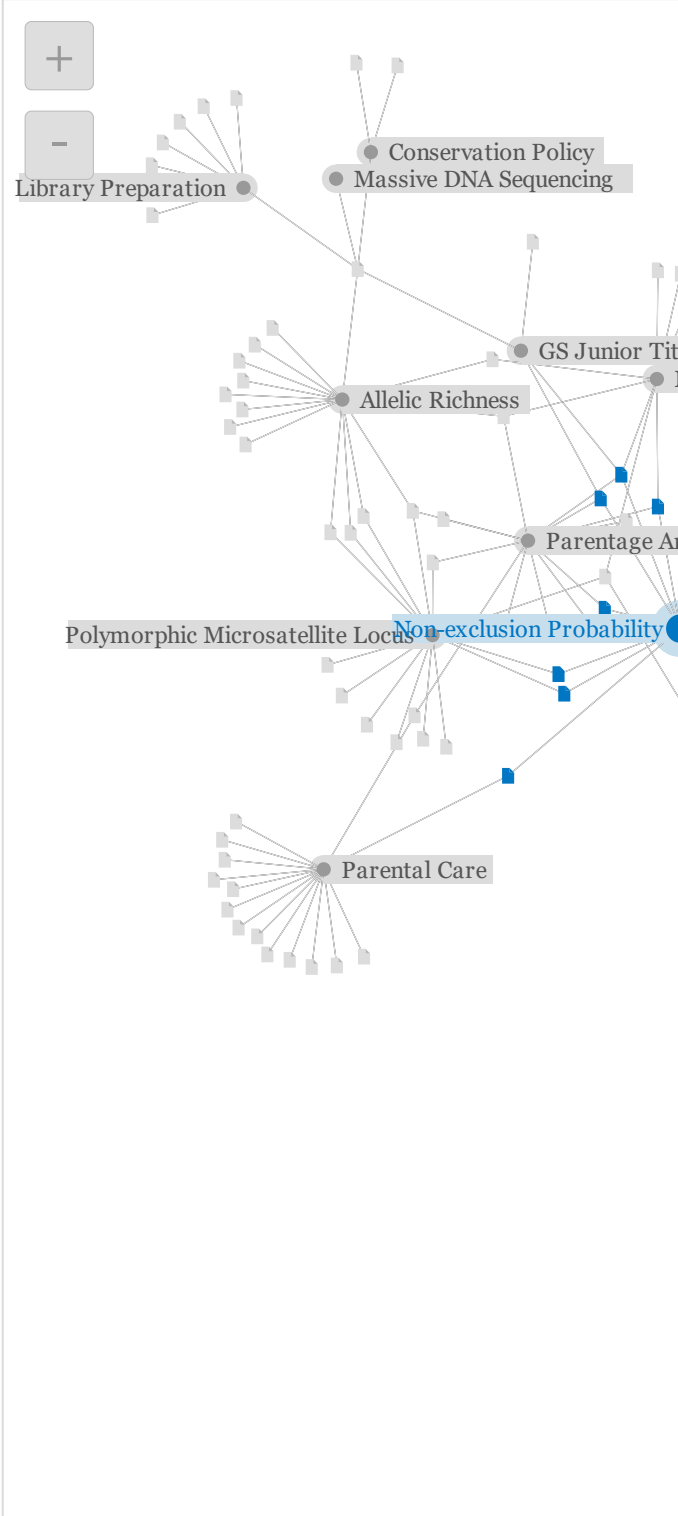
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