

Genetic Adaptations of Marine Organisms to Climate Change

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Abstract. The impact of climate change on marine life is profound. This article investigates genetic adaptations in marine organisms that allow survival in changing environments. Through genomic analysis, we identified key genetic traits that enhance resilience against increased temperatures and acidification.

Keywords: Genetic Adaptation, Climate Change, Marine Biology, Genomics, Resilience

Introduction

Marine organisms are facing unprecedented environmental changes due to climate change, threatening biodiversity and ecosystem stability. This study focuses on the genetic adaptations that enable marine species to survive in rapidly changing environments. By analyzing genomic data from various marine species, we have identified genetic markers associated with resilience to temperature rise and ocean acidification. Our research provides insights into evolutionary processes and potential conservation strategies.

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