Metabolic Pathways in Tropical Plants: A Comprehensive Study

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Abstract. This study explores the complex metabolic pathways in tropical plants, focusing on their adaptive mechanisms to environmental stress. By analyzing key metabolites, we provide insights into plant resilience and potential biotechnological applications. Our findings highlight the role of secondary metabolites in stress adaptation, offering new perspectives on plant biology in tropical ecosystems.

Keywords: Metabolic pathways, Tropical plants, Biotechnology, Stress adaptation, Plant biology

Introduction

Tropical plants exhibit unique metabolic pathways that allow them to thrive in challenging environments. Understanding these pathways is crucial for advancing our knowledge of plant biology and improving agricultural practices. This study examines the role of primary and secondary metabolites in tropical plant adaptation, employing advanced analytical techniques to uncover novel insights. The implications of these findings are far-reaching, offering potential applications in biotechnology and sustainable agriculture.

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