

Ecological Factors Influencing Toxicity

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Abstract

The dynamic relationship between ecology and toxicology plays a pivotal role in understanding the fate and effects

ecological factors influencing the distribution, transf

Introduction

Ecology and toxicology are two interconnected disciplines that play a critical role in understanding the intricate relationships between living organisms and their environments. This article delves into the complex interactions between ecological systems and toxic substances, shedding light on the profound effects contaminants can have on ecosystem health. With the increasing threats posed by pollution and human activities, comprehending the dynamics of ecology-toxicology

toxicological responses in aquatic organisms. Industrial pollutants introduce an array of challenges to aquatic ecosystems, leading to habitat degradation and loss of biodiversity. The contamination of water bodies with heavy metals, pesticides, and chemical effluents alters the natural dynamics of ecosystems, causing disruptions in food chains, migration patterns, and reproductive behaviors of aquatic species. The cascading effects of these disruptions can extend throughout the ecosystem, affecting not only aquatic life but also terrestrial organisms and human populations dependent on these water resources.

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