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Toxicology: Unraveling the Intricacies of Harmful Substances

Stephanie Kwolek*

Department of Pharmaceutical Sciences, UK

Abstract

The field of toxicology involves the study of harmful substances and their effects on living organisms. It is a multidisciplinary science that combines knowledge from chemistry, biology, and medicine to understand how substances interact with biological systems. One of the primary goals of toxicology is to identify and characterize the mechanisms by which substances cause harm, so that effective treatments and prevention strategies can be developed. Another important aspect of toxicology is risk assessment, which involves evaluating the potential hazards of substances based on their chemical properties and exposure levels. This information is used to inform public health policies and regulations. Overall, toxicology plays a crucial role in ensuring the safety of pharmaceuticals, food additives, and environmental pollutants.

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