Natural Products as Inspiration Harnessing Nature for Drug Development

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Natural products have long served as a wellspring of inspiration for drug development, contributing signifcantly to the pharmaceutical landscape. This article explores the diverse array of natural compounds derived from plants, microbes, and marine organisms, emphasizing their historical signifcance, technological advancements, challenges, and innovative approaches in harnessing nature for drug discovery. The discussion includes case studies highlighting the impact of natural products in specifc therapeutic areas and underscores the importance of sustainability in bio prospecting. As researchers delve into the intricate world of biosynthetic pathways and employ cutting-edge technologies, the future of drug development is shaped by the ongoing exploration of natural products.

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