

عنوان مقاله:

The Crucial Role of Computational Simulations in Optimizing Skin Drug Delivery

محل انتشار:

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خلاصه مقاله:

Computational simulations play a crucial role in optimizing drug delivery to the skin by providing a virtual platform to study and enhance the efficiency of various delivery mechanisms. This abstract explores the significance of computational simulations in drug delivery optimization, focusing on their ability to predict drug behavior, optimize formulation parameters, and minimize experimental costs. These simulations enable researchers to visualize and analyze drug interactions with skin layers, predict penetration pathways, and optimize delivery systems for enhanced efficacy and reduced side effects. By integrating computational models with experimental data, researchers can tailor drug formulations to specific skin types, improving therapeutic outcomes and patient compliance. This abstract highlights the pivotal role of computational simulations in revolutionizing drug delivery to the skin through precise optimization strategies.

کلمات کلیدی:

computational simulations, drug delivery, skin, optimization, formulation parameters

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