

Special Issue

Advanced Research on Transdermal Drug Delivery

Message from the Guest Editors

The skin, being the largest organ in the human body, presents several advantages over alternative routes of drug administration. Transdermal drug delivery can bypass the gastrointestinal tract and hepatic first-pass metabolism, ensuring stable and predictable drug concentrations in the bloodstream. However, the stratum corneum of the skin acts as a barrier, protecting the body against external threats and simultaneously hindering the entry of active ingredients, thereby limiting the transdermal delivery of most drugs, particularly macromolecular ones. Over recent decades, numerous systems have been developed for the transdermal delivery of various therapeutic agents, including small molecules, biological macromolecules, vaccines, and even nanoparticles. This Special Issue addresses the design, preparation, and characterisation of transdermal drug delivery systems, including microneedles, patches, hydrogels, and creams, amongst others, and their application in strategies for the prevention or treatment of medical conditions.

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