

Special Issue

Nanotechnology-Enabled Strategies to Enhance Topical Bioavailability

Message from the Guest Editors

The design and development of new topical formulations are trending topics, especially for the biomedical field, as they can be conceived to not only address protective and cosmetic needs, but also target therapeutic outcomes. Because one of the main functions of human skin is protection—the skin acting as a barrier to the penetration of various external factors—the penetration of active substances through the skin is impaired, thus limiting their therapeutic potential. To overcome this, innovative strategies are required to increase skin permeability by means of penetration promoters. In this regard, modern nanotechnology-based formulations are being developed, such as derived liposomal formulations (transferosomes, ethosomes, cubosomes, nanostructured lipid carriers or other lipid-based nanocarriers), nanogels, nanoemulsions, cyclodextrin-based formulations and other modern approaches. For the current Special Issue, original research and review articles addressing recent advances in nanopharmaceutical formulations with enhanced topical bioavailability and complex biological in vitro and/or in vivo profiles are welcomed.

Guest Editors

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