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Nanocarrier-Hydrogel Hybrids in Wounds Healing

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Message from the Guest Editors

Dear Colleagues,

In recent years, there has been significant development of nanomedicine and nanotechnology in the treatment of wound infections. Nanostructured (as well as hydrogel matrix) systems are effective media for the active and medicinal substances used to treat bacterial infections and to stimulate wound healing.

The combination of nanocarrier and hydrogel matrix offers many benefits as a transdermal formulation, such as controlled drug delivery and easy administration, thus enhancing patient compliance. Moreover, this solution provides improvement in rheological and sensory properties of the nanocarriers and facilitates its application to the skin. The addition of rheological modifiers allows one to prolong the contact time of preparation with the skin and to increase the skin hydration level by forming a hydrophilic film on the skin surface and reducing the transepidermal water loss. This is a very important aspect in skin regeneration. To summarize, the hybrid systems of the nanocarrier–hydrogel matrix seem to be an extremely interesting solution in wound treatment.

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Message from the Editor-in-Chief

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