

Special Issue

Scaffold-Mediated Gene Delivery

Message from the Guest Editor

Current gene therapy approaches mainly focus on providing a safe gene supply and an effective transgene expression. At the interface of gene therapy drug delivery and biomaterials science, gene delivery has emerged as a powerful tool to achieve this goal. Use of scaffolds as delivery systems permits obtaining a controlled, sustained, and localized release of the vectors encoding for therapeutic factors into a specific target. Likewise, other concerns associated with the direct administration of the gene transfer vectors can be avoided.

The design of biomaterials acting as a vector reservoir of an efficient gene transfer and exhibiting adapted properties to the target tissue is therefore the focus of active investigation. In this regard, different scaffolds including hydrogels or solid matrices have been studied as gene delivery platforms for promoting the regeneration of complex tissues, such as cartilage, skin, blood vessels, and nerves.

This Special Issue aims to highlight current progress on the use of scaffolds as gene delivery systems in different tissue engineering and regenerative medicine approaches.

Guest Editor

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