



Magnetic Scaffolds for Biomedical Applications

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Message from the Guest Editors

Dear Colleagues,

The innovative use of magnetic fields in biomedical applications has experienced an exponential increase in recent years. Among the applications of magnetism in medicine, there are diagnostic (e.g., MRI, NMR), surgical (e.g., electrosurgical cutting), and therapeutic applications (e.g., hyperthermia).

The magnetic components of biomaterials are exploited as remotely controlled tools with potential for diagnostic and therapeutic actions (theranostic applications). Also, magnetic fields can be used as exogenous stimuli to induce changes in the physical, chemical, and structural properties of biomaterials. In this context, multifunctional magnetic scaffolds are objects of particular interest, because they can be imagined as bioactive materials that can be manipulated directly in situ.

This Special Issue is aimed to point out the evolution and new potential biomedical applications of this new research field, encouraging original contributions related to any aspect of the new magnetic materials, including how they perform in physiological environments and, possibly, in tissue regeneration.

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Guest Editors





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Message from the Editor-in-Chief

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