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New Insights into Hybrid Biomaterials

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Message from the Guest Editors

Dear Colleagues,

The development of hybrid biomaterials is attracting constantly increasing interest for applications in the biomedical sector, such as tissue engineering, regenerative medicine, drug delivery or gene therapy, and design of diagnostic systems. Frequently, intrinsic shortcomings of a single chemical render the development of hybrid biomaterials as the most appropriate way to achieve the desired and necessary properties for selected bioapplications, allowing for interaction with key components of living systems. Hybrid biomaterials demonstrate excellent tunable mechanical and physicochemical properties, including viscoelasticity and strength, as well as improved biological activity, including cellular biocompatibility and tissue-inductive ability.

The Special Issue will include contributions that demonstrate how an understanding of the basic chemical and physical phenomena may direct materials design and stimulate ideas for new or improved processing techniques, in order to obtain biomaterials with desired structural features and properties.

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Message from the Editorial Board

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