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Advances in Biomaterials 2011

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Message from the Guest Editor

Dear Colleagues,

The design of innovative biomaterials has led to outstanding success in clinical applications over the past decades, such as in orthopedics or cardiovascular surgery. This rapidly evolving field is developing the next generation of biomaterials based on new compounds, processing technologies, three-dimensional architectures or self-adaptive materials to design scaffolds with improved biological integration and function. Nanostructured surfaces, optimized interactions with stem cells or long-term drug delivery are some of these various innovations that will greatly benefit to their development.

This special issue of Materials will combine the expertise of engineers, chemists, biologists, and clinicians to present some of the most promising innovations in the development of the next generation of biomaterials in a wide variety of biological and clinical applications.

Dr. François Berthod

Guest Editor



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Special issue



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Message from the Editorial Board

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