

Special Issue

Biomaterials for Hard Tissue Regeneration

Message from the Guest Editor

Biomaterials are of great clinical relevance because of their ability to stimulate the regeneration of hard tissues. Multiple cell–material interactions are involved in this process. New methods for manufacturing and modification of materials as well as the establishment of smart materials and biocompatible drug delivery substitutes can lead to adaptation of the already applicable materials as well to new biomaterials. The cellular suitability of new and modified biomaterials needs to be evaluated in preclinical in vitro and in vivo studies as well as clinical trials prior to clinical usage. This Special Issue aims to provide new insight into the cellular compatibility of new or modified biomaterials that are designed for implantation into defects and fractures of hard tissues. Particularly, the molecular interactions of biomaterials and cells or their extracellular components will be in focus. Therefore, we welcome original research and review manuscripts that report molecular mechanisms of cells at the interface of biomaterials established for hard tissue regeneration.

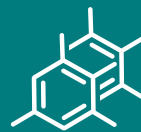
Guest Editor

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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