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Materials and Technology for Regenerative Medicine

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Message from the Guest Editors

The idea of regenerative medicine requires the conscious use of biological, medical, and material techniques aimed at repairing and restoring normal function of damaged cells or organs, preferably at the site of destruction (in situ). Currently used regenerative medicine strategies are mainly based on induced autoregeneration, somatic cell therapy, and tissue engineering (TE). Wherever there is a need to restore large defects (i.e., critical defects) or to introduce an induced response from the body (induced autoregeneration), biomaterials are used.

Keywords

- biomimetic materials
- scaffold
- 2D and 3D biomaterials
- bioactivity
- (nano)composite materials
- fibrous materials
- porous materials
- polymer processing
- ceramic technology
- cells-materials interaction
- (bio)degradation
- regenerative process





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Message from the Editor-in-Chief

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