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Novel Biomaterial Designs and Strategies for Orthopaedic Surgery

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Deadline for manuscript submissions:

closed (1 October 2023)

Message from the Guest Editors

This Special Issue of *Bioengineering* on "Novel Biomaterial Designs and Strategies for Orthopaedic Surgery" aims to, therefore, focus on compiling original research papers and comprehensive reviews dealing with cutting-edge discoveries and/or methodologies for the material design, development, and corresponding treatment strategies improving orthopaedic surgery. Topics of interest for this Special Issue include, but are not limited to, the following:

- 1. The design and synthesis of novel biomaterials for musculoskeletal tissue regeneration;
- 2. Novel biomaterials for musculoskeletal replacement or transplantation;
- 3. Biomaterials for stem cell therapy in orthopaedic disorders:
- 4. Fabrication strategies for novel biomaterials;
- 5. The investigation of biomaterials concerning their mechanical properties and functions for orthopaedic purposes;
- 6. Clinic-relevant large animal studies for functions of biomaterials for orthopaedic purposes;
- 7. Biomaterial design or drug delivery strategies for immunomodulation in orthopaedic treatments.













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Message from the Editor-in-Chief

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