



Nanoscale Materials for Drug Delivery and Tissue Engineering

Guest Editor:

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Deadline for manuscript
submissions:

closed (31 May 2020)

Message from the Guest Editor

Dear Colleagues,

Nanoscale materials have revolutionized medicine and treatment methodologies over the past decade. In the realm of tissue engineering, nano and microscale biomaterials are also gaining prominence. Engineered biomaterials that can mimic the extracellular matrix of cells are being developed for bone, cartilage, cardiac, ophthalmic, neural and skin tissue engineering. These scaffold materials can be prepared with precise architectures that promote cell adhesion, proliferation, transmit cell–cell signaling in an accurate manner and promote tissue growth. By understanding how nanoscale biomaterial scaffolds interact with cells and assemble into specific tissues, researchers can construct biomaterials that mimic these processes to repair damaged tissues or develop new tissues for implants.

This Special Issue, "Nanoscale Biomaterials for Drug Delivery and Tissue Engineering" of *Applied Sciences* will focus on recent advances in the field and the current cutting-edge research ongoing in nanomedicine, particularly with respect to the development of new nano- and microscale biomaterials for tissue regeneration and targeted drug delivery.





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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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