

Special Issue

Advances in Bioprinting, Tissue Engineering, and Regenerative Medicine

Message from the Guest Editor

Tissue engineering emerged about four decades ago with the ambitious aim of creating replacement organs in the lab. Although alleviating transplantable organ shortage remains a long-term goal, contingent with advances in polymer chemistry and cell biology, tissue engineering is already a dynamic research field with practical applications. Engineered human tissues also serve as disease models, often in combination with microfluidic devices or bioreactors that ensure biomimetic conditions. Engineered tissue constructs also serve as drug testing platforms, bridging the gap between animal models and clinical trials. Bioprinted skin models, for instance, enable a detailed look into skin aging and allow for the testing of novel drugs and cosmetics. Finally, complex physiological interactions are replicated in tissue-on-a-chip devices with promising results in drug development. This Special Issue invites contributions from the broad research field of tissue engineering and regenerative medicine. It seeks to trigger a synergistic effect by bringing together investigators with diverse backgrounds.

Guest Editor

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