

Special Issue

Tissue Perfusion and Organ Regeneration

Message from the Guest Editor

Tissue perfusion plays a central role in the regeneration of tissue, the integration of cell therapeutics, and the efficiency of drugs. For example, neoangiogenesis can be stimulated by the application of mesenchymal stem cells, blood cells, and growth factors. There are many other factors besides vascular endothelial growth factor (VEGF) that stimulate neoangiogenesis. In addition to the direct mechanisms through special cells, there are also numerous secretion factors that have a positive and negative influence. In this Special Issue, we will discuss the opportunities to improve tissue perfusion and regeneration. We will also attempt to understand better the flow properties of blood and the relationship to normal physiology, including the rheology of fluid in the pervascular and interstitial spaces as well as the lymphatic system. In addition, we will look at the latest methods for monitoring tissue perfusion.

Guest Editor

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