

Special Issue

Bioengineering and the Eye— 3rd Edition

Message from the Guest Editor

This Special Issue is the third edition of the previous release of “Bioengineering and the Eye” and “Bioengineering and the Eye—2nd Edition”. The field of eye regeneration is experiencing a surge of innovation, with tissue engineering and bioengineering offering promising solutions for debilitating conditions like corneal damage and retinal degeneration. Recent breakthroughs encompass stem cell therapies, the development of functional ocular tissue equivalents, and the application of advanced biomaterials as well as 3D bioprinting. Despite this progress, significant hurdles persist. Achieving the long-term, functional integration of engineered tissues with existing ocular structures and mitigating immune rejection remain key challenges that researchers are actively addressing. A large host of concepts and technologies remain unexplored. The third edition of this Special Issue calls for original research articles, as well as reviews, that tackle ocular problems using bioengineering/biomedical/tissue engineering approaches.

Guest Editor

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