

Special Issue

Emerging Imaging Techniques in Reconstructive Microsurgery

Message from the Guest Editor

Emerging imaging technologies are playing a growing role in advancing the safety, precision, and outcomes of reconstructive microsurgery. This Special Issue aims at highlighting recent developments and clinical applications of imaging modalities that assist in preoperative planning, intraoperative navigation, and postoperative assessment in reconstructive procedures. Techniques such as high-resolution ultrasound, indocyanine green (ICG) angiography, dynamic infrared thermography, MRI, and novel 3D imaging systems are increasingly used to evaluate vascular status, optimize flap design, and monitor tissue perfusion. These tools contribute to better decision-making, reduced complication rates, and improved surgical results. This collection will focus on both experimental and clinical research, including case series, original studies, and comprehensive reviews that explore the utility, limitations, and future directions of imaging in microsurgery. Contributions from various surgical subspecialties, including plastic, orthopedic, and head and neck reconstruction, are welcome.

Guest Editor

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