

Special Issue

Innovations in Amputation Care

Message from the Guest Editors

Due to increasing numbers of vascular and metabolic disease, continuous military conflicts worldwide, and failing former limb-salvaging reconstructions, amputation is one of the most common surgical interventions in hospital operating rooms worldwide. Rehabilitation starts with a multiprofessional team in the planning of the surgery and/or fitting: informed patient consent, involving peers, appropriate postoperative care with early shaping of the residual limb, evaluation using computer-assisted gait analysis for the selection of the appropriate prosthesis, and adaption to the rehabilitation training of upcoming techniques such as motor imagery. Innovations such as targeted muscle or sensory reinnervation (TMR, TSR), bone anchored prosthesis (BAP), agonist–antagonist myoneural interface (AMI), and regenerative peripheral nerve interfaces (RPNI) are examples of the successful and innovative confluence of surgery and technology, which can be used for enhanced functionality and acceptance of the prosthesis and seem to decrease amputation-related pain.

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Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Scientific discoveries and advances in this research field play a critical role in providing a rational basis for informed decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards.

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Editor-in-Chief

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