

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.

Guest Editors

Dr. Gerhard M. Hobusch

Department of Orthopedics and Trauma Surgery, Medical University of Vienna, 1090 Vienna, Austria

Dr. Jennifer Ernst

Department of Trauma Surgery, Medical School Hannover, Hannover, Germany

Deadline for manuscript submissions

closed (31 January 2025)



International Journal of Environmental Research and Public Health

an Open Access Journal
by MDPI

CiteScore 7.3
Indexed in PubMed



mdpi.com/si/119169

*International Journal of
Environmental Research and
Public Health*

MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
ijerph@mdpi.com

[mdpi.com/journal/
ijerph](https://mdpi.com/journal/ijerph)





International Journal of Environmental Research and Public Health

an Open Access Journal
by MDPI

CiteScore 7.3
Indexed in PubMed



[mdpi.com/journal/
ijerph](https://mdpi.com/journal/ijerph)



About the Journal

Message from the Editor-in-Chief

Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Discovery and advances in this research field play a critical role in providing a scientific basis for decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards. *IJERPH* provides a forum for discussion of discoveries and knowledge in these multidisciplinary fields. Please consider publishing your research in this high quality, peer-reviewed, open access journal.

Editor-in-Chief

Prof. Dr. Paul B. Tchounwou

RCMI Center for Urban Health Disparities Research and Innovation,
Richard N. Dixon Research Center, Morgan State University, Baltimore,
MD 21251, USA

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, PubMed, MEDLINE, PMC, Embase, GEOBASE, CAPlus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q1 (Public Health, Environmental and Occupational Health)