

Special Issue

Advances in Regenerative Medicine in Disease Treatment: Harnessing Potential and Bridging Challenges

Message from the Guest Editors

Regenerative medicine exhibits the remarkable potential to treat previously incurable diseases by restoring tissue and organ function. Recent breakthroughs in stem cells, biomaterials, molecular therapies, and tissue engineering have unlocked novel clinical translation pathways. However, realizing this potential requires various challenges related to safety, efficacy, scalability, and regulation to be overcome.

This Special Issue aims to provide an overview of innovative research in regenerative research that accelerates the development of transformative therapies. The scope of this Special Issue includes, but is not limited to, the following topics: Elucidating molecular mechanisms guiding tissue regeneration and disease pathogenesis; Crafting targeted delivery systems enabling precise and safe therapeutics; Strategies to modulate immunity for enhanced repair while reducing rejection; Personalized approaches for individualized precision medicine.

Guest Editors

Dr. Edward H. Ntege

1. Department of Plastic and Reconstructive Surgery, Graduate School of Medicine, University of the Ryukyus, 1076 Kiyuna, Ginowan, Okinawa 901-2720, Japan

2. Department of Oral and Maxillofacial Surgery, Graduate School of Medicine, University of the Ryukyus, 1076 Kiyuna, Ginowan, Okinawa 901-2720, Japan

Prof. Dr. Adrian Neagu

Department of Functional Sciences, Victor Babes University of Medicine and Pharmacy Timisoara, Piata Eftimie Murgu No. 2-4, 300041 Timisoara, Romania

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

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Editor-in-Chief

Prof. Dr. Lluís Ribas de Pouplana

Institute for Research in Biomedicine (IRB Barcelona), The Barcelona
Institute of Science and Technology, 08028 Barcelona, Spain

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