

Special Issue

Next Generation Approaches for Cartilage Regeneration

Message from the Guest Editors

This Special Issue aims to compile cutting-edge research that bridges regenerative strategies for cartilage repair with biopharmaceutical innovation. We particularly emphasize work that highlights the therapeutic and molecular underpinnings of next-generation approaches: for example, the mechanism of action and pharmacological potential of bioactive molecules in chondrogenesis, the biopharmaceutical applications of stem cell/gene engineering (beyond structural tissue engineering), and how biomaterials enhance the delivery, stability, or efficacy of therapeutic interventions. We invite submissions of original research, review articles, and preclinical/clinical evaluation studies that advance understanding of the following: (1) molecular targets and signaling pathways governing cartilage development and repair; (2) design and optimization of biopharmaceutical-based approaches (e.g., peptide/protein/nucleic acid therapies, engineered cell products) for cartilage engineering; (3) preclinical validation of regenerative strategies with translational potential; (4) integration of biomaterials with therapeutic agents to improve cartilage repair outcomes.

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Editor-in-Chief

Prof. Dr. Amélia Pilar Rauter

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