

## Special Issue

# Advances of Hyaluronan in Tissue Regeneration

### Message from the Guest Editors

Hyaluronan is one of the major polysaccharides in the extracellular matrix ubiquitously present in the joints and other parts of the human body, including the skin, eyes, bones, and cartilage. This polymer is essential for normal homeostasis and is implicated in multiple inflammatory and degenerative diseases and cancer. Thus, this sugar molecule has received significant attention in biomedical research, and cutting-edge discoveries in hyaluronan-based medical devices (e.g., hydrogels, injections, dermal fillers) and drug discovery (biologics, small molecules, peptides) for a wide range of therapeutic purposes promise a revolutionary change in regenerative medicine. This Special Issue will publish high-quality original research papers and review articles on breakthrough applied research exploring the importance of hyaluronan in tissue regeneration. The following topics will be covered in this Special Issue:

- Hyaluronan signaling in tissue regeneration;
- Wound healing;
- Hyaluronan impact on inflammation and degenerative diseases;
- Hyaluronan mechanobiology;
- Stem cells;
- Biomedical application of hyaluronan-based medical products in tissue regeneration.

### Guest Editors

Dr. Kaustuv Basu

Prof. Dr. Paraskevi Heldin

Dr. Davide Vigetti

### Deadline for manuscript submissions

closed (29 November 2024)



## Applied Sciences

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## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

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