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Human Extracellular Matrix in Homeostasis and Pathology

Guest Editors:

Dr. Larisa M. Haupt

Centre for Genomics and Personalised Health, Genomics Research Centre, School of Biomedical Sciences, Max Planck Queensland Centre, Queensland University of Technology (QUT), Queensland, 60 Musk Ave., Kelvin Grove, Brisbane, QLD 4059, Australia

Dr. Amaia Cipitria

Ikerbasque Research Associate, Leader of the Bioengineering in Regeneration and Cancer Group, Biodonostia Health Research Institute, Paseo Doctor Beguiristain s/n, 200014 San Sebastián, Spain

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Message from the Guest Editors

Dear Colleagues,

It is well established that complex intercellular interactions, as well as biomolecular and biomechanical cues from the extracellular matrix, dictate the growth and maintenance of all tissues through bidirectional signaling, mediated by the physical properties of the ECM along with its biochemical composition. Many cell culture models, including ex vivo organoids, have improved our understanding of ECM development and homeostasis; however, they do not replicate the complex microenvironment of the native ECM across individual tissue types. This Special Issue aims to explore current efforts used to bridge this gap in knowledge across multiple disciplines, including cell biology, genomics, biomechanical and biophysical characterisation, 3D cell culture, and bioengineered smart materials.

Dr. Larisa M. Haupt

Dr. Amaia Cipitria

Guest Editors



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Special Issue



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Prof. Dr. Felipe Fregni

1. Neuromodulation Center and
Center for Clinical Research
Learning, Spaulding
Rehabilitation Hospital and
Massachusetts General Hospital,
Harvard Medical School, Boston,
MA 02114, USA
2. Department of Epidemiology,
Harvard T.H. Chan School of
Public Health, Boston, MA 02115,
USA

Message from the Editor-in-Chief

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Biomedicines Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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