



Bone Histogenesis and Regeneration

Guest Editors:

Prof. Carla Palumbo

Department of Biomedical,
Metabolic and Neural Sciences,
Section of Human Morphology,
University of Modena and Reggio
Emilia, Largo del Pozzo 71, 41124
Modena, Italy

Dr. Alberto Smargiassi

Indiana Center for
Musculoskeletal Health, IUPUI,
Indianapolis, IN, USA

Deadline for manuscript
submissions:

closed (31 March 2021)

Message from the Guest Editors

Dear Colleagues,

The sophisticated processes leading to bone histogenesis (during skeletal organogenesis and bone turnover) and bone regeneration (after injuries or bone diseases) are currently not fully elucidated. Collecting data from different fields (morphofunctional investigations, biomolecular analysis, clinical experimentations) is crucial to obtain interdisciplinary approaches with the final goal to improve tissue engineering strategies, in particular aimed at bone regeneration. This is particularly pivotal in a society with prolonged life expectancy, having the consequence to observe various pathologies, increasingly affecting the aging subjects. Focusing on the skeletal system, not only does bone fragility induce more susceptibility to fractures (often not accompanied by a good self-repairing ability), but metabolic imbalances also often induce failed bone regeneration. We hope that researchers with different expertises will consider contributing to this Special Issue, as it is only by sharing knowledge that we can hope to solve the problem of bone regeneration in critical conditions.

Prof. Carla Palumbo
Dr. Alberto Smargiassi





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

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.

Author Benefits

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

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us

Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](https://twitter.com/AtApplsci)