



Application of Bioengineering to Clinical Orthodontics

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Deadline for manuscript
submissions:

closed (30 April 2024)

Message from the Guest Editor

Dear Colleagues,

The World Health Organization (WHO) considers malocclusion one of the most important oral health problems. It is not only young patients who have orthodontic treatment needs, but also quite a few of adults. During orthodontic treatment, alveolar bone and periodontal tissues undergo remodeling under mechanical force loading. With the recent technology development, remarkable breakthroughs have been achieved in the fields of dental tissue engineering, introducing exciting changes to the field of orthodontics. On the other hand, research on the mechanism of orthodontic tooth movement is also providing input to other dental fields and fields beyond dentistry that involve bone biology.

This Special Issue aims to publish high-quality original research work, case reports, as well as reviews on the range of bioengineering methods and their applications in orthodontics and bone remodeling. Topics of interest include but are not limited to:

- Application of bioengineering models for tooth movement;
- Biomolecular and cellular mechanisms in orthodontics;
- Computational approaches in tooth movement;
- Orthodontic biomechanics.





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Message from the Editor-in-Chief

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