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Biomechanics of Orthopaedic Rehabilitation

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Message from the Guest Editor

Osteoarthritis (OA) is one of the most common orthopaedic diseases affecting lower extremity joints, especially the knee and hip. There is currently no cure for OA. Pharmaceutical and non-pharmaceutical therapies are often recommended for patients with earlier stages of OA. While joint arthroplasty including partial and total knee arthroplasty (TKA) and total hip arthroplasty (THA) arthroplasty is a popular choice for end-stage OA, post-surgery rehabilitation remains a challenge to the patients and clinicians.

This Special Issue of “Biomechanics of Orthopaedic Rehabilitation” focuses on advances in biomechanics of rehabilitations related to joint arthroplasty and OA. The topics of this Special Issue are broadly defined and some suggested (but not limited) topics are listed below.

- Gait rehabilitation;
- Cycling-related applications in rehabilitation;
- Muscle activation inhibition and kinesiophobia;
- Edema and pain;
- Muscle strengthening and conditioning;
- Surgical techniques;
- Implant designs.



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Special Issue



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Message from the Editor-in-Chief

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