



## Biomaterials Used in Clinical Practice and Their Tribological Behaviours Assessed In Vitro, In Silico, and In Vivo

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### Message from the Guest Editor

Joint replacement surgeries (hip, knee, ankle, etc.) are a successful and consolidated branch of orthopedics. The progressive achievement in alleviating pain and disability helps patients to return to an active life. Research in new biomaterials plays an important role, and as a consequence, in vitro and in silico tests for such materials are of great importance. The knowledge of the laboratory wear rate is an important aspect in the preclinical validation of prostheses. Research and development of wear-resistant materials continues to be a high priority in order to evaluate the performance of new materials intended to reduce wear, which is essential to ascertaining their efficacy and preventing the possibility of unexpected failure. Obviously, wear tests have a long duration, and they are very expensive.

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Dr. Saverio Affatato  
*Guest Editor*





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## Message from the Editor-in-Chief

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