

# Special Issue

## Methods, Protocols, and Analytical Approaches for the Assessment of Human Movement

### Message from the Guest Editors

The study of human movement relies on a diverse range of research methods and principles aimed at understanding, analyzing and enhancing athletic performance or recreational physical activity, optimizing movement specificity as well as preventing excessive occupational workload. These methodologies employ tools from biomechanics, kinesiology and exercise physiology, allowing scholars and practitioners to explore various facets of human movement. Broadened knowledge on basic biomechanical models describing movement efficiency, i.e., the spring mass model, offers a springboard to movement of lower risk injury and balanced energy cost. Advancements in technology have significantly influenced human movement research. The integration of wearable devices, accelerometers and GPS tracking has enhanced data collection in both laboratory and field settings. These technological tools allow for assessment through continuous monitoring of movement patterns, providing valuable insights into real-world human movement behaviors and recognition of movement patterns.

### Guest Editors

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### Deadline for manuscript submissions

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## Methods and Protocols

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## About the Journal

### Message from the Editor-in-Chief

*Methods and Protocols* (ISSN 2409-9279) is an open access journal devoted to the publication of new procedural approaches and cutting-edge methodological developments. The ultimate objective of this new forum of scientific communication is to provide researchers with an indispensable tool, enabling better use of the latest scientific technologies. With a broad and totally interdisciplinary focus, *Methods and Protocols* was established with the objective of facilitating cross-fertilization and cross-talk in the scientific arena. Methods and protocols in Life Sciences, Chemistry, Biomedical Sciences, Engineering, and in their intersections such as Biotechnology and Nanotechnology will constitute the core of the journal. However, we anticipate that other fundamental disciplines such as Physics or Geology will be rapidly incorporated.

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### Editor-in-Chief

Prof. Dr. Fernando Albericio  
School of Chemistry and Physics, University of KwaZulu-Natal, Durban,  
South Africa

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