

## Special Issue

# Neurorehabilitation, Physical Activity & the Brain: The Effects of Exercise on Cognitive Performance

### Message from the Guest Editor

Rehabilitation, activity and exercise have traditionally been linked with physical performance. However, there is a growing body of evidence supporting the cognitive gains that can be achieved with physical exercise. These benefits tend to vary across a continuum of healthy and disordered populations. Thus, the focus of this Special Issue is to uncover the impact of physical activity on cognitive processes within populations of young and older healthy adults. Equally important are the benefits for cognitive performance that can be achieved with neurorehabilitation in acute neurological populations (such as stroke), as well as the continuum of neurodegenerative disorders under the dementia and Parkinsonism umbrellas. We invite cutting-edge research which focuses on the biomarkers and prediction of which populations might benefit from physical activity and/or neurorehabilitation; the types of physical activity and neurorehabilitation that enhances aspects of cognitive function; as well as recommendations for outcome measures which are most sensitive to cognitive changes that are ascertained with physical activity and or neurorehabilitation.

### Guest Editor

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### Deadline for manuscript submissions

closed (20 November 2024)



## Brain Sciences

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Impact Factor 2.8  
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Indexed in PubMed



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### Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Brain Sciences* (ISSN 2076-3425). *Brain Sciences* is an open access, peer-reviewed scientific journal that publishes original articles, critical reviews, research notes, and short communications on neuroscience. The scientific community and the general public can access the content free of charge as soon as it is published.

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### Editor-in-Chief

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