







an Open Access Journal by MDPI

# Mechanisms and Application of Clinical Neurophysiology: State of the Art

Guest Editor:

#### Dr. Giovanni Cirillo

Division of Human Anatomy-Neuronal Networks Morphology and Systems Biology Lab, Department of Mental, Physical Health and Preventive Medicine University of Campania "Luigi Vanvitelli", 80138 Naples, Italy

Deadline for manuscript submissions:

closed (30 December 2020)

## **Message from the Guest Editor**

Despite enormous advances in neuroimaging over the past 25 years, clinical neurophysiology is still one of the main diagnostic tools of the clinical neurologist.

Examination in the clinical neurophysiology field demands specific technical training and a very precise clinical framework for patients' care: in other words, clinical neurophysiology is thought of as an extension of the neurologic evaluation.

Clinical neurophysiology is required for the diagnosis of neuromuscular/peripheral and central nervous system disorders, as well as to quantify, monitor, and follow the progression of such conditions. Moreover, non-invasive brain stimulation techniques, mainly through electric and magnetic fields, have demonstrated therapeutic efficacy due to their long-term neurobiological after-effects.

Despite a large knowledge of the technical aspects, the mechanisms leading to therapeutic benefits are far from being fully elucidated, and only the clinical and experimental application of clinical neurophysiology techniques will increase our understanding of how the central nervous system operates.













an Open Access Journal by MDPI

### **Editor-in-Chief**

Prof. Dr. Stephen D. Meriney Department of Neuroscience, University of Pittsburgh, Pittsburgh, PA 15260, USA

## **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.

#### **Author Benefits**

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, PSYNDEX, CAPlus / SciFinder, and other databases.

**Rapid Publication:** manuscripts are peer-reviewed and a first decision is provided to authors approximately 12.9 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the first half of 2024).

#### **Contact Us**