

Special Issue

Research Updates in Vestibular Dysfunction: Diagnostic Breakthroughs

Message from the Guest Editors

Vestibular dysfunction, characterized by vertigo and postural instability, is prevalent among middle-aged and older adults, posing a heightened risk of falls and contributing to injury and disability. Despite its clinical significance, the development of precise diagnostic and therapeutic strategies remains hindered by gaps in understanding the molecular and cellular mechanisms underlying these disorders. This Special Issue focuses on advances in molecular and pathological diagnostics for vestibular dysfunction, including: Novel biomarkers (e.g., proteomic, genetic, and inflammatory markers) for early detection and subtype classification. Emerging imaging and lab-based techniques (e.g., high-resolution vestibular testing, omics approaches) to improve diagnostic accuracy. Mechanistic insights into vestibular disorders such as Meniere's disease, BPPV, vestibular migraine, and PPPD, with a focus on translating research into clinical applications. We welcome fundamental and clinical studies, as well as reviews, that explore cutting-edge diagnostic tools, biomarker discovery, and mechanistic research to bridge the gap between laboratory findings and patient care.

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