

Special Issue

Pathology and Molecular Diagnosis of Vascular Diseases

Message from the Guest Editors

Vascular diseases remain a leading cause of morbidity and mortality worldwide. Despite advances in clinical management, early detection and accurate diagnosis remain critical in improving patient outcomes and optimizing therapeutic strategies.

Molecular pathology has emerged as a revolutionary approach, providing deeper insights into the genetic, epigenetic, and biochemical mechanisms underlying vascular disorders such as atherosclerosis, aneurysms, vasculitis, and thrombosis. Innovative diagnostic approaches have revolutionized the identification of biomarkers and disease-specific genomic fingerprints. Recent studies have highlighted the potential to integrate molecular diagnostics into advanced imaging techniques to improve early detection, disease characterization, and treatment monitoring.

Given the urgent need for more effective diagnostic and therapeutic solutions, this Special Issue will showcase high-quality research, systematic reviews, and clinical studies that explore new molecular diagnostic approaches, identify prognostic biomarkers, and evaluate their clinical application in the management of vascular diseases.

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Deadline for manuscript submissions

28 February 2026



Diagnostics

an Open Access Journal
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Impact Factor 3.3
CiteScore 5.9
Indexed in PubMed



mdpi.com/si/232977

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