# Special Issue

# HTAAD: Unraveling the Molecular and Clinical Complexity of Heritable Thoracic Aortic Disease

## Message from the Guest Editors

Thoracic aortic aneurysms are relatively common in the general population. The rupture and/or dissection of these aneurysms are among the most feared complications and remain a leading cause of death in the developed world. The early clinical diagnosis of acute thoracic syndromes—including differential diagnosis with other cardiovascular and non-cardiovascular conditions—and appropriate management may reduce the burden of acute mortality.This Special Issue welcomes the submission of research articles on HTAADs that explore such scenarios using broad-spectrum genetic analyses (e.g., NGS, WES, and WGS) and genotype–phenotype correlations. Studies investigating pathogenic mechanisms using omics technologies (e.g., proteomics and metabolomics) are also relevant. Submissions reporting newly discovered genes, genotype–phenotype correlations in patient cohorts or specific families, in vitro tissue and cell studies, pathological anatomy analyses, imaging studies, and reviews are also welcome. Finally, contributions focused on iconodiagnostics in this clinical context will also be accepted.

## Guest Editors

Prof. Guglielmina Pepe

Prof. Dr. Rossella Fattori

Dr. Stefano Nistri

Prof. Dr. Yskert von Kodolitsch

## Deadline for manuscript submissions

20 November 2025

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*Genes*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
genes@mdpi.com

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## Message from the Editor-in-Chief

*Genes* is central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fast-moving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised. Why not consider *Genes* for your next genetics paper?

## Editor-in-Chief

Prof. Dr. Selvarangan Ponnazhagan
Department of Pathology, The University of Alabama at Birmingham, 1825 University Blvd, SHEL 814, Birmingham, AL 35294-2182, USA

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