

Special Issue

Systems Genomics, Mitochondrial Dysfunction, and Immune Dysregulation in Ehlers–Danlos Syndromes and Heritable Connective Tissue Disorders

Message from the Guest Editor

Ehlers–Danlos syndromes (EDSs) and related heritable connective tissue disorders represent a genetically and clinically heterogeneous group of conditions that remain underdiagnosed and frequently misunderstood. Recent work has begun to uncover complex interactions among extracellular matrix genes; immune dysregulation, including mast cell activation; and mitochondrial dysfunction that may contribute to tissue fragility, pain, dysautonomia, and systemic complications. This Special Issue will highlight advances in gene discovery, variant interpretation, and genotype–phenotype correlations across the EDS spectrum, including hypermobile EDS, as well as insights from multi-omics and functional studies. We welcome original research, comprehensive reviews, and case-based translational studies that integrate genomics with mechanistic and clinical data to refine disease classification, improve diagnostic strategies, and inform precision management. By bringing together experts across genetics, molecular biology, immunology, and clinical medicine, this Special Issue aims to accelerate progress toward better outcomes for individuals living with these challenging disorders.

Guest Editor

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Deadline for manuscript submissions

closed (25 May 2026)

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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

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