Special Issue

Advances in Alpha-1 Antitrypsin Deficiency

Message from the Guest Editor

This Special Issue aims to provide an overview of alpha-1 antitrypsin deficiency, a genetic disorder characterized by liver disease, caused by misfolding and hepatic accumulation of mutant alpha-1 antitrypsin. This results in reduced levels of circulating alpha-1 antitrypsin, which plays a crucial role in protecting the lungs from protease-mediated damage. With contributions from leading researchers, this Special Issue explores the latest findings in the pathophysiology, genetic underpinnings, and clinical manifestations of alpha-1 antitrypsin deficiency. Key topics include advances in diagnostic techniques, such as genetic screening and biomarkers, as well as the role of alpha-1 antitrypsin in inflammatory processes and organ protection. The Special Issue issue also addresses current therapeutic strategies, including enzyme replacement therapy and emerging treatments. By collating cutting-edge research and expert insights, this Special Issue aims to foster a deeper understanding of AATD, ultimately guiding improved clinical practices and outcomes for those affected by alpha-1 antitrypsin deficiency.

Guest Editor

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Deadline for manuscript submissions

28 February 2025

International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 8.1
Indexed in PubMed

mdpi.com/si/219471

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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