# 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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