

Special Issue

Advances in Fabry Disease: From Molecular Insights to Innovative Therapeutics

Message from the Guest Editors

Fabry disease, a rare X-linked lysosomal storage disorder, results from mutations in the GLA gene, leading to deficient α -galactosidase A enzyme activity. This deficiency causes glycosphingolipids to accumulate in various tissues, affecting the kidneys, heart, skin, and nervous system. Recent research has advanced our understanding of Fabry disease's pathophysiology, clinical manifestations, and treatment options, including enzyme replacement therapy (ERT) and chaperone therapy. However, challenges remain in early diagnosis, disease management, and the development of more effective adjuvants and specific treatments. This Special Issue aims to consolidate cutting-edge research and foster multidisciplinary collaboration to address these challenges. Original research articles and reviews that explore novel diagnostic biomarkers, genetic and molecular basis, and innovative therapeutic approaches. Clinical studies that offer new insights and advancements in imaging findings, patient-reported outcomes, and the long-term efficacy of current treatments are also encouraged.

Guest Editors

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Biomedicines (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to *Biomedicines*, be it original research, review articles, or developing Special Issues of current key topics.

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