# Special Issue

# From Liver Transplantation to Gene Therapy: A Therapeutic Revolution in Argininosuccinic Aciduria

## Message from the Guest Editor

This Special Issue aims to focus on the therapeutic revolution in the field of argininosuccinic aciduria (ASA). ASA is the second most common urea cycle disorder, primarily affecting the liver and presenting with systemic manifestations, which highlight the complexity of this disease. Recent years have seen remarkable progress; clinical studies have demonstrated neurological benefits following liver transplantation, while innovative gene-based approaches—including AAV- and lentiviral-mediated therapies, mRNA replacement, and gene editing—are offering new hope for curative, less invasive, and potentially long-term solutions. The aim of this Special Issue is to showcase the latest discoveries regarding ASA, ranging from advances in understanding its underlying mechanisms, within and beyond the liver, to the development of transformative therapeutic strategies. We invite contributions ranging from original research articles to comprehensive reviews that highlight these exciting developments and their potential to reshape the future of ASA treatment. We look forward to receiving your contributions.

## Guest Editor

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## Deadline for manuscript submissions

31 March 2026

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*Cells* has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

## Editors-in-Chief

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