

Ion and Molecule Transport in Lysosomes

Lysosomes are key subcellular organelles that regulate many essential activities of the cell. Lysosome dysfunction is linked to multiple diseases—lysosome storage disorders, neurodegeneration, immunological diseases, and cancer. This book discusses concepts and methods used to study lysosome ion and small molecule transport. The contents will not only attract accomplished investigators in need of a broad review and synthesis of this important subject, but also will appeal to young investigators and trainees needing to acquire comprehensive knowledge and technical skills working with lysosomal ion channels and small molecule transporters.

Key Features

- Summarizes the roles lysosomes play in vesicle trafficking, cell metabolism, and waste disposal
- Reviews essential cellular functions of lysosomal ion channels and small molecule transporters
- Explores how dysfunction in lysosomal ion and small molecule transport underlies metabolic and lysosome storage disorders
- Describes various technologies and methods used in lysosome ion and small molecule transport research

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