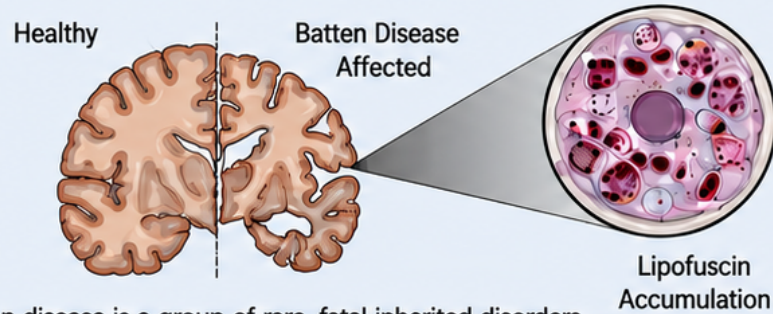
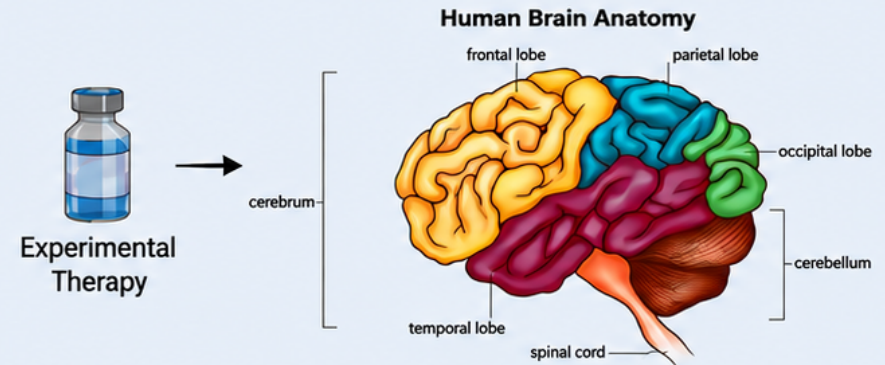


1. BATTEN DISEASE



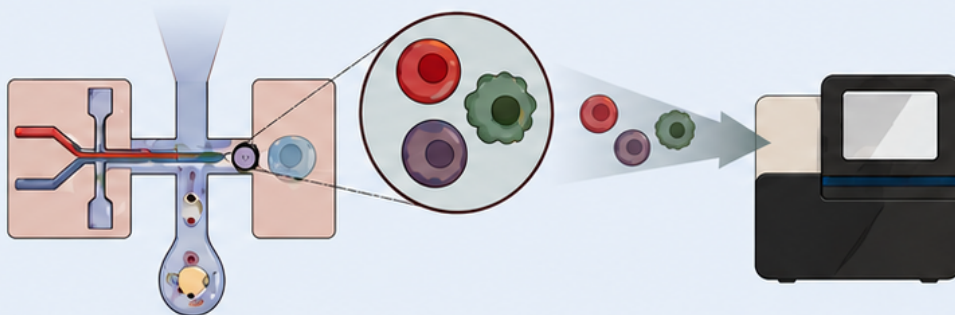
Batten disease is a group of rare, fatal inherited disorders of the nervous system. These neurodegenerative diseases are characterized by a profound progressive brain atrophy and the harmful accumulation of storage material (lipofuscin), wide range of debilitating symptoms. Postmortem central nervous system (CNS) tissue is unlocking pathobiology of this condition.

2. RESEARCH FRAMEWORK: Tissue & Therapy Insights



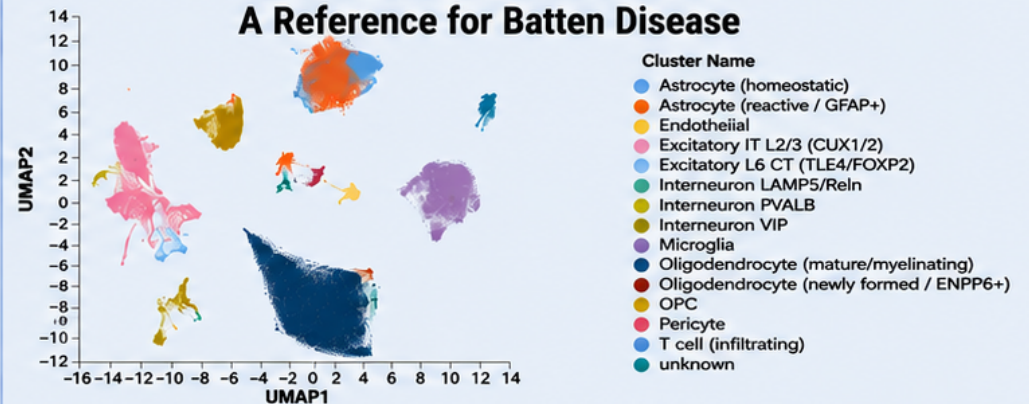
Our integrated research program utilizes rare, high-quality postmortem CNS tissue to investigate the cellular pathobiology of Batten disease and characterize biological responses to therapies, providing a vital foundation for translating research into patient care.

3. SINGLE CELL RNA SEQUENCING



Using 10X Genomics single-cell RNA-sequencing (scRNA-seq), we profile the unique transcriptomes of tens of thousands of individual cells to identify disease-specific cellular vulnerabilities and measure treatment effects.

4. CELLULAR BATTEN ATLAS: A Reference for Batten Disease



A comprehensive study of disease-targeted therapies across the central nervous system using treated and untreated postmortem tissues. This work has generated the first high-resolution atlas of cellular and molecular dysfunction in Batten disease and its response to precision therapies.