# What is Krabbe Disease?



#### There are several forms of Krabbe disease that range in severity

## **HOW CAN GENE THERAPY HELP?**

Gene therapy represents a promising new therapy with the potential to significantly slow or stop progression of neurological and other deficits and to improve quality of life. While several approaches to Krabbe disease gene therapy are being developed, intrathecal gene therapy strives to deliver functional copies of the GALC gene to the brain via the cerebrospinal fluid.



1.

produced



gene is inserted into a harmless Adeno-Associated Virus (AAV) to create a viral vector

5.



2.

some cells take up AAV vector and begin to make functional galactosylceramidase enzyme, which is released into the CSF



AAV vector is injected into the cerebrospinal fluid (CSF) that flows around the brain and spinal cord



the secreted enzyme can be used by other cells throughout the brain and spinal cord which may slow or stop progression of the disease

### **Safety First**



Safety is currently being evaluated in animal models

Preclinical data in animal models shows very promising results, such as extended life expectancy and significant improvement in quality of life

### What's next?



Early clinical trials to evaluate the safety of gene therapy in Krabbe patients are on the horizon





4.