

# PROGRESS IN PRE-CLINICAL RESEARCH

## Partnering with Believe in a Cure to Fight Rare Genetic Disorders

### OUR PARTNER

#### Believe in A Cure

At the Aidyn Mae Hope Fund, we are dedicated to finding a cure for FOXG1 Syndrome through innovative research and community-driven support. Inspired by Aidyn Mae Gottlieb's journey, our organization works tirelessly to fund groundbreaking therapies in partnership with Believe in a Cure. This document highlights our latest pre-clinical research progress and explains why your continued support is vital to advancing into human clinical trials.

### BREAKTHROUGHS

#### In Pre-clinical Research

Recent research conducted by Believe in a Cure has led to exciting advancements in gene therapy for FOXG1 syndrome, a rare neurological disorder caused by mutations in the FOXG1 gene. The study demonstrates that AAV FOXG1 gene replacement therapy can restore brain function and improve key behavioral deficits in animal models of the disease.

### BEHAVIORAL IMPROVEMENTS

By delivering a functional copy of the FOXG1 gene directly into the brain, researchers observed significant improvements in treated mice:

#### Increased Exploratory Behavior

Mice treated with gene therapy traveled more distance and exhibited increased rearing behavior during open field tests. These results suggest reduced anxiety and improved willingness to explore their environment.

#### Enhanced Motor Skills

Grip strength tests revealed significant improvements in muscle control and coordination among treated mice compared to untreated controls.

#### Improved Cognitive Function

In Y-maze tests, treated mice demonstrated enhanced spatial learning and memory, showing greater ability to navigate and recall pathways.



### OUR MISSION

Aidyn Mae Hope Fund was created to honor Aidyn Mae and provide hope to children affected by FOXG1 Syndrome.

### WE FOCUS ON:

- **Funding Research:** Supporting cutting-edge science aimed at curing genetic disorders.
- **Raising Awareness:** Educating communities about the challenges faced by families like ours.
- **Building Community:** Hosting events that bring people together for a shared purpose—hope and healing.

Together, we are working toward a future where no child has to suffer from FOXG1 Syndrome.



Read breakthrough study [here](#) or scan the QR code.

These findings represent a critical milestone because they demonstrate not only biological changes but also measurable improvements in behaviors directly related to FOXG1 syndrome symptoms. This is the first evidence showing that gene therapy can address core deficits associated with this devastating condition.

# THE ROAD AHEAD

## Why We Need Your Support

While these pre-clinical results are encouraging, transitioning from laboratory research to human clinical trials is a challenging and expensive process.

### HERE'S WHAT LIES AHEAD:

- **FDA Approval Process:** Before testing therapies in humans, rigorous safety and efficacy standards must be met.
- **Human Clinical Trials:** These trials involve multiple phases and require substantial funding for manufacturing, testing, and compliance.
- **Scaling Up Production:** Producing gene therapies for clinical use demands specialized facilities and expertise.

Your contributions directly support these efforts, helping us take critical steps toward FDA-approved treatments that can transform lives.



### HOW YOU CAN MAKE AN IMPACT

The Aidyn Mae Hope Fund relies on community support to fund research and raise awareness

#### Participate in Events

Join us at local fundraisers like charity runs, bake sales, and family fun days—every event helps us move closer to our goal.

#### Spread Awareness

Share Aidyn Mae's story and our mission with your friends, family, and social networks

#### Donate Today

Every dollar raised supports research that could lead to life-saving treatments.



### THANK YOU FOR SUPPORTING OUR MISSION

The progress we've made would not be possible without your generosity and belief in our cause. Together, we can turn hope into action—bringing cures closer for children like Aidyn Mae. Thank you for being part of this journey!

Visit our website for more information about upcoming events, donation opportunities, or ways to get involved.

