

Introduction to Entrada and the Endosomal Escape Vehicle (EEV™) Platform to Enhance Oligonucleotide Delivery in Myotonic Dystrophy Type I

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MEET ENTRADA





Our Commitment

- Developing treatments for people living with devastating diseases for which no or insufficient options currently exist
- Partnering with patient communities to ensure the perspectives of patients and their loved ones inform our research programs



Our Culture

- We are building a company culture where everyone can belong, contribute and grow
- Fostering a workplace environment that embraces diversity, equity and inclusion
- Prioritizing the experiences and perspectives of patients and their loved ones



Our Team

- ~130 employees with an experienced leadership team
- Recognized as a Top Place to Work 2021 by The Boston Globe
- Entrada plans to move our science from the lab to the clinic over the next year for two neuromuscular conditions

OUR COMMITMENT TO THE DM1 COMMUNITY



Our partnerships with community leaders and patient advocacy organizations are at the heart of our work to bring innovative therapies to people living with devastating diseases

As we progress our research program from the lab to the clinic, we look forward to learning from the experiences of individuals living with myotonic dystrophy type 1 (DM1) and their families, and to keeping you informed of our progress.

We are proud to partner with the **Myotonic Dystrophy Clinical Research Network (DMCRN)** to study the natural history of myotonic dystrophy Type 1 through END-DM1. Thank you to those who have contributed to this important resource!

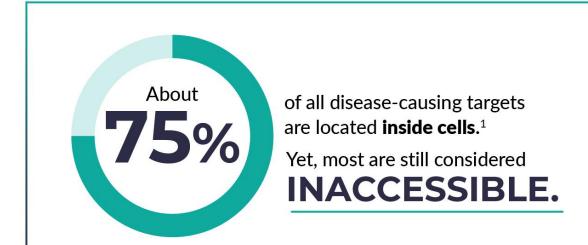
PURSUING A TREATMENT OPTION FOR PEOPLE LIVING WITH DM1

- ENTR-701 is a potential approach to treating individuals with DM1
- Our preclinical studies in animal models of DM1 support moving this work into human studies
- We are planning an Investigational New Drug (IND) application in 2023 for ENTR-701

THE CHALLENGE WITH DRUG DELIVERY



Oligonucleotides offer a therapeutic approach to treat genetic disorders such as DM1. However, they often cannot effectively reach the disease-causing targets inside cells



There are two major challenges to delivering a therapy to a target within the cell:

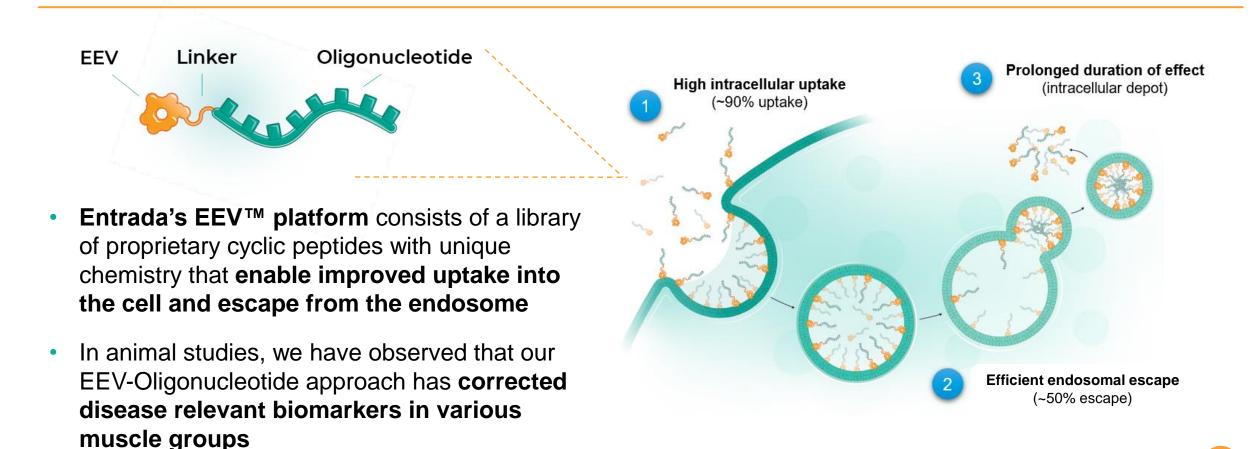
- 1 Getting the therapy inside the cell.
- 2 Most importantly, avoiding the cell's natural clearing system.

At Entrada Therapeutics, we believe we have discovered the solution.

ENDOSOMAL ESCAPE VEHICLE (EEV™) PLATFORM



We are developing EEV-oligonucleotide conjugates for the treatment of individuals with DM1



DNA AND RNA PLAY IMPORTANT ROLES IN THE CREATION OF PROTEINS



Deoxyribonucleic acid (DNA)



Genes or short sections of **DNA** carry genetic instructions

Messenger ribonucleic acid (mRNA)



Genes are transcribed to **mRNA**, a single-stranded copy of the genetic instructions

stage of this process can interfere with important cellular processes and cause disease

TRANSLATION

Protein

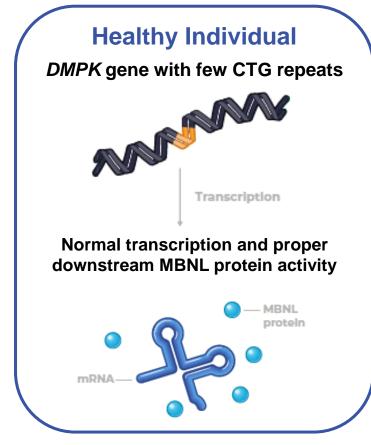


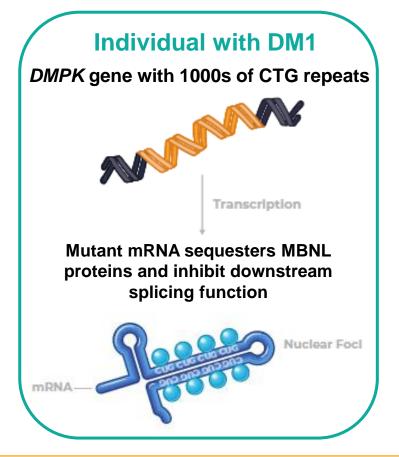
mRNA is then translated into the associated **protein** molecule

DM1 OVERVIEW AND OUR THERAPEUTIC APPROACH



Myotonic Dystrophy Type 1 (DM1) is a multisystemic disease caused by CUG trinucleotide repeats in *DMPK* mRNA that sequester MBNL proteins





ENTR-701 Approach in DM1 ENTR-701 is a CUG repeat blocking oligonucleotide conjugated to our EEV

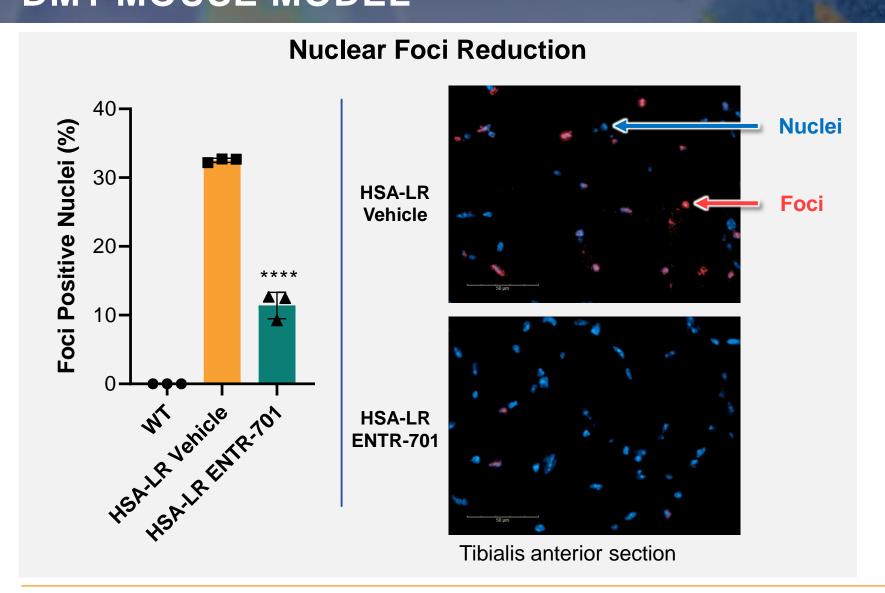


ENTR-701 blocks mutant DMPK mRNA and reduces nuclear foci, restores MBNL function and splicing defects



PROMISING EFFICACY DATA OF ENTR-701 IN A DM1 MOUSE MODEL





Our data in DM1 mouse model showed:

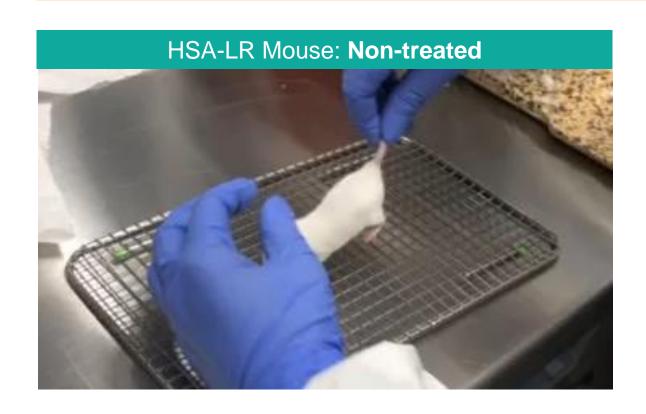
- Dose-dependent reduction of nuclear foci (left)
- Reduced CUG-repeat containing DMPK mRNA
- Correction of aberrant splicing

Visit us at the poster session to learn more!

MYOTONIA CORRECTION IN A DM1 MOUSE MODEL



A single dose of ENTR-701 ameliorated pinch-induced myotonia for at least 8 weeks





OUR PRECLINICAL DATA SUPPORT ADVANCEMENT OF ENTR-701



Single Dose of ENTR-701 Demonstrates Prolonged Effect for >8 Weeks



Substantial reduction of nuclear foci, CUG-repeat-specific mRNA reductions and robust splice correction, which may indicate restoration of MBNL protein function



Myotonia correction in a DM1 mouse model following a single dose of ENTR-701



We plan to submit an Investigational New Drug (IND) application in 2023

Phase 1/2 ascending dose studies of ENTR-701 will assess safety, tolerability and pharmacokinetics, mRNA knockdown and spliceopathy in adults living with DM1*

THANK YOU FROM THE WHOLE ENTRADA TEAM!



Please visit us during the upcoming poster and exhibitor session!





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For questions, contact:

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