#### **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

WASHINGTON, D.C. 20549

FC	ORM 8-K	

**CURRENT REPORT** Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): January 13, 2025

## Design Therapeutics, Inc.

(Exact name of Registrant as Specified in Its Charter)

Delaware (State or Other Jurisdiction of Incorporation) 001-40288

82-3929248 (IRS Employer Identification No.)

6005 Hidden Valley Road Suite 110 Carlsbad, California (Address of Principal Executive Offices)

92011 (Zip Code)

Registrant's Telephone Number, Including Area Code: (858) 293-4900

N/A

	(Form	ner Name or Former Address, if Changed Si	ace Last Report)
Che	neck the appropriate box below if the Form 8-K filing is intended to simulation	ultaneously satisfy the filing obligat	ion of the registrant under any of the following provisions:
	Written communications pursuant to Rule 425 under the Securities A	ct (17 CFR 230.425)	
	Soliciting material pursuant to Rule 14a-12 under the Exchange Act (	(17 CFR 240.14a-12)	
	Pre-commencement communications pursuant to Rule 14d-2(b) unde	er the Exchange Act (17 CFR 240.14	d-2(b))
	Pre-commencement communications pursuant to Rule 13e-4(c) unde	r the Exchange Act (17 CFR 240.13	e-4(c))
	Securiti	es registered pursuant to Section	12(b) of the Act:
		Trading	
	Title of each class	Symbol(s)	Name of each exchange on which registered
	Common Stock, \$0.0001 par value per share	DSGN	Nasdaq Global Select Market
nd	ticate by check mark whether the registrant is an emerging growth comp	pany as defined in Rule 405 of the S	ecurities Act of 1933 (\$230 405 of this chapter) or Rule 12h-2 of the Securities

Exchange Act of 1934 (§ 240.12b-2 of this chapter).

Emerging growth company ⊠

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. ⊠

#### Item 7.01 Regulation FD Disclosure.

On January 13, 2025, Design Therapeutics, Inc. (the "Company") updated its corporate presentation for use in meetings with investors, analysts and others. A copy of the updated presentation is attached as Exhibit 99.1 to this Current Report on Form 8-K.

The information under this Item 7.01 of this Current Report on 8-K, including Exhibit 99.1, is furnished and shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), or otherwise subject to the liabilities of that Section, nor shall it be deemed incorporated by reference into any filing under the Exchange Act or the Securities Act of 1933, as amended, whether filed before or after the date hereof and regardless of any general incorporation language in such filing.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits

Exhibit No. Description

99.1 <u>Company Presentation</u>

104 Cover Page Interactive Data File (embedded within the Inline XBRL document)

#### SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized.

Design Therapeutics, Inc.

Date: January 13, 2025 By: /s/ Pratik Shah, Ph.D.

Pratik Shah, Ph.D.

President, Chief Executive Officer and Chairperson





# DESIGNING A NOVEL CLASS OF GENOMIC MEDICINES FOR GENETIC DISORDERS

1Q2025

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#### **Disclaimers**

This presentation contains forward-looking statements. All statements other than statements of historical facts contained in this presentation are "forward-looking statements" at the statements of historical facts contained in this presentation are "forward-looking statements". within the meaning of the Private Securities Litigation Reform Act of 1995. These statements include, but are not limited to projections from early-stage programs, preclinical data and early-stage clinical data; the therapeutic potential of DT-216P2; expectations for initiating clinical trials for DT-216P2; the potential benefits of restoring FXN in FA patients; DT-216P2's potential to be a promising candidate for future treatment of FA patients; Design's FECD GeneTAC® program and its potential therapeutic benefits and advantages, expectations for reporting data for the FECD Phase 1 clinical trial and the timing thereof, the impact of Design's FECD observational study on a clinical program for FECD Design's DM1 and HD GeneTAC® programs and their potential therapeutic benefits and advantages; the expectations for selecting a development candidate for Design's DM1 program; Design's ability to deliver on its short- and long-term goals; Design's ability to design and tailor GeneTAC® molecules from our novel platform to address diverse monogenic diseases; projected R&D spend; Design's estimated financial runway and the sufficiency of its resources to support its planned operations; Design's ability to execute multiple programs through human proof of concept; and the capabilities and potential advantages of Design's pipeline of GeneTAC® molecules. Because such statements are subject to risks and uncertainties, actual results may differ materially from those expressed or implied by such forward-looking statements. Words such as "believes," "designed to," "anticipates," "planned," "expects," "estimate," "intends," "will," "potential" and similar expressions are intended to identify forward-looking statements. These forward-looking statements are based upon Design's current expectations and involve assumptions that may never materialize or may prove to be incorrect. Actual results and the timing of events could differ materially from those anticipated in such forward-looking statements as a result of various risks and uncertainties, which include, without limitation, risks associated with conducting a clinical trial and patient enrollment, which is affected by many factors, and any difficulties or delays encountered with such clinical trial or patient enrollment that may delay or otherwise adversely affect such clinical trial; the process of discovering and developing therapies that are safe and effective for use as human therapeutics and operating as a development stage company, expenses may be higher than projected, Design's ability to develop, initiate or complete preclinical studies and clinical trials for its product candidates; the risk that promising early research or clinical trials do not demonstrate safety and/or efficacy in later preclinical studies or clinical trials; changes in Design's plans to develop its product candidates; uncertainties associated with performing clinical trials, regulatory filings and applications; risks associated with reliance on third parties to successfully conduct clinical trials and preclinical studies; Design's ability to raise any additional funding it will need to continue to pursue its business and product development plans; regulatory developments in the United States and foreign countries; Design's reliance on key third parties, including contract manufacturers and contract research organizations; Design's ability to obtain and maintain intellectual property protection for its product candidates; Design's ability to recruit and retain key scientific or management personnel; competition in the industry in which Design operates, which may result in others discovering, developing or commercializing competitive products before or more successfully than Design; and market conditions. For a more detailed discussion of these and other factors, please refer to Design's fillings with the Securities and Exchange Commission ("SEC"), including under the "Risk Factors" heading of Design's Quarterly Report on Form 10-Q for the quarter ended September 30, 2024, as filed with the SEC on November 7, 2024. You are cautioned not to place undue reliance on these forward-looking statements, which speak only as of the date hereof. All forward-looking statements are qualified in their entirety by this cautionary statement and Design undertakes no obligation to revise or update this presentation to reflect events or circumstances after the date hereof, except as required by law

This presentation discusses product candidates that are under clinical or preclinical study, and which have not yet been approved for marketing by the U.S. Food and Drug Administration. No representation is made as to the safety or effectiveness of these product candidates for the use for which such product candidates are being studied.

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Challenging the status quo of genomic medicines with small molecules (GeneTAC® Molecules) that dial up or dial down transcription...

...to treat significant monogenic disorders

BECAUSE WE BELIEVE YOUR FATE DOESN'T HAVE TO BE WRITTEN IN YOUR GENES



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## Advancing four GeneTAC® molecule programs

	Friedreich Ataxia	FECD	Myotonic Dystrophy 1	Huntington's Diseas
Gene	FRATAXIN (FXN)	TCF4	DMPK	HUNTINGTIN (HTT)
Monogenic disease	GAA repeat expansion leads to reduced transcription	CTG repeat expansion causes nuclear foci & corneal endothelial cell dysfunction	CTG repeat expansion causes nuclear foci & cellular dysfunction	CAG repeat expansion leads to toxic mRNA and protein product
Differentiated profile	New drug product DT-216P2 with improved PK and injection site safety profiles observed in nonclinical studies	Allele-selective reduction of mutant transcript (TCF4) DT-168 in an eye drop	Allele-selective reduction of mutant DMPK leads to foci resolution and splicing correction	Allele-selective reduction of mutant HTT
Status <b>•</b>	Phase 1 SAD to initiate in 1H 2025	Phase 1 ongoing; data in 1H 2025	Select DC in 2025	Next step: Select DC
Significant market	• Biogen acquired Skyclarys® (REATA) for \$7.3B	<ul> <li>4.6-5.3M US         patients with TCF4         repeat expansion     </li> <li>Multi-billion \$ oppty</li> </ul>	Estimated >70K     cases in US     Multi-billion \$ oppty	<ul> <li>In US, &gt;40,000 symptomatic and 200,000 at-risk</li> <li>Multi-billion \$ oppty</li> </ul>

#### GeneTAC® Molecules have several advantages over traditional genomic medicine approaches

	Simple drug delivery	Working with natural genome	Distribute widely	Low burn rate	Annual R&D spend
Gene editing/ ene therapy	$\times$	$\times$	$\times$	$\times$	\$130-460M <sup>1</sup>
ligo ucleotide	$\times$		$\otimes$	$\times$ C	\$50-150M <sup>1</sup>
eneTAC® latform					\$60 - 80M²

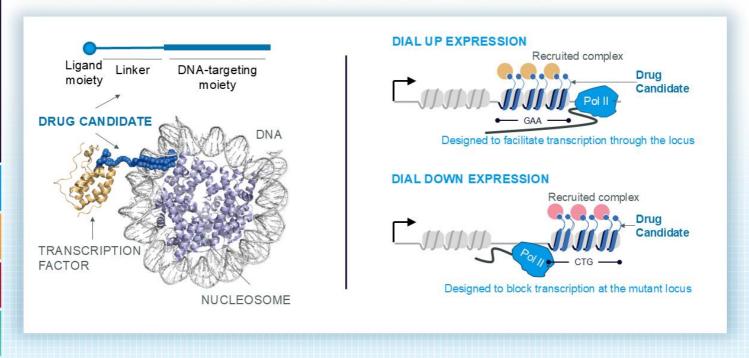
<sup>1.</sup> Estimates derived from analysis of R&D spend of select peers in 2022. Gene therapy/gene editing peers included in the analysis: Beam Therapeutics, Crispr Therapeutics, Editas Medicine, Intellia Therapeutics, Sangamo Therapeutics, Verve Therapeutics, Bluebird Bio. Oligonucleotide peers included in the analysis: Avidity Biosciences, Dyne Therapeutics, Entrada Therapeutics, PepGen.

2. Based on analyst consensus forecast for 2024 - 2027

# GeneTAC® Molecules can distribute widely overcoming a central challenge for traditional genomic medicines

	GeneTAC <sup>®</sup> Small Molecule	Oligonucleotide	Protein	Gene Therapy
MOLECULAR SIZE (Dalton)	O 1,000-3000	O 6,000- 15,000	50,000-	4,000,000-5,000,000
DISTRIBUTION  Successfully targeted cells  Native cells	Broad distribution	LIMITED  Distribution in most affected tissues often inadequate	Distributes w idely, but with minimal cell access	Targets individual organs, and with limited cell access
МОА	Engage endogenous gene expression		RISK OF OVEREXPRESSION	
DELIVERY COMPLEXITY		1		

## Differentiated mode of action of GeneTAC® molecules

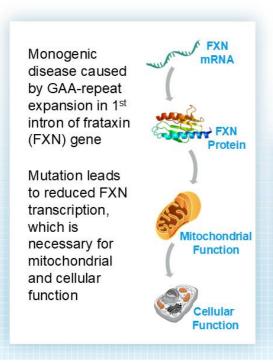


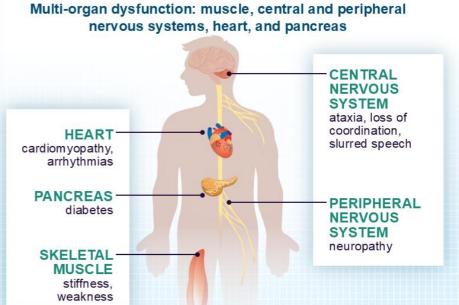
## **DT-216P2** for Friedreich Ataxia



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## FA: Debilitating disease with limited treatment options today



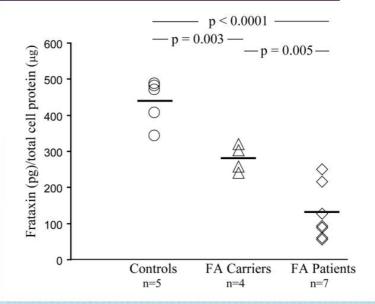


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# Therapeutic goal: increase FXN

- FA patients, carriers and controls have different average FXN protein levels
- Carriers are free of FA symptoms
- ~2X increase of FXN protein could potentially bring patients' levels into asymptomatic carrier range

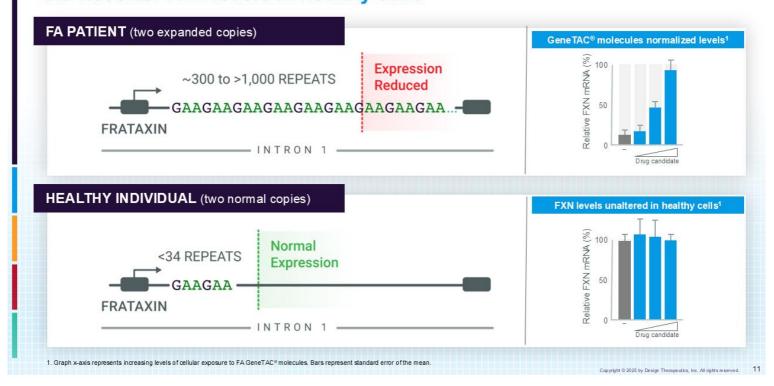
#### FXN protein level in lymphoblastoid cells



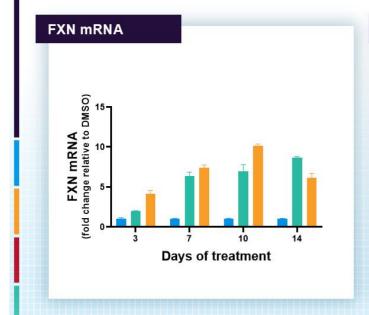
Willis et al. 2008. Molecular Genetics and Metabolism

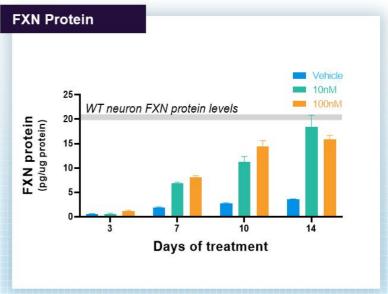
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# FA GeneTAC® molecules normalized FXN levels in FA patient cells but did not alter FXN levels in healthy cells



# Low concentrations of DT-216 molecule restored endogenous FXN levels in FA patient iPS-neurons





Note: Bars represent standard error of the mean. Cells treated with DT-216 FA GeneTAC® molecule

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#### Phase 1 trial with prior DT-216 drug product in FA patients

- · Primary and secondary objectives: evaluate safety, tolerability and pharmacokinetics (PK)
- · Exploratory objective: evaluate FXN gene expression

Randomization (DT-216: Placebo)

#### **Study Population**

- Age 18 to 55
- Genetically confirmed FA
- Stage ≤ 5.5 (Functional Staging of Ataxia\*)
- Without clinically significant concomitant medical conditions

#### Single Ascending Dose (SAD)

600mg IV x 1

400mg IV x 1

Injection site thrombophlebitis observed at 400 and 600mg doses

200mg IV x 1

100mg IV x 1

50mg IV x 1

25mg IV x 1

Placebo IV x 1

#### Multiple Ascending Dose (MAD)

Selection of MAD doses was based upon anticipated:

- · Tissue exposures in therapeutic range at 200-300mg dose levels
- · Injection site tolerability

300mg IV weekly x 3

200mg IV weekly x 3

100mg IV weekly x 3

Placebo IV weekly x 3

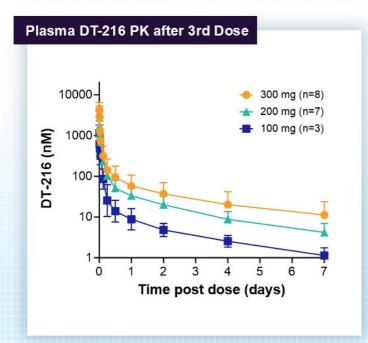
\* FSA; from no disability to severe disability (confined but can navigate a wheelchair, can perform some activities of daily living that do not require standing or walking).

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MUSCLE

BIOPSIES

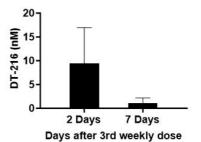
# Prior DT-216 drug product Phase 1 MAD study revealed plasma PK and tissue distribution are both transient with QW IV dosing



#### Muscle DT-216 PK after 3rd Dose

 Average DT-216 levels in skeletal muscle at both 200mg and 300mg cohorts were ~8-10nM two days after 3rd weekly dose & ~1nM seven days after 3rd weekly dose

■ Combined 200 mg and 300 mg cohort



 DT-216 concentrations in muscle were lower than projected based on nonclinical studies in animals

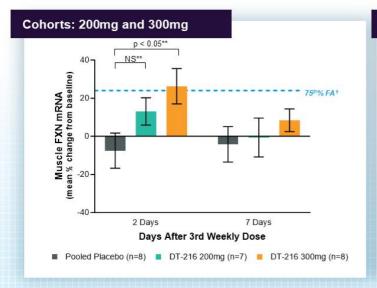
Note: Bars represent standard deviation.

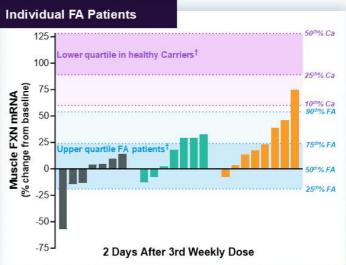
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#### Prior DT-216 drug product Phase 1 MAD study showed FXN expression is dialed up in response to drug exposure in FA Patients

Muscle FXN mRNA response correlated with dose and muscle DT-216 exposure, p < 0.05\*





<sup>\*</sup> Exploratory analyses for dose-response and exposure-response were conducted using a non-parametric trend test and non-parametric correlation test, respectively.
\*\* Exploratory analyses were conducted using a non-parametric Wilcoxon Rank-Sum model. A parametric AVCOV/A model gave similar results. Bars represent standard error of the mean. NS, not significant. † Percentiles and quartiles assume individual FA patient baselines in the MAD study are the median FA patient FXN mRNA value from the observational muscle biopsy study.

# Injection site thrombophlebitis issue appears addressed with new drug product DT-216P2

## Prior DT-216 drug product Phase 1 MAD safety

- No serious or severe adverse events (AEs) and no treatment-related discontinuations (1 unrelated study withdrawal due to COVID infection)
- 5 AEs of injection site thrombophlebitis on DT-216 arm – 100mg cohort (1 mild); 200mg cohort (3 mild); 300mg cohort (1 moderate), none in placebo group

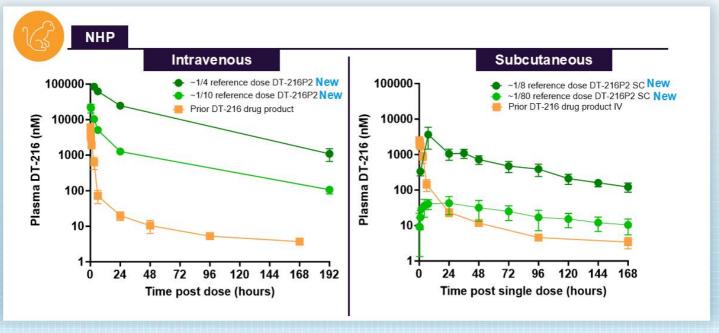
## Nonclinical observations with DT-216P2 compared with prior drug product

- Nonclinical studies showed that injection site reactions were attributable to formulation excipients in prior drug product
- DT-216P2 non-GLP animal studies conducted support conclusion that new drug product formulation potentially addresses injection site issues and is suitable for confirmatory GLP studies
- DT-216P2 appears suitable for IV administration (compatible with injections or infusions, peripheral or central with port systems for chronic dosing) or subcutaneous injections or infusions

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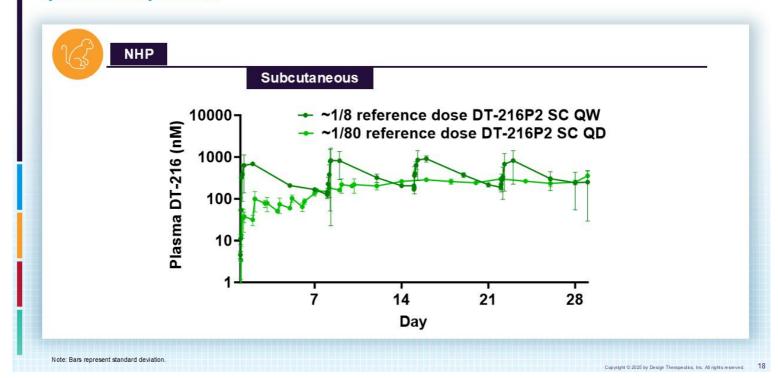
# DT-216P2 demonstrates superior product profile in NHPs using a proprietary and novel excipient



Note: Bars represent standard deviation. Data reflects separate experiments at different times and results were not observed in a head-to-head study. Caution should be advised when comparing different studies.

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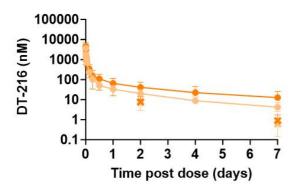
# Daily or weekly administration of DT-216P2 reaches steady state plasma exposure



## DT-216P2 achieved comparable drug levels in tissue and plasma

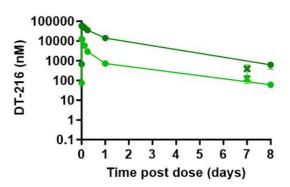
## Clinical MAD study prior DT-216 drug product QW IV

- 300mg cohort plasma PK after 3rd dose
- × 300mg cohort muscle biopsy after 3rd dose
- 200mg cohort plasma PK after 3rd dose
- 200mg cohort muscle biopsy after 3rd dose



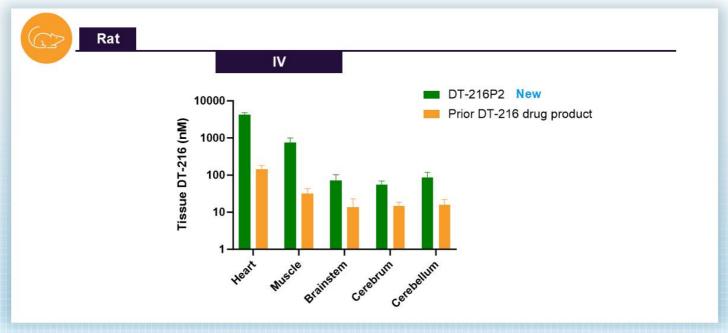
#### NHP DT-216P2 QW IV

- ◆ ~1/4 reference dose plasma PK after 4th dose
- ◆ ~1/10 reference dose plasma PK after 4th dose
- x ~1/10 reference dose muscle biopsy afer 2nd dose



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## Biodistribution of DT-216P2 IV compared with the prior drug product



Note: Bars represent standard deviation. Rats received three weekly IV injections of DT-216P2 or prior DT-216 drug product at the same dose level and tissues were collected on day 16 of the study (1 day after the last dose)

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#### FA program next steps

Phase 1 **IND-enabling** 

- Repeat administration of DT-216P2 in rats and NHPs well-tolerated at doses that achieved higher and more durable exposure than prior DT-216 drug product
- GLP animal studies support that DT-216P2 has addressed the injection site reactions seen with prior DT-216 drug product
- Initiate Phase 1 SAD in 1H 2025 to assess PK in healthy volunteers by multiple routes of administration, IV (infusion) and subcutaneous (injection and infusion) - received okay to proceed in Australia

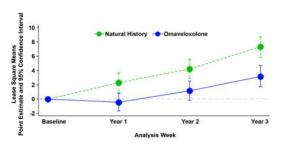
Phase 2

- Begin FA patient dosing later in 2025 to understand safety, PK, and pharmacodynamics
- Anticipate frataxin data based on 12-weeks of dosing to reach steady state

## Unmet need in FA remains significant



- Skyclarys® does not address the genetic root cause of FA or change FXN level
- Skyclarys® slows disease progression on neurological end point (mFARS) but only during the 1<sup>st</sup> year
- Estimated peak sales of \$1.6B/yr



- Other drug candidates in clinical development that aim to address the root cause of FA involve complex modalities
- None of these change endogenous FXN



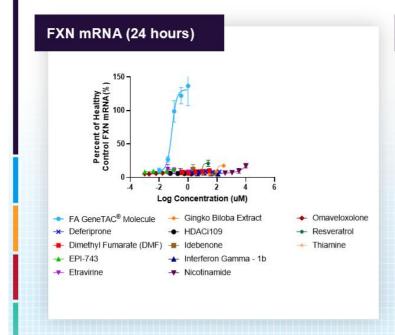
**HIV-TAT-FXN** protein

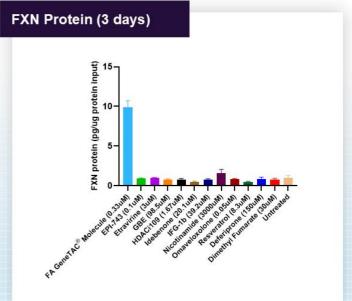


AAV gene therapy targeting cardiac tissue

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# Activity of FA GeneTAC® molecules compared with other compounds that have purportedly increased FXN in FA patient LCLs





Note: Molecules tested in FA patient lymphoblastoid cells. Bars represent standard deviation. Cells treated with DT-003 FA GeneTAC® molecule. Concentrations selected based on published active ranges. Omaveloxolone is a NRF2 activator that was not purported to increase FXN.

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# DT-168 for Fuchs Endothelial Corneal Dystrophy



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# No disease-modifying options for FECD today, majority of ~5M US patients quietly suffer declining visual function

# \*\*SM US FECD patients\*\* \*\*Corneal transplant surgeries annually (0.5% of all FECD)\*\* \*\*Increasing Endothelial Dysfunction\*\* \*\*Increasing Endothelial Dysfunction\*\* \*\*Increasing Endothelial Dysfunction\*\* \*\*Diagnosis by optometrist\*\* \*\*Diagnosis by optometrist\*\* \*\*Loss of visual function\*\* \*\*Patient can't stand symptoms\*\* \*\*4.6–5.3M US FECD patients with TCF4 repeat expansion\*\* \*\*Surgical Descemet membrane stripping or corneal transplant is limited to 18,000-\*\*

"If there was something that would halt progression — I would treat everyone. Even people without symptoms."

- Optometrist

Vision with FECD1





#### Reduced Vision Quality

- ↓ vision acuity, esp. low contrast
- Blurriness in the morning
- · Glare and halo
- ↓ contrast sensitivity

#### Discomfort and Pain

- "Grittiness" in the eve
- Floaters
- · Episodes of pain

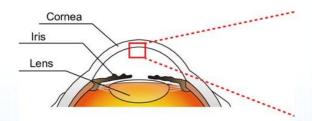
Source: (1) Vianna et al. JAMA Ophthamol (2015), (2) 165.2M people in the US (>40 yrs of age) x 4% FECD prevalence per Lliffe (2012) and Aiello (2022) x 70-80% TCF4 mutations in US per Wieben (2012), Wieben (2014), Vasanth (2015), Eghari (2017), Kinariwali (2021), Xu (2021)

30,000 by capacity, morbidity and complexity

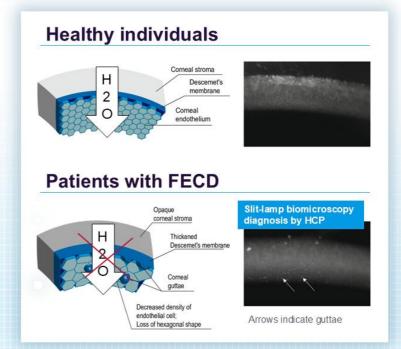
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## Treatment goal: Restore endothelial function and visual function

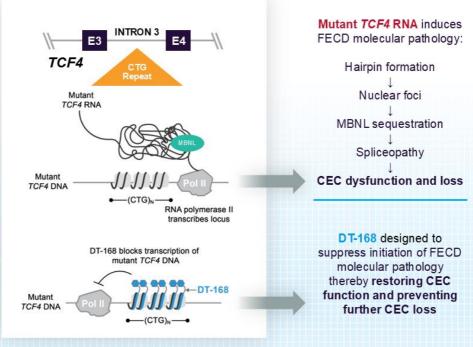


- Corneal endothelial cells (CECs) pump water out of the stroma to ensure proper dehydration of collagen fibrils for corneal transparency
- hydration of corneal stroma, resulting in loss of corneal transparency, and visual dysfunction
- As CECs are lost, ECM masses called guttae also form in the basement membrane with concurrent reduction in cell density, cell shape, and/or bullae and ultimately fibrosis



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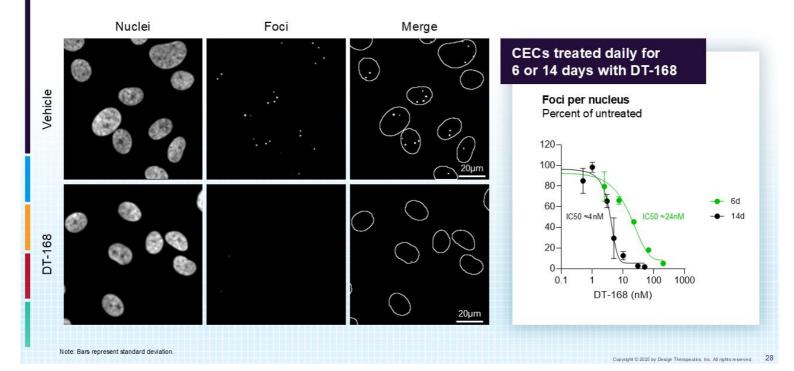
# FECD GeneTAC® Molecules are designed to suppress transcription of *TCF4* DNA that contains expanded CTG repeats



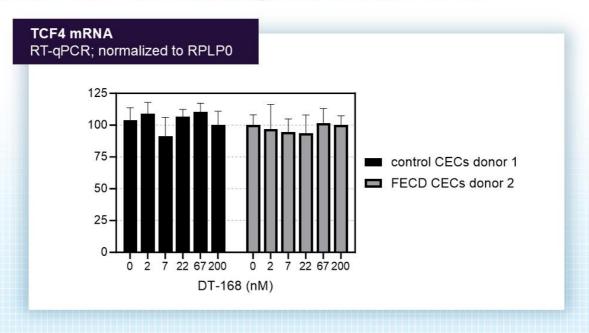
Source: Adapted from Fautsch et al. Progress in Retinal and Eye Research (2021)

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# DT-168 reduces nuclear foci in primary CECs isolated from patients with FECD with high potency (<5nM foci $IC_{50}$ )



# Wild-type TCF4 transcripts are unaffected in primary control and FECD CECs following treatment with DT-168

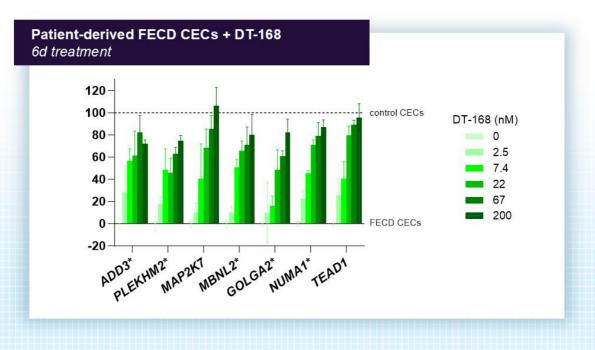


Notes: Control CECs from donor 1 and patient-derived FECD CECs from donor 2 were incubated with DT-168 for 6 d, after which mRNA was purified and used to quantify wild4ype TCF4 transcripts using a primer-probe set targeting exons 18/19. Data represent averages of N=3 replicates, and error bars represent standard deviation. Data source: DSGN-2023-DT168-1006.

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# **DT-168 improves spliceopathy in primary FECD CECs** *Top 7 improved genes for FECD CECs derived from donor 2*



\*Previously reported as mis-spliced in primary FECD CECs (Fautsch et al., 2021) Bars represent standard deviation.

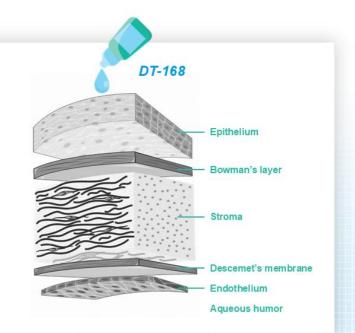
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## DT-168 eye-drops were well-tolerated and readily distributed to CECs

#### Key observations from nonclinical studies

- Well-tolerated after single and multiple doses per day for 14 days with clean histology
- DT-168 distributed throughout cornea after topical delivery, measurable levels of drug in aqueous humor
- Micromolar DT-168 levels present in cornea at 24 hours post-dose
- Negligible systemic exposure following dosing
- Chronic tox ongoing

Phase 1 MAD trial evaluating 7 days BID dosing in healthy volunteers; data expected in 1H 2025



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# FECD Observational Study aims to increase probability of DT-168 programmatic success

## OBSERVATIONAL STUDY

- Targeting recruitment of 200 patients (~400 eyes) with genetically confirmed TCF4 mutations 2-year follow-up
- Confirm disease characteristics and deterioration in context of running a trial
- Identify characteristics for FECD patients at risk of more rapid disease progression

## EVALUATE ENDPOINTS

- Anterior eye tomography
- Corneal endothelium microscopy
- Visual acuity (low luminance, contrast sensitivity, glare disability)
- · Visual disability
- · Patient reported outcome



- Measure disease progression in patients with at least 1 tomographic feature of subclinical edema<sup>1</sup>
- Evaluate patient characteristics and obtain satisfactory markers of disease progression and measurable endpoints
- Observational study could expedite recruitment in interventional trials

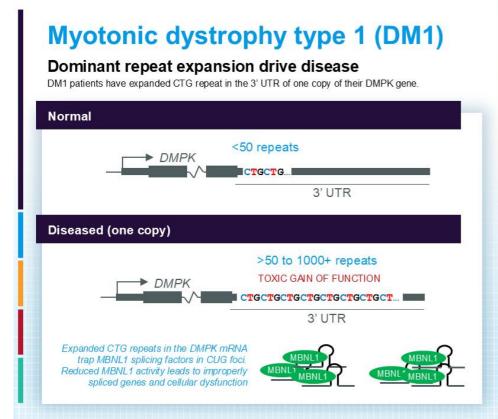
1) Patel et al. Ophthalmology. 2020

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# **Myotonic Dystrophy Type 1 (DM1)**



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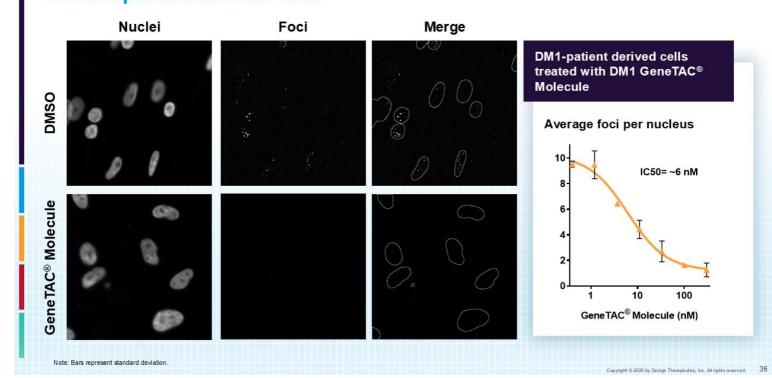


### GeneTAC® molecules for DM1 have several advantages

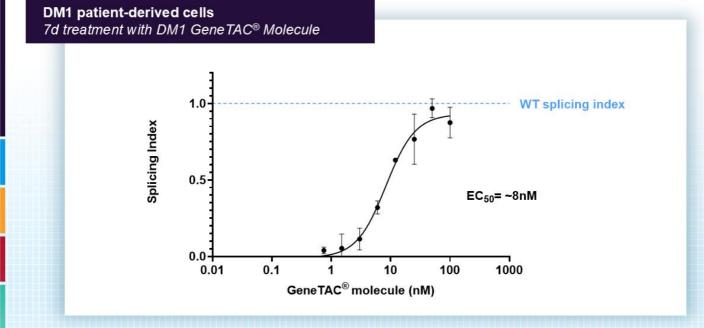
	1	GeneTAC <sup>®</sup>				
		DM1 candidates	AVIDITY AOC 1001	<b>YDyne</b> DYNE-101		
,	Allele selectivity	Allele-selective	Non-selective	Non-selective		
	Modality	Small molecule	siRNA conjugated to TfR1 targeting mAb	ASO conjugated to TfR1 targeting Fab		
	Target tissue	Distributes widely to impacted tissues	Muscle	Muscle		
	<i>In vitr</i> o efficacy for foci reduction	~90% foci reduction	"Quantifiable reduction" in nuclear foci	"Approximately 40% reduction in nuclear foci"		

grade and an area

# GeneTAC® Molecule causes potent foci reduction in DM1 patient-derived cells



## GeneTAC® Molecule leads to robust correction of mis-spliced transcripts in patient-derived cells



Note: Bars represent standard deviation.

## **Huntington's Disease (HD)**

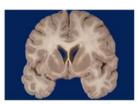


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### **Huntington's Disease (HD)**

### GeneTAC® molecules selectively reduce mutant Huntingtin and spare the normal Huntingtin allele

- Causes brain atrophy due to death of neurons
- Symptoms range from motor function to neurological
- Universally fatal
- HD Prevalence: >40,000 in the U.S.



Control - no atrophy



HD

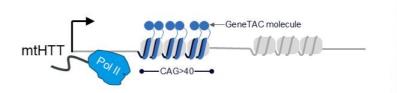
Normal HTT gene — thought to be important to normal state

Gene TAC $^{\otimes}$  molecules *preserve transcription* at the *wild type locus* 



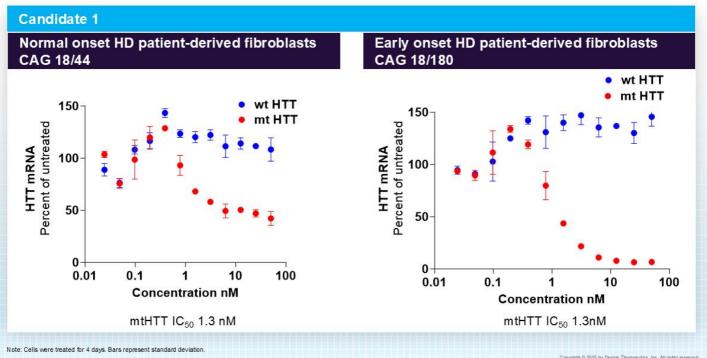
#### HTT gene with expansion

GeneTAC® molecules block transcription specifically at the mutant locus

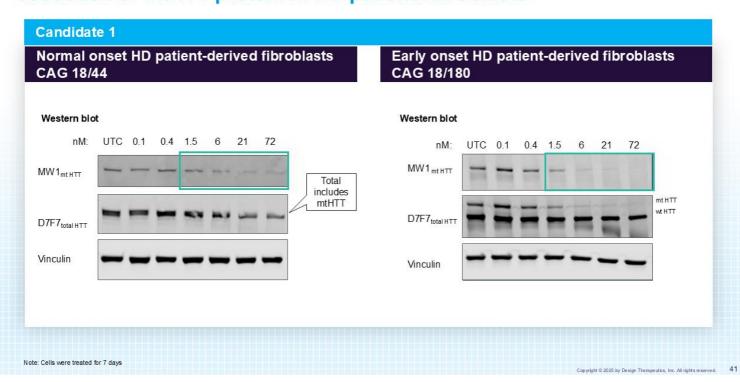


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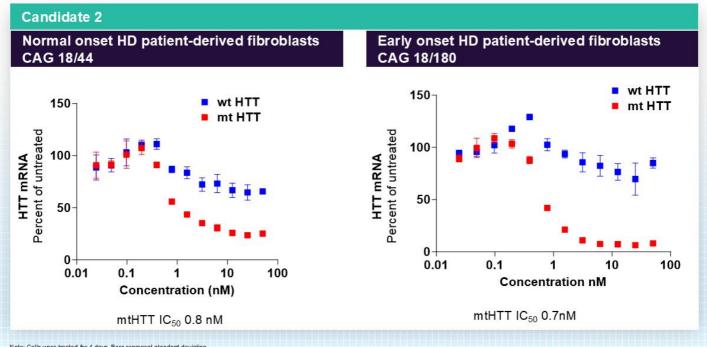
# GeneTAC® Molecule treatment causes potent, allele-selective reduction of mtHTT mRNA in HD patient fibroblasts



## GeneTAC® Molecule treatment causes potent, allele-selective reduction of mtHTT protein in HD patient fibroblasts

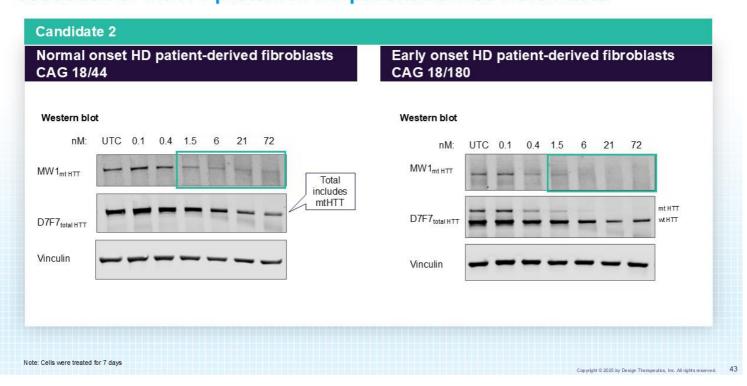


# GeneTAC® Molecule treatment causes potent, allele-selective reduction of mtHTT mRNA in HD patient-derived fibroblasts



Note: Cells were treated for 4 days. Bars represent standard deviation.

## GeneTAC® Molecule treatment causes potent, allele-selective reduction of mtHTT protein in HD patient-derived fibroblasts



### Candidates well-tolerated in both rodents and NHPs

### **Rodents**

Tested in wild-type rats and mice:

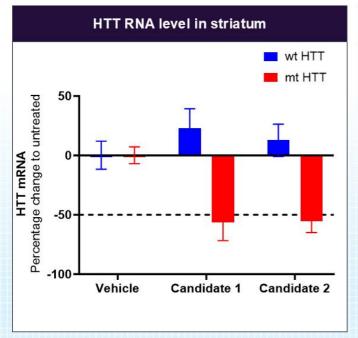
- · Well-tolerated in ongoing studies:
  - Weekly doses for three weeks in rats
  - Daily doses for one week in mice
- Tolerability assessed across all macroscopic measures including weight, blood chemistry and liver function tests

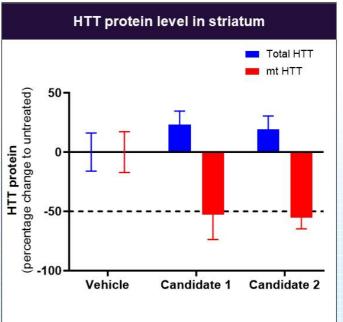
### **NHP**

Tested in wild-type non-naïve NHPs

- · Well-tolerated in ongoing studies
- Tolerability assessed across all macroscopic measures including weight, blood chemistry and liver function tests

## Allele-specific reductions of RNA and protein observed in the brain in zQ175DN HD mouse model after 8 weeks of systemic administration





Note: mice were treated with Candidate 1 or Candidate 2 for 8 weeks, vehicle group treated for 4 weeks. Percent change calculated based on treated compared to untreated. RNA level determined with RT-PCR. Protein level determined with TR-FRET. Data presented as Mean ± SD.

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## GeneTAC® HD candidates have significant advantages over other HTT lowering therapeutic approaches

#### Non-selective Allele-selective Reduce both normal and Reduce mutant Huntingtin and spare the normal Huntingtin mutant Huntingtin GeneTAC® **HD** candidates WVE-003 uniQure Small molecule ASO Modality Facilitate drug biodistribution AMT-130 to the whole brain Delivery Parenteral administration Intrathecal administration Yes No Target somatic Tominersen Target repeats, increased efficacy as repeats Target SNP3 expansion expand during disease progression **Patient** All HD patients ~40% of patients with SNP3 population PTC-518 · Selective reduction of mtHTT in Phase 1/2 Latest patient cells (IC50=~1nM) · Reduced mtHTT milestone Well tolerated in rodents and NHPs Increased NfL observed

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### Strong financial position to enable programs and platform

PLATFORM

 Proprietary GeneTAC® platform designed to generate blockbuster products with first/best-in-class profiles for severe monogenic disorders

PROGRAMS

- Two clinical-stage programs in 2025 FA and FECD
- Active research pipeline led by DM1 and HD GeneTAC® programs

PLAN

Balance sheet as of September 30, 2024

Current cash to fund planned operations

Cash runway enables up to

\$254.1 MILLION

**INTO 2029** 

4 PROGRAMS TO CLINICAL POC\*

\*Subject to future R&D results and ongoing strategic review

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