JEN/LI

DEFEAT DEGENERATION

CORPORATE OVERVIEW
FEBRUARY 2024











DISCLAIMERS

Forward-Looking Statements. This presentation contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. These forward-looking statements do not relate strictly to historical or current facts and they may be accompanied by such words as "anticipate," "believe," "could," "estimate," "expected," "forecast," "intend," "may," "plan," "potential," "possible," "future," "will" and other words and terms of similar meaning. All statements other than statements of historical facts contained in this presentation, including, without limitation, statements regarding future results of operations and financial position of Denali Therapeutics Inc. ("Denali" or the "Company"); Denali's business strategy and business plans, expected progress and expansion, and expected key milestones for Denali's therapeutic portfolio in 2023 and beyond; Denali's ability to execute on its tailored commercial strategies and accelerate commercial launch readiness; expectations relating to the potential for Denali's product candidates to treat various neurodegenerative diseases including MPS I, MPS II (Hunter Syndrome), MPS IIIA (Sanfilippo Syndrome), ALS, MS, PD, AD, FTD-GRN, UC, and related peripheral inflammatory diseases, planned preclinical studies and clinical trials and the expectations regarding the timing and availability of results and data from such studies and trials; plans, timelines, expectations, breadth of indications, and current and future therapeutic and commercial opportunities related to Denali's Transport Vehicle (TV) platform, including its Enzyme Transport Vehicle (ETV), Antibody Transport Vehicle (ATV), Protein Transport Vehicle (PTV), and Oligonucleotide (OTV) technologies, and other programs enabled by these platforms, as well as potential targets and differentiation strategies; plans, timelines, and expectations relating to DNL310, including the timing and availability of data from the ongoing Phase 1/2 study and enrollment in the Phase 2/3 COMPASS study; plans, timelines, and expectations related to DNL126, including the timing and availability of data from the Phase 1/2 study; plans and expectations regarding DNL593; plans, timelines, and expectations relating to ATV: Abeta and its therapeutic potential; plans, timelines, and expectations relating to the Biogen-led development of DNL151, including enrollment in the Phase 2b LUMA trial; expectations relating to LRRK2 inhibitor DNL201 for the treatment of PD; plans, timelines, and expectations related to DNL343, including enrollment in the ongoing Phase 2/3 HEALEY ALS platform trial; Denali's and Sanofi's plans, timelines, and expectations related to DNL788 and DNL758, including with respect to the availability of data and the initiation of future clinical trials; the potential benefits and results of the collaborations with Denali's partners, including Biogen, Sanofi, and Takeda, and expected milestone payments; Company priorities, regulatory approvals, timing and likelihood of success and expectations regarding collaborations; and plans and expectations regarding Denali's global organization and clinical operations and the expected timing and likelihood of success of its commercial growth, are forward-looking statements. Denali has based these forward-looking statements largely on its current expectations and projections about future events.

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OUR PURPOSE: DEFEAT DEGENERATION



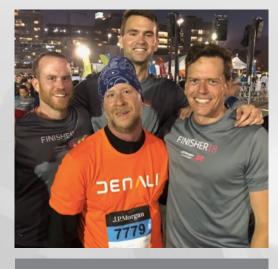
LYSOSOMAL STORAGE DISEASES

Dominic, living with MPS II



ALS/FTD

Seth, living with ALS



PARKINSON'S DISEASE

Allan, living with PD



ALZHEIMER'S DISEASE

Denali Team at AD Walk 2023



Denali

The name captures the formidable challenges in fighting neurodegenerative diseases but also the unprecedented opportunities enabled by new scientific insights and technologies. With a relentlessly committed team and rigorous effort, breakthroughs appear to be within reach.

PATH TO DEFEAT DEGENERATION

DELIVER

DEVELOP

Advance broad clinical portfolio for patients with neurodegenerative and lysosomal storage diseases

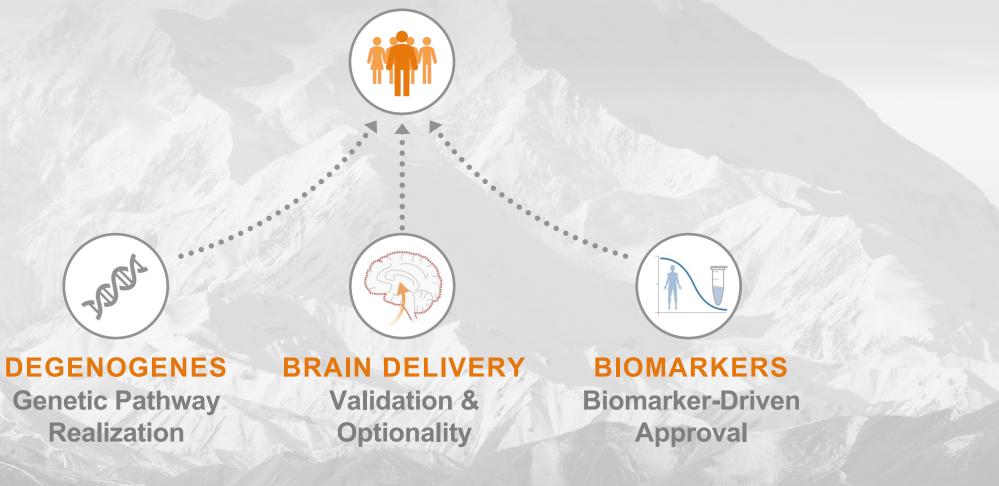
Bring medicines to patients and achieve **commercial** success, continuing to fuel pipeline

DISCOVER

Invent medicines and platforms using our deep scientific expertise in neurodegeneration biology and the blood-brain barrier

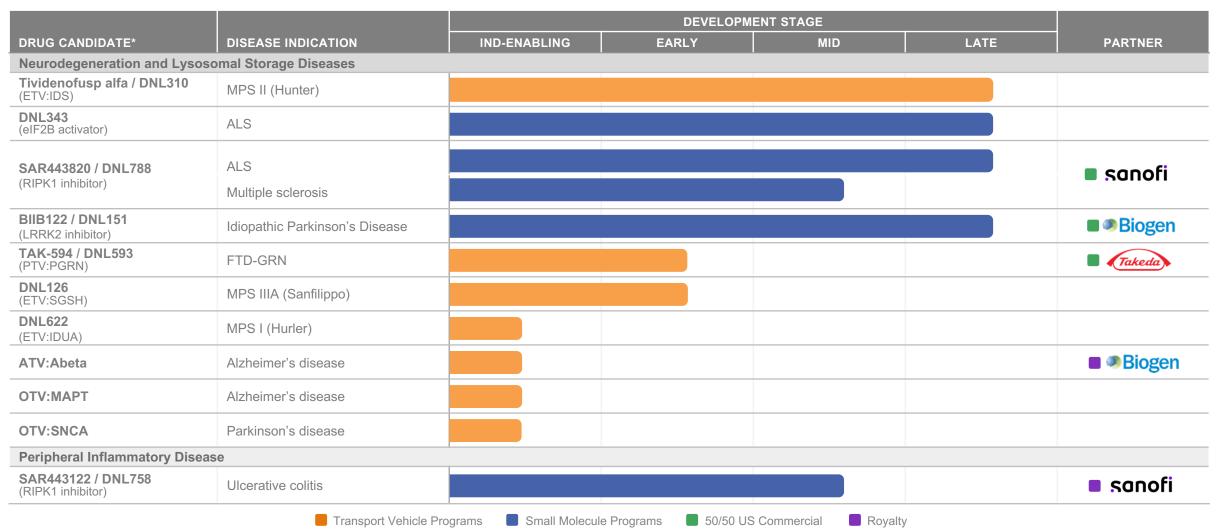
APPROACH TO DEFEAT DEGENERATION

Rigorously applying our scientific principles to increase the likelihood of success





DEVELOPMENT PORTFOLIO: COMMON & RARE DISEASES



Broad, diverse, and differentiated portfolio, including multiple TV-enabled and small molecule programs in discovery

Peak 1

SUSTAINABLE VALUE GENERATION: MULTIPLE OPPORTUNITIES

Peak 2

Potential to Reach \$10B in Peak Sales*
7 Current Clinical Programs

Peak Sales	Program	Indication
>\$5B	DNL151	PD
\$1-5B	DNL788 DNL343 DNL758	ALS/MS ALS UC
Up to \$1B	DNL310 DNL126 DNL593	MPS II MPS IIIA FTD-GRN
■ TV-Enabled	Small Molecule	

Potential to Reach >\$10B in Peak Sales*
5 Discovery Programs in AD and PD

Peak Sales	Program	Indication
	ATV:Abeta	AD
	OTV:MAPT	AD
>\$5B	OTV:SNCA	PD
	ETV:GCase	Gaucher/PD
	ATV:TREM2	AD
\$1-5B	Additional ETV/OTV	Various
Up to \$1B	_	_

Portfolio evolution to focus on TV-enabled programs in common neurodegenerative diseases



PIONEERING BBB-CROSSING TECHNOLOGY FOR BRAIN DELIVERY

Discovery Milestones

2011: Impact of TfR affinity on BBB crossing¹

2013: Addressing liabilities of targeting TfR²

2016: CD98hc characterization as BBB target³

2020: TV publication of invention (ATV)⁴

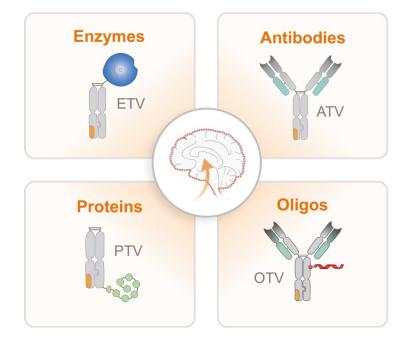
2020: TV-enabled enzyme delivery (**ETV**)⁵

2021: TV-enabled protein delivery (PTV)⁶

2022: ETV differentiated brain delivery⁷

2023: TV-enabled oligo delivery (OTV)8

Our Transport Vehicle (TV)



Key TV Achievements

Patents and Applications

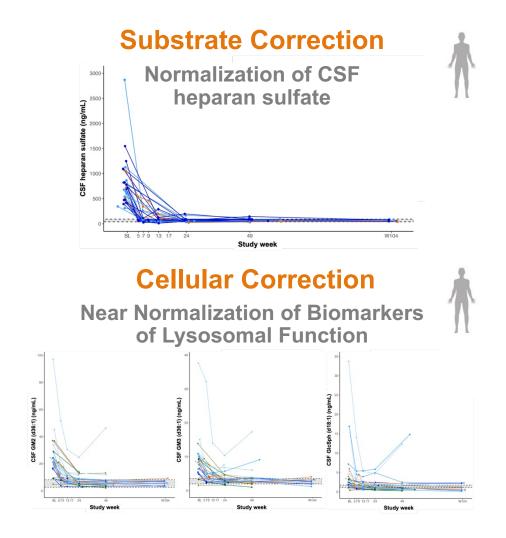
7 Top-Tier
Publications

3 Clinical Programs

Preclinical Programs

We are leading the field in discovery and development of BBB-crossing technology to revolutionize the treatment of neurodegenerative diseases

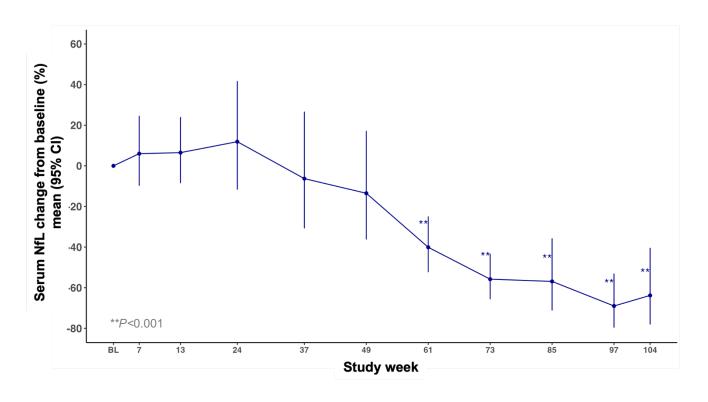
TRANSPORT VEHICLE (TV): SOLVING THE BBB CHALLENGE



Neurodegeneration Correction

Robust Reduction in Neurofilament Light (NfL), a Key Marker of Neurodegeneration



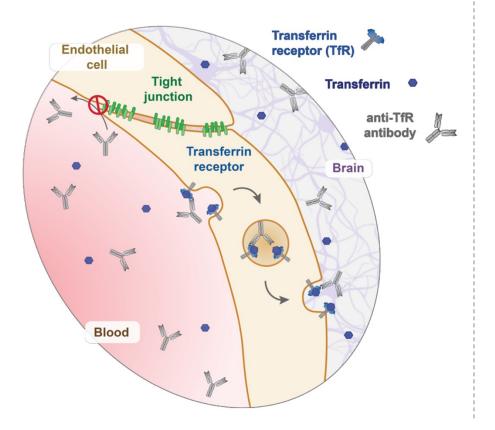


TV proof of concept for targeting TfR achieved in DNL310 Phase 1/2 study for MPS II

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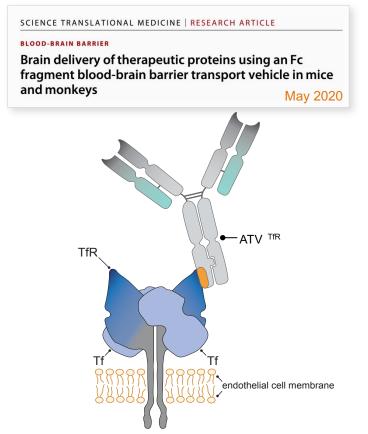
LEADERSHIP IN THE BBB DELIVERY SPACE

TV Technology Leverages Receptor Mediated Transcytosis Into the Brain



Transferrin Receptor (TfR)

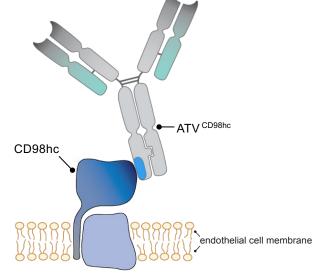
Most Clinically Advanced



CD98hc Amino Acid Transporter

TV Platform Expansion





We continue to invent differentiated BBB-crossing technologies that have the potential to optimize the target space

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ATV ENABLES BROAD DISTRIBUTION THROUGHOUT THE BRAIN

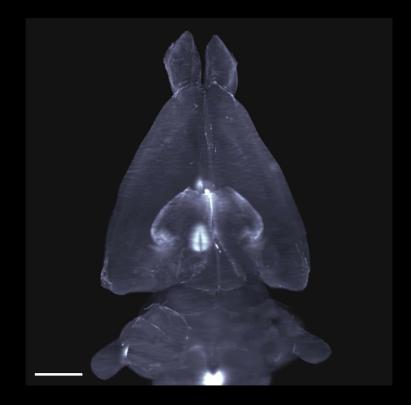
Control IgG



ATV with TfR



ATV with CD98hc





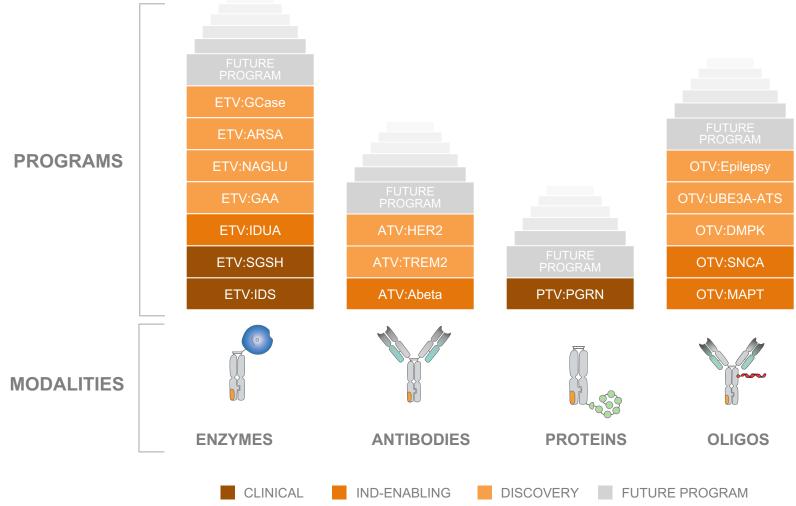
Tissue cleared brain movies

We continue to invent differentiated BBB-crossing technologies that have the potential to optimize the target space

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DRIVING SUSTAINABLE VALUE CREATION WITH THE TV TECHNOLOGY

TRANSPORT VEHICLE (TV) PROGRAMS AND MODALITIES TARGETING THE TRANSFERRIN RECEPTOR (TfR)



- Each TV modality is a platform opportunity
- Current focus on neurodegeneration and lysosomal storage diseases
- Future opportunities in oncology, infectious diseases, neuropsychiatry and pain
- New BBB receptors (CD98hc) further optimize the target space

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FOCUS ON CLINICAL EXECUTION AND COMMERCIAL READINESS

Four Late-Stage Clinical Trials



- Tividenofusp alfa (DNL310, ETV:IDS)*
- MPS II (Hunter syndrome)
- Complete enrollment in Phase 2/3 COMPASS in 2024



- DNL343 (eIF2B activator)*
- Amyotrophic lateral sclerosis (ALS)
- Complete enrollment in Phase 2/3 HEALEY in 2024



- SAR443820/DNL788 (RIPK1 inhibitor)
- sanofi

- Amyotrophic lateral sclerosis (ALS)
- Phase 2 HIMALAYA study
- Enrollment complete; topline data in 1H 2024



BIIB122/DNL151 (LRRK2 inhibitor)



- Parkinson's disease
- Phase 2b LUMA study enrolling



ENZYME TRANSPORT VEHICLE (ETV) FRANCHISE OPPORTUNITY

Lysosomal Storage Diseases (LSDs)

- Monogenic diseases (enzyme deficiency)
- 30,000 people with LSDs worldwide
- High likelihood (~90%) of historical ERT approvals¹
- Up to \$1B per indication²



Large Unmet Need to Treat CNS Manifestations

- Approved ERTs
 partially address somatic
 symptoms and do not
 address CNS symptoms
 of LSDs
- Unmet need for ERTs that can treat body and brain

ETV Has the Potential to Treat the Body and Brain

 DNL310 clinical proof of concept achieved in MPS II³



 Apply learnings to accelerate development in other LSDs⁴

MPS IIIA

ETV:SGSH

PD, Gaucher

MLD ETV:ARSA

MPS IIIB

MPS I ETV:IDUA POMPE ETV:GAA

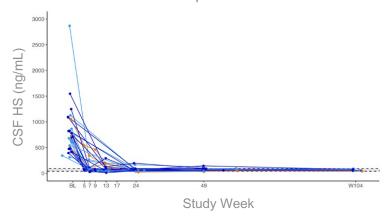
Denali estimates based on historical approvals of ERTs without a blood-brain crossing technology and designed to treat somatic manifestations of LSDs;
 Denali estimates of potential peak sales;
 Includes interim biomarker and other data from open-label Phase 1/2 study of DNL310 (ETV:IDS);
 DNL310 (ETV:IDS) and DNL126 (ETV:SGSH) are in clinical development; other ETV programs are in earlier stages of development;
 ERTs – Enzyme Replacement Therapies;
 CNS – Central Nervous System;
 ETV:IDS – Enzyme Transport Vehicle: Idursulfase

DNL310 (ETV:IDS): KEY INTERIM, OPEN-LABEL, PHASE 1/2 RESULTS

- Generally well tolerated;
 safety profile based on
 33 participants (median treatment duration 100 wks)
- First and only therapy in development shown to normalize CSF HS and reduce NfL in MPS II
- Improvement in measures of hearing and behaviors most important to families

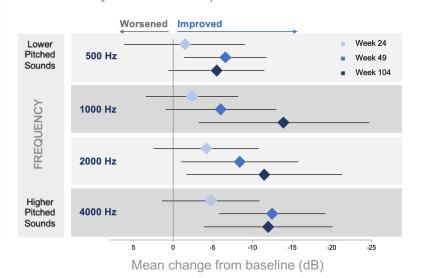
Normalization of CSF HS

Biomarker of neuronopathic disease



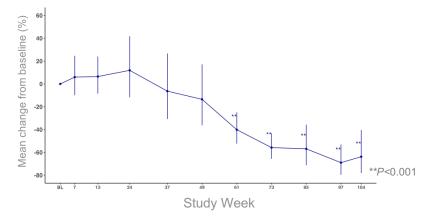
Improvement in Hearing

Auditory brainstem response



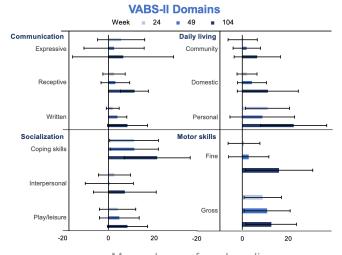
Robust Reduction in Serum NfL

Biomarker of neuronal damage



Improvement in Adaptive Behavior

VABS-II raw score



Mean change from baseline
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DEVELOPMENT AND REGULATORY PATH FOR DNL310 IN MPS II

Global Phase 1/2 (enrolling)

- Open-label study
- Up to 18 years of age
- 14 participants with more than 2 years of DNL310 treatment¹
- Measuring biomarkers, safety and exploratory clinical outcomes

>40 participants²

Global Phase 2/3 (enrolling)

- Randomized, double blind, controlled study
- Ages ≥2 to <6 y.o. (Cohort A, neuronopathic)
- ≥6 to <17 y.o. (Cohort B, non-neuronopathic)
- Co-primary endpoints: CSF HS and VABS-III
- Peripheral endpoints: liver/spleen volume, 6MWT, ABR and others

54 participants²



Regulatory Path and Target Indication

- Executing the Phase 2/3 COMPASS study; continue to generate Phase 1/2 data
- Ongoing regulatory interactions; prepared to pursue a faster path to approval
- Target indication the full MPS II phenotype spectrum

~100

participants²
robust data package

DNL343 (eIF2B AGONIST): AMYOTROPHIC LATERAL SCLEROSIS (ALS)

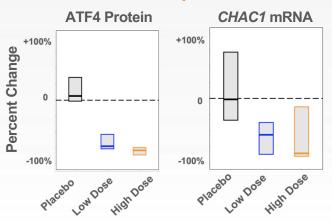
Targeting the Integrated Stress Response (ISR) ISR pathway active Disease Biology Nerve Cell Death Abnormal TDP43 ISR biomarkers (e.g., ATF4 and CHAC1) ISR biomarkers (e.g., ATF4 and CHAC1)

- ISR is implicated in stress granule formation and TDP43 aggregation, a hallmark of ALS
- DNL343 is designed to inhibit ISR & slow disease progression

DNL343 Inhibits the ISR

- Phase 1/1b studies in 95 healthy and 27 participants with ALS
- DNL343 was generally well tolerated
- DNL343 inhibited ISR biomarkers (shown in blood)

ALS Participant Data



Phase 2/3 HEALEY Study



- Platform trial in ALS
- 240 participants expected to enroll in DNL343 regimen
- Randomized 3:1 (DNL343:placebo)
- Primary endpoint ALSFRS-R at 24 weeks

Focus on TV Programs in Alzheimer's Disease and Parkinson's Disease

OPPORTUNITY IS BREAKING OPEN IN ALZHEIMER'S DISEASE (AD)

Recent Advances Bring New Hope to People Living with AD

- New anti-amyloid therapies are the first disease modifying treatments
- New biomarkers and imaging tools
- New targets show promise in clinical testing, e.g., tau
- TfR-based targeting technology shows promise in clinical testing

Opportunity for New Therapies to Improve Efficacy and Safety

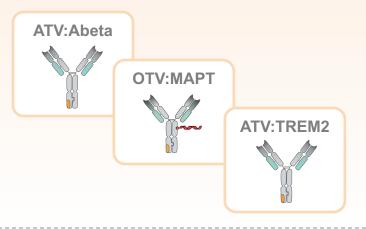
Unmet Needs Include:

- Faster plaque reduction
- Lower doses
- More convenient delivery
- Reduced risk of ARIA



Denali is Positioned to Deliver the Next Generation of AD Therapies

- Discovery programs for multiple AD targets
- Best in class opportunities to improve efficacy and safety

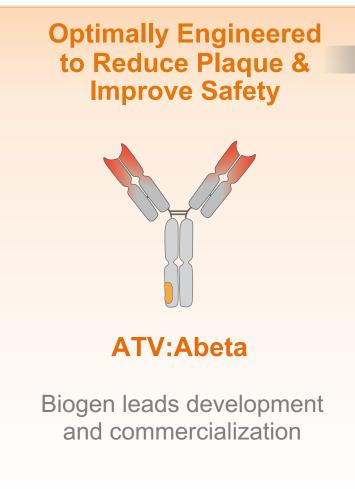


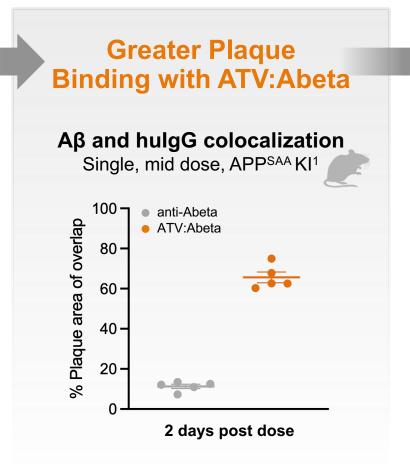
55 Million People Live with AD and Other Forms of Dementia

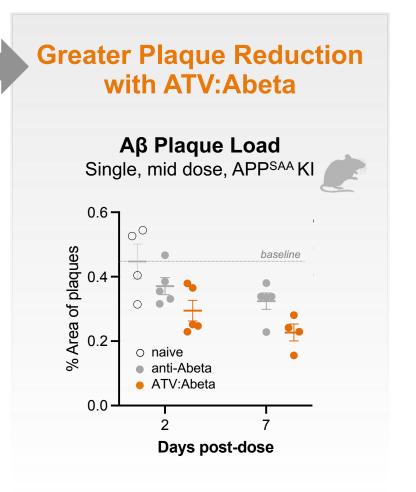


We Aim to Deliver Effective Medicines with Broad Societal Impact

ATV: Abeta: SUPERIOR AMYLOID PLAQUE BINDING AND REDUCTION

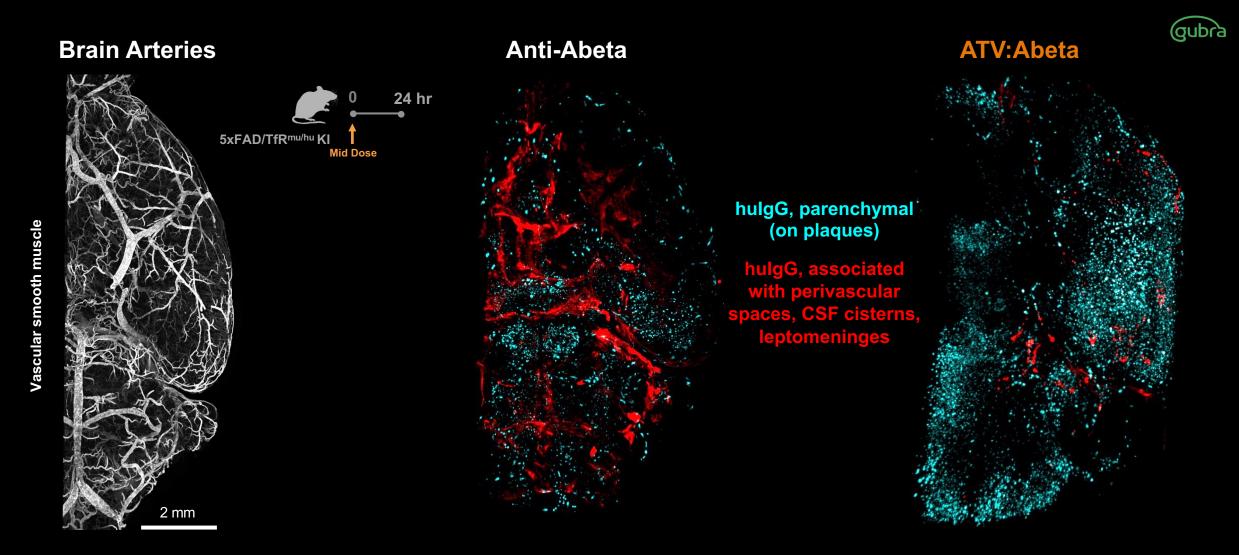






ATV:Abeta may enable a wider therapeutic window in treating AD as compared to conventional anti-Abeta therapy

3D IMAGING SHOWS SUPERIOR AND DIFFERENTIATED ATV: Abeta BIODISTRIBUTION



ATV leads to higher parenchymal plaque binding and lower perivascular localization compared to standard antibody

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ATV: Abeta HAS POTENTIAL TO REDUCE ARIA RISK IN AD TREATMENT

Optimally Engineered to Reduce Plaque & Improve Safety

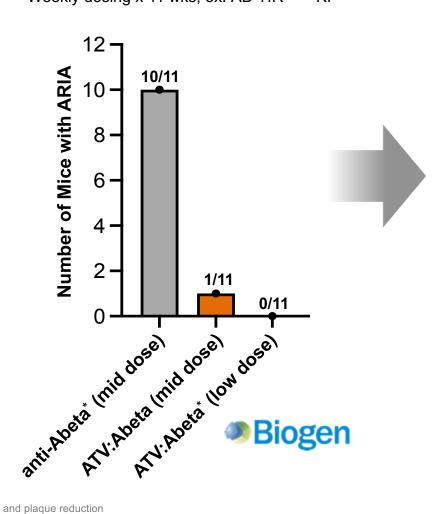
Preclinical profile:

- Superior plaque reduction
- Less vascular localization
- Fewer ARIA events

ARIA as Seen in a Mouse Model of AD



ARIA-like MRI events Weekly dosing x 11 wks, 5xFAD TfR^{mu/hu} KI



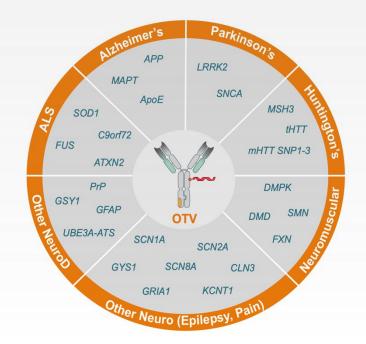
Fewer/no ARIA
events observed with
ATV:Abeta compared
to a conventional
Abeta antibody

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OLIGONUCLEOTIDE TRANSPORT VEHICLE (OTV) OPPORTUNITY

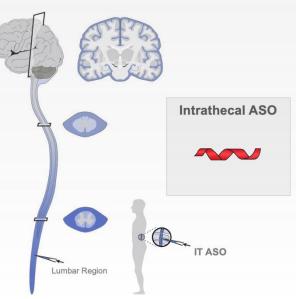
Oligonucleotide Therapies Enable New Disease Targets

 Oligonucleotides open a large potential indication space in neurodegeneration and beyond



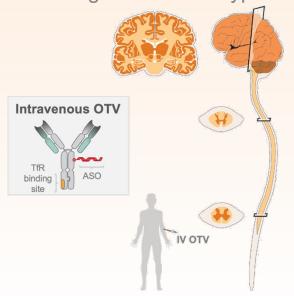
Opportunity for Improving Oligo Delivery and Therapeutic Profile

- Limited biodistribution with intrathecal ASO
- Sharp gradient limits biodistribution in brain and along the spinal cord



OTV has Potential to Revolutionize Oligos for Treating CNS Disease

- Homogenous biodistribution of ASOs across brain regions
- Superior knockdown of target gene expression across all brain regions and cell types

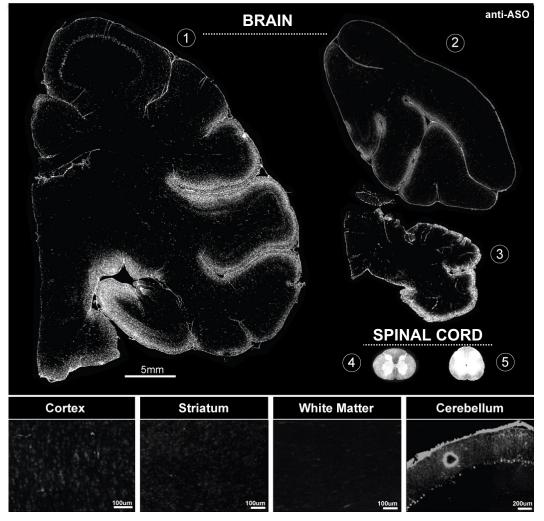


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OTV PROVIDES UNIFORM ASO DEPOSITION ACROSS THE CNS WITH IV DELIVERY

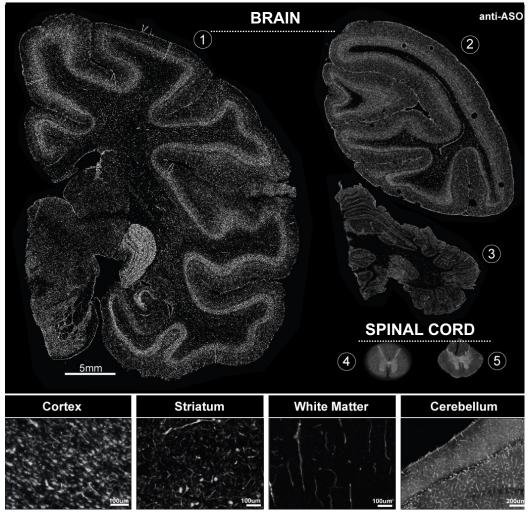
NAKED ASO INTRATHECAL (IT) DELIVERY

Limited ASO Biodistribution



OTV INTRAVENOUS (IV) DELIVERY

Widespread ASO Biodistribution



(1) Full Hemibrain Section

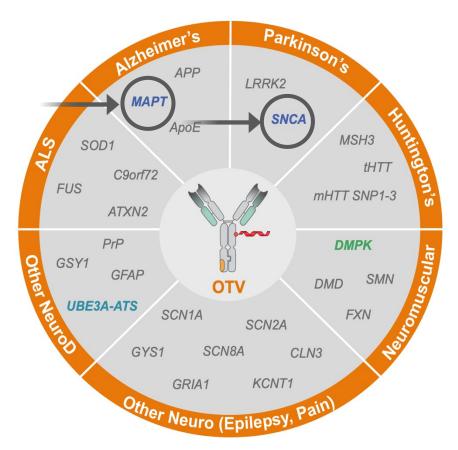
(2) Posterior Cortex overlaying Cerebellum

Cerebellum

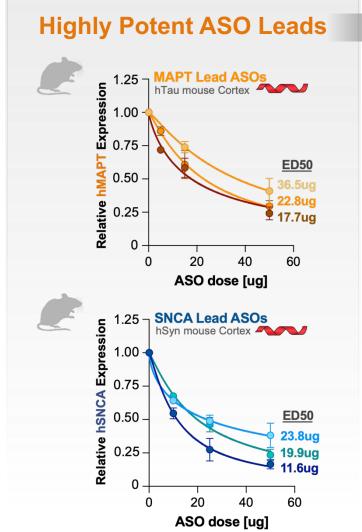
(4) Cervical Spinal Cord

(5) Lumbar Spinal Cord

MAPT AND SNCA ARE LEAD IND-ENABLING OTV PROGRAMS

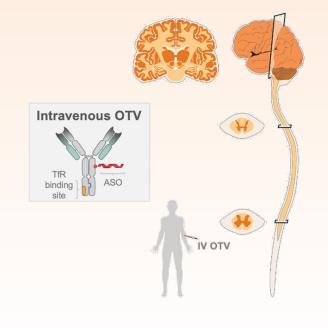


- MAPT (tau) and SNCA (α synuclein) are lead OTV programs in IND-Enabling stage
- Discovery programs include UBE3A-ATS, DMPK, and an epilepsy target



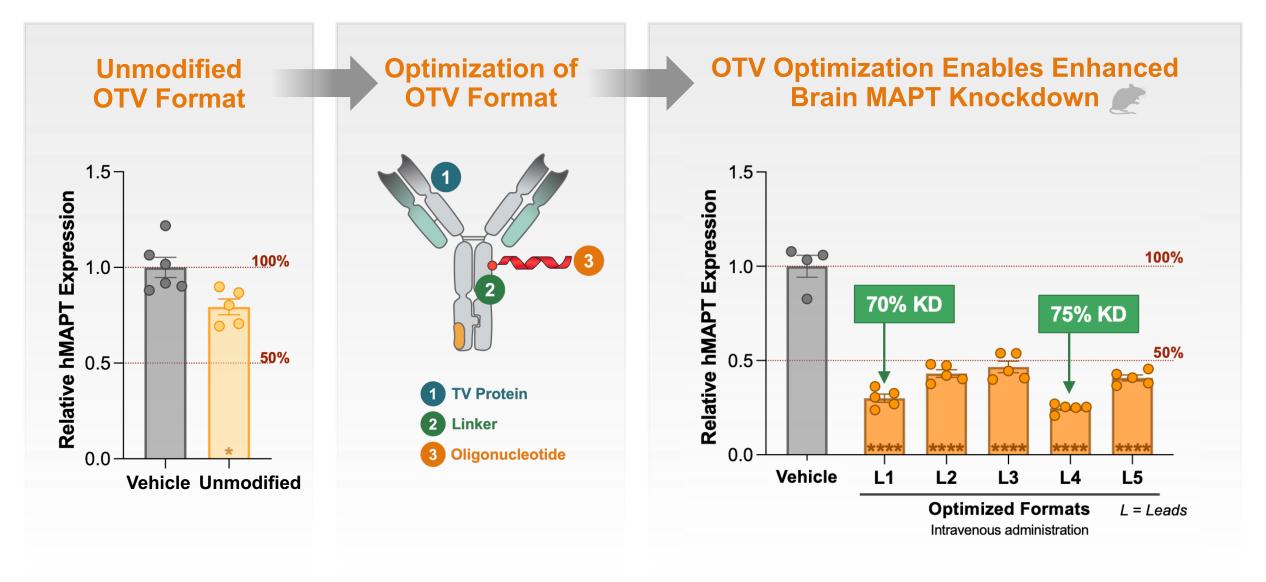
Optimize on OTV Format

 Enables brain delivery of ASOs via intravenous (IV) administration



ICV bolus in transgenic mice, 1.5wk after dose Data shown as Mean +/- SEM; n=2-5/group Relative gene expression normalized to Gapdh (housekeeping gene); expression relative to Vehicle Control

OPTIMIZING GENE KNOCKDOWN IN BRAIN WITH OTV PLATFORM



KD - knockdown



POSITIONED TO DELIVER ON OUR GOALS

PLATFORM

Proven and expanding
 Transport Vehicle (TV)
 platform for brain delivery



PEAK 1

- Commercial readiness for MPS II and ALS
- Clinical execution on PD, FTD-GRN, and MPS IIIA programs



PEAK 2

Focus on solving
 AD and PD with
 TV-enabled programs

Capitalized to Achieve Value Creating Milestones in Peaks 1 & 2

\$1.12 B (as of 9/30/23) with Runway into 2027



2024 MILESTONES

Expected 2024 Key Milestones for Denali-Led Programs

PROGRAM	MILESTONE	TIMING
	Additional interim Phase 1/2 data at WORLD	Feb 4-9
DNL310 (ETV:IDS)	Additional Interim Phase 1/2 data at SSIEM	Sept 3-6
	Complete enrollment of global Phase 2/3 COMPASS study in MPS II	2024
DNL593 (PTV:PGRN)	Continue Part B of Phase 1/2 study in FTD-GRN	2024
DNL126 (ETV:SGSH)	Preclinical data at WORLD	Feb 4-9
	Initiate dosing in Phase 1/2	Early 2024
	Biomarker proof of concept and safety data from Phase 1/2 study in MPS IIIA	Late 2024
DNL343 (eIF2B activator)	Complete enrollment of Regimen G in Phase 2/3 HEALEY ALS Platform Trial	2024
OTV:MAPT	IND enabling studies	2024
OTV:SNCA	IND enabling studies	2024

Expected 2024 Key Milestones for Partner-Led Programs

PROGRAM	MILESTONE	STRATEGIC PARTNER
BIIB122/DNL151 (LRRK2 inhibitor)	Continue Phase 2b LUMA study in early-stage PD	Biogen
ATV:Abeta	IND-enabling studies	Biogen
SAR443820/DNL788 (CNS-penetrant RIPK1 inhibitor)	Topline results of the Phase 2 HIMALAYA study in ALS (1H 2024)	sanofi
	Continue Phase 2 K2 study in MS	
SAR443122/DNL758 (Peripherally-restricted RIPK1 inhibitor)	Continue Phase 2 UC study	sanofi

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OUR PURPOSE: DEFEAT DEGENERATION



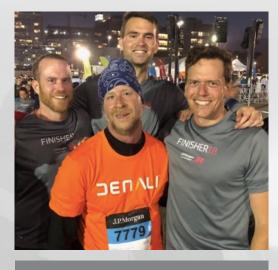
LYSOSOMAL STORAGE **DISEASES**

Dominic, living with MPS II



ALS/FTD

Seth, living with ALS



PARKINSON'S DISEASE

Allan, living with PD



ALZHEIMER'S DISEASE

Denali Team at AD Walk 2023



Denali

The name captures the formidable challenges in fighting neurodegenerative diseases but also the unprecedented opportunities enabled by new scientific insights and technologies. With a relentlessly committed team and rigorous effort, breakthroughs appear to be within reach.

THANK YOU

www.denalitherapeutics.com