

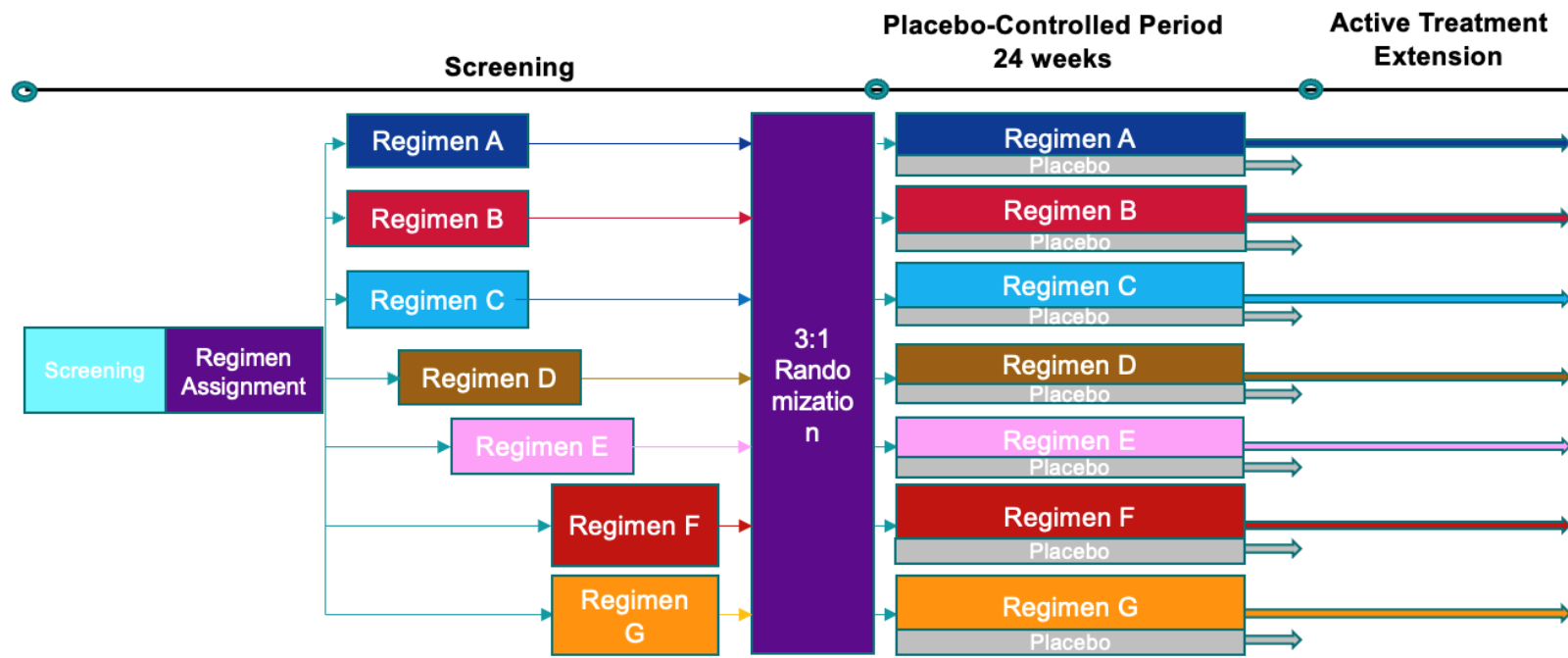
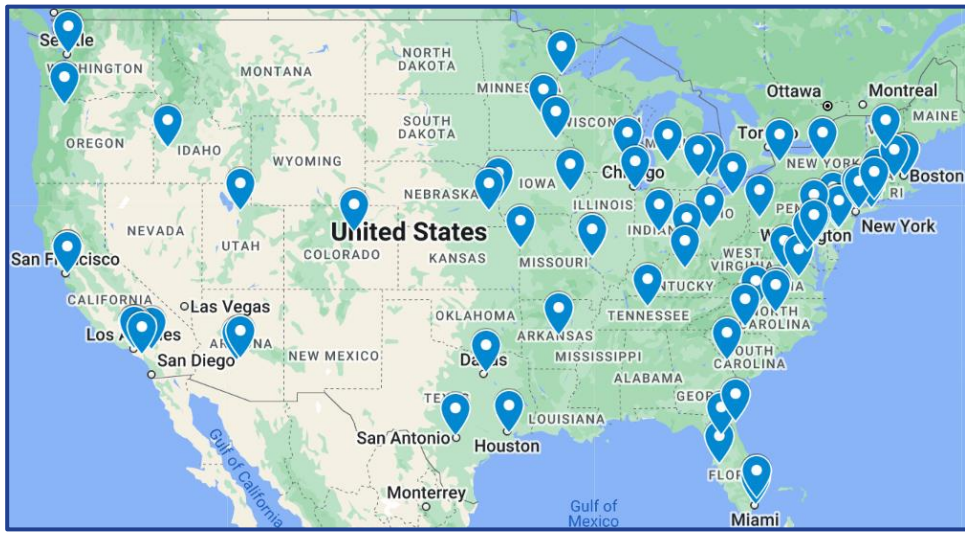


DNL343 in Amyotrophic Lateral Sclerosis:
Results from Regimen G in the Healey Platform Trial

Danna Jennings, MD
Denali Therapeutics

The HEALEY ALS Platform Trial

- Perpetual, adaptive trial testing multiple drugs
- Enrolling at over 70 NEALS sites
- Shared infrastructure with improved efficiency by sharing of placebos
- Efficient startup and rapid enrollment
- Expert investigators, biostatisticians, and sites
- Each regimen designed to provide efficient go / no go decisions to inform the clinical development plan
- Each regimen includes active drug and matching placebo



Merit Cudkowicz
Platform Trial PI

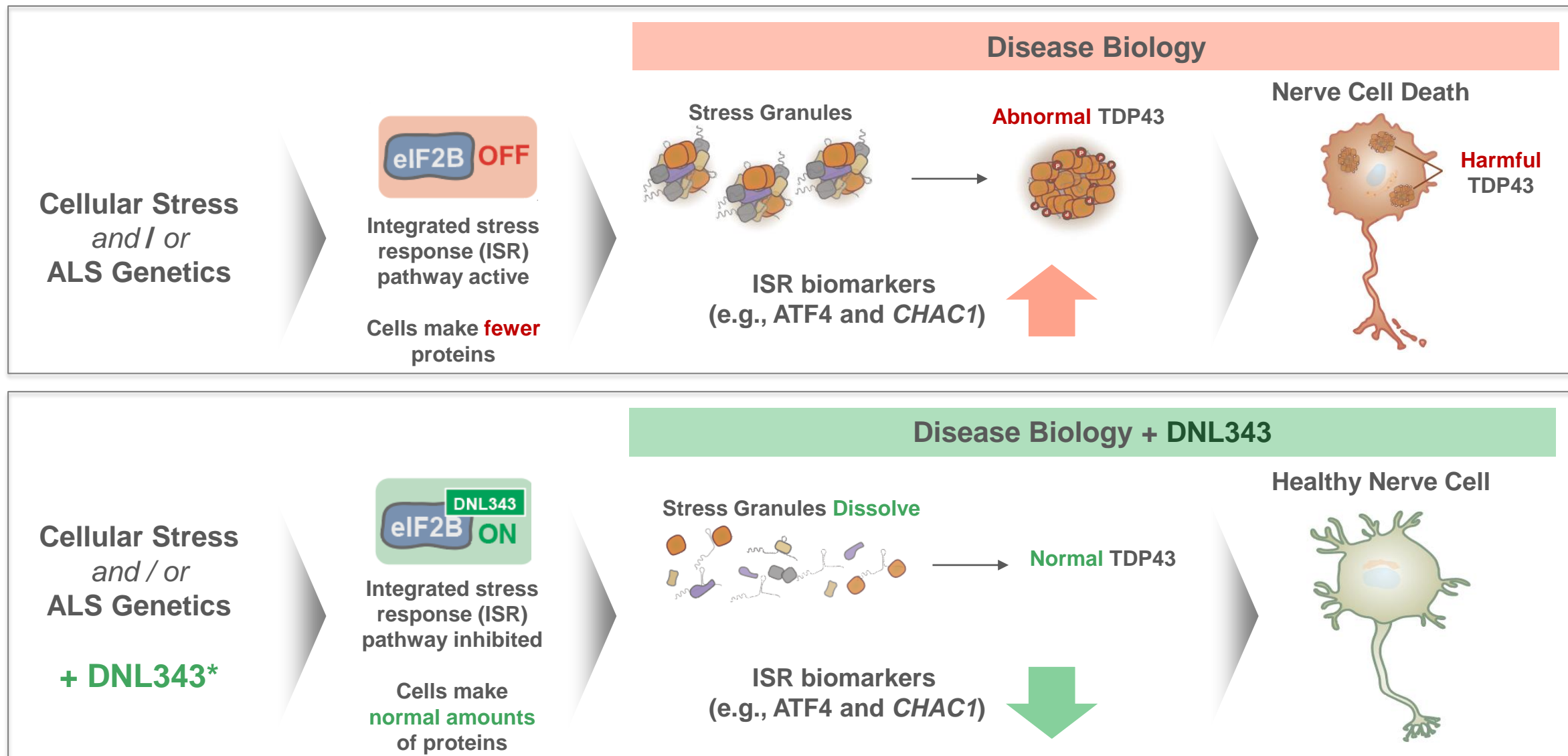
Suma Babu and Sabrina Paganoni
Regimen G lead investigators

Regimen G and Regimen F
shared placebo data

A grayscale microscopic image of neurons, showing a dense network of cell bodies and branching processes. The text "DNL343 Regimen G" is overlaid in white.

DNL343 Regimen G




THERAPEUTIC HYPOTHESIS FOR DNL343 IN ALS



*DNL343 is an investigational drug and has not been approved by any Health Authority

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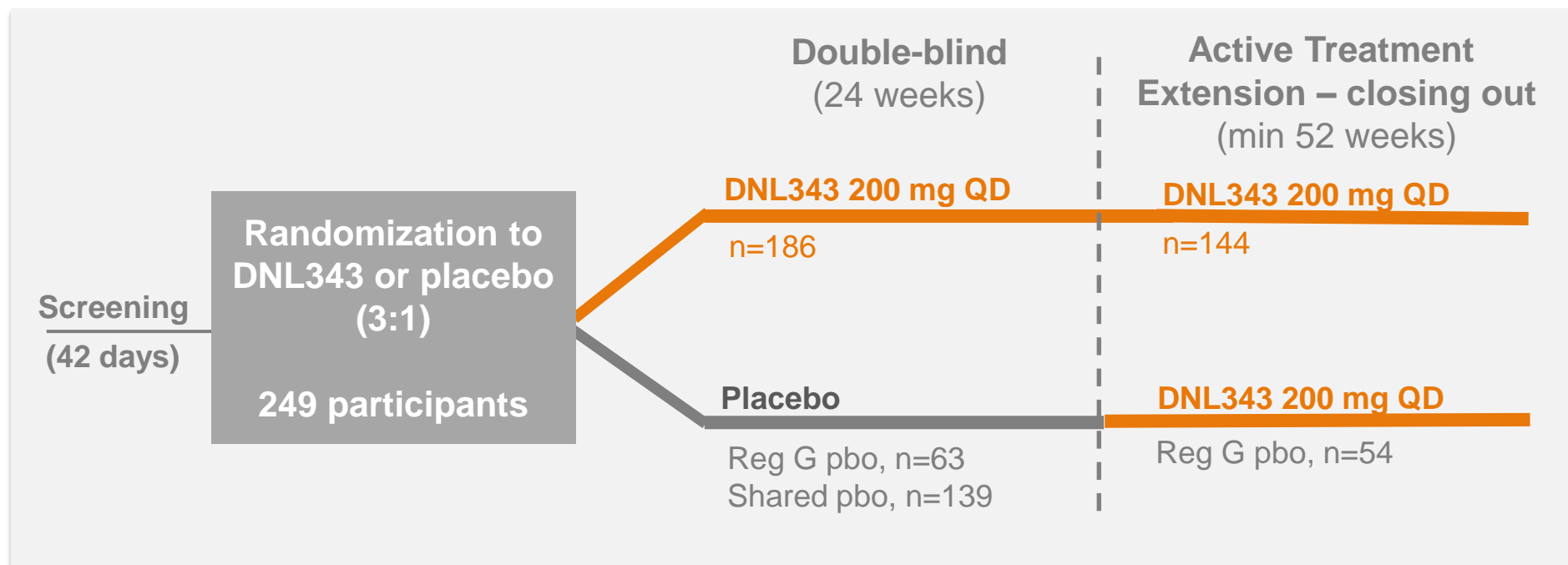
DNL343 STUDIES IN ALS PARTICIPANTS

	Phase 1b Study ALS Participants	Healey Platform Trial Regimen G
 <i>Population</i>	29 Participants with ALS	249 Participants with ALS
 <i>Study Design</i>	Randomized (2:1, DNL343:placebo) 28-day double-blind treatment period 18-month OLE	Randomized (3:1, DNL343:placebo) 24-week double-blind treatment period 52-week active treatment extension
 <i>Endpoints</i>	<ul style="list-style-type: none">• Safety• DNL343 levels (pharmacokinetics)• Biomarkers of neurodegeneration (NfL)• ISR pathway biomarkers (ATF-4, <i>Chac1</i>)	<ul style="list-style-type: none">• Clinical efficacy• Biomarkers of neurodegeneration (NfL)• ISR pathway biomarker (GDF-15)• Safety

Clinicaltrials.gov: **NCT05006352**

Clinicaltrials.gov: **NCT05842941**

HEALEY REGIMEN G (DNL343) STUDY DESIGN



Key Inclusion Criteria

- ≤ 36 months from symptom onset
- SVC ≥50% predicted capacity
- If on SOC (Riluzole, Edaravone, Relyvrio) on stable dose

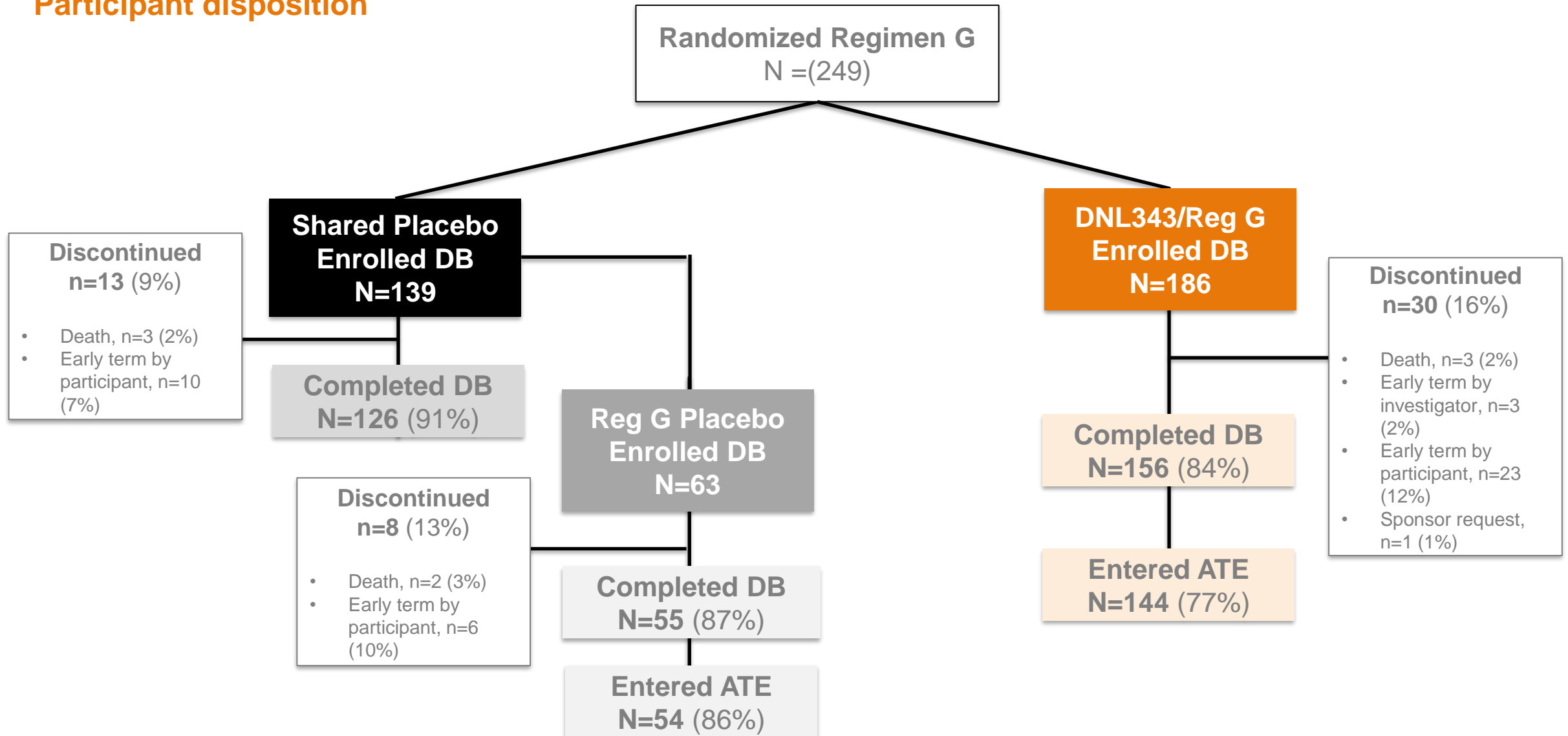
Primary Endpoint	Secondary Endpoints (@24 weeks)	Exploratory Endpoints
Change from Baseline in disease severity measured by ALSFRS-R total score and survival (Bayesian approach)	Change from BL in: <ul style="list-style-type: none"> ▪ ALSFRS-R ▪ CAFS ▪ SVC % Predicted ▪ Serum NfL ▪ Muscle Strength (HHD) ▪ Survival (death/PAV) 	Change from BL in: <ul style="list-style-type: none"> • ISR pathway and disease biomarkers • Plasma and optional CSF PK • Patient-reported outcomes (ALSAQ-40, ROADS, PGI-C, PGI-S) • CGI-C

DNL343/ REGIMEN G DEMOGRAPHICS AND BL CHARACTERISTICS

Baseline Characteristics		DNL343 200 mg QD (n=186)	Shared (Reg F+G) Placebo (n=139)	Regimen G Placebo (n=63)
Age, mean (SD)		59.5 (11.6)	57.7 (11.5)	57.3 (11.9)
Sex, n (%)	Male/Female	104 (55.9%) / 82 (44.1%)	92 (66.2%) / 47 (33.8%)	45 (71.4%) / 13 (20.6%)
Race n (%)	Asian	5 (2.7%)	6 (4.3%)	1 (1.6%)
	Black	3 (1.6%)	4 (2.9%)	1 (1.6%)
	White	175 (94.1%)	126 (90.6%)	61 (96.8%)
Duration from onset (months) mean (SD)		19.7 (8.1)	20.3 (7.6)	21.0 (7.9)
Site of ALS Onset, n (%)	Bulbar	29 (15.6%)	17 (12.2%)	6 (9.5%)
ALSFRS-R score, mean (SD)		36 (6.3)	36.4 (6.3)	36 (5.9)
SVC % predicted, mean (SD)		85.0 (18.9)	84.4 (16.1)	83.6 (15.1)
Serum NfL: log-transformed, mean (SD) pg/mL, median (IQR)		4.08 (0.64) 62.5 (42.9, 90.1)	3.97 (0.65) 54.1 (35.5, 88.1)	3.91 (0.62) 49 (33.4, 75.5)
CSF NfL: log-transformed, n, mean (SD) pg/mL, median (IQR)		62, 8.5 (0.70) 5090 (3300, 6900)	75, 8.4 (0.95) 5220 (3160, 8550)	20, 8.6 (0.51) 5570 (4370, 7480)
ALS medications n (%)	riluzole only	161 (86.6)	119 (85.6)	54 (85.7)
	edaravone only	115 (61.8)	86 (61.9)	40 (63.5)
	relyvrio only	102 (54.8)	81 (58.3)	35 (55.6)
	All three medications	74 (39.8%)	58 (41.7%)	25 (39.7%)

WELL-CONDUCTED STUDY WITH HIGH RATE OF RETENTION

Participant disposition

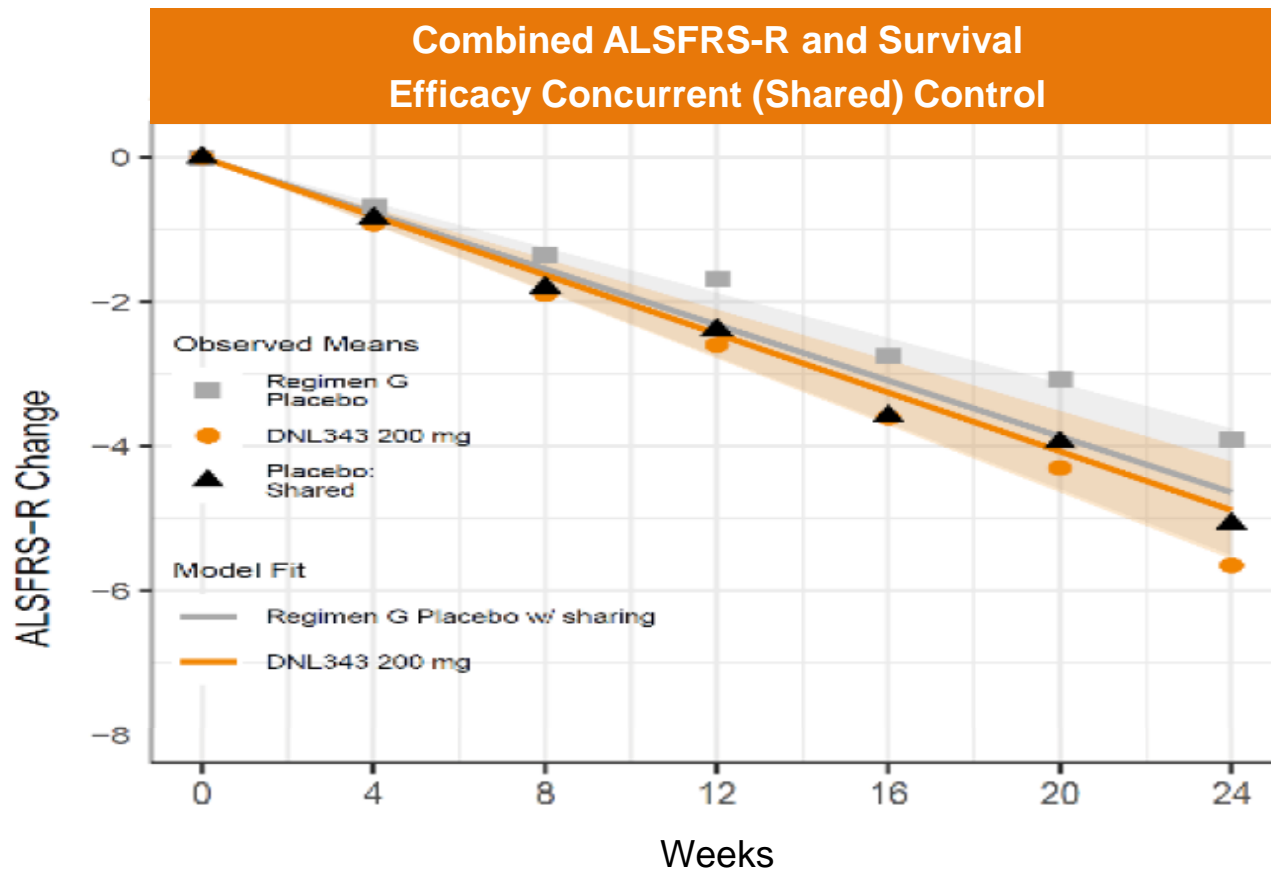


A grayscale microscopic image of neurons, showing a dense network of cell bodies and branching processes. The neurons are highlighted against a dark background, with some showing bright, star-like fluorescence at their cell bodies.

DNL343 Regimen G Primary and Secondary Endpoints

DNL343/REGIMEN G PRIMARY ENDPOINT:

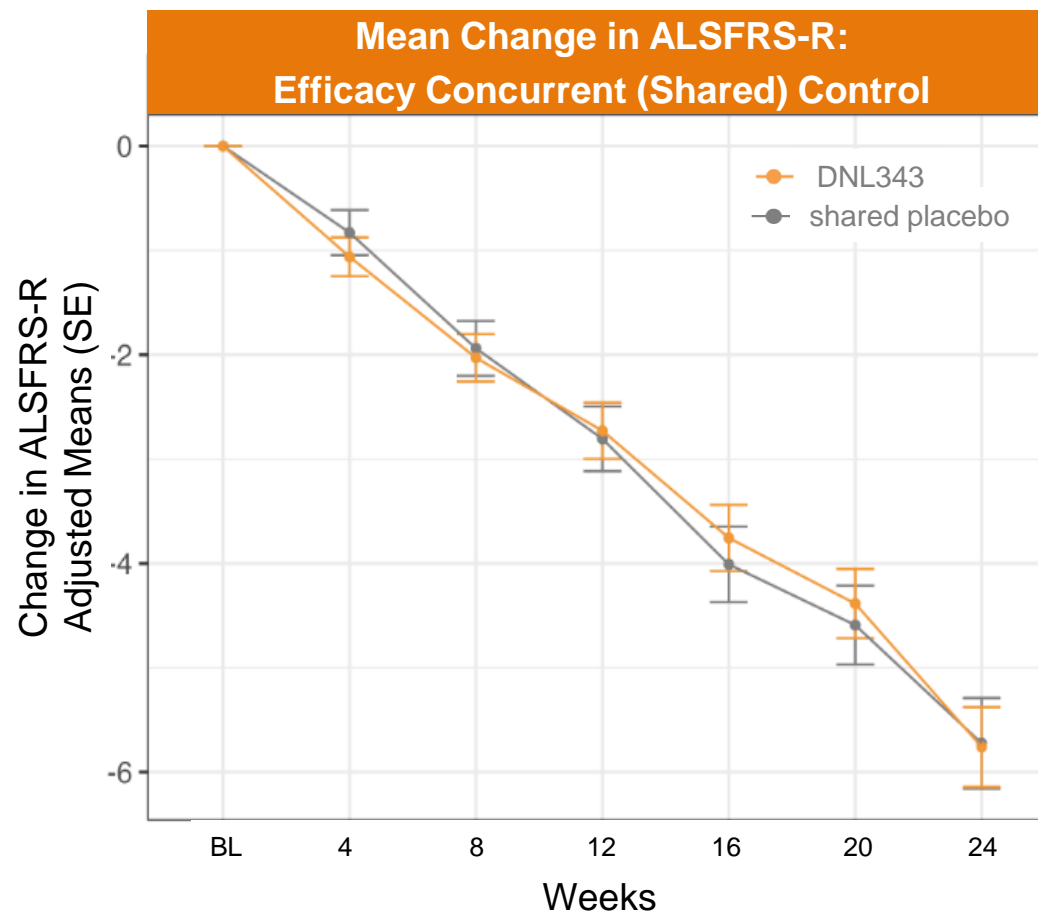
Change in ALSFRS-R and survival in 24-week double-blind period



DNL343 showed no effect on progression measured by the ALSFRS-R Scale

DNL343/REGIMEN G SECONDARY ENDPOINTS:

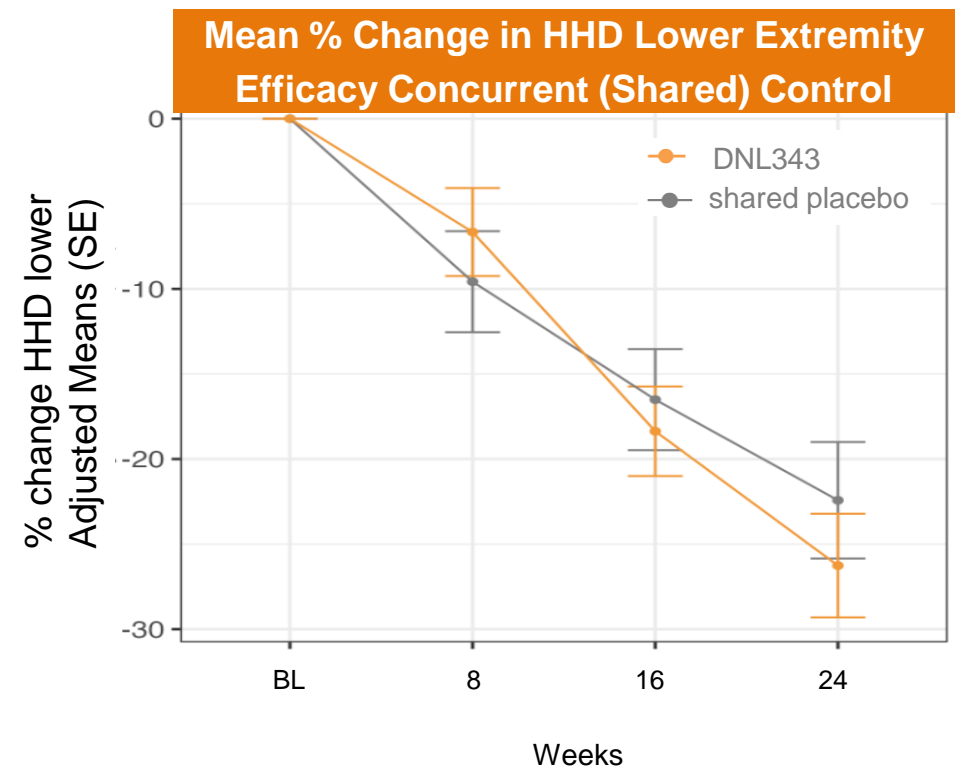
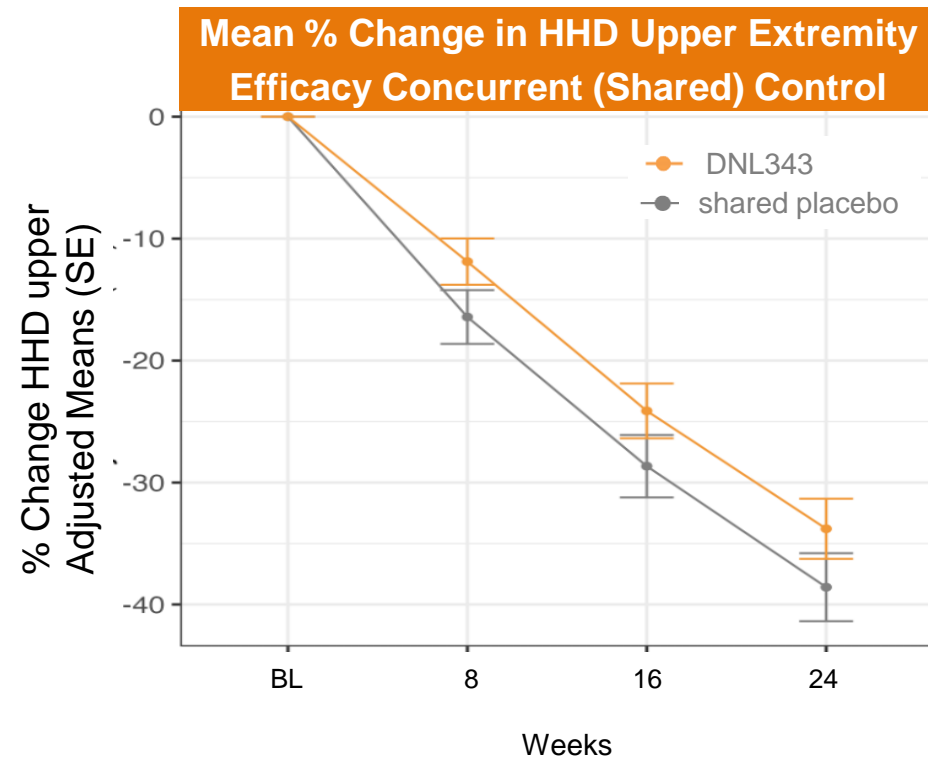
Change in ALSFRS-R in 24-week double-blind period



Similar rate of progression on ALSFRS-R in DNL343 treated and shared placebos (~1 pt/month)

DNL343/REGIMEN G SECONDARY ENDPOINTS:

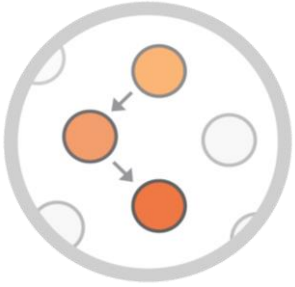
Mean % change in hand-held dynamometry (upper and lower) in 24-week double-blind period



Small percent greater worsening in shared placebo in upper HHD outcome compared to DNL343; not replicated for the lower extremity HHD composite outcome

Biomarkers

DNL343 (REGIMEN G) BIOMARKER STRATEGY



Pathway Engagement:
Does DNL343 inhibit ISR?

- ISR biomarkers measured in CSF



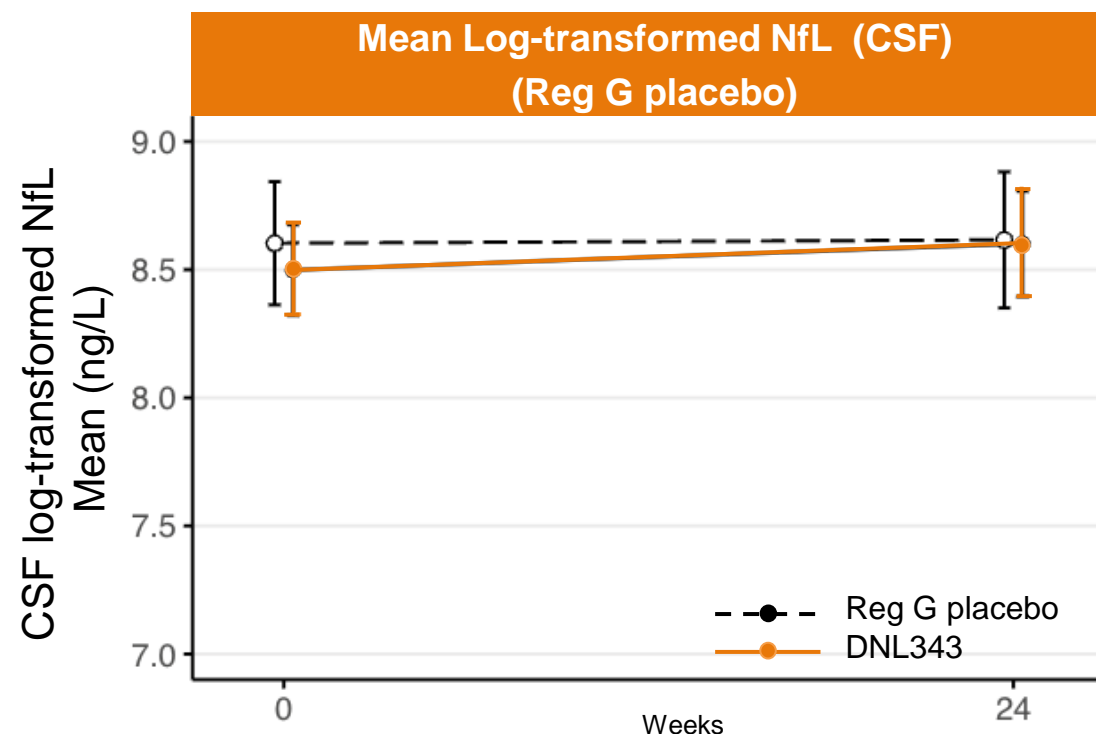
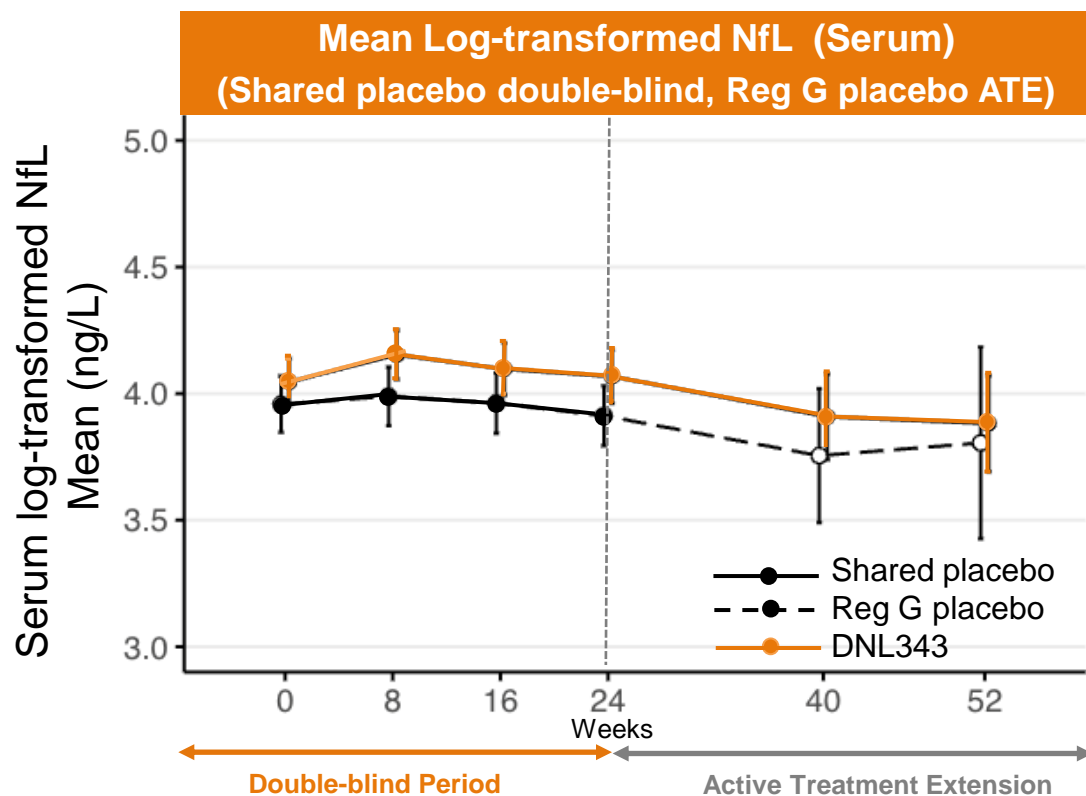
Disease Biomarkers:
Does inhibiting the ISR alter ALS biomarkers?

- NfL and other disease markers measured, in plasma and CSF
- Cryptic exon biomarkers of TDP-43 pathology (developed at DNLI)

Biomarker strategy focused on NfL with other exploratory disease biomarkers included to understand correlation with clinical endpoints

DNL343/REGIMEN G SECONDARY ENDPOINTS:

- Serum Log-transformed NfL in 24-week double-blind period and ATE up to 52 weeks
- CSF Log-transformed NfL in up to 24 weeks



- **No reduction in serum or CSF NfL with DN343 treatment;**
- **~5% difference in serum log-transformed NfL at 24 weeks and $\leq 5\%$ at 52 weeks**

DNL343/REGIMEN G SAFETY ENDPOINTS:

Overview of safety and tolerability in 24-week double-blind period

	DNL343 200 mg (N=186)	Shared Placebo (N=139)	Reg G Placebo (N=63)
Any TEAE	173 (93%)	122 (88%)	52 (83%)
Any Severe TEAE	29 (16%)	21 (15%)	11 (18%)
Any Serious TEAE	27 (15%)	16 (12%)	10 (16%)
Treatment-related Serious TEAE	3 (1.6%)	0	0
Any Fatal TEAE	3 (1.6%)	3 (2.2%)	2 (3.2%)
Any TEAE Leading to Study Drug			
Withdrawal	18 (10%)	8 (5.8%)	5 (7.9%)
Interruption	27 (15%)	16 (12%)	8 (13%)
Reduction	5 (2.7%)	1 (0.7%)	1 (1.6%)

Note: treatment-emergence was defined as occurring prior to or within 30 days of last treatment

- SAEs reported in 27 (15%) DNL343 treated participants
 - 3 SAEs related to DNL343 (Transaminase increase, ECG ST segment abnormal, Drug eruption), all non-fatal
- Most common TEAEs (>10% of participants) in RCT and more common in DNL343 treated vs PBO included:
 - Fall
 - DNL343 73 (39.2%), PBO 44 (31.7%)
 - Fatigue
 - DNL343 41 (22.0%), PBO 17 (12.2%)
 - Urinary tract infection
 - DNL343 20 (10.8%), PBO 4 (2.9%)
 - Increased transaminase level*
 - DNL343 19 (10.2%), PBO 2 (3.2%)
 - One withdrawal and 6 with dose interruptions, 4 successfully rechallenged

*includes multiple terms: Hypertransaminemia, Transaminitis, ALT increased, AST increased, Transaminase increased, Liver function test increased


SUMMARY OF THE HEALEY PLATFORM REGIMEN G (DNL343)




Primary and secondary endpoints of Regimen G were not met.



The Healey Platform Trial for Regimen G was a well-conducted trial that provided decisional data.



Given the lack of treatment effects observed, further investigations of DNL343 in ALS are not warranted.



Data from DNL343/Regimen G will continue to be evaluated to better inform future trials in ALS.

ACKNOWLEDGMENTS

Thank you to all study participants and their families, investigators and site staff, and the Healey leadership for their generous contributions to the DNL343 clinical development program!

