

Lexeo Therapeutics Corporate Overview

April 2024



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Lexeo Therapeutics Team

Management Team & Key Advisors



R. Nolan Townsend
Chief Executive Officer



Eric Adler, M.D.
Chief Medical Officer and
Head of Research



Sandi See Tai, M.D.
Chief Development Officer



Jenny R. Robertson
Chief Business and Legal Officer



Jordan Shin, M.D., Ph.D.
SVP, Clinical Development and
Translational Science, Cardiology



Rajiv Patni, M.D.
Senior Advisor to the CEO
and Board of Directors



Chair and Scientific Founder



Steven Altschuler, M.D.
Chairman



Ronald Crystal, M.D.
Founder & Chief Scientific Adviser



Professor and Chairman, Weill Cornell Medicine
Director, Belfer Gene Therapy Core Facility

Former Chief,
Pulmonary Branch



Founder / Co-founder



Management team with broad leadership experience in gene therapy and rare disease

Revolutionizing Genetic Medicines for Cardiovascular Diseases and APOE4-Alzheimer's

Attractive Disease Area Strategy

- Genetically-defined cardiovascular and APOE4-associated Alzheimer's disease
- Well established biomarkers potentially allowing for early signs of clinical activity



Genetic Variant or
Disease Phenotype



Evolving Regulatory Environment

Shift towards surrogate endpoints could circumvent need for large cardiovascular outcome trials



Targeted Delivery Platform

Improvements in modern AAV delivery technology, including AAVrh10 allows for greater targeting of the heart



Increased Genetic Screening

Increased screening has potential to expand awareness and increase opportunity



Lower Efficacy for APOE4 Patients⁽¹⁾

APOE4 homozygotes demonstrated lower efficacy results compared to heterozygotes and noncarriers



Higher Risk of ARIA-E⁽¹⁾

APOE4 homozygotes were associated with a higher incidence of ARIA-E compared to heterozygotes and noncarriers

Focused on genetically-defined cardiovascular diseases
with data from Alzheimer's disease driving business development

Note: ARIA-E = amyloid-related imaging abnormalities characterized by edema and effusion.

(1) Van Dyck, et al. New England Journal of Medicine, 2022. Sims, et al. JAMA, 2023.

Lexeo Investment Highlights

Clinical-stage genetic medicine company addressing larger-rare and prevalent patient populations



Cardiac Portfolio

- Ongoing Phase 1/2 trial for **Friedreich's ataxia cardiomyopathy**, with early clinical data demonstrating potential clinical benefit
- Cleared IND for LX2020 for the treatment of **arrhythmogenic cardiomyopathy caused by mutations in the PKP2 gene (PKP2-ACM)**
- Potential to be one of the first genetic medicine companies **with data from two cardiac gene therapy programs in 2024**



APOE4 Alzheimer's Portfolio

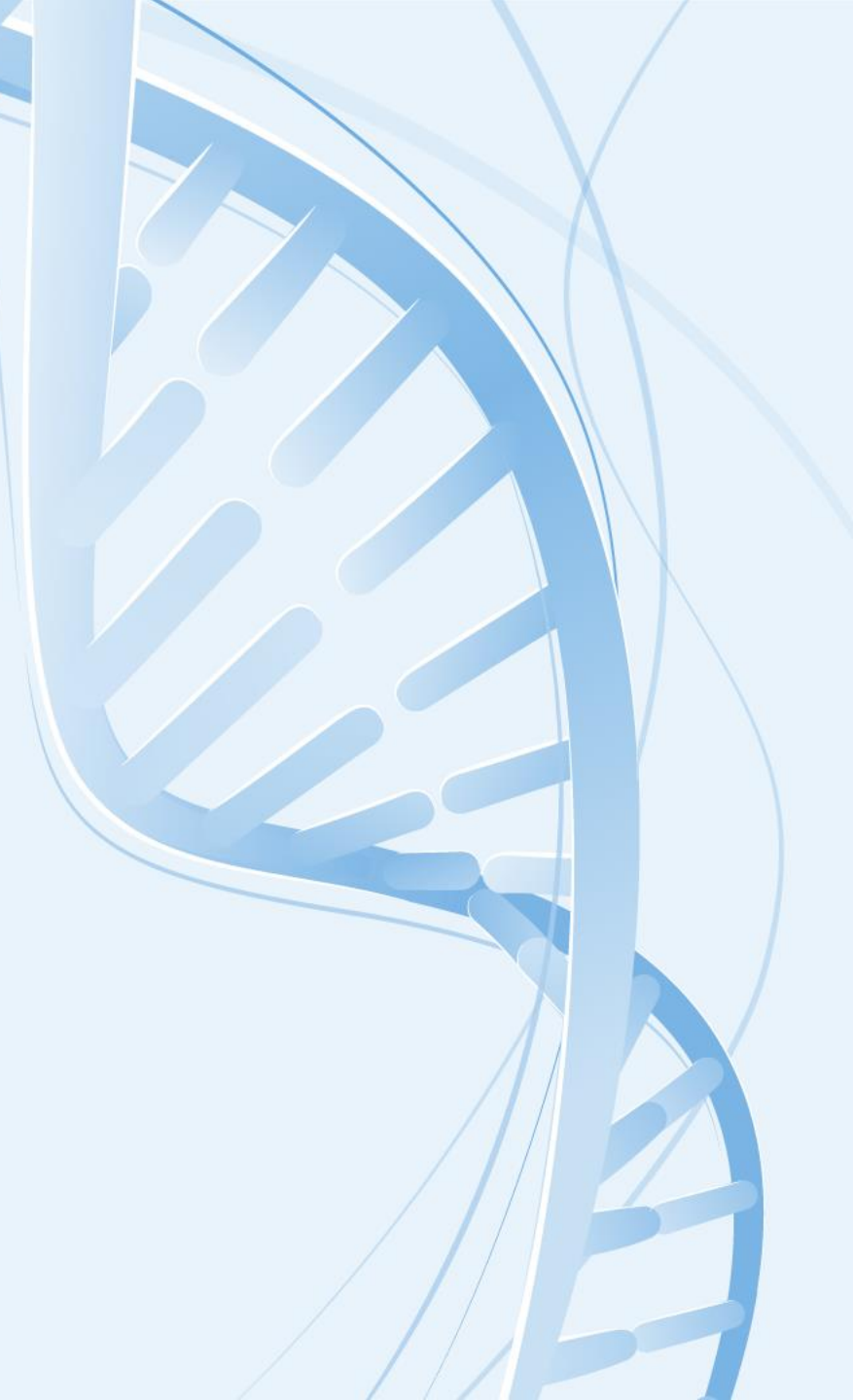
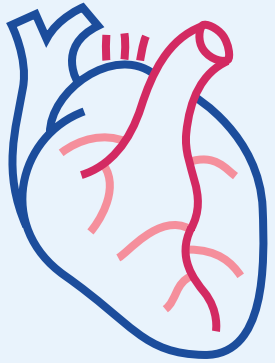
- **Significant optionality on portfolio of approaches to treat the genetics underlying APOE4-associated Alzheimer's disease**; estimated 900,000 E4 homozygotes in the US
- **Observed a decline in CSF biomarkers** in initial clinical data from Cohort 1 of ongoing Phase 1/2 clinical study of LX1001
- Phase 1/2 data readout in 2H 2024 **potentially driving business development**

Advancing Genetic Medicines in Larger-Rare and Prevalent Patient Populations

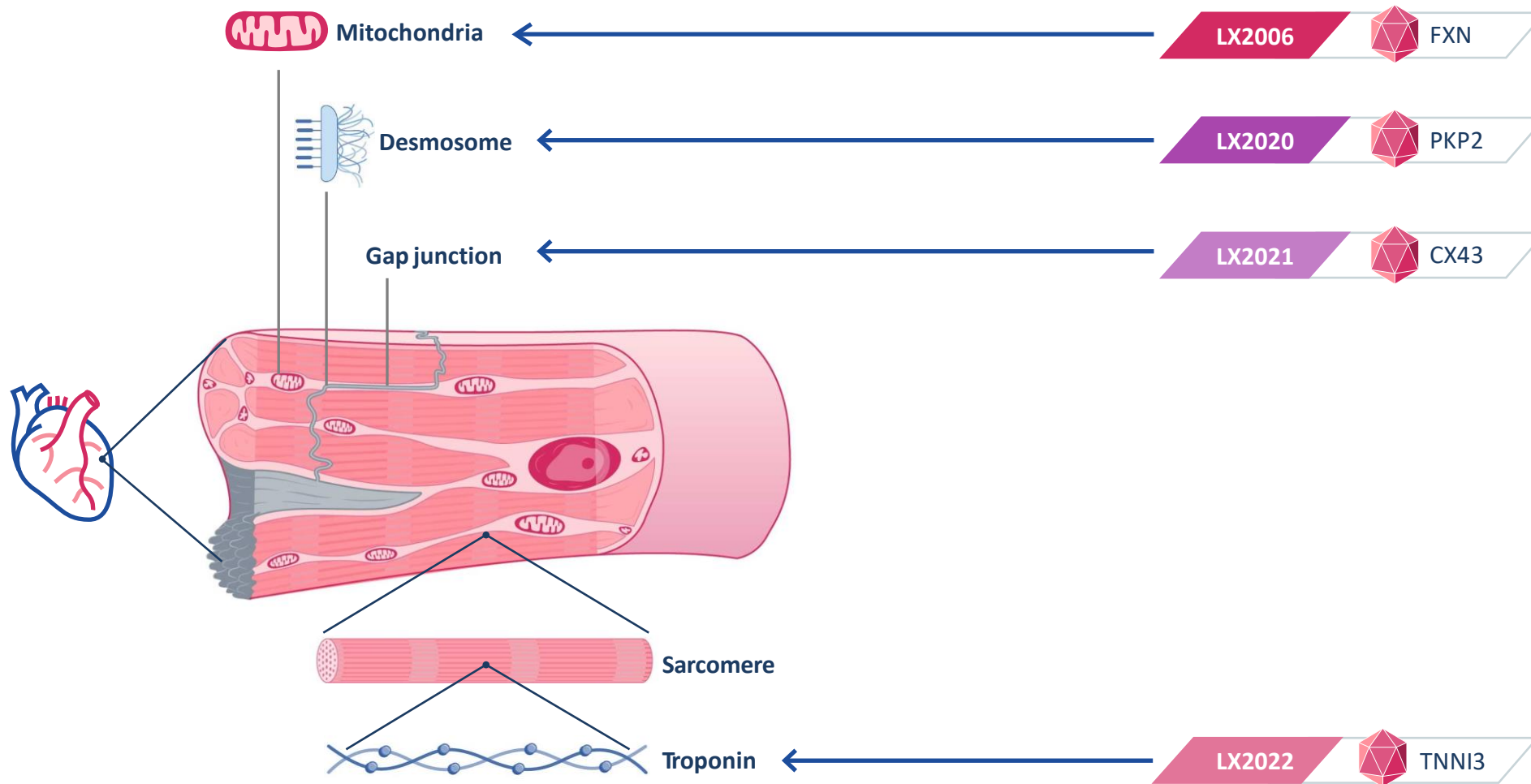
	Programs:	Indication:	Gene of Interest:	Preclinical:		Clinical:		Upcoming Milestones:
				Discovery	Preclinical	Phase 1/2	Phase 2/3	
Cardiovascular	LX2006	FA Cardiomyopathy	FXN	~5k US Pts				Mid-2024: Interim Data Readout
	LX2020	PKP2-ACM ⁽¹⁾	PKP2	~60k US Pts				1H 2024: First Patient Dosed 2H 2024: Interim Cohort 1 Data
	LX2021	DSP ⁽²⁾ Cardiomyopathy	CX43	~35k US Pts				2024: Initiate IND-Enabling Studies
	LX2022	Hypertrophic Cardiomyopathy	TNNI3	~25k US Pts				2024: Candidate Selection
APOE4-Associated Alzheimer's Disease	LX1001	Alzheimer's: APOE4 homozygotes	APOE2+	~900k US Pts				2H 2024: Phase 1/2 Data Readout
	LX1021	Alzheimer's: APOE4 homozygotes	Christchurch ⁽³⁾ APOE2+	~900k US Pts				2024: Pre-IND Meeting
	LX1020	Alzheimer's: APOE4 homozygotes	APOE2+ APOE4-	~900k US Pts				2024: Candidate Selection

- (1) Arrhythmogenic Cardiomyopathy
 (2) Desmoplakin
 (3) Christchurch Modified APOE2 gene

Cardiovascular diseases



Several Targets in Cardiac Organelles that are Dysregulated in Cardiomyopathy; Potential Readthrough to Other Therapeutic Indications



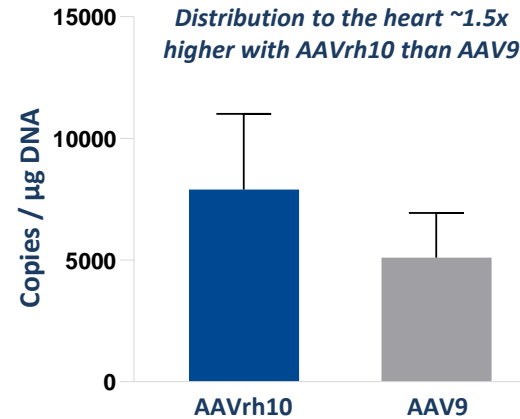
Utilizing AAVrh10 for Initial Genetic Cardiac Indications

- ✓ Observed ~1.5x to 2.0x greater biodistribution in the heart compared to AAV9 in multiple large animal models
- ✓ Observed greater trends of functional improvements in PKP2-murine model compared to AAV9
- ✓ AAVrh10 cardiac tropism may allow for lower doses compared to other vector serotypes while achieving targeted transgene biodistribution

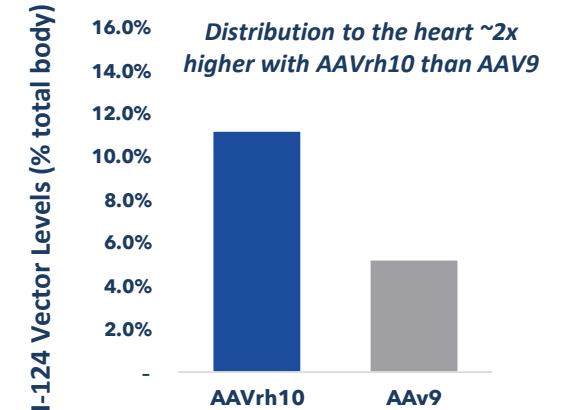
Compelling Cardiac Tropism



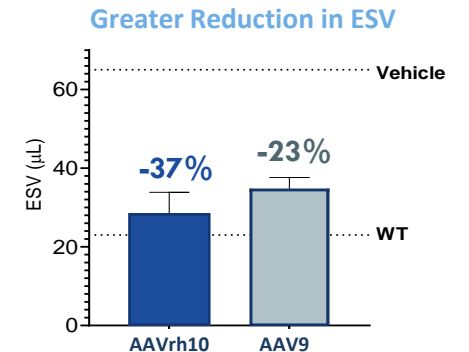
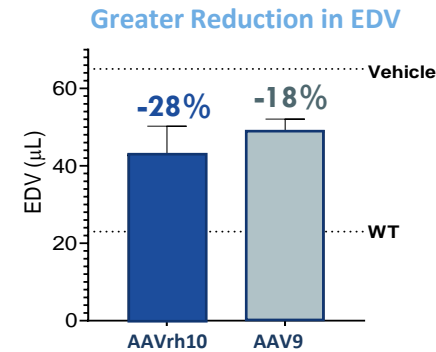
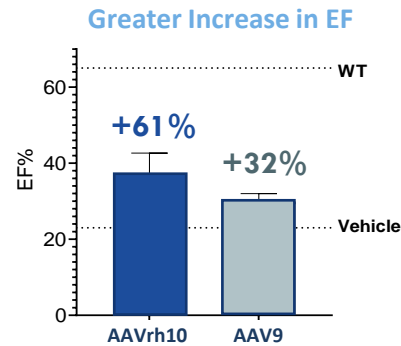
Yucatan Minipig Biodistribution⁽¹⁾



NHP Biodistribution⁽²⁾



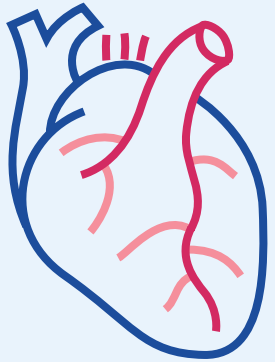
Greater Trends of Functional Improvement Versus AAV9 in PKP2-ACM Model⁽¹⁾



Note: PKP2 homozygous mouse model administered with human PKP2 (N = 5 mice / group).

(1) Data presented at ASGCT 2023.
(2) Ballon DJ et al, Human Gene Therapy, 2020.

LX2006 (FA Cardiomyopathy)

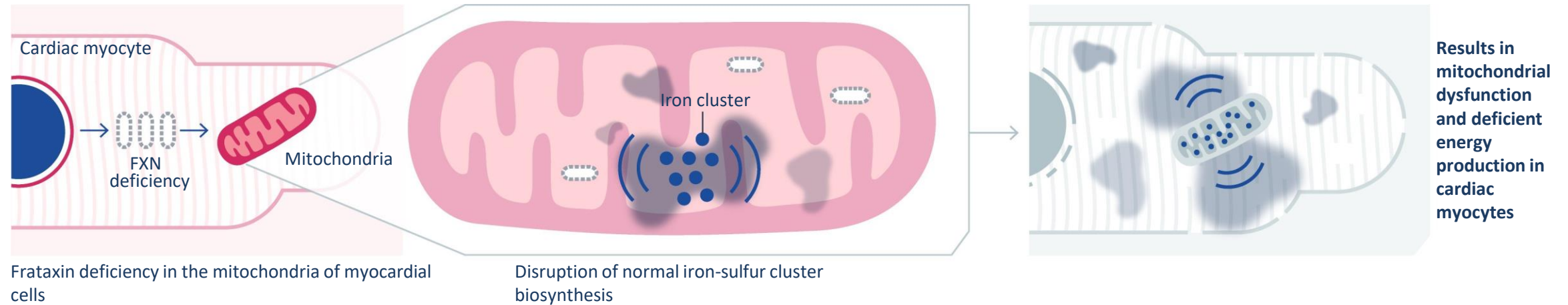


Friedreich's Ataxia Cardiomyopathy and How LX2006 is Designed to Treat It

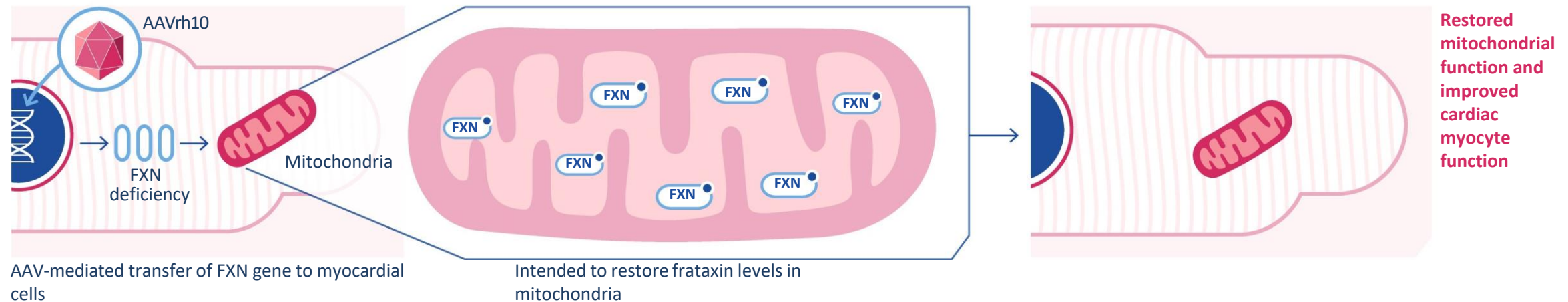
LX2006

FA Cardiomyopathy

Disease mechanism



LX2006 mechanism

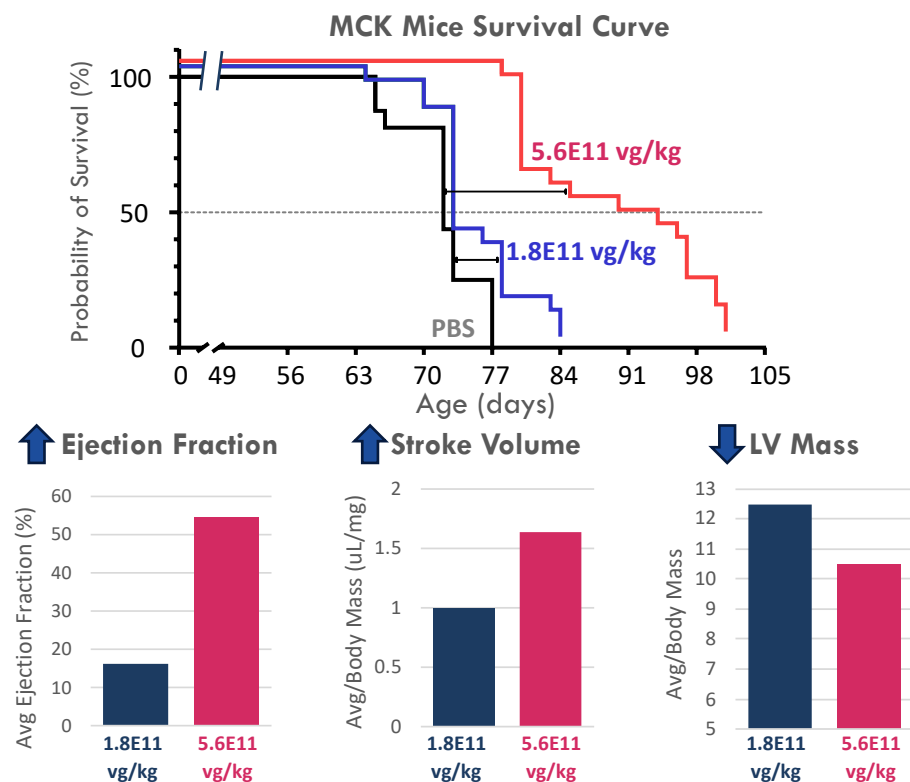


Preclinical Models Suggest Low Levels of FXN May be Sufficient for Physiological Improvement

LX2006

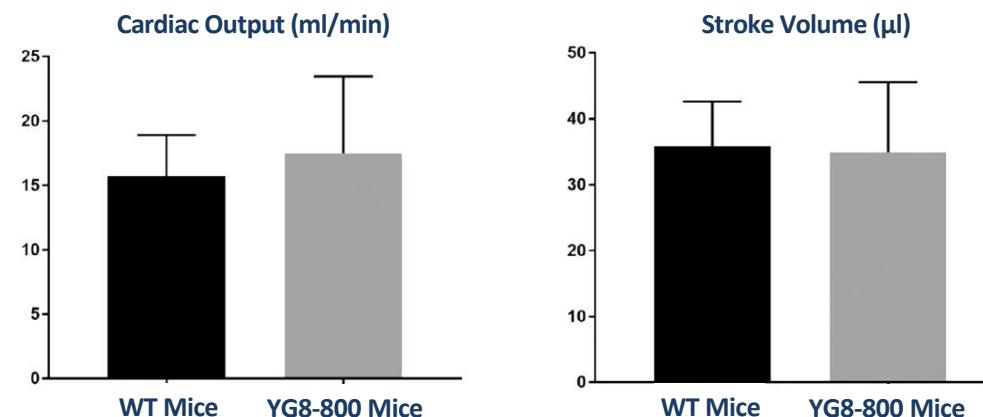
FA Cardiomyopathy

1 LX2006 Dose-Escalation Resulted in Survival and Functional Improvement in MCK Preclinical Studies



Dose-escalation resulted in improvement in survival and cardiac function with no toxicity signals in preclinical MCK model

2 Recently Developed FA Murine Models Suggest Potential FXN Therapeutic Target Level



YG8-800 mouse, with approximately 800 GAA repeats, has ~5% of normal FXN in the heart and displays near normal cardiac output and stroke volume⁽¹⁾

(1) A promising mouse model for Friedreich Ataxia progressing like human patients, Behavioral Brain Research, 2023.

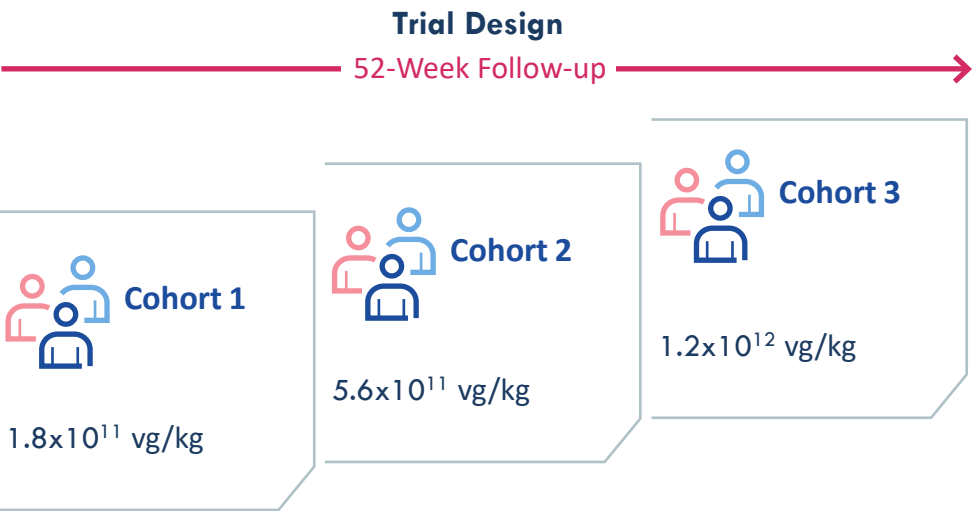
LX2006 Friedreich’s Ataxia Phase 1/2 (SUNRISE-FA) Overview

Key Features:

- 52-week, dose-ascending, open-label trial with long-term follow-up (5-years post dose)
- Vector: AAVrh10
- Route of Administration: systemic administration
- Immune Suppression: prednisone

Key Inclusion Criteria:

- Adults with FA identified based on genotyping
- Left ventricular hypertrophy / EKG changes
- Ejection fraction $\geq 40\%$



Endpoints:

Primary Endpoint: Safety

Additional Endpoints:

- **Cardiac biopsy: FXN expression⁽¹⁾**
- **Cardiac imaging: Structure + function**
- **LV hypertrophy**
- Cardiac strain
- Ejection fraction
- Symptoms during CPET
- CPET Peak VO₂
- Cardiac arrhythmias
- Cardiac serum biomarkers
- FA neurologic scales

Patients Treated with LX2006 Across Trials⁽²⁾, as of April 22, 2024

Dose	Combined Enrollment Update and Months of Follow-up		
	>12 Months	6-12 Months	<6 Months
Cohort 1 1.8x10 ¹¹ vg/kg	3	3	-
Cohort 2 5.6x10 ¹¹ vg/kg	-	2	3

(1) Cardiac biopsies performed only in Lexeo sponsored SUNRISE-FA trial.
(2) Includes patients from Cornell sponsored IIT and Lexeo sponsored SUNRISE-FA trial. LX2006 mid-2024 data readout to include data set from both clinical trials.

LX2006: We Believe the First and Only Clinical Stage Program to Demonstrate Increased FXN in Target Organ with Potential Early Clinical Benefit

	Cohort 1 1.8x10 ¹¹ vg/kg			Cohort 2 5.6x10 ¹¹ vg/kg		
	Hypertrophy	Troponin	CPET	Hypertrophy	Troponin	CPET
Cardiac Biomarkers ⁽¹⁾	Average LVMI improvement of 9g/m ² or ~10% (n=2)	Average reduction of 41% (n=2)	Improvement in peak VO2 of 43% (n=1) ⁽²⁾	Cohort 2 biomarker data expected in mid-2024 readout		
	LCMS		IHC	LCMS		IHC
	Increase of 0.22 ng/mg (+29% from baseline) (n=1)		+65% increase in area stained from baseline (n=1)	Avg. increase of 1.10 ng/mg (+79% from baseline) (n=2)		IHC analysis expected in mid-2024 readout

- ✓ We believe LX2006 is the first ever clinical stage program to show target organ increase in FXN protein
- ✓ Improvements in cardiac biomarkers observed in low dose Cohort 1 demonstrate potential of LX2006 to impact disease pathology
- ✓ Cardiac biopsy analysis demonstrated increase in FXN protein following treatment by two independent methods: LCMS (n=3) and IHC (n=1)
- ✓ To date, LX2006 has been well tolerated with no reported treatment-related serious adverse events

Note: LCMS = Liquid chromatography mass spectrometry, FXN = Frataxin, IHC = immunohistochemistry.

(1) Two subjects treated in Weill Cornell Medicine investigator initiated trial using product candidate referred to as LX2006 at Lexeo; results presented at Friedreich’s Ataxia Research Alliance webinar hosted July 10, 2023.

(2) One subject was not evaluated for peak VO2 at the 6-month visit.

Ongoing Study of AAVrh.10hFXN⁽¹⁾ at 1.8x10¹¹ vg/kg Dose: Early Signs of Potential Clinical Benefit

LX2006

FA Cardiomyopathy

Subject	Left Ventricular Mass Index (g/m ²)				High Sensitivity Troponin I (ng/L)			
	Baseline (g/m ²)	6 Month (g/m ²)	Nominal Change	Percent Change	Baseline (ng/L)	6 Month (ng/L)	Nominal Change	Percent Change
Subject 1 (Male)	109	98	-11↓	-10%↓	148	39	-109↓	-74%↓
Subject 2 (Female)	81	73	-8↓	-10%↓	224	203	-21↓	-9%↓

- Observed reduction in both LVMI and Troponin at interim 6-month visit from ongoing AAVrh10hFXN clinical trial (NCT05302271)
- (Male) Upper limit of Normal LVMI / Troponin: 93 g/m² / 58 ng/L
- (Female) Upper limit of Normal LVMI / Troponin: 77 g/m² / 40 ng/L
- Subject 2 demonstrated an approximately 43% increase in peak VO₂ as measured by CPET at 6-month visit⁽²⁾

(1) Both subjects treated in Weill Cornell Medicine investigator initiated trial using product candidate referred to as LX2006 at Lexeo; results presented at Friedreich's Ataxia Research Alliance webinar hosted July 10, 2023.

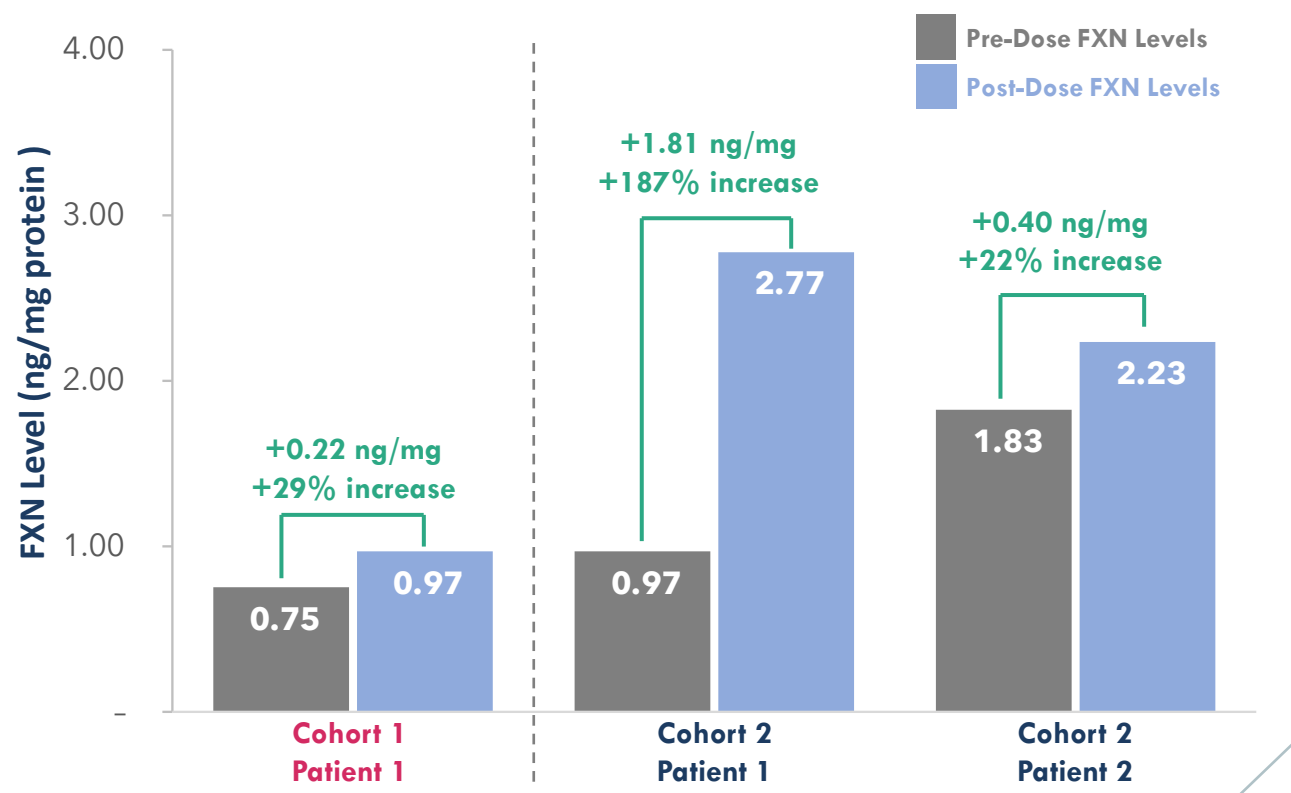
(2) Subject 1 was not evaluated for peak VO₂ at the 6-month visit.

Cohort 2 Cardiac Biopsies Have Demonstrated Increased Frataxin Expression in Target Organ and Dose-Response Between Cohorts

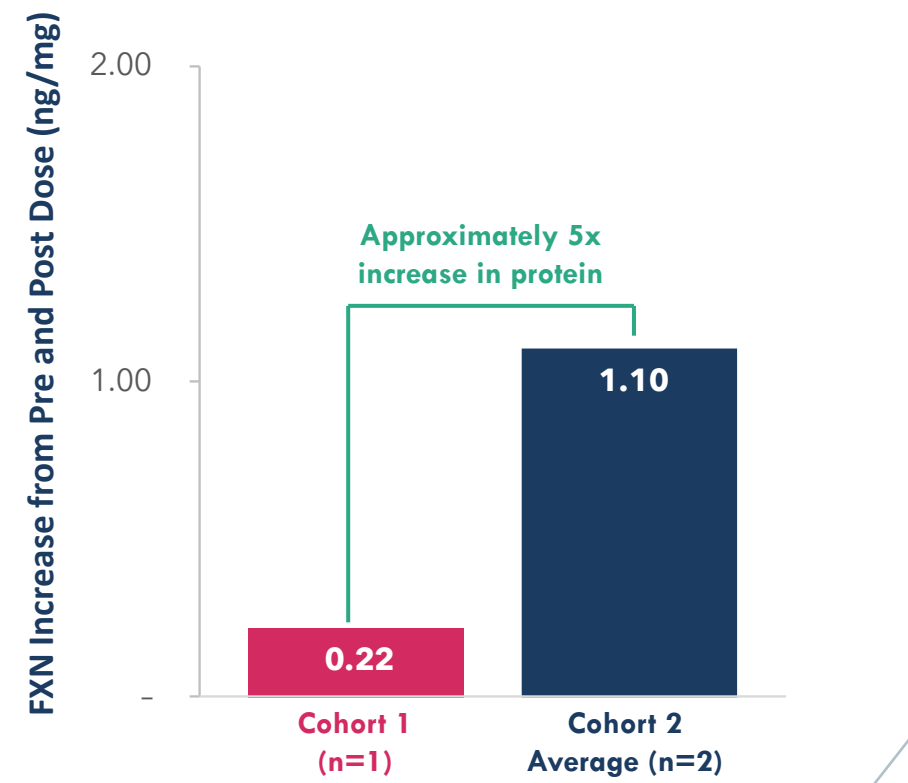
LX2006

FA Cardiomyopathy

Post-Treatment FXN Levels Increased in All Patients



Observed Dose Response Between Cohorts



- Observed increase in FXN levels as measured by LCMS relative to pre-treatment baseline levels in all patients evaluated to date via cardiac biopsies (n=3)
- Observed an approximately 5x increase in protein on average in Cohort 2 relative to Cohort 1
- Pre-treatment baseline FXN levels of approximately 2% in the heart relative to healthy controls⁽¹⁾

Note: Frataxin levels measured by ultrahigh performance liquid chromatography-multiple reaction monitoring/mass spectrometry (UHPLC-MRM/MS). LCMS = Liquid chromatography mass spectrometry, FXN = Frataxin.

Note: Cohort 1 dose of 1.8×10^{11} vg/kg and Cohort 2 dose of 5.6×10^{11} vg/kg.

(1) Lexeo data on file from healthy cadaver samples (n=29 tissue samples from 16 patients) with mean and median FXN levels of 56.97 ng/mg and 50.84 ng/mg, respectively.

Regulatory Precedents for Select Functional Cardiac Measures and Protein Expression Observed to Date

LX2006

FA Cardiomyopathy

Select Regulatory Framework Precedents		LX2006 Cohort 1 Observations
Left Ventricular Mass Index	<ul style="list-style-type: none"> Various approved therapies for hypertension <ul style="list-style-type: none"> 5g/m² has been noted as an important threshold⁽¹⁾ 	Improved (2 of 2)⁽⁴⁾ Average improvement of 9g/m ²
Troponin I	<ul style="list-style-type: none"> RP-A501 (Danon disease)⁽²⁾ <ul style="list-style-type: none"> Decrease in Troponin I (secondary endpoint in registrational trial) Mavacamten (obstructive HCM) <ul style="list-style-type: none"> Decrease in Troponin I versus placebo (supportive data)⁽³⁾ 	Improved (2 of 2)⁽⁴⁾ Average Troponin I decline of 41%
Peak VO2 (CPET)	<ul style="list-style-type: none"> Mavacamten (obstructive HCM)⁽³⁾ <ul style="list-style-type: none"> Improvement in Peak VO2 versus placebo (part of composite endpoint) 	Improved (1 of 1)⁽⁴⁾ Improvement of 43%
Protein Expression	<ul style="list-style-type: none"> SRP-9001 (Duchenne Muscular Dystrophy) <ul style="list-style-type: none"> Protein expression utilized for accelerated approval pathway 	Protein Increase (3 of 3)⁽⁵⁾ Increase observed in all patients

Regulatory precedents suggest potential composite endpoint of cardiac functional measures and increased protein expression

Note: Prior regulatory frameworks and approved therapies may not be indicative of the regulatory process for our gene therapy candidates

(1) Lønnebakken et al, Left Ventricular Hypertrophy Regression During Antihypertensive Treatment in an Outpatient Clinic, JAHA, 2017.

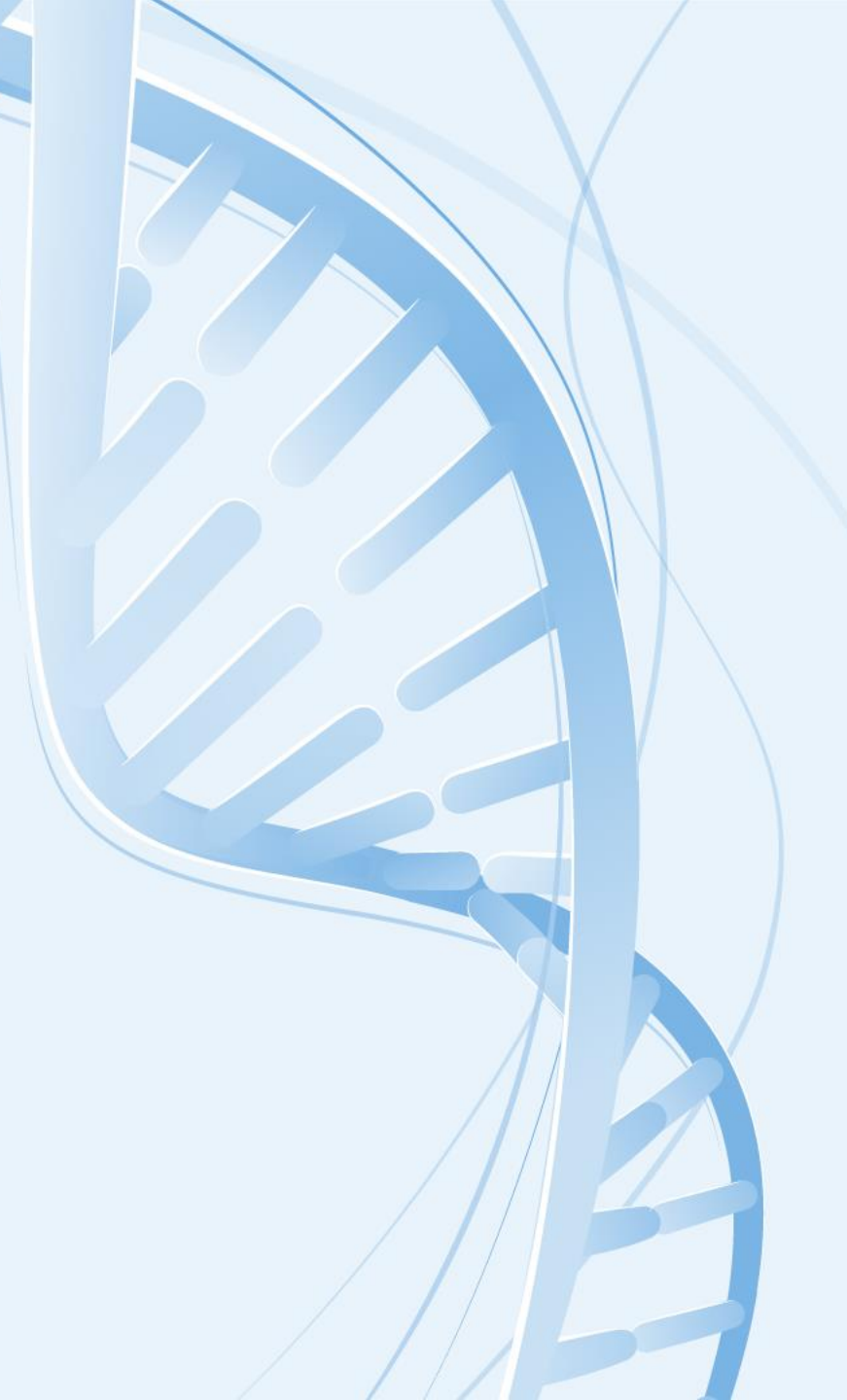
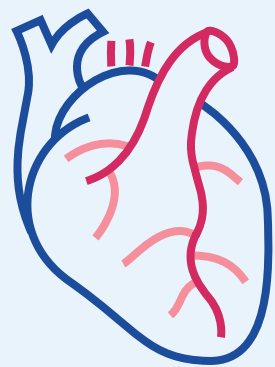
(2) RP-A501 has not completed registrational studies.

(3) Camzyos (mavacamten) US Prescribing Information accessed August 2023.

(4) Both subjects treated in Weill Cornell Medicine Investigator Initiated Trial; results presented at Friedreich's Ataxia Research Alliance webinar hosted July 10, 2023.

(5) Includes Cohort 1 and Cohort 2.

LX2020 (PKP2-ACM)

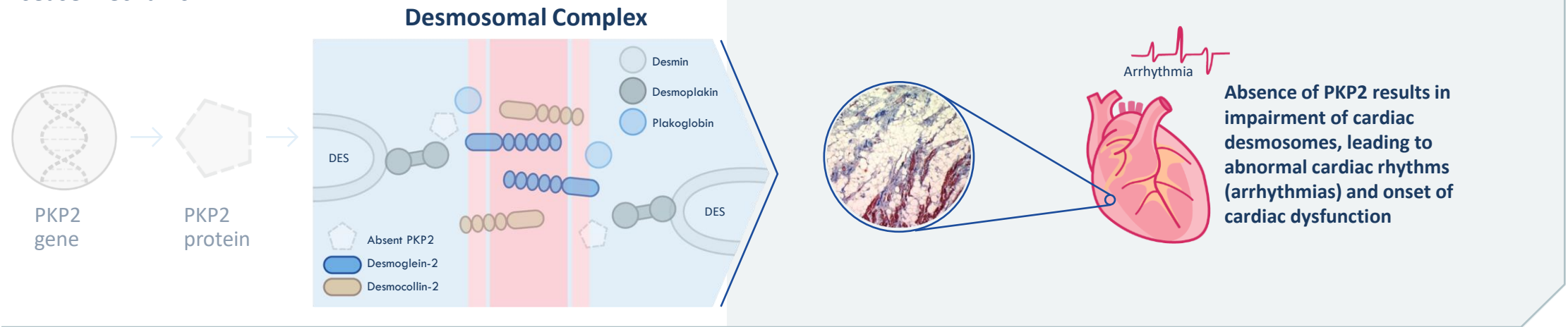


ACM Caused by Mutations in PKP2 and How LX2020 is Designed to Treat It

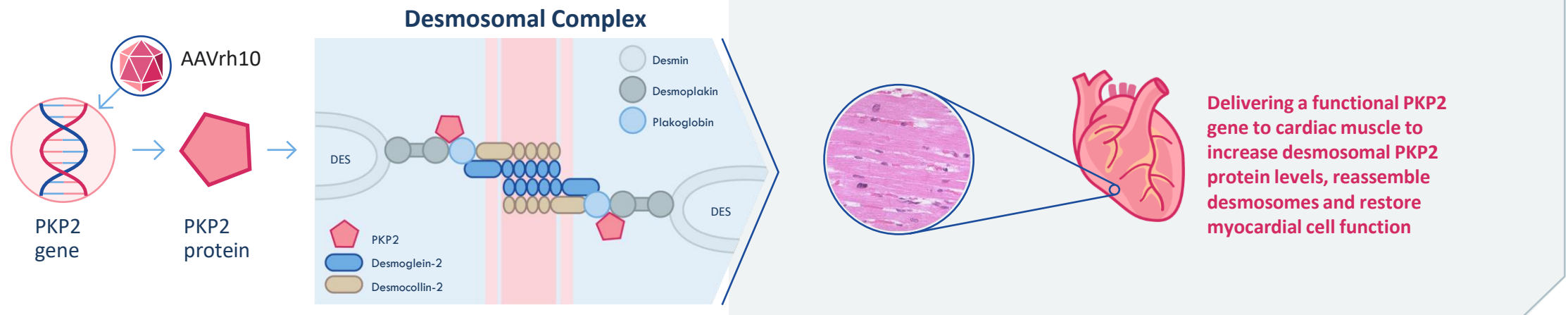
LX2020

Arrhythmogenic
cardiomyopathy

Disease mechanism



LX2020 mechanism



IND Clearance Supported by Robust Preclinical Package

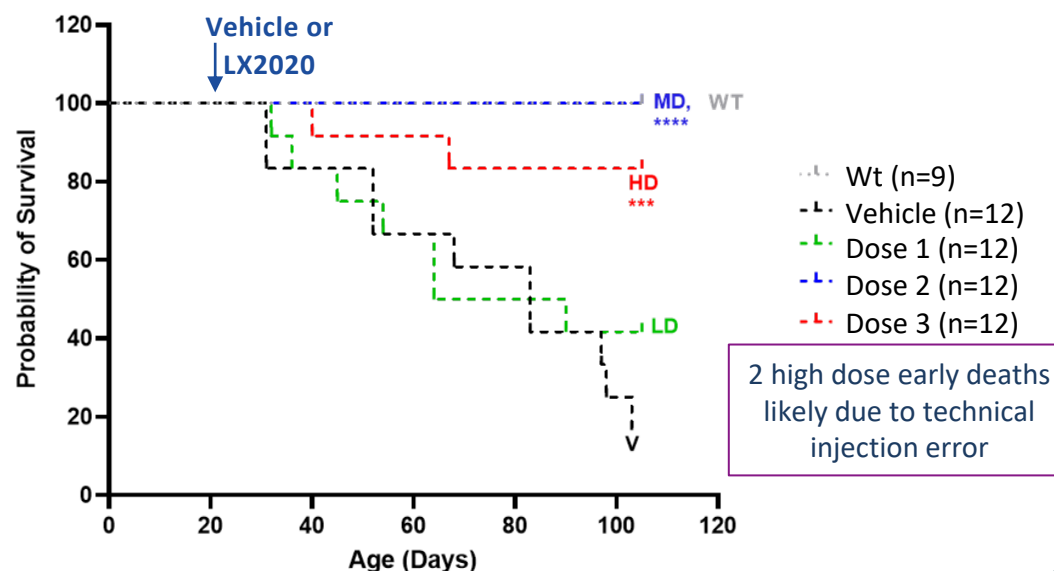
LX2020

Arrhythmogenic
cardiomyopathy

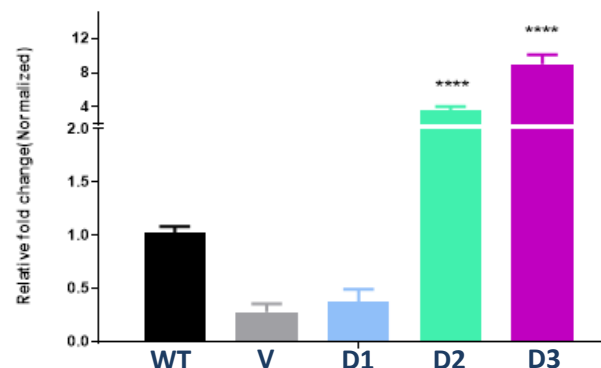
Robust Preclinical Package

- Murine studies utilizing CRISPR-Cas 9 edited model recapitulating PKP2-ACM disease features
- NHP safety study showed no toxicity at highest evaluated dose levels (low $\times 10^{14}$ vg/kg)

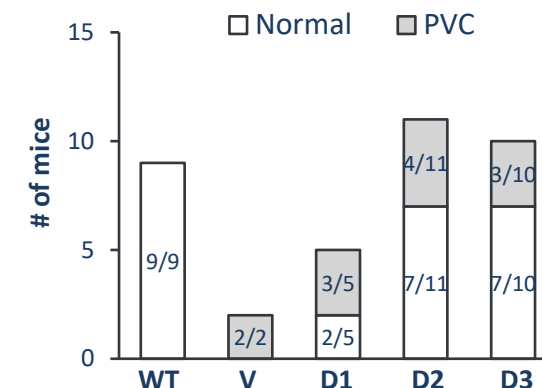
LX2020 Significantly Extended Survival in Severe Mouse Model



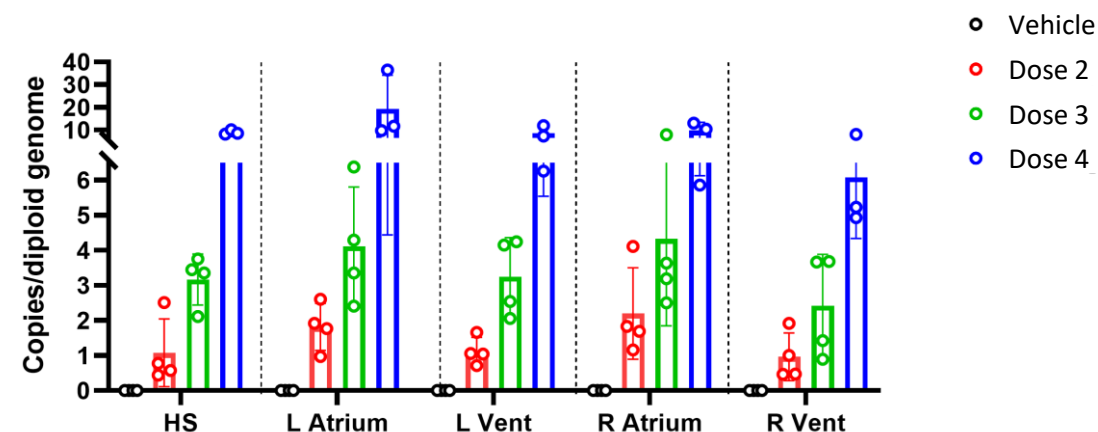
Quantification of PKP2 Expression in Severe Mouse Model



PVC Analysis in Severe Mouse Model



IND-Enabling NHP: VCN in Various Heart Regions



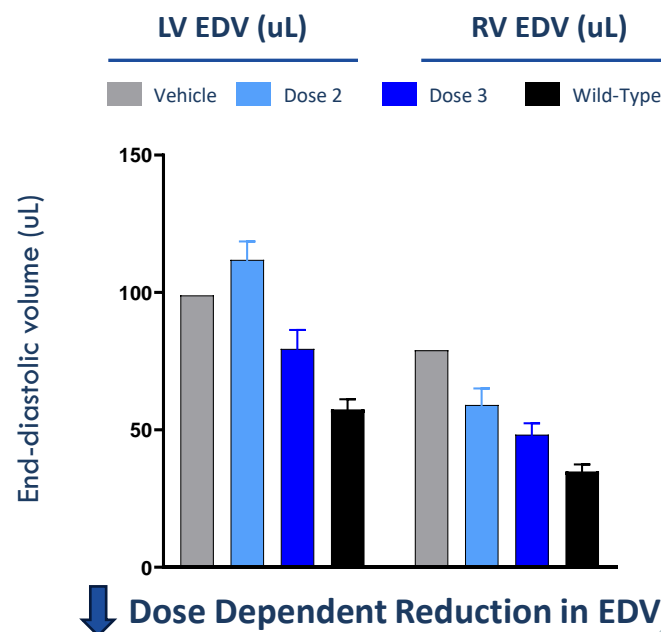
Note: PVC = premature ventricular contractions; VCN = vector copy number.

Quantitative MRI Analysis Showed Improvement in Cardiac Function in Homozygous Mouse Model

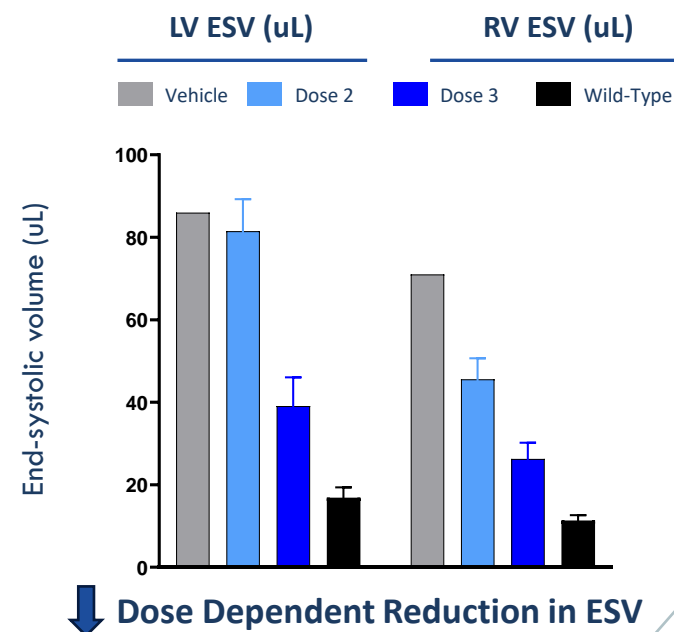
LX2020

Arrhythmogenic
cardiomyopathy

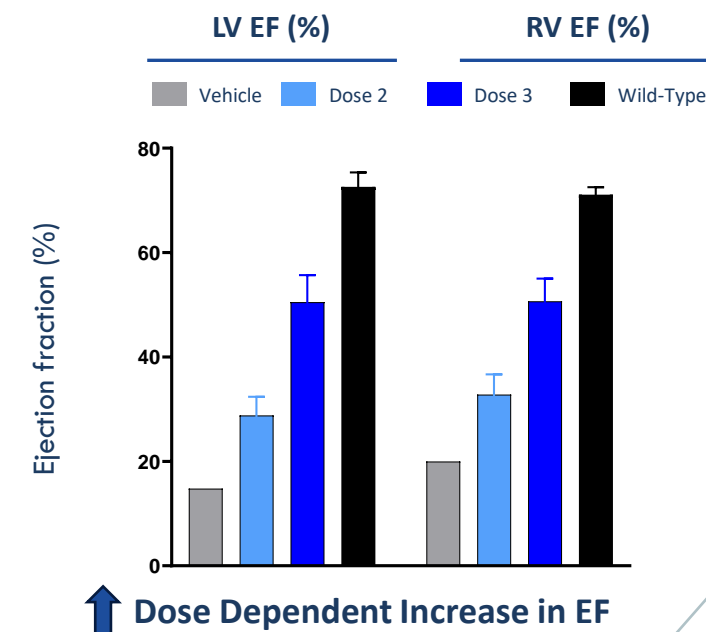
End-Diastolic Volume



End-Systolic Volume



Ejection Fraction



Quantitative MRI showed improved LV and RV ejection fraction and cardiac function in mid and high dose groups. RV improvements are most relevant as it is the primary ventricle impacted in PKP2-ACM

Note: LV = left ventricle; RV = right ventricle.

In Preclinical Studies LX2020 Successfully Impacted All Modifiable Elements of ACM Diagnosis and Risk Calculator

		LX2020 Preclinical Evidence
Arrhythmias	Arrhythmia Burden Daily Premature Ventricular Contraction (PVC) Count	↓ Ectopic Beats (7/10 without PVC)
	Life-threatening Arrhythmia Events SCD, ICD Shocks, VT/VF Events	↑ Survival (100%)
Repolarization & Depolarization	Depolarization/Repolarization Abnormalities T-wave Inversions/ QRS Complex	↓ QRS Interval (18% reduction)
Cardiac Structure & Function	Cardiac Contractility RV Dysfunction and Enlargement	↑ Cardiac Fxn/EF ↓ Cardiac Dilation
	Cardiac Structure/Function Myocardial Tissue Integrity (Fibrosis, Calcifications, Fragility)	↓ Fibrosis, Calcifications, & Tissue Tearing

LX2020 preclinical data demonstrated improvement across key areas for determining ACM diagnosis and risk profile

Note: PVC = premature ventricular contractions; VCN = vector copy number.

LX2020 PKP2-ACM Phase 1/2 (HEROIC-PKP2) Overview

LX2020

Arrhythmogenic
cardiomyopathy

Key Features:

- 52-week, dose-ascending, open-label trial with long-term follow-up (5-years post dose)
- Vector: AAVrh10
- Route of Administration: systemic administration
- Immune Suppression: prednisone + rapamycin

Key Inclusion Criteria:

- Male or female 18-65 years of age
- Confirmed diagnosis of ACM with either 2010 Task Force Criteria or 2020 International Criteria for ACM as affected
- Documented PKP2 mutation
- Existing implantable cardioverter defibrillator (ICD) that is MRI compatible
- Minimum threshold of PVCs/24-hr

Endpoints

Primary Endpoint: Safety

Additional Endpoints:

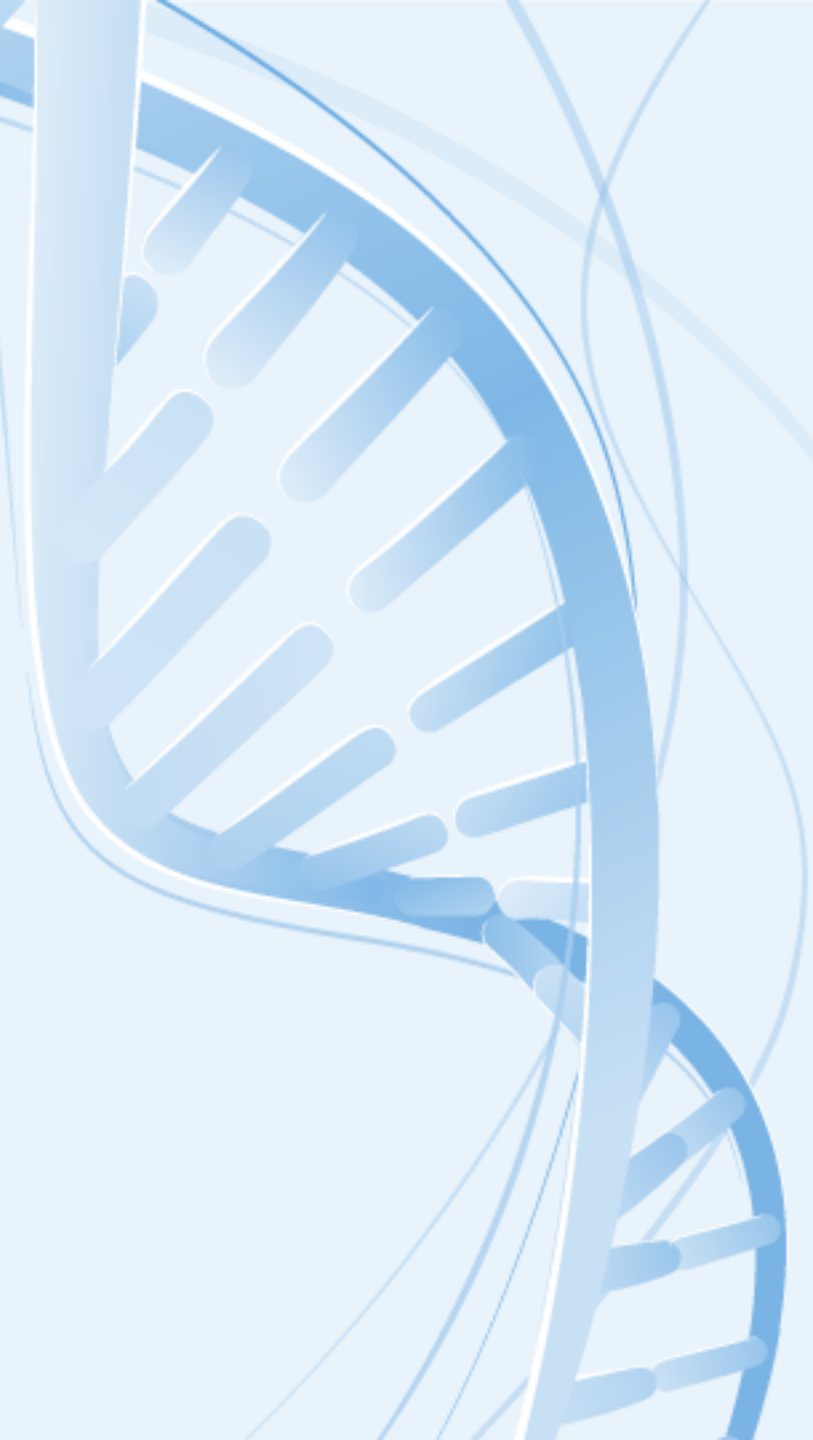
- Change in ventricular arrhythmias and associated clinical events
- Change in Patient Symptoms (NYHA Functional Class and PROs)
- Change in 12-lead ECG
- Change in PKP2 cardiac transduction & protein expression (cardiac biopsy)
- Change in cardiac MRI and ECHO
- Change in cardiac biomarkers (including troponin and BNP)

Trial Design

52-Week

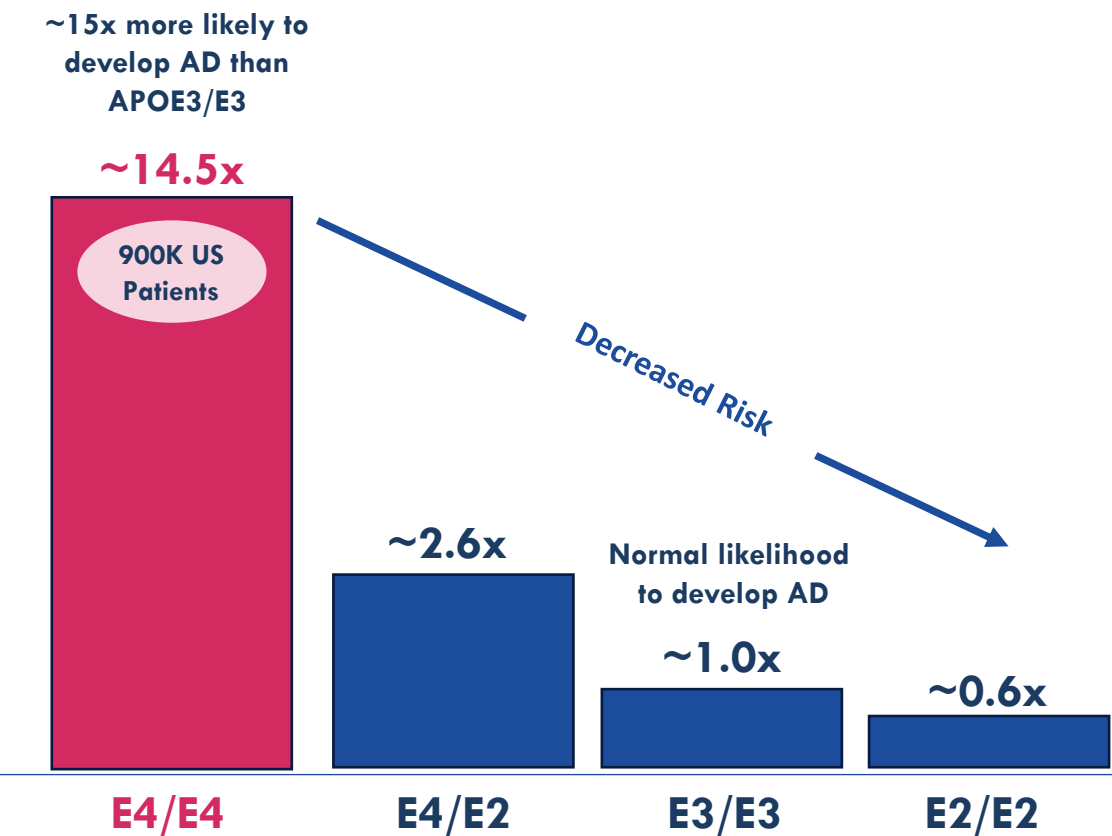


APOE4-Associated Alzheimer's Disease



APOE4 Homozygotes Represent a Patient Subgroup with Continued Unmet Need

Alzheimer’s Disease Risk by APOE Genotype⁽¹⁾



Unmet Need Persists Despite Recent Approvals

APOE4 homozygotes demonstrated lower efficacy results compared to heterozygotes and noncarriers and were associated with a higher incidence of ARIA-E

↓ Reduced Efficacy⁽²⁾

CDR-SB ⁽³⁾	APOE4 Noncarrier	APOE4 Heterozygote	APOE4 Homozygotes
Lecanemab	-0.75	-0.50	0.28
Donanemab	-0.76	-0.73	-0.41

↑ Increased Incidence of Adverse Events⁽²⁾

ARIA-E	APOE4 Noncarrier	APOE4 Heterozygote	APOE4 Homozygotes
Lecanemab	5.4%	10.9%	32.6%
Donanemab	15.7%	22.8%	40.6%

Note: ARIA-E = amyloid-related imaging abnormalities characterized by edema and effusion.

- (1) Yamazaki Y, et al. Nature Neurology Review, 2019.
- (2) Van Dyck, et al. New England Journal of Medicine, 2022. Sims, et al. JAMA, 2023.
- (3) Reduction in CDR-SB is improvement.

LX1001 Phase 1/2 Trial in APOE4 Homozygotes

LX1001

Alzheimer's APOE2+

Key Features:

- 52-week, dose-ranging, open-label trial with long-term follow-up (5-years post dose)
- Vector: AAVrh10
- Route of Administration: C1-C2 (between cervical vertebrae 1 and 2) or intracisternal injection
- Immune Suppression: corticosteroids prior to treatment and tapering following dosing

Key Inclusion Criteria:

- ≥ 50 yr APOE4 homozygotes
- Mild cognitive impairment to moderate dementia with biomarkers consistent with Alzheimer's disease

Endpoints

Primary Endpoint: Safety

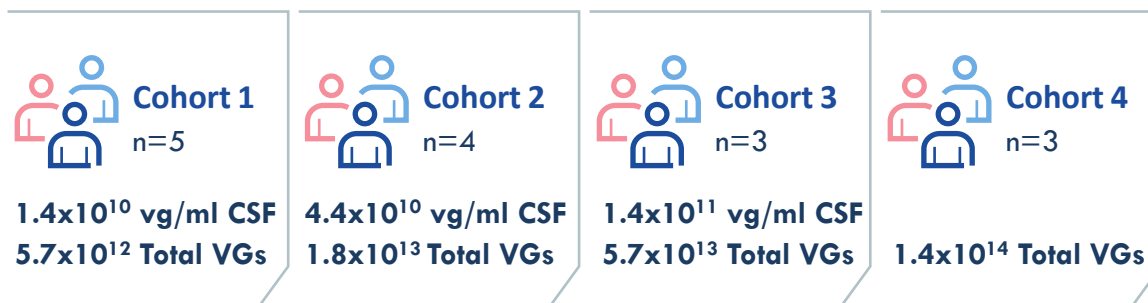
Secondary Endpoint: Conversion of CSF APOE4 to APOE2/APOE4

Other Secondary Endpoints:

- CSF biomarkers: A β 42, T Tau and P Tau
- Amyloid and tau PET scans
- Quantitative MRI
- Cognitive testing

Trial Design

52-Week Follow-up



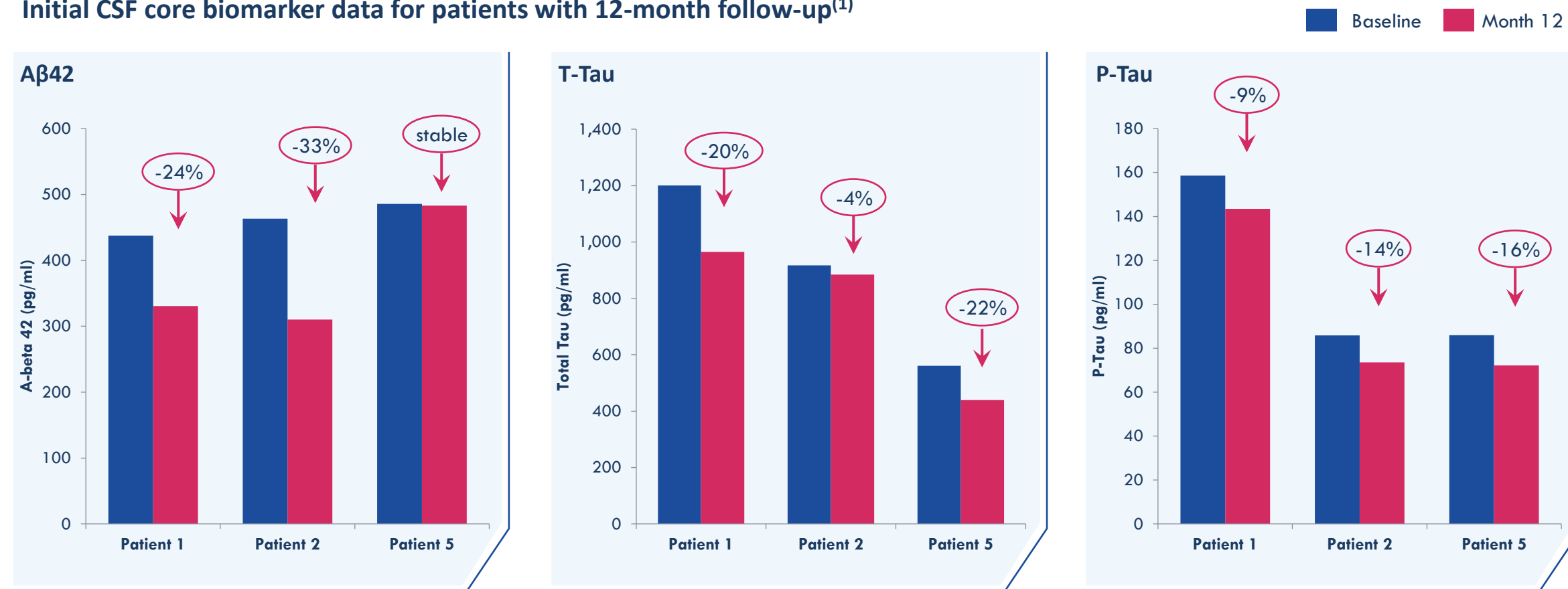
Vector genomes measured using ddPCR.
Assumes average CSF in patient of 408.7 ml.

Initial LX1001 Low-Dose Cohort Data: CSF Core Biomarkers

LX1001

Alzheimer's APOE2+

Initial CSF core biomarker data for patients with 12-month follow-up⁽¹⁾



Reduction in CSF total tau and phospho-tau were observed in all 3 patients, reduction in CSF Aβ42 was observed in 2 of the 3 patients

Note: Patient 3 transitioned to a long-term care-facility prior to Month 3 and unlikely to have follow-up efficacy data. Patient 4 was unable to travel to the study site for the month 6 and 12 visits.

(1) If a screening and baseline value was obtained the mean was used as the baseline.

Significant Catalysts Across Lead Programs in 2024 Supported by Strong Balance Sheet

Program	2024 Upcoming Milestone	US Prevalence
LX2006 FA Cardiomyopathy	<ul style="list-style-type: none"> Mid 2024: Interim Data Readout 	~5K
LX2020 PKP2-ACM	<ul style="list-style-type: none"> 1H 2024: First Patient Dosed 2H 2024: Interim Data Readout (Cohort 1) 	~60K
LX1001 Alzheimer's: APOE4	<ul style="list-style-type: none"> 2H 2024: Interim Phase 1 /2 Data Readout (All Cohorts) 	~900K
LX2021 DSP Cardiomyopathy	<ul style="list-style-type: none"> 2024: Initiate IND-enabling Studies 	~35K

Pro forma cash and marketable securities⁽¹⁾

~\$210M

Balance sheet as of December 31, 2023 pro
forma for financing announced March 2024

Projected runway into

2027

More than 2 years of runway
following key catalysts

Pro Forma shares of common stock⁽²⁾

32.9M

Expected pro forma shares outstanding

(1) Cash, cash equivalents and investments in marketable securities of \$121.5 million as of December 31, 2023. Pro forma for expected \$88.5 million net proceeds from equity financing announced in March 2024, unaudited.

(2) Shares outstanding as of March 7, 2024, pro forma for approximately 6.3M additional shares of common stock expected from equity financing announced in March 2024.

