

Forward-Looking Statements



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CRISPR Therapeutics Highlights



Leading gene editing company | Broad pipeline | Best-in-class platform and capabilities



Broad pipeline of *ex vivo* and *in vivo* programs across four franchises: hemoglobinopathies, immuno-oncology, regenerative medicine, and *in vivo* approaches



Historic first approval of a CRISPR-based gene-editing therapy with CASGEVY™ (exa-cel), now approved in the U.S. for certain eligible patients with sickle cell disease



Next-generation allogeneic CAR T programs, CTX112 and CTX131, advancing in the clinic with potency edits to improve tumor killing capacity and resistance to suppression



Proven track record of execution with best in-class capabilities and state-of-the-art internal GMP manufacturing facility



Preeminent CRISPR technology platform focused on the innovation that matters for transformative medicines

Several catalysts upcoming across each franchise

Transforming Medicine Across Four Core Franchises





Hemoglobinopathies

Immuno-oncology

First approval of a CRISPR-based gene-editing therapy in the world¹

Next-generation edited allogeneic immune cells for cancer



Regenerative Medicine



In vivo

Edited, stem cell-derived beta cells for diabetes

>10 programs using both LNP and AAV approaches



Platform (next-generation editing and delivery)

(1) CASGEVY approved by the U.S. FDA for certain eligible patients with SCD and granted conditional marketing authorization from the UK MHRA and Bahrain NHRA for certain eligible patients with SCD or TDT in Q4 2023

Our Pipeline



	Program	Research	IND-enabling	Clinical	Approved	Partner	Structure
	CASGEVY: Severe sickle cell disease (SCD) ¹					A	6 11 1
globin hies	CASGEVY: Transfusion-dependent β -thalassemia (TDT) 1					V <u>ERTE</u> X	Collaboration
Hemoglobin- opathies	Next-generation conditioning	□					Wholly owned ²
	In vivo editing of HSCs						
	CTX112: Anti-CD19 allogeneic CAR T ³						Wholly owned
ogy	CTX131: Anti-CD70 allogeneic CAR T						Wholly owned
Immuno-oncology	Anti-CD70 allogeneic CAR-NK					nkarta THERAPPLITICS	Collaboration
-oun	CTX121: Anti-BCMA allogeneic CAR T						Wholly owned
ᄪ	Anti-CD83 autologous CAR T					MOFFITT (M)	Collaboration ⁴
	Anti-GPC3 autologous CAR T					ROSWELL PARK.	Collaboration ⁴
tive	VCTX210: Type I diabetes mellitus						Collaboration
Regenerative Medicine	VCTX211: Type I diabetes mellitus				 -	⋄ VIACYTE°	
Reg	VCTX212: Type I/II diabetes mellitus						
	CTX310: ANGPTL3						Wholly owned
	CTX320: Lp(a)				 -		Wholly owned
	CTX330: PCSK9				 -		Wholly owned
In Vivo ⁵	Hemophilia A				—— <u> </u>	BAYER E R	Collaboration
<u> </u>	Undisclosed deletion and insertion programs				—— <u> </u>		Various
	Friedreich's ataxia (FA)					EADSIDA A	
	Amyotrophic lateral sclerosis (ALS)					GIOTHERAPEUTICS	Collaboration

(1) Currently approved in some countries for certain eligible patients with SCD or TDT; (2) Collaboration with Vertex for applications in SCD and β-thalassemia; (3) Initiation of additional trial in systemic lupus erythematosus planned for 1H 2024; (4) CRISPR retains commercial rights; (5) Partnered with Vertex on several additional disease areas, including DMD, DM1, and CF



Potential Functional Cure with CASGEVY (exa-cel)



- CASGEVY (exagamglogene autotemcel [exa-cel]) approved by the U.S. FDA for the treatment of SCD in eligible patients 12 years and older with recurrent vaso-occlusive crises, and granted conditional marketing authorization from the UK MHRA and Bahrain NHRA for certain eligible patients with SCD or TDT in Q4 2023
- U.S. FDA PDUFA target action date of March 30, 2024, for TDT (Standard Review); MAA for SCD and TDT filed and validated in the EU
- CASGEVY could address >30K patients in the U.S. and EU with severe SCD and TDT if approved, with the opportunity to expand the market even further with targeted conditioning and in vivo editing

Program	Research	IND-enabling	Clinical	Approved	Status	Partner	Structure
CASGEVY: Severe sickle cell disease (SCD)	<u> </u>				Approved in some countries		Collaboration
CASGEVY: Transfusion-dependent β-thalassemia (TDT)	<u> </u>			 -	for certain eligible patients	V <u>ERTE</u> X	Collaboration
Next-generation conditioning							Wholly-owned ¹
In vivo editing of HSCs							whony-owned

(1) Collaboration with Vertex for applications in SCD and β-thalassemia

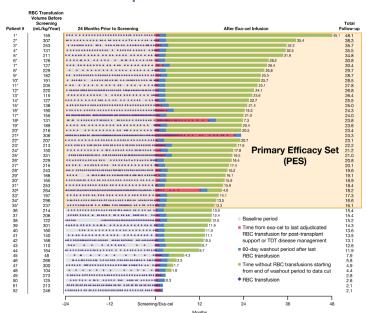


Exa-cel: Groundbreaking Data Across >95 Patients

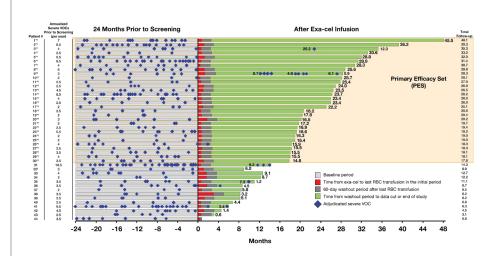




TDT: Transfusion independence achieved out to 45 months



SCD: VOC-free and no in-patient hospitalizations for VOCs achieved out to 45.5 months



Exa-cel treatment resulted in early and sustained increases in Hb and HbF leading to transfusion independence (TI12) in 91.4% of patients with TDT, elimination of VOCs (VF12) and inpatient hospitalization for VOCs (HF12) in 96.7% and 100% of patients with SCD, respectively

^{*} Participant evaluable for the primary endpoint; † participant achieved T112 (TDT) or VF12 (SCD); § participant did not achieve T112; # participant did not achieve VF12; ‡ Death from respiratory failure due to COVID-19 infection

Hb, hemoglobin; HbF, fetal hemoglobin; HF12, proportion of participants free from inpatient hospitalization for severe VOCs for ≥12 months; RBC, red blood cell; T112, proportion of patients transfusion independent for 12 consecutive

months while maintaining weighted average Hb ≥9 g/dL; VF12, proportion of participants free of severe VOCs for ≥12 months; VOC, vaso-occlusive crisis

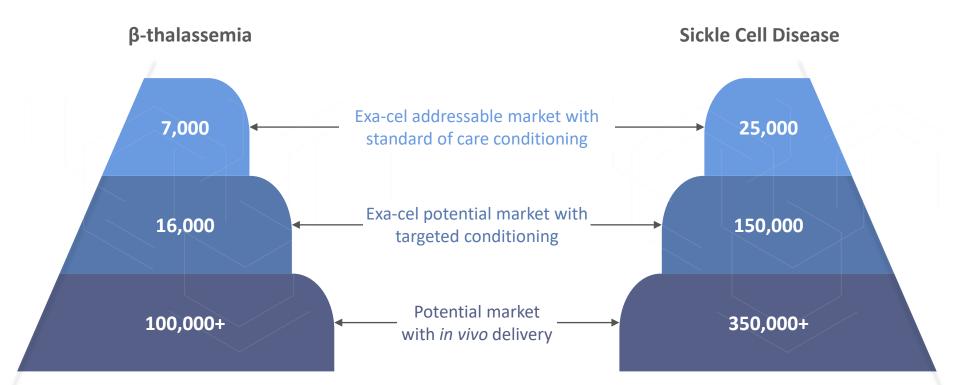
Presented at the American Society of Hematology Annual Meeting. 11 Dec 2023



Exa-cel has a Large Addressable Market



Opportunity to broaden market via innovation in conditioning and delivery



Represents estimated number of addressable patients in U.S. and EU



Robust Immuno-Oncology Pipeline



- Allogenic platform allows immediate "off-the-shelf" dosing, alleviating the complex supply barriers associated with approved autologous cell therapies
- CTX112 and CTX131 advancing in the clinic: Next-generation CAR T candidates with potency edits to improve tumor killing capacity and resistance to suppression, manufactured at internal GMP facility
- Proof of concept that allogeneic CAR T cells can produce durable complete remissions following a standard lymphodepletion regimen demonstrated by first-generation programs

	Program		Research	IND-enabling	Clinical	Approved	Status	Partner	Structure
	CD19	CTX112 ¹					Enrolling		Wholly owned
	CD70	CTX131	<u> </u>			<u> </u>	Enrolling		Wholly owned
Allo		Anti-CD70 CAR-NK						nkarta THERAPEUTICS	Collaboration
	Other targets	CTX121 (anti-BCMA)							Wholly owned
		Other CAR T programs				—— —			Wholly owned
Auto	Novel targets	Anti-CD83 CAR T	<u> </u>			—————		MOFFITT W	Collaboration ²
		Anti-GPC3 CAR T						ROSWELL PARK.	Collaboration ²

(1) Initiation of additional trial in systemic lupus erythematosus planned for 1H 2024; (2) CRISPR retains commercial rights



Our Gene-Edited Allogeneic CAR T Franchise



First-generation

Next-generation with novel potency edits

Consolidation dosing

Improved 6-month complete response rate

CTX112 and CTX131

Preliminary clinical data suggest next-gen may improve upon the clinical profile of first-gen

- Significantly higher CAR T cell expansion and functional persistence
- Increased manufacturing robustness; manufactured at internal GMP facility
- Opportunity to expedite development based on clinical and regulatory learnings from CTX110 and CTX130

Further indications/targets

Advancing next-gen candidates in new areas, e.g., CTX112 in autoimmune disease, GPC3-targeted autologous CAR T with Roswell Park, and others in

the pipeline

Single-dose

PoC that allogeneic CAR T cells can produce durable remissions following a standard LD regimen

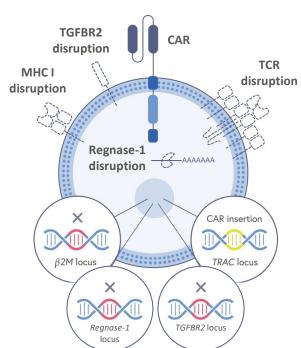


CTX112 and CTX131 Incorporate Novel Potency Edits



Next-generation CRISPR gene-edited allogeneic CAR T chassis:

- MHC I KO: Improve persistence in the allogeneic setting and avoid need for more toxic lymphodepletion
- TGFBR2 KO: Reduce tumor microenvironment inhibition of multiple CAR T cell functions



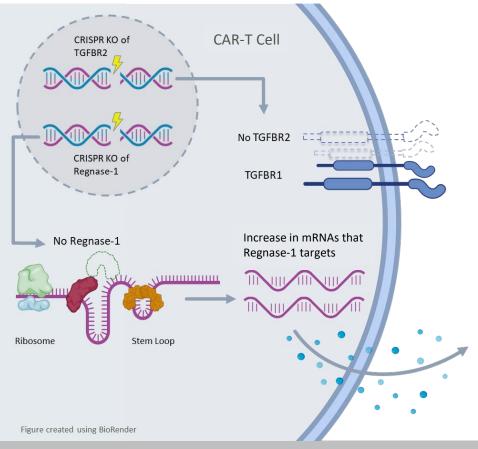
- TCR KO: Prevent GvHD
- Regnase-1 KO: Increase functional persistence, cytokine secretion and sensitivity, and effector function
- CAR KI: Site-specific insertion into TRAC locus without using lentivirus

CTX112 and CTX131 utilize the same CRISPR-edited allogeneic T cell design, but CTX112 incorporates a CD19-targeted CAR while CTX131 incorporates a CD70-targeted CAR and knock-out of CD70

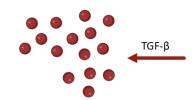


Regnase-1 and TGFBR2 Knock-Outs Work Synergistically

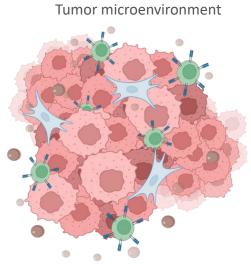




No TGF-β mediated inhibition



- Increased proliferation
- Broad cytokine secretion
- Increased cytotoxicity
- Repeat response to antigen challenge



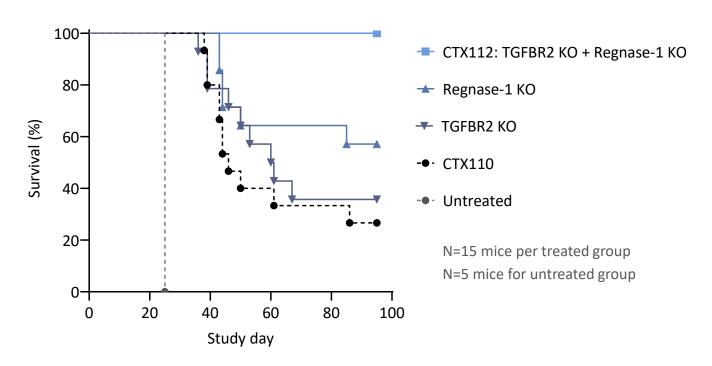




CTX112: Regnase-1/TGFBR2 KO Enhances Potency



Potency edits in CTX112 lead to extended survival in Nalm6-Luc mice



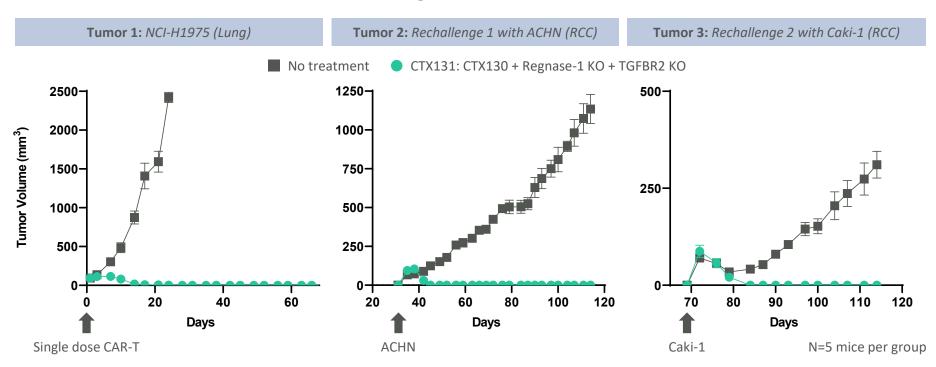
Presented at the American Association for Cancer Research Annual Meeting. 16 April 2023



CTX131 Eliminates Three Successive Tumor Models In Vivo



CTX131 eliminates three different xenograft tumor models in succession without exhaustion





Phase 1/2 safety and efficacy study evaluating CTX112

Phase 1/2 safety and efficacy study evaluating CTX131

Indications

- Relapsed or refractory B-cell malignancies
- Expanding into autoimmune diseases with planned trial initiation in 1H 2024 in systemic lupus erythematosus (SLE)

- Relapsed or refractory solid tumors starting with renal cell carcinoma (RCC)
- Expanding into hematological malignancies

LD regimen

 Standard lymphodepletion regimen of cyclophosphamide (500 mg/m²) and fludarabine (30 mg/m²) for 3 days

Allogeneic CAR T enables simplified trial design with short screening timeframe, no apheresis, no bridging chemotherapy, and on-site availability of CAR T cell product



Collaborations with Top Cancer Centers on New Targets





Clinical trial to begin in next 12 months

- First-in-human trial for autologous CAR T therapy targeting CD83
- CD83: Expressed on certain cancers and activated T cells – potential in AML and other oncology and autoimmune indications
- Additional research in collaboration with the Masonic Cancer Center, University of Minnesota



IND-enabling studies to begin this year

- O Initial trial for gene-edited, autologous CAR T therapy targeting GPC3
- GPC3: Solid tumor target for hepatocellular carcinoma (HCC) with limited expression in healthy tissues potency edits have potential to enhance CAR-T activity against solid tumors

Cancer centers conduct viral vector manufacturing, cell manufacturing, and Phase I trial CRISPR retains commercial rights



CRISPR Enables Regenerative Medicine 2.0



- © CRISPR gene editing and pluripotent stem cell technology enable a new class of cell replacement therapies
- Developing a beta-cell replacement product that aims to treat diabetes without requiring immunosuppression in partnership with ViaCyte – gene editing key to achieve this goal
- Clinical trial initiated for VCTX211, which includes novel edits to promote cell survival CRISPR platform enables continuous innovation with next-generation products incorporating incremental edits to increase benefit

Program	Research	IND-enabling	Clinical	Approved	Status	Partner	Structure
VCTX210: Type I diabetes mellitus							
VCTX211: Type I diabetes mellitus				—-	Enrolling	⋄ VIACYTE*	Collaboration
VCTX212: Type I/II diabetes mellitus				—-			



Multi-staged Product Strategy





Perforated Device Approach

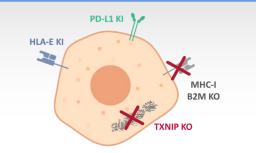
- Progenitor cells (stage 4)
- Retrievable, enabling broader initial patient population



Deviceless approach

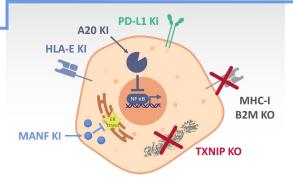
- Immature β-cells (stage 6)
- Portal vein injection

210



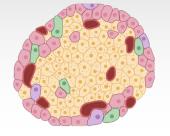
- Entered clinic Nov 2021
- Safety and immune evasion
- Informs 211 trial design

211



- Two additional edits to promote cell survival
- CTA cleared in 2H 2022

212



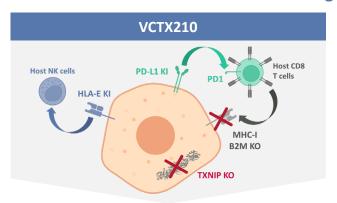
- Unencapsulated, stage 6 cell aggregates containing additional edits beyond 211
- Research stage program



VCTX211: Further Optimized for Cell Fitness



VCTX211 has 2 gene KOs and 4 insertions to improve functionality



Host NK cells A20 KI PD-L1 KI PD1 Host CD8 T cells MHC-I B2M KO TXNIP KO

Immune evasion

- MHC-I KO eliminates T cell mediated rejection
- PD-L1 KI reduces immune rejection, particularly from T cells
- HLA-E KI further reduces immune rejection, particularly from NK cells

Cell fitness

 Thioredoxin interacting protein (TXNIP) KO protects from oxidative and ER stress

- **A20 (TNFAIP3) KI** induces graft acceptance and protection from cytokine induced apoptosis
- MANF KI enhances β cell proliferation and protection against inflammatory stress

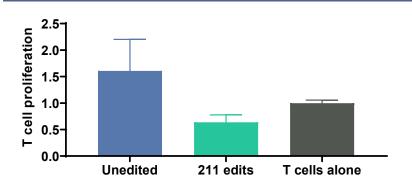
Sources: Qian, et al. Immunology. 1996; 88(1):124-9. Gornalusse, et al. Nat Biotechnology. 2017;35(8):765-72. El Khatib, et al. Gene Therapy. 2015;22(5):430-8. Chen, et al. FASEB J. 2008;22(10):3581-94. Shalev. Biochem Soc Trans. 2008;36(5):963-5. Lindahl, et al. Cell Rep. 2014;24(7):366-75. Zammit, et al. JCI Insight. 2019;4(21)



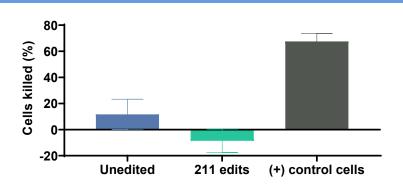
Edited Cells Evade Immunity In Vitro and In Vivo



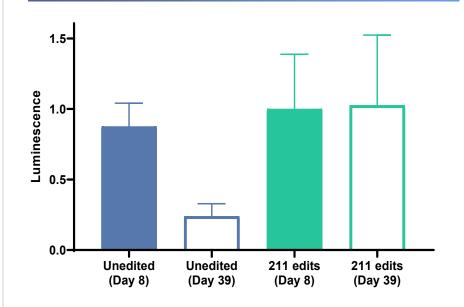
Adaptive – T cells do not respond to 211 cells in vitro



Innate – 211 cells resist NK attack in vitro



Adaptive & Innate – 211 cells survive in humanized mouse model



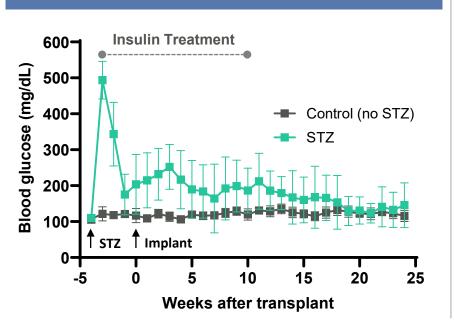
Demonstrates broad immune evasive potential of 211 cells – humanized mouse model contains human DC, B cells, T cells, NK cells, and monocytes

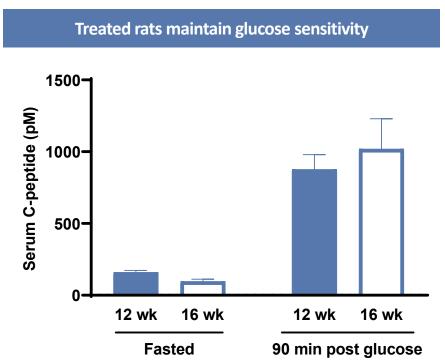


VCTX211 Reverses Hyperglycemia in Diabetic Rat Model



Normalization of blood glucose by 12-16 weeks





Rats either treated with STZ ~4 weeks before VCTX211 implantation or untreated (normoglycemic control)

STZ: Streptozotocin (β-cell toxin)



In Vivo Platform Advancing Rapidly



- 90% of the most prevalent severe monogenic diseases only addressable with gene disruption and/or whole gene correction
- Established plug-and-play LNP/mRNA platform for in vivo gene disruption, starting in the liver
- Developing a multi-modal whole gene correction platform, starting with AAV+LNP in the liver and advancing to AAV-free, HDR-independent methodologies
- Advancing a broad portfolio across both rare and common diseases leveraging our translational capabilities and balance sheet

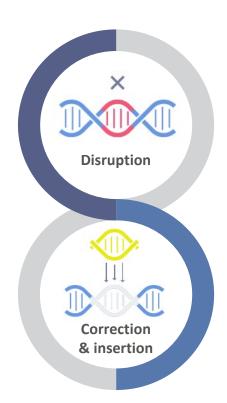
	Program		Research	IND-enabling	Clinical	Approved	Partner	Structure
	Disruption or deletion	CTX310: ANGPTL3						Wholly-owned
		CTX320: Lp(a)	□		— <u> </u>			Wholly-owned
		CTX330: PCSK9						Wholly-owned
٩		Undisclosed CV programs						Wholly-owned
5		Other gene disruption programs			— <u> </u>			Wholly-owned
		Undisclosed ocular program			————		- BAAPER	Collaboration
		Hemophilia A			—— <u>D</u>	——————		
	Insertion	Undisclosed insertion program			—— <u>D</u> ——			Wholly-owned
>	Disruption or deletion	Friedreich's ataxia (FA)			————		EAPSIDA DE SIOTHERAPEUTICS	Callahanatian
¥		Amyotrophic lateral sclerosis (ALS)						Collaboration

Partnered with Vertex on several additional disease areas, including Duchenne muscular dystrophy (DMD), myotonic dystrophy type 1 (DM1), and cystic fibrosis (CF)



Becoming an *In Vivo* Leader – Our Strategy





Focus on disruption and whole gene correction – needed to address ~90% of the most prevalent severe monogenic diseases



Establish a leading platform for in vivo gene disruption, starting in the liver



Advance a broad portfolio of programs across both rare and common diseases, leveraging our translational capabilities, balance sheet, and plug-and-play LNP/mRNA platform

- Targets/indications include ANGPTL3, Lp(a), PCSK9, HAE, TTR, PH1, and other undisclosed ocular and liver targets
- Wholly-owned portfolio creates opportunity for internal development or partnership



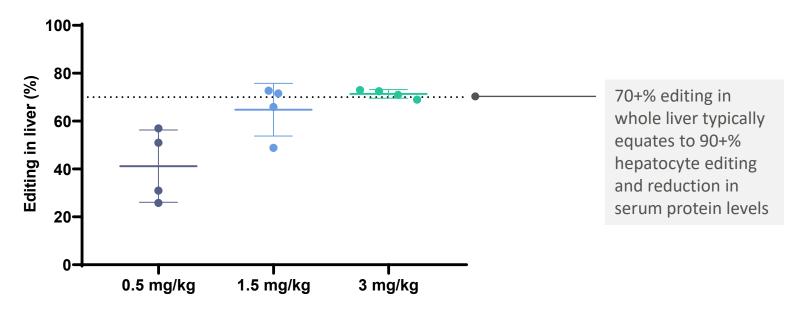
Develop leading whole gene correction platform, starting with AAV+LNP in the liver and advancing to AAV-free, HDR-independent methodologies



Established a Leading mRNA/LNP Platform for Gene Disruption



Dose-dependent liver editing up to 70% in NHPs

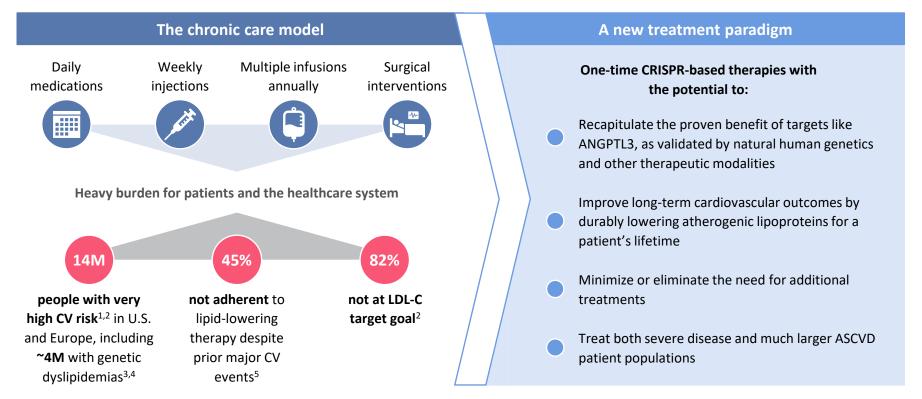


Single intravenous dose of LNP formulated with Cas9 mRNA and gRNA



Our Initial *In Vivo* Programs Could Transform the Treatment Paradigm for ASCVD





ASCVD: atherosclerotic cardiovascular disease; (1) Gu et al. 2022; (2) Ray et al. 2021; (3) Hu et al. 2020; (4) Dron et al. 2018; (5) Guglielmi et al. 2017



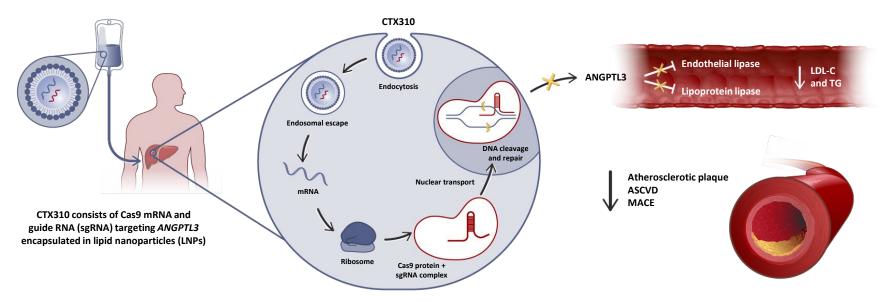
CTX310: A One-Time Dose to Stop Expression of ANGPTL3



Intravenous delivery targeting the liver

CRISPR/Cas9-based editing of ANGPTL3

Reduced atherogenic lipoprotein concentrations



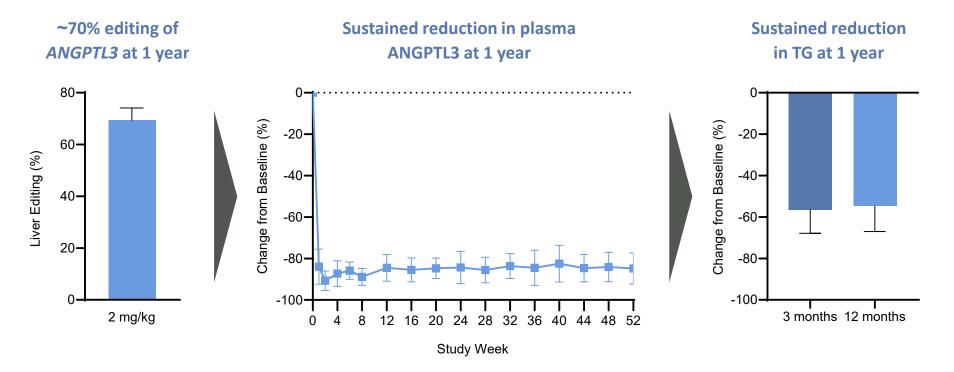
Transient expression of Cas9 and sgRNA in hepatocytes to reduce ANGPTL3 expression permanently

Clinical trial of CTX310 initiated



A Single Dose of CTX310 Resulted in Durable Reduction in ANGPTL3 and Triglycerides in Non-Human Primates





Single dose of CTX310 (2 mg/kg) administered to NHPs (N=8) on Day 1; dose levels reflect mg total RNA; study ongoing

Presented at the American Heart Association Scientific Sessions. 11 Nov 2023



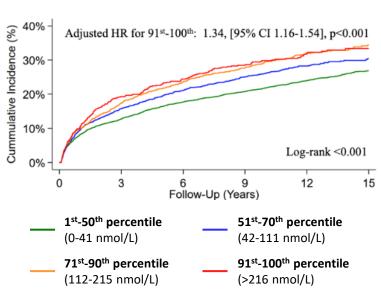
Lp(a): An Independent Risk Factor for ASCVD



- Lipoprotein(a): an LDL-like lipoprotein synthesized and secreted by hepatocytes that contains apo(a) bound to ApoB
- The LPA gene encodes apo(a) and determines plasma Lp(a) levels
- Epidemiologic studies, Mendelian randomization, and GWAS have shown that elevated Lp(a) levels increase ASCVD risk, whereas those with low Lp(a) levels (~12.5 nmol/L) have better cardiometabolic outcomes, e.g., 29% reduced risk of coronary heart disease, 37% reduced risk of aortic valve stenosis^{1,2,3,6,7,8}
- >20% of the global population have elevated circulating Lp(a)
 concentrations above ~125 nmol/L^{4,5}

A one-time, CRISPR-based therapy could recapitulate the protective effect of naturally low Lp(a) levels

Independent association with long-term MACE⁸



Association of Lp(a) with MACE among individuals with a history of ASCVD, adjusted for age, sex, self-reported race and ethnicity, hypertension, chronic kidney disease status, non-Lp(a) hyperlipidemia, diabetes, insulin use (in diabetic individuals), and smoking status; N=10,181

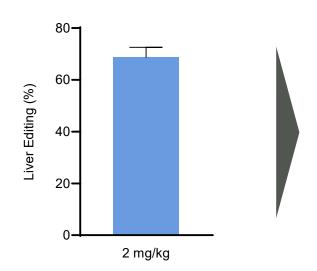
(1) Enas et al. 2019; (2) Gurdasani et al. 2012; (3) Laschkolnig et al. 2014; (4) Nordestgaard et al. 2010; (5) Varvel et al. 2016; (6) Langsted et al. 2021; (7) Emdin et al. 2016; (8) Berman et al. 2023



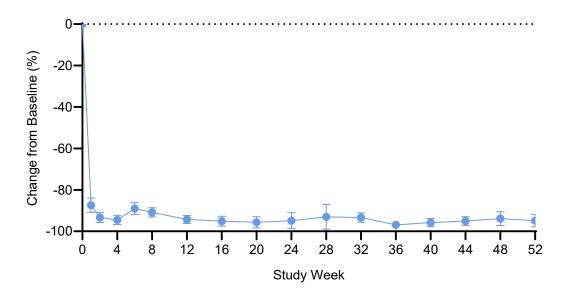
A Single Dose of CTX320 Resulted in Durable Lp(a) Reduction in Non-Human Primates



~70% editing of LPA at 1 year



~95% reduction in plasma Lp(a) sustained at 1 year



Single dose of CTX320 (2 mg/kg) administered to NHPs (N=4) on Day 1; study ongoing

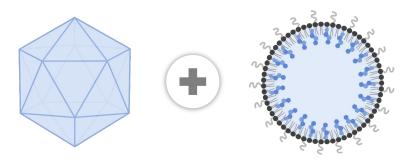
Presented at the American Heart Association Scientific Sessions. 11 Nov 2023



Unlocking Whole Gene Correction and Insertion



AAV + LNP



- Proven technologies allow whole gene correction via repair mechanisms at specific loci
- Potential for improved consistency and durability compared to episomal gene transfer via AAV
- Ability to address majority of monogenic diseases, where mutations span the length of the gene

Next-generation technologies



- Dedicated internal group focused on emerging technologies to allow HDR-independent and/or AAV-free whole gene correction/insertion
- Natural systems require further optimization of efficiency and specificity for clinical application
- Research ongoing focused on non-viral DNA delivery and all-RNA systems

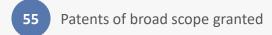
Strong U.S. and Global Foundational IP Position





United States

CVC granted patents of broad scope; multiple applications progressing



- Additional patent applications moving forward in parallel with both broad and narrow claims
- PTAB decision in CVC/Broad interference appealed to the CAFC; interferences between CVC/Sigma, CVC/ToolGen, Broad/Sigma and Broad/ToolGen put "on hold" by PTAB



Europe and Global

CVC granted foundational patents, including use in eukaryotes

- Patents of broad scope granted in the EU, Canada, China, Japan, Brazil, Mexico, Singapore, Hong Kong, Ukraine, Israel, UAE, Australia, New Zealand, South Africa, etc.
- **~80** Jurisdictions worldwide in which CVC has patent protection
- In August, CVC prevailed against ToolGen's challenge to CVC's Japanese patent; challenges pending in China and India

CVC: Charpentier, University of California, and University of Vienna As of Q3 2023

