

Legal Warning

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Positioned for Significant Value Growth Four Medicines Developed and Approved in 10 Years



Strong Revenue Drivers

- Exceptional Crysvita launch continues
- Growth potential with Dojolvi and Mepsevii

Diverse Portfolio

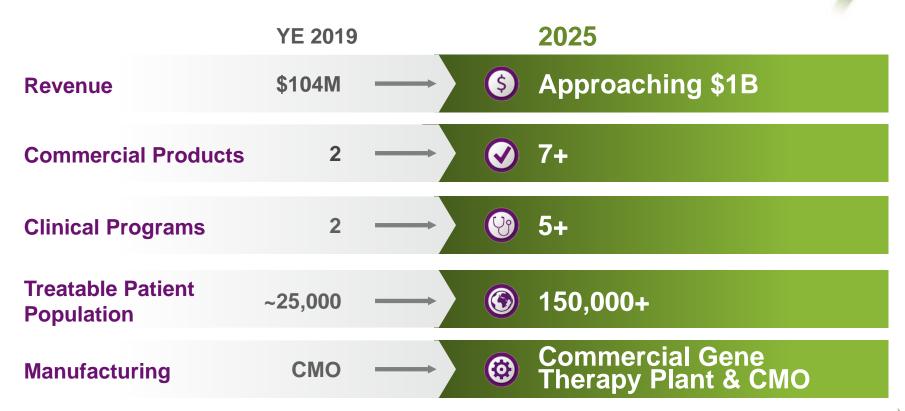
- Broad clinical and preclinical pipeline
- Gene therapy and mRNA platforms

Financial Strength

- \$766M cash and investments at end of 3Q20
- \$180M revenue YTD through 3Q 2020

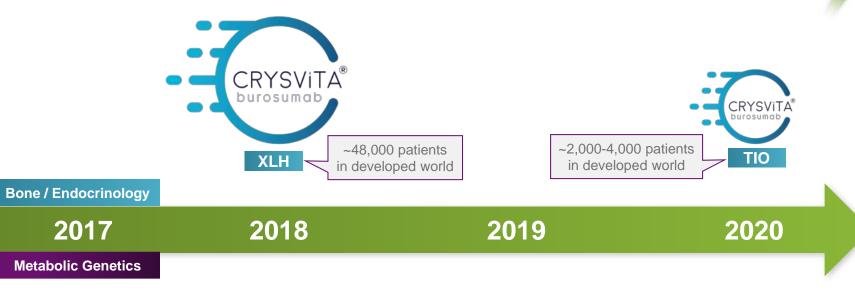


Building an Exceptional Rare Disease Company





Four Approvals in Three Years, Two in June 2020







Ultragenyx in 2025: Potential for ~10x revenue growth in 5 years

~\$1B Revenue **Revenue Growth Driven by Broad Portfolio** Current commercial products provide substantial, growing revenue foundation Pipeline assets further accelerate growth trajectory (GSDIa, OTC, Wilson, Angelman) Mepsevii TRIHEPTANOIN 2020 2025



Strong Crysvita Performance and Solid Financial Base Drive Future Growth

YTD through Q3 Revenu	YoY Change	
Crysvita in Ultragenyx Territories North America Profit Share LatAm Product Sales	\$98.5M \$91.1M \$7.4M	91% 87% 172%
Mepsevii	\$11.7M	41%
Dojolvi	\$6.6M	225%
Total Company Revenue ¹	\$179.5M	163%

Lower end of guidance increased from \$125M to \$130M

2: Crysvita Revenue guidance is for Ultragenyx regions, which excludes royalty revenue in EU

Strong Capital Position Supported by Financial Discipline

- Cash balance³ as of 3Q20: \$766 million
 - Additional \$435 million net proceeds from public stock offering⁴
- 20%+ reduction in net cash burn⁵ in 2020
 - 3: Cash, cash equivalents, and available-for-sale investments as of September 30, 2020
 - 4: Underwritten public offering closed on November 2, 2020
 - 5: Net cash used in operations plus capital expenditures



²⁰²⁰ Crysvita Revenue Guidance²

Crysvita in Ultragenyx Territories \$130M to \$140M

^{1:} Includes Crysvita in EU territory, which is primarily non-cash, and revenue from agreement with Daiichi Sankyo, which has primarily been received upfront

Diverse Clinical Pipeline Across Metabolic Indications Additional >15 Preclinical Programs



^{*} Crysvita is approved in the U.S., Canada, EU, and Brazil





^{*} Mepsevii is approved in the U.S., EU, and Brazil

^{*} Dojolvi is approved in the U.S.

^{**} Ultragenyx has an option to acquire GTX-102 from GeneTx

Two Commercial Approvals in June 2020, Additional Clinical Milestones in 2H20

			1H20	2H20 ¹
Crysvita Anti-FGF23 MAb	TIO	U.S. FDA Approval (June 18)	>	
Dojolvi Substrate Replacement	LC-FAOD	U.S. FDA Approval (June 30)	>	
DTX301 AAV8 Gene Therapy	отс	Cohort 3 Data	>	
		End of Phase 2 Meeting Cohort 4 (Prophylactic Steroid) Data		
DTX401 AAV8 Gene Therapy	GSDIa	Cohort 3 (Confirmatory) Data	>	
		End of Phase 2 Meeting Phase 3 Initiation		☐ ☐ 1H21
GTX-102 ² ASO	Angelman Syndrome	Phase 1/2 Study	Initiation	Interim Data
UX701 Gene Therapy	Wilson Disease	IND Submission		
Gene Therapy Platform	New Partnerships	Daiichi Sankyo: Manufacturing Technology	✓	
		SOLID Solid: Duchenne Microdystrophin		✓

^{1:} Barring potential delays due to COVID-19





^{2:} Ultragenyx has an option to acquire GeneTx (GTX-102)

New Gene Therapy Program Leveraging HeLa PCL for Duchenne Muscular Dystrophy





- nNOS binding restoration
- Functional benefit in preclinical models
- Expertise in Duchenne and muscle biology



HeLa PCL Platform

- Commercial-grade 2,000L large-scale manufacturing
- Lower cost for highprevalence and highdose requirements

AAV8 Variant

- Demonstrated favorable immune profile in clinic
- Successfully made at 2,000L scale

Leveraging complementary technology and capabilities to develop high-quality AAV therapy for large rare disease



Two Products Approved by U.S. FDA in June 2020

DQJOLVI TRIHEPTANOIN

- Approved by FDA on June 30, 2020 for the treatment of pediatric and adult patients with molecularly confirmed LC-FAOD
- Potential revenue expected to be modest in 2020 and will build over time
- ~2,000 3,500 patients in the U.S.



Tumor-Induced Osteomalacia Indication

- Approved by FDA on June 18, 2020 for patients with TIO where the tumor cannot be surgically removed
- Second indication for Crysvita following approval for XLH in 2018
- ~500 1,000 patients in the U.S.

Launches leverage existing commercial infrastructure with minor incremental expense



Dojolvi: First FDA-Approved Therapy for the Treatment of LC-FAOD



- Indication: Treatment of pediatric and adult patients with molecularly confirmed LC-FAOD
- Key symptoms/prognosis:
 - Hypoglycemia, muscle rupture, heart failure
 - Mortality of >50%¹; a cause of SIDS (newborn screened in U.S.)
- Treating physicians: Metabolic geneticists, across 160 centers in the U.S.
- **U.S. prevalence:** ~2,000 3,500
- Regulatory Submissions: Canada, Brazil, EU discussions on going





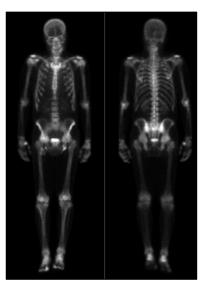
Crysvita for Tumor Induced Osteomalacia (TIO)



- First approved therapy in the U.S. for patients with TIO who cannot undergo surgical removal of tumors
- Second FDA-approved indication for Crysvita, also approved for XLH
- Key symptoms:
 - Muscle weakness, fatigue, bone pain, fractures
- **U.S. prevalence:** ~500 − 1,000

Baseline

Week 144



Bone scan of a 52-year old man with TIO shows decreased uptake over 144 weeks of burosumab treatment





GTX-102 Program for Angelman Syndrome

Positive interim Phase 1/2 efficacy data from ASO program in Angelman syndrome

GTX-102 for Angelman Syndrome Large neurodevelopmental disorder with positive interim data

- Angelman syndrome: Neurogenetic disorder caused by loss of expression of UBE3A gene
- GTX-102: Antisense oligonucleotide (ASO) that targets regulatory RNA to activate paternal UBE3A expression
- Key symptoms/prognosis: Motor dysfunction, lack of speech, cognitive impairment, sleep disorder
- No approved treatments
- WW prevalence: ~60,000
- Partnership: Ultragenyx has option to acquire collaborator GeneTx after Phase 1/2 completion
- Phase 1/2 study design: Intrathecal intra-patient dose escalating, open-label study in deletion patients (most common genotype and most severe phenotype)











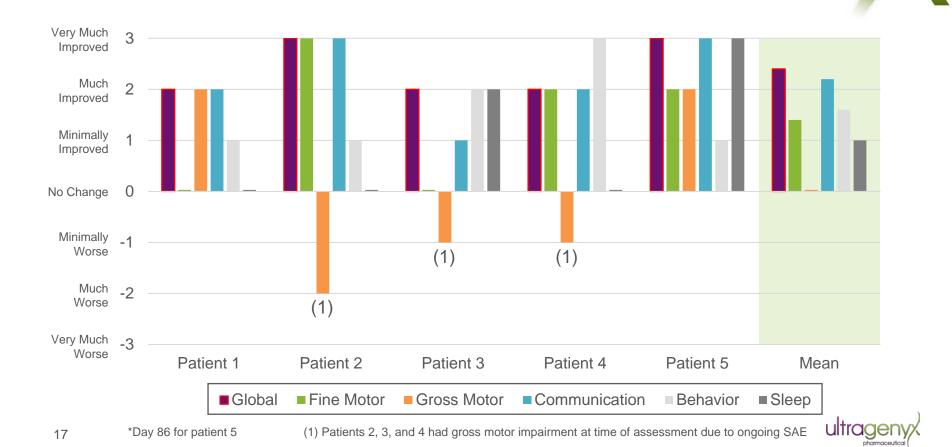
All 5 Initial Patients Improved Across Multiple Angelman Syndrome Domains

- Interim results indicate that all 5 initial patients had substantial improvements in multiple disease domains as assessed by CGI-I-AS*
 - Mean global CGI-I-AS score of +2.4 across patients (scale of -3 to +3)
- Positive CGI-I-AS results supported by other indications of benefit
 - Increases in Bayley-4 expressive/receptive communication scales and in 3 patients in Observer Reported Communication Ability (ORCA) measure
 - Improvements reported by patient caregivers
- Improvements generally began early following initial treatment
 - Some patients showed response within a few weeks and all within 4 months
 - Responses began after lowest doses in some patients



CGI-I-AS Ratings of Change by Patient at Day 128*

All patients had positive response in at least three domains



Caregivers Report a Range of Improvements Patient ages between 5 and 15 years old

- Acquisition of spoken words, signs and gestures, and augmentative and alternative communication abilities
 - Two previously nonverbal patients began using words, one reaching 9 words
- Ability to respond to their name, follow commands, and focus on tasks
- Acquisition of independent capabilities, such as self-feeding with a fork
- Increased abilities in physical activities, such as patients swimming on own and catching/throwing a ball
- Dramatically improved sleep
- Decreased maladaptive behaviors
- Increased social engagement
- Improved gait and posture



GTX-102 Phase 1/2: Safety & Next Steps

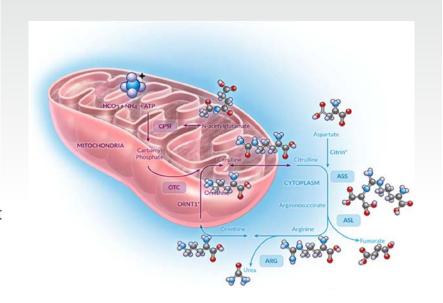
- Grade 1 or 2 SAE of lower extremity weakness seen in all 5 initial patients
 - Rate as mild to moderate, but significant weakness in 3 and unable to walk in 2 subjects
 - Of 4 doses studied across 10-fold range, SAE occurred at highest dose in 4 patients and second highest dose in 1 patient
 - Dosing paused after first onset observed
 - Completely resolved in 4 patients and near complete resolution in 1 patient
 - Time course of resolution faster while clinical improvements were sustained longer
- Evaluations consistent with lower back inflammation due to GTX-102 intrathecal delivery
 - MRI signals consistent with inflammation in lumbosacral meninges and nerve roots
 - CSF protein increases similar to seen in other ASO treatments
- No other SAEs reported to date; other AEs include transient ataxia, headache, fatigue
- Amending study design and seeking agreement with the FDA prior to resuming enrollment and dosing
 - Focusing on lower end of dosing range: within efficacious doses but below SAE-associated doses
 - Modifying administration process to minimize duration of exposure at site of administration



Gene Therapy Programs and Platform

DTX301: AAV8 for OTC Deficiency AAV8 gene therapy for stable expression of OTC

- OTC Deficiency: X-linked urea cycle disorder, genetic defect in ammonia detoxification
- Key symptoms/prognosis: Acute hyperammonemic episodes, adverse cognitive & neurological effects, hospitalizations, death
- Treatment limited: Liver transplantation only curative, ammonia scavengers, protein restricted diet
- WW prevalence: ~10,000, 80% late-onset





DTX301: Six of Nine Patients Responding Now Including all 3 Patients in Cohort 3

Cohort 3: Responses from all three patients

- Patient 7: Complete responder (off NH3 scavenger drugs and diet)
- Patient 8: Responder (discontinued of one of two ammonia scavengers and modified diet)
- Patient 9: Confirmed Responder (confirmed at week 24, not yet tapered medication or diet)

Cohorts 1 and 2: Long-term follow-up of complete responders

- Ureagenesis greater than 100% for 2 years and 1.5 years, respectively
- Restricted protein diet and alternate pathway drugs discontinued for more than one year
- Ammonia maintained within normal parameters throughout the long-term follow-up period
- Excellent clinical condition with no significant adverse events, hospitalizations, or events related to urea cycle disorders



DTX301: Responses Observed in All Dose Cohorts and Three Responders at Cohort 3 Dose

Cohort / Dose (GC/kg)	Patient # (Gender) / Follow-Up Duration	% Change in Ureagenesis (baseline → after treatment, % normal¹)	% Change in Ammonia Levels (baseline → after treatment, umol/L)	Alternate Pathway Medication and Diet Status	Response Status
Cohort 1 (2x10 ¹² dose)	1 (Male) 130 Weeks	+53% (67% → 102%)	Normal levels maintained	Off medications Liberalized diet	Complete responder ³
	2 (Female) 104 Weeks	+6% (52% → 55%)	92% decrease (146 → 11)	No change	No response
	3 (Male) 104 Weeks	+81% (48% → 87%)	Normal levels maintained	No change	No response
Cohort 2 (6x10 ¹² dose)	4 (Male) 78 Weeks	+79% (66%⁴ → 118%)	Normal levels maintained	Off medications Liberalized diet	Complete responder ³
	5 (Female) 78 Weeks	-38% (19% → 12%)	Normal levels maintained	No change	No response
	6 (Female) 78 Weeks	+218% (20% → 64%)	80% decrease (156 → 31 [Week 78])	Tapering medication Liberalizing diet	Responder
Cohort 3 (1x10 ¹³ dose)	7 (Female) 52 Weeks	+79% (24% → 44%)	Normal levels maintained	Off medications Liberalized diet	Complete responder ³
	8 (Female) 36 Weeks	?%² (66% → 25%)	90% decrease (184 → 19 [Week 24])	Increased protein intake and discontinuation of one of two ammonia scavengers	Responder (consistent ammonia reduction; clinical benefit noted)
	9 (Male) 24 Weeks	+188% (25%⁴ → 73%)	Normal levels maintained	No change yet	Responder (confirmed) (still on steroids)

¹ Normal rate of ureagenesis = 300 umol*kg/hr. 2 Aberrant high baseline ureagenesis values inconsistent with patient clinical severity making ureagenesis not interpretable.

³ Complete responder = biochemical effect sustained after discontinuation of alternate pathway medications and diet liberalization. ⁴ Baseline ureagenesis based on screening value.

DTX301: Safety Profile

- No infusion-related or serious adverse events (AEs) have been reported to date
- All reported AEs were grade 1-2
- Six patients (two in Cohort 1, one in Cohort 2, and three in Cohort 3)
 experienced mild, asymptomatic ALT increases consistent with those seen in other AAV gene transfer clinical trials
 - ALT increases were managed and resolved with a protocol-specified, reactive, tapering regimen of oral corticosteroids administered in the outpatient setting



DTX301: Next Steps

- Enrolling three additional patients in prophylactic steroid cohort at 1e13 dose
 - Dosing in this cohort is currently on hold due to COVID-19
- Planning for Phase 3 study and continuing FDA discussions
 - Ammonia expected to be a primary endpoint based on FDA feedback

Prophylactic steroid cohort (1e13 dose) update around the end of 2020¹

1: Barring potential delays due to COVID 19



DTX401: AAV8 for Glycogen Storage Disease Type Ia

- GSDIa: Defect in liver's ability to release glucose to the circulation due to G6Pase deficiency
- Key symptoms/prognosis
 - Severe life-threatening hypoglycemia
 - Significant morbidity and mortality
 - Long-term liver and renal disease
 - Impaired growth and delayed puberty
 - Severe long-term complications (70-80% patients)
- Treatment: Diet and cornstarch only
 - Keeps patients alive but not normal
 - Only curative approach is liver transplantation

• WW prevalence: 6,000

Patient 3 Cornstarch when Travelling



"I don't think people can understand how fast the blood sugars fall. And the stress that these families have, knowing that if you oversleep or you miss your alarm clock, your child can die or have a seizure."

-David Weinstein, Director-Glycogen Storage Disease Program, Connecticut Children's Medical Center



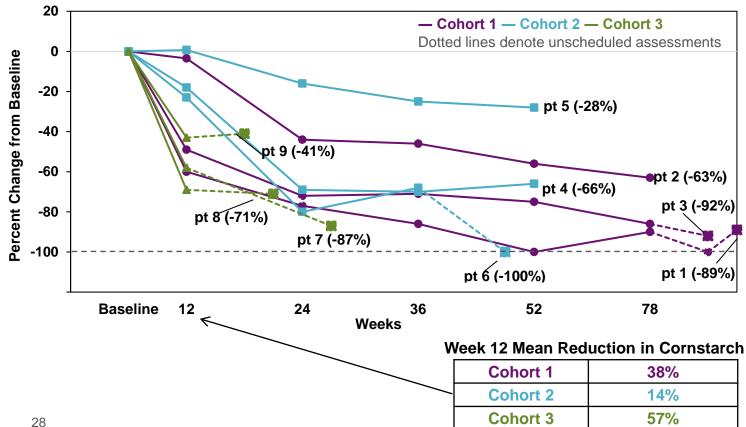
DTX401: Treatment Protocol Changes

Lessons learned from earlier cohorts prompted the following changes to the protocol prior to dosing of patients in Cohort 3 (6x10¹² GC/kg):

- Reduced cornstarch dose at the start of the controlled fasting challenge (decreased from 35 grams to 5 grams)
- Use of continuous glucose monitoring (CGM)
- Implementation of an 'optimized' reactive steroid regimen



Substantial Reduction in Cornstarch Requirements for All Patients More Rapid Reductions in Cohort 3 by 12 Weeks





DTX401: Summary of Data

Dose Cohort 3

- More rapid reductions in cornstarch requirements
- CGM confirms early transgene expression and allows for timely and more accurate cornstarch reduction
- 'Optimized' reactive steroid regimen more effectively mitigated ALT elevations

All Cohorts

- All patients (n=9) have shown an improved response in time to hypoglycemia and decreased cornstarch requirements
- Consistent and acceptable safety profile across all patients



DTX401: Next Steps

- Collecting longer-term data from confirmatory Cohort 3
- Planning for Phase 3 study and continuing FDA discussions
 - Cornstarch requirements, time to hypoglycemia during fasting challenge, number of hypoglycemic events through CGM data, all important in evaluating glucose control

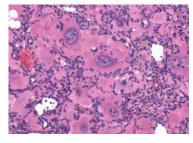
Longer-term Cohort 3 data expected in second half of 2020¹

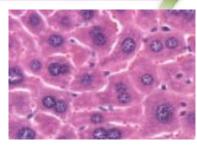
1: Barring potential delays due to COVID 19



UX701 for Wilson Disease Second clinical program to utilize HeLa manufacturing system

- Wilson Disease: Causes copper to accumulate in liver, brain and other vital organs
- Key symptoms/prognosis: Liver failure, neurological deterioration, death
- Standard of Care: Chelation therapy and dietary restriction
 - Many patients still experience liver and neurological deterioration
- WW prevalence: >50,000
- IND planned by end of 2020

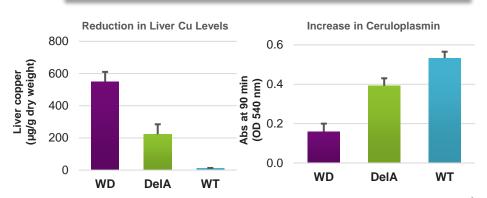




Untreated KO Mice

1x10¹¹ GC Treated Mice

Reduced liver copper accumulation leading to improved liver pathology in preclinical models





Gene Therapy Manufacturing Platforms: Optimized for Scalability and Efficiency

HeLa PCL enables reproducible and consistent commercial-scale manufacturing at lower COGS





HemA in the clinic and planned for Wilson



GSDIa and OTC will transition to in-house manufacturing facility in early commercial stages

HEK293 Suspension/Transfection





4 x 200L

1

OTC and GSDIa in the clinic; GSDIa will transition to HeLa



HeLa PCL Platform: Unlocking Value Across Multiple Programs and Companies

Broad Platform-Based Partnership



- Non-exclusive license to use manufacturing technologies initiated in 2020
- \$125M upfront plus \$75M equity investment

Program-Based Partnership



- License to HeLa-based program in Hemophilia A
- Clinical program using HeLa at 2,000L commercial scale

Internally-Originated Program



- IND expected by year-end for Wilson disease
- First in-house program to utilize HeLa platform
- Additional earlier-stage programs on track

Tech Collaboration for Internal Program



- License to use novel microdystrophin with AAV8
- Utilize HeLa platform for cost-effective manufacturing in Duchenne muscular dystrophy



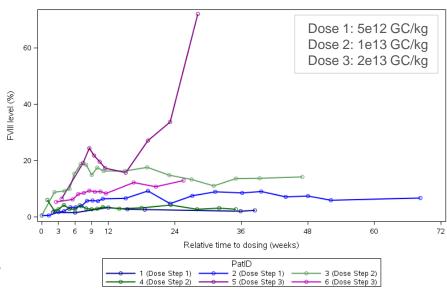
Positive, Clinically Effective HemA Data from the HeLa Platform Out-licensed program to Bayer validates Ultragenyx HeLa system



- Positive data from first three dose cohorts
 - Data from six patients, two at each dose
- Clinically meaningful Factor VIII levels in one patient in Cohort 1 and all patients at higher doses
 - No spontaneous bleeds in Cohort 3 after reaching full expression and discontinuing prophylaxis
- Favorable safety results
 - ALT/AST elevations observed in one patient in Cohort 2 and both in Cohort 3
 - Managed with tapering course of corticosteroids
- Dose escalation ongoing

Factor VIII Expression Levels

(Chromogenic assay; % normal)





Building a Diversified Commercial Rare Disease Company



2010 - 2019

- \$100M revenue in 2019
- 2 approved products
- 9 clinical programs
- 34 clinical studies
- 14+ preclinical programs



2020

Mepsevii (vestronidase alfa-vjbk) injection CRYSViTA® burosumab TRIHEPTANOIN Oral Liquid

- Crysvita TIO and Dojolvi approved in June
- \$180M revenue through Q3 YTD

Pipeline Development

- Angelman, OTC, and GSDIa data
- New preclinical Duchenne gene therapy program and Wilson gene therapy IND



2021 - 2025+

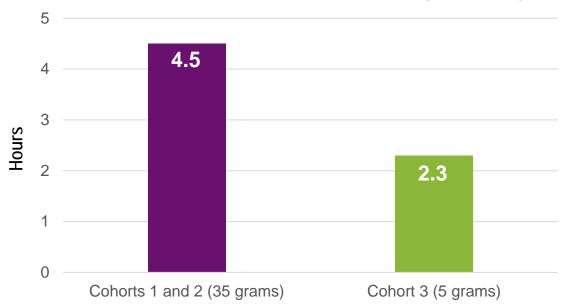
- 10x revenue growth by 2025, approaching \$1B revenue
- 7+ approved products
- 6+ programs with pivotal data
- GMP gene therapy manufacturing plant
- Robust pipeline





DTX401: Cohort 3 Baseline Time to Hypoglycemia 48% Less Than Baseline of Prior Cohorts

Mean duration of baseline controlled fasting challenge, hours



 Reduced cornstarch dose at the start of the controlled fasting challenge in Cohort 3 avoided hyperinsulinemic responses observed in Cohorts 1 and 2



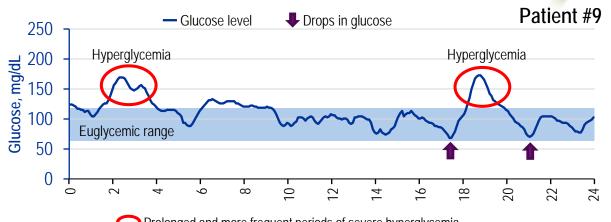
DTX401: Early Transgene Expression Revealed by CGM

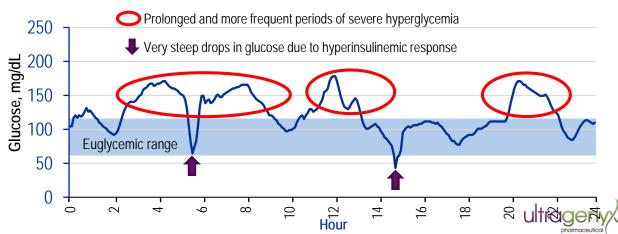
Day -3 Prior to DTX401 Dose

 Periods of hyperglycemia followed by drops in glucose

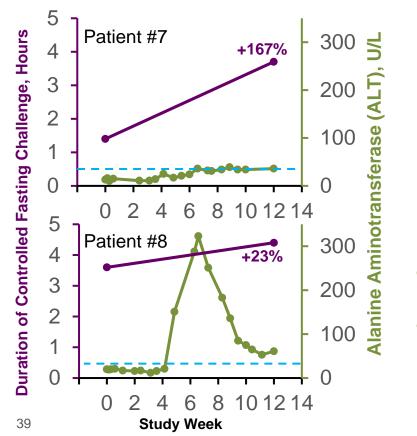
Day +4 After DTX401 Dose

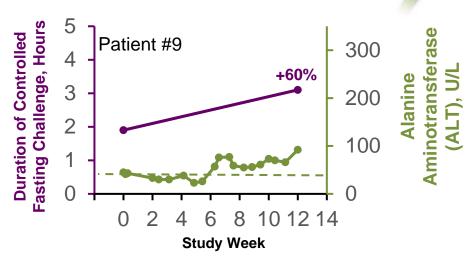
 As transgene expression begins post-DTX401 dose, prolonged periods of severe hyperglycemia are followed by hyperinsulinemic responses resulting in severe drops in glucose





DTX401: All Patients in Cohort 3 Experienced Increased Time To Hypoglycemia





- All three patients received an optimized reactive steroid regimen at approximately week 4
- Patient 8 had an asymptomatic and transient rise in ALT
- - Female ALT Upper Limit of Normal, 33 U/L
- – Male ALT Upper Limit of Normal, 40 U/L



Key Licenses & Intellectual Property

Product	License	US Intellectual Property Rights/Royalties
CRYSVITA® (XLH, TIO)	KKC	 Anti-FGF23 antibodies and use for treatment of XLH and TIO (2022-2032)¹ Q2W dosing for treatment of FGF23-associated hypophosphatemic disorders (2035) See discussion of KKC license and collaboration in annual report for royalty summary
MEPSEVII®	St. Louis University (Know-How)	Low single-digit royalty until expiration of orphan drug exclusivity
(MPS 7)	N/A (IP Owned by Ultragenyx)	 Recombinant human GUS (rhGUS) and use for treatment of MPS7 (2035)
Dojolvi™ (LC-FAOD)	Baylor Research Institute (BRI)	 Compositions comprising triheptanoin (2020-2029)¹ Use of triheptanoin for treatment of LC-FAOD (2020) Mid single-digit royalty
DTX301 (OTC Deficiency)	Sub-License from REGENXBIO of UPENN IP	 AAV8 Capsid (2022-2024) Recombinant vectors comprising codon-optimized OTC gene (2035) Low to mid single-digit royalty
DTX401 (GSDIa)	Sub-License from REGENXBIO of UPENN IP	 AAV8 Capsid (2022-2024) Low to mid single-digit royalty
	NIH (Non-Exclusive)	 Recombinant vectors comprising codon-optimized G6Pase gene (2034) Low single-digit royalty
DTX201 (Hemophilia A)	Sub-License from REGENXBIO of UPENN IP	 Hu37 Capsid (2024) Recombinant vectors comprising codon-optimized Factor VIII gene (Pending; 2037) Low to mid single-digit royalty

Revenue to Ultragenyx Maintained After Transition from Profit Share to Royalty in U.S.





Year 5
Revenue sustained through profit share transition

Year 10+

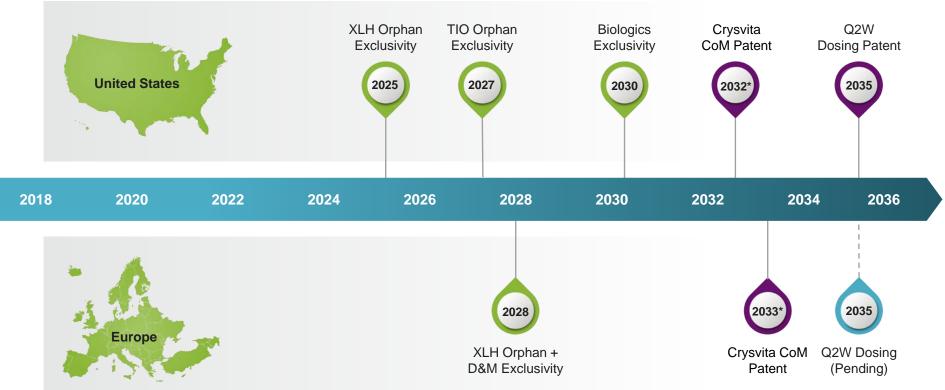
	U.S. AND CANADA	LATIN AMERICA	EUROPE
Commercialization	 KKC books sales 50/50 profit share for 5 years then tiered revenue share Shared commercial activities over time 	Ultragenyx commercializes and books sales	KKC commercializes and books sales
Royalties	After 5 years, tiered revenue share in mid to high 20% range to Ultragenyx after profit share period	Low single-digit royalty to KKC	Up to 10% non-cash revenue ¹ to Ultragenyx after Royalty Pharma transaction
Commercial supply	KKC supplies: 35% of net sales through 2022, 30% thereafter	KKC supplies: 35% of net sales through 2022, 30% thereafter	NA

^{1:} Beginning January 1, 2020, the company no longer receives cash payments from the EU territory royalty until the respective threshold amount is met pursuant to the Royalty Pharma transaction. The company remains, however, contractually entitled to the royalties from KKC and will continue recognizing the Crysvita EU territory royalties in total revenues as "non-cash revenue" since the associated cash proceeds will be remitted to Royalty Pharma.



Crysvita® Exclusivity Summary







Mepsevii® Exclusivity Summary



injection, for intravenous use



Dojolvi® Exclusivity Summary



