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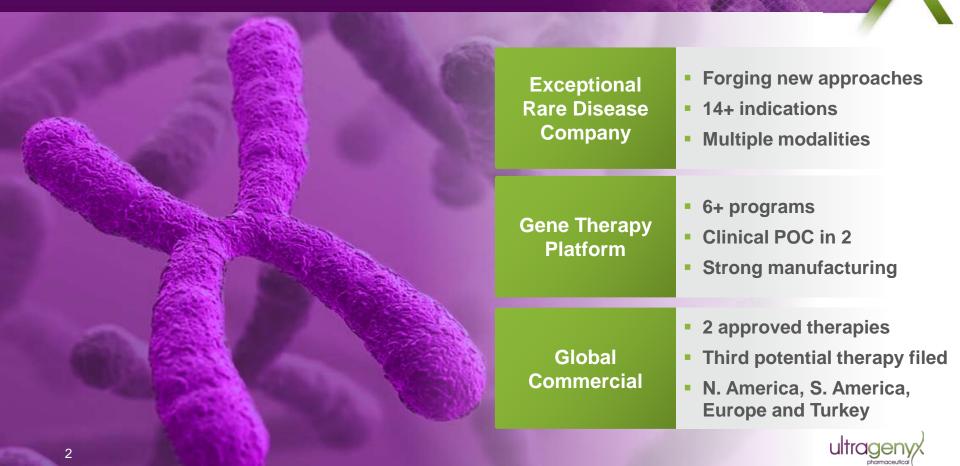
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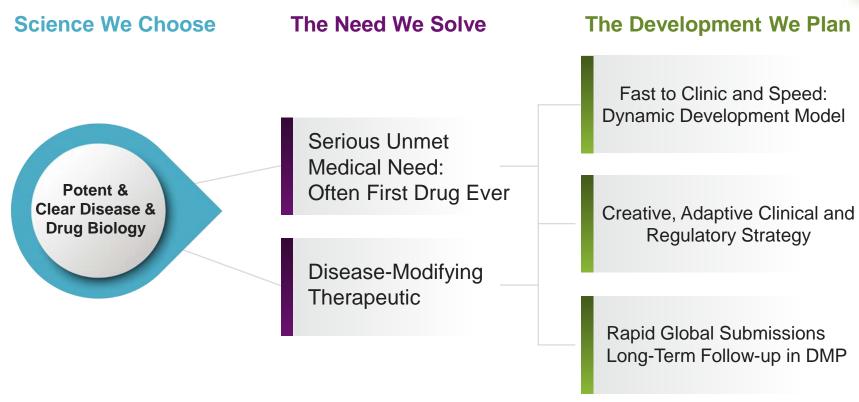
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## Ultragenyx: Rare by Design, 9 Years from Founding



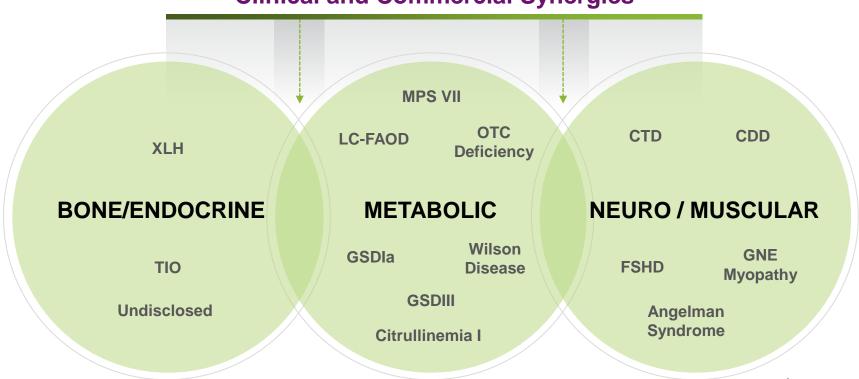
## The RARE Formula for Effective Pipeline Development





# Current Focus on Therapeutic Areas with Rare Genetic Disease

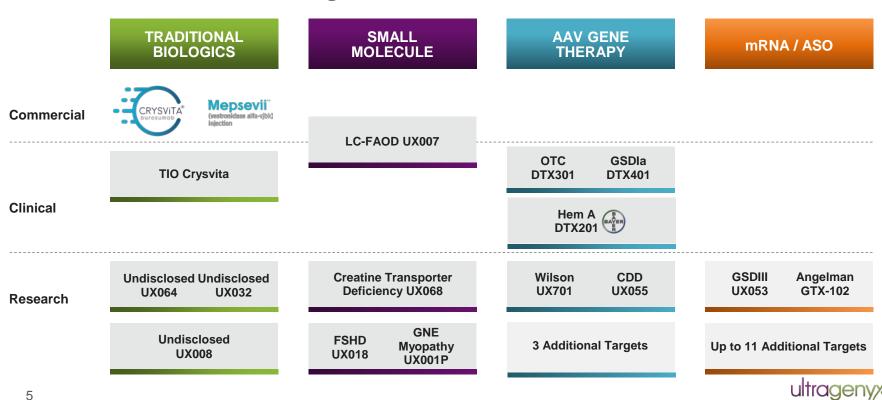
### **Clinical and Commercial Synergies**





## Pipeline Driving Next Opportunities Across 4 Modes

### Picking the best mode for each indication



## Diverse Clinical Pipeline Across Metabolic Indications



Protein Biologic

Gene Therapy

Small Molecule

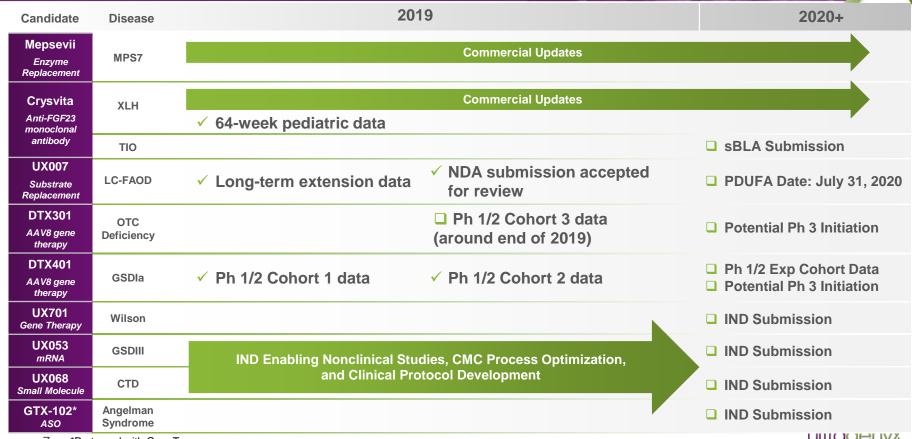
### 14+ Translational Research Programs | Advancing One into the Clinic Every 1-2 Years



<sup>\*</sup> Crysvita is approved in the U.S., Canada, EU, and Brazil

<sup>\*</sup> Mepsevii is approved in the U.S., EU, and Brazil

## Commercial and Clinical Catalysts



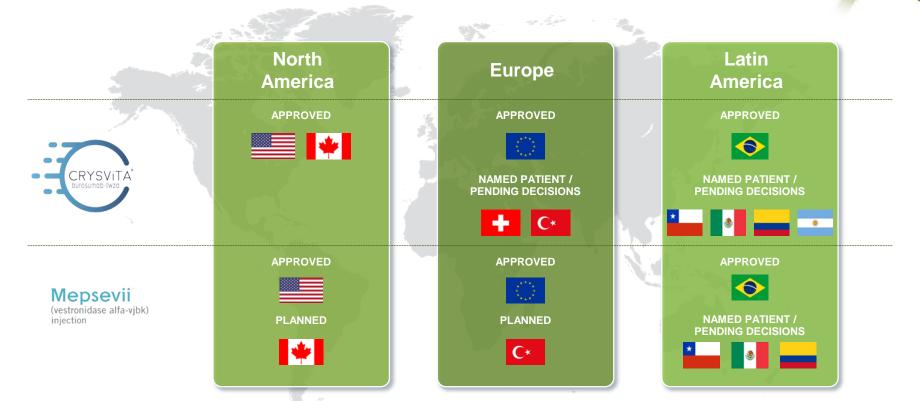


Commercial Update



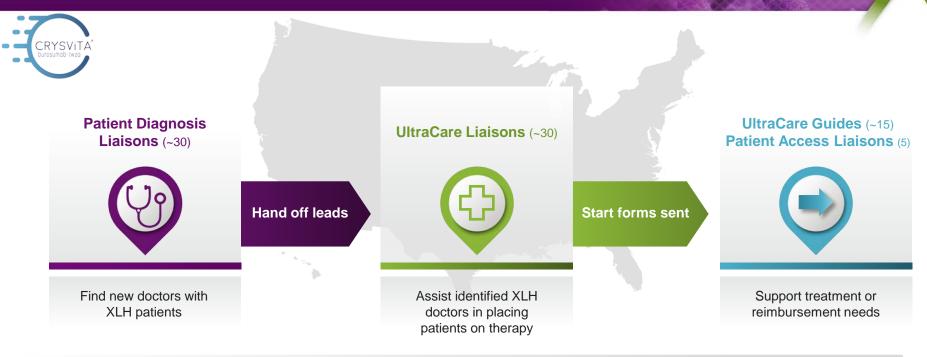
Mepsevii (vestronidase alfa-vjbk) injection

## Presence in Three Major Rare Disease Markets





# U.S. Patient Access Model for Amplifying Patient Find Unique model to support and accelerate growth



### **Market Access Support**

### **Medical Science Liaisons**

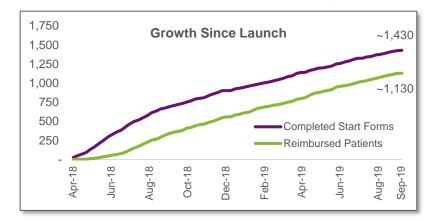


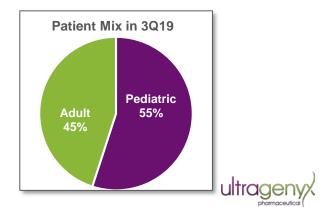
# Strong Crysvita U.S. Launch Large, growing prescriber base of ~670

### **Key U.S. Commercial Launch Metrics**

As of September 30, 2019

- ~1,430 completed start forms
- ~670 unique prescribers
- ~1,130 patients on reimbursed, commercial therapy
- In 3Q19, policies (60% private / 40% gov't), nearly full coverage of lives in the U.S.





## Updated Crysvita US Labeling Clinical Data Supports Launch

## **Pediatric**

Crysvita Superiority Over Conventional Therapy

## **Adult**

Improvement in stiffness now in the label, supporting adult treatment

## **Substantial Rickets Healing** after 64 Weeks on Treatment

- 86.2% on Crysvita
- 18.8% on oral phosphate, vitamin D regimen

### **Substantial Fracture Healing**

- Serum phosphorus normalized
- Improvements in stiffness
- Continued fracture healing
- Sustained improvement over 48 weeks





# UX007 for Long-Chain Fatty Acid Oxidation Disorders (LC-FAOD)

Phase 2 substrate replacement therapy (oral liquid)

### UX007 for LC-FAOD

### NDA submission accepted and being reviewed by FDA

- LC-FAOD: Inability to convert fat into energy
- Key symptoms/prognosis:
  - Hypoglycemia, muscle rupture, heart failure
  - Mortality ~50%¹; a cause of SIDS (newborn screened in U.S.)
- Standard of care: Diet and MCT<sup>2</sup> oil
- UX007 Phase 2 data:
  - Clinically meaningful reduction in frequency and duration of major medical events
- **U.S.** prevalence: ~2,000 3,500
- Status:
  - ✓ NDA submission accepted by FDA
  - PDUFA date: July 31, 2020



#### NDA submission includes:

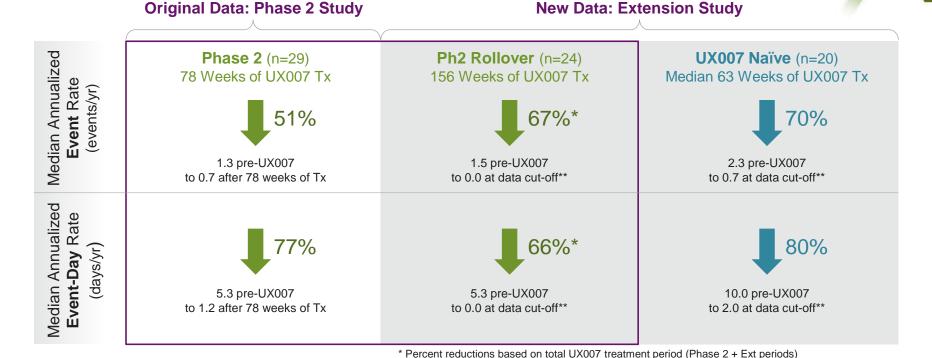
- Company-sponsored Phase 2 (n=29)
- Long-term extension study (n=75)
- Retrospective medical review (n=20)
- Expanded access (n=70)
- Investigator-sponsored study (n=32)



<sup>&</sup>lt;sup>1</sup> J Inherit Metab Dis 2013;36:795-803

<sup>&</sup>lt;sup>2</sup> Medium chain triglycerides

# Extension Study Supports Sustained Clinically Meaningful Impact of UX007 over 3 Years



\*\* 156 weeks on Tx for Ph2 rollover patients and median of 63 weeks for naïve patients

Safety profile in the long-term extension study (n=75) consistent with what has been previously observed with UX007



**AAV Gene Therapy Platform** 

# Gene Therapy Platform Supported by People, Pipeline, and Manufacturing

### **People**

- Dimension Therapeutics provided technology base
- Ultragenyx Gene Therapy has built in-house process discovery and development
- Internal knowledge de-risks scale up and tech transfer

## Deep and Focused Pipeline

- 2 clinical-stage programs
  - OTC, GSDIa
- 1 partnered clinical program
  - Hem A
- 1 late-stage research
  - Wilson
- 4 early-stage research
  - CDD, PKU, Citrullinemia type I, Undisclosed

# Large Scale Commercially Feasible Manufacturing

- Internally controlled process development
- HEK293/triple transfection
  - Up to 2x400L scale
- HeLa producer cell line
- Best large scale AAV manufacturing approach
- Scalable up to 2,000L



## Gene Therapy Pipeline: Deep and Focused

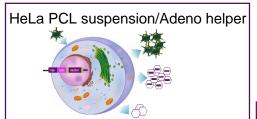
Candidate	Description	Pre-Clinical	IND	Phase 1	Phase 2	Phase 3	Est'd Patients in Dev. World
DTX301	AAV8-OTC Gene Transfer	Ornithine Trans	carbamylase [	Deficiency			~10,000
DTX401	AAV8-G6Pase Gene Transfer	Glycogen Stora	ige Disease Ty	rpe la			~6,000
BAYER DTX201	AAV-FVIII Gene Transfer	Hemophilia A					~144,000
UX701	AAV-ATP7B Gene Transfer		Wilson D	Disease			>50,000
UX055	AAV9-CDKL5 Gene Transfer		CDKL5 Defici	iency Disorder			~30,000
UX067 (Partnered)	Undisclosed						>10,000

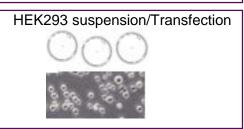
Combination Liver Metabolic Diseases (OTC, GSDIa, and Wilson) and Neurology (CDKL5)



# Ultragenyx Gene Therapy AAV Vector Production Vector Discovery to GMP Manufacturing

### PD & manufacturing across 15 ml to 2,000L continuum – scaling factor > 130,000







- Cell line cloning
- Early development

- Bioprocess development
- Preclinical & tech transfer Center of Excellence
- Large scale reference tox vector manufacturing

Clinical & commercial manufacturing at partner CMOs

ultrageny



DTX401 Program for Glycogen Storage Disease Type Ia (GSDIa)

Phase 1/2 study of adeno-associated virus serotype AAV8-G6Pase Gene Transfer

## DTX401 AAV8 for Glycogen Storage Disease Type la

 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





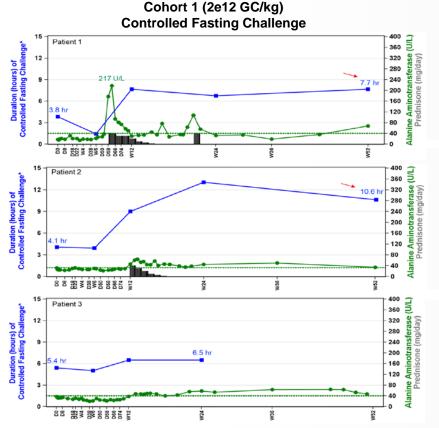


# DTX401 Phase 1/2 Study: Demographics Cohort 2 patients generally heavier and received more than 3x GC total dose

		Cohort 1 (2e12 GC/kg)			Cohort 2 (6e12 GC/kg)	
	Pt 1	Pt 2	Pt 3	Pt 4	Pt 5	Pt 6
Study Site	UCONN	UMICH	UCONN	UT	UMICH	UCONN
Gender	Male	Female	Male	Male	Male	Male
Age (yrs)	28	57	51	31	19	39
Genotype	c.247C>T c.1039C>T	c.1039C>T (homozygous)	c.247C>T c.1039C>T	c.379_380dup (homozygous)	c.247C>T c.323C>T	c.79del c.189G>A
Weight (kg)	57	59	80	114	74	93
Total GC	1.14e14	1.19e14	1.60e14	6.00e14	4.47e14	5.58e14
Baseline Treatment	Cornstarch	Cornstarch + Continuous Feed	Cornstarch	Cornstarch	Cornstarch	Cornstarch
On Study (wks)	52	52	52	34	25	19



# DTX401 Cohort 1 Long-term Data Demonstrates Improvement in Time to Hypoglycemia



### Cohort 1, Patient 1

- 103% improvement in time to hypoglycemia
- 100% reduction in daily cornstarch (off cornstarch completely)

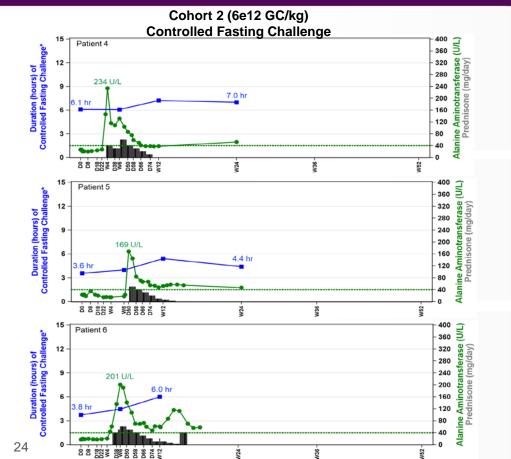
### Cohort 1, Patient 2

- 159% improvement in time to hypoglycemia
  - Terminated fasting challenge due to hunger as opposed to blood glucose levels
- 56% reduction in daily cornstarch

### Cohort 1, Patient 3

- 20% improvement in time to hypoglycemia
- 79% reduction in daily cornstarch (wk 52)

# DTX401 Cohort 2 Data Demonstrates Improvement in Glucose Control



### Cohort 2, Patient 4

- 15% improvement in time to hypoglycemia
- 69% reduction in daily cornstarch

### Cohort 2, Patient 5

- 22% improvement in time to hypoglycemia
- 16% reduction in daily cornstarch

### Cohort 2, Patient 6

- 58% improvement in time to hypoglycemia
- 68% reduction in daily cornstarch (Wk 18)

# DTX401: Clinically Significant Reduction of Daily Cornstarch Use Across Both Cohorts

	Cornstarch Consumption (grams)						
	Cohort 1 (2e12 GC/kg)			Cohort 2 (6e12 GC/kg)			
Visit	Patient 1 Patient 2		Patient 3	Patient 4	Patient 5	Patient 6	
Baseline	405	171	269	325	268	329	
W6	355	165	255	270	268	341	
W12	160	165	138	265	270	253	
W24	94	96	76	100 (-69%)	224 (-16%)	65 (-80%)	
W52	0 (-100%)	76 (-56%)	57 (-79%)	NR	NR	NR	

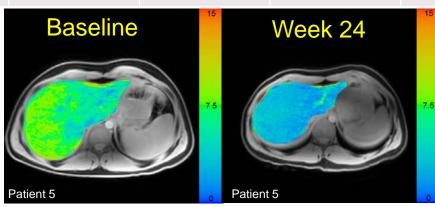
NR=Not yet reached



# DTX401 Cohort 2 Update: Glycogen Storage by MRI Fat Fraction Shows Consistent Improvement Through Whole Liver

	Liver fat fraction % (△ from baseline)						
	Cohort 1			Cohort 2			
	Patient 1	Patient 2	Patient 3	Patient 4	Patient 5	Patient 6	
Baseline	8.7	9.0	23.8	12.5	7.1	7.4	
W12	8.2 (-6%)	7.2 (-20%)	15.1 (-37%)	7.4 (-40%)	4.3 (-39%)	5.0 (-32%)	

Mean PDFF = 7.09% Volume = 2,324mL



Mean PDFF = 2.82% Volume = 1,942mL



## DTX401: No Safety Issues Observed in Cohort 1 or 2

- Mild asymptomatic elevation in ALT levels in 4 patients
  - Successfully treated with a tapering course of steroids
- No infusion-related adverse events
- All adverse events have been Grade 1 or 2
- No treatment related SAEs



# Improvement and Acceptable Safety in Both Dose Cohorts Cohort 2 has more consistent impact on other metabolic endpoints

	Coho	rt 1 at Week	24-52	Cohort 2 at Week 12-24		
Endpoint	Patient 1	Patient 2	Patient 3	Patient 4	Patient 5	Patient 6
Daily Glucoses Fasting at week 6	<b>↑</b>	<b>↑</b>	1	<b>↑</b> ↑	<b>1</b> 1	$\uparrow \uparrow$
Time to Hypoglycemia	↑103%	↑159%	↑20%	↑15%	↑22%	↑58%
Cornstarch Reduction	↓100%	↓56%	<b>↓79%</b>	↓69%	↓16%	↓80%
Liver Glycogen Week 12 MRI	↓6%	↓20%	↓37%	↓40%	↓39%	↓32%
Lactate During Fasting	+/-	+/-	+/-	$\downarrow$	$\downarrow$	$\downarrow$

Moving to Expansion Cohort to Confirm 6e12 GC/kg dose; Data Expected 1H 2020



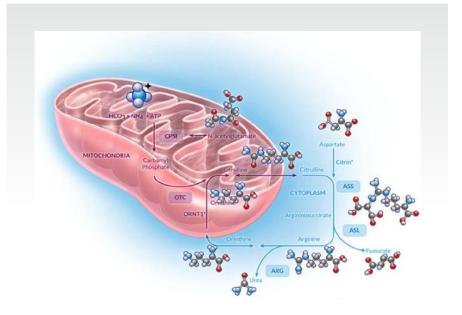


DTX301 Program for Ornithine
Transcarbamylase (OTC) Deficiency

Phase 1/2 study of adeno-associated virus serotype AAV8 vector encoding human OTC

# 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 that can lead to hospitalization, adverse cognitive & neurological effects, death
- Treatment limited; only curative approach is liver transplantation
- WW prevalence: ~10,000, 80% late-onset





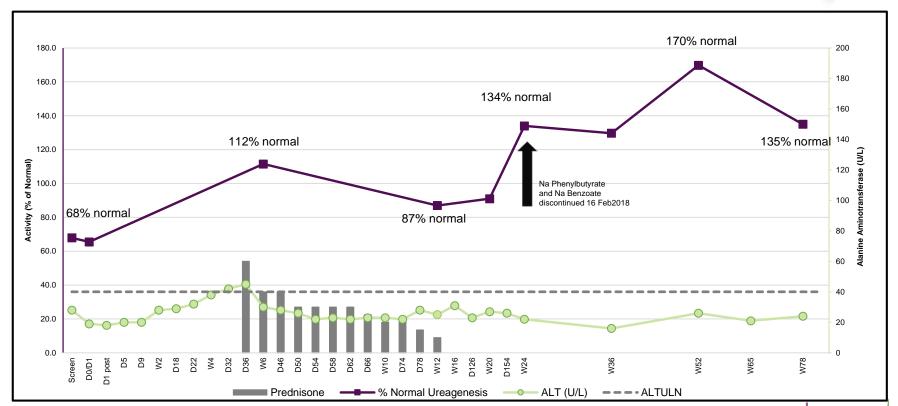
# DTX301: Two Patients Continue to Demonstrate Long-term Normalization of Ureagenesis

- Sustained normalization of ureagenesis at 52-78 weeks
- Clinically and metabolically stable, while discontinuing all alternate pathway medications
- Liberalized protein-restrictive diet without hyperammonemia concerns
- One patient had proven Influenza illness without hyperammonemia episode

Cohort 3 (1e13 GC/kg dose) update around end of 2019

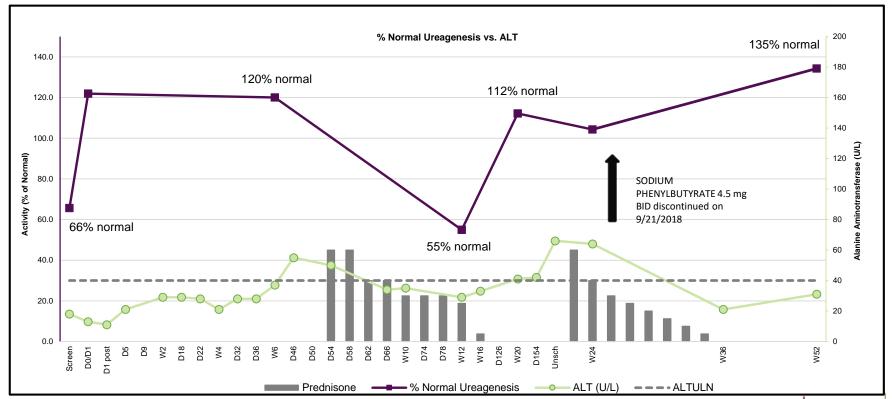


# Cohort 1, Patient 1 – Durable Normalization of Ureagenesis Liberalized diet and clinical stability off medications since ~Week 24



<sup>\*</sup> Patient entered long-term extension study after week 52

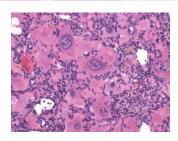
## Cohort 2, Patient 4 – Durable Normalization of Ureagenesis Liberalized diet and clinical stability off medications since ~Week 24

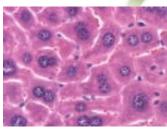




# UX701 for Wilson Disease Next Gene Therapy program

- 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/neurological deterioration
- **WW prevalence:** >50,000
- Initial preclinical studies completed
  - Novel version of ATP7B developed
  - Capsids from REGENXBIO

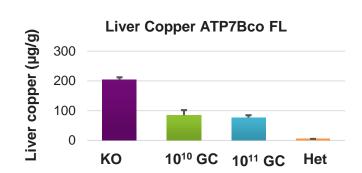




**Untreated KO Mice** 

1x10<sup>11</sup> GC Treated Mice

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

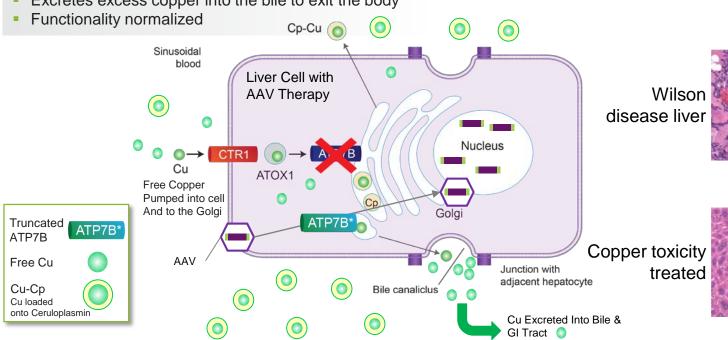


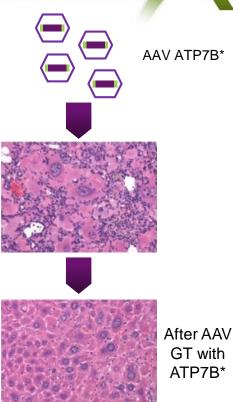


## AAV Therapy Pumps Copper from the Liver into Blood and Bile

### With AAV Therapy

- ATP7B\* is formed and pumps copper from cytoplasm into the Golgi
- Loads copper onto ceruloplasmin to secrete into the serum
- Excretes excess copper into the bile to exit the body

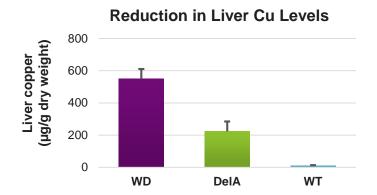


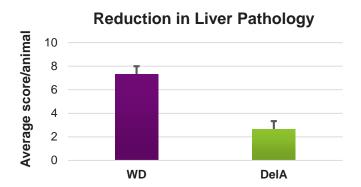




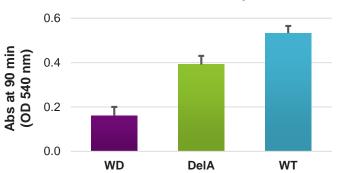
### ATP7B Deletion A – Key Therapeutic Properties

Rapid reduction in free liver copper, increased copper ceruloplasmin and reduced liver pathology





### Increase in Ceruloplasmin



### **Study Design**

- Vector: DelA
- At T<sub>0</sub> mice = 6 8 weeks old
- Duration of study: 4 weeks





UX053 Program for Glycogen Storage Disease III

## UX053 for Glycogen Storage Disease III Lead mRNA preclinical program

#### **Genetics**

Autosomal recessive mutation in the AGL gene leading to glycogen accumulation in the liver and muscle

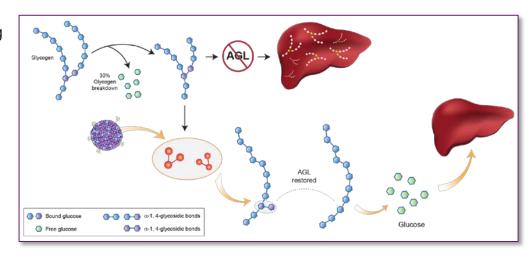
#### **Clinical Presentation (based on literature)**

- Beginning in infancy:
  - Hypoglycemia, hyperlipidemia, increased LFTs, hepatomegaly
- Later in Life
  - Fibrosis and cirrhosis
  - Cardiomyopathy, hypotonia, myopathy

#### **Current Management**

- High protein, cornstarch, fructose / galactose
- Hypoglycemia prevention
- Liver transplant

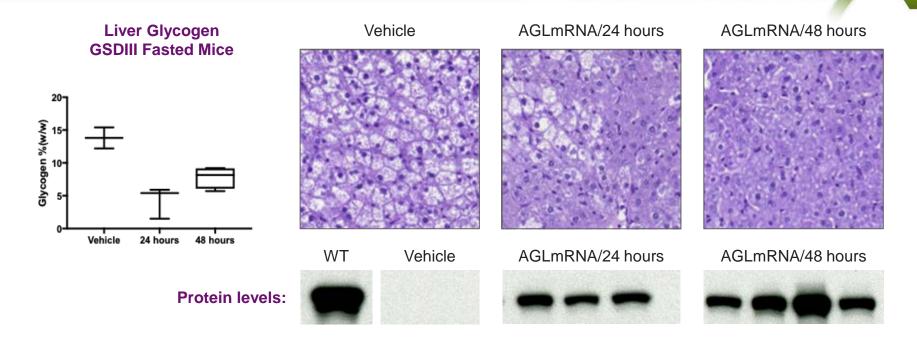
WW prevalence: ~10,000





### AGL mRNA-LNP Reduces Liver Glycogen in Single Dose

Levels approach normal and are maintained for 48 hours in mouse model



Glycogen levels are reduced and hepatocyte hypertrophy is completely resolved after a single dose, and maintained for 48 hours. PD Response correlates with liver delivered protein levels.





**UX**068

Double-Trigger Prodrug for Creatine Transporter Deficiency

## UX068 for Creatine Transporter Deficiency Lead small molecule preclinical program

Genetics: X-linked recessive disorder due to mutations in SLC6A8

- Leading cause of X-linked intellectual disability in males
- Females can have mild to severe phenotype

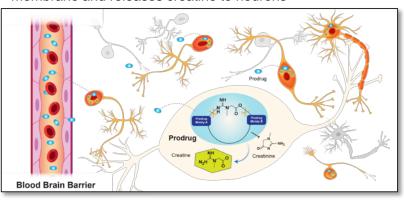
#### **Clinical Presentation (based on literature)**

- Neurological deficits
  - Autism, speech/language developmental delays
  - Cognitive / developmental impairment
  - Motor skill delays, extrapyramidal symptoms
  - Seizures
  - Brain Cr levels range from undetectable to ~20 % of normal Non-CNS deficits
  - Muscle hypotonia and hypotrophy

**Current Management:** No SOC, only supportive care, AEDs effective for seizures

WW prevalence: >50,000

<u>Mechanism of Action</u>: Prodrug traverses the BBB and cell membrane and releases creatine to neurons

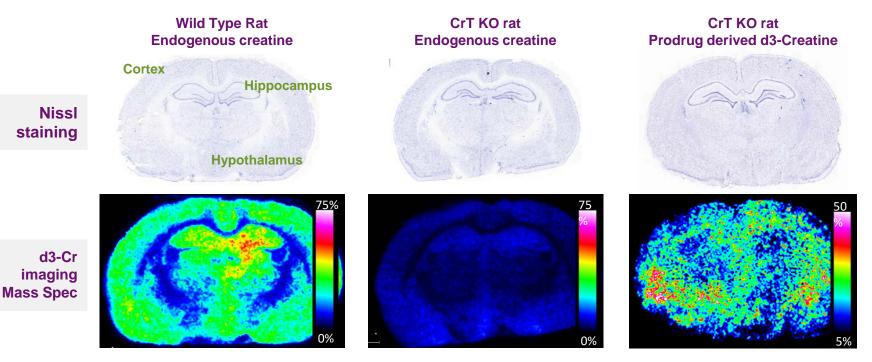




## Widespread Prodrug-derived Brain Creatine Distribution

Creatine is delivered throughout the brain, including cortex and hippocampus

Imaging Mass-Spec for d3-Creatine (prodrug derived)



40 mg/kg dosed over 8 hours to SLC6A8 KO-rat, brains harvested after 24 hours





# GTX-102 Program for Angelman Syndrome

Partnership to develop GeneTx's antisense oligonucleotide (ASO)

## New Partnership to Advance GTX-102 for Angelman Syndrome

- Significant unmet need: ~60k patients WW, ~22k in U.S., serious disease with no approved treatment options
- Clear biology of disease: Disease mechanism well understood, ASO treatment validated and targets disease directly
- Promising preclinical work completed by GeneTx
  - IND expected 1H 2020
  - Orphan Drug Designation and Rare Pediatric Disease Designation Granted

#### Deal terms:

- \$20M upfront payment for exclusive option to acquire GeneTx
- Option begins after IND acceptance; Can be extended with \$25 million payment to earlier of 30 months from first patient dosing in Phase 1/2 study or 90 days after study results available
- During exclusive option period, GeneTx funds development; Ultragenyx provides strategic guidance, clinical expertise, staff support



## Angelman Syndrome Debilitating disease with no treatment options

- Serious neurogenetic disorder
  - Estimated prevalence: 1 in 15,000
- Significant unmet need
  - Lack of speech
  - Cognitive impairment
  - Motor dysfunction
  - Seizures
  - Sleep disorder
- No currently approved therapies
  - Not neurodegenerative, potential for reversal of symptoms





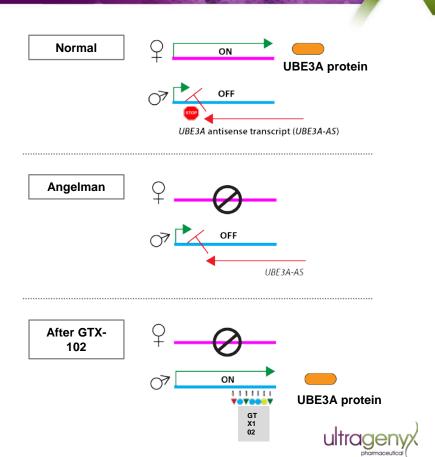






## GTX-102 ASO designed to activate the paternal gene

- Angelman defined by loss of expression of single gene UBE3A
  - Paternal UBE3A gene silenced in all mammals, but protein expressed by maternal allele
  - Angelman patients have deletion or mutation preventing maternal expression
- GTX-102 ASO reactivates the paternal UBE3A gene
  - Knocks down paternal UBE3A-antisense transcript (UBE3A-AS)
  - GTX-102 unique in targeting all implicated antisense regions

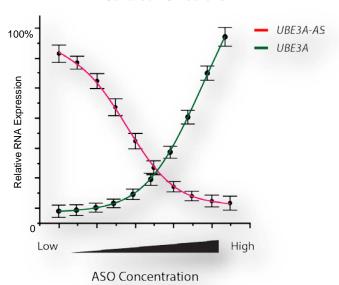


## Preclinical Proof of Concept: Specific ASO Discovered with Potent Impact on Releasing Paternal Gene Expression

#### **Human Neuronal Stem Cells**

UBE3A-AS knockdown by nearly 100% in human AS neurons after treatment with GTX-102 in vitro. Direct correlation with UBE3A RNA supporting robust reactivation of the paternal UBE3A gene.

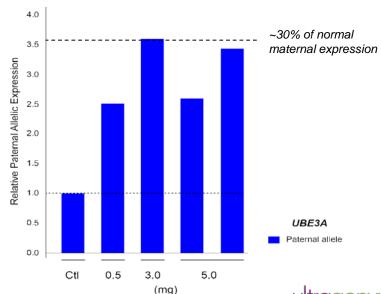
### Relative Expression of RNA after GTX-102 Exposure in Cultured AS Neurons



#### **Non-Human Primates**

Single-dose of GTX-102 in wild type monkeys demonstrates substantially increased paternal UBE3A gene expression in key brain region. Additional NHP data show broad brain distribution of antisense knockdown.

### Relative Increase of Paternal UBE3A Expression in Motor Cortex after Single Dose of GTX-102





Finance and Business Summary

## Financial Overview as of September 30, 2019



- Total Revenue (3Q19): \$25.8 million
- Total RARE Crysvita Revenue (3Q19): \$22.6 million
- Cash<sup>1</sup>: \$527.1 million
- Cash Used in Operations (Sept 30 YTD): \$273.3 million
- No Debt



## Diversified Rare Disease Company: Revenue and Catalysts



### 2010 - 2018



### 2019



### 2020+

- 2 commercially approved products in 3 major geographic regions
- 34 active or completed clinical studies
- 14+ programs in the development pipeline

- Continue successful global launches of Crysvita and Mepsevii
- UX007 NDA submitted
- DTX301 and DTX401 data readouts
- Begin building our AAV GMP manufacturing facility
- Active on BD front

- Phase 3 gene therapy studies
- Launch UX007 for LC-FAOD if approved
- Initiate clinical trials for Angelman, Wilson, GSDIII, and CTD programs
- Incorporate other BD deals into the pipeline





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







	U.S. AND CANADA	EUROPE	LATIN AMERICA
Commercialization	<ul> <li>KHK books sales</li> <li>50/50 profit share for 5 years then tiered revenue share</li> <li>Shared commercial activities over time</li> </ul>	KHK commercializes and books sales	Ultragenyx commercializes and books sales
Royalties	After 5 years, tiered revenue share in mid to high 20% range to Ultragenyx after profit share period	Up to 10% royalty to Ultragenyx	Low single-digit royalty to KHK
Commercial supply	KHK supplies; price is double-digit percentage of net sales	NA	KHK supplies; price is double-digit percentage of net sales

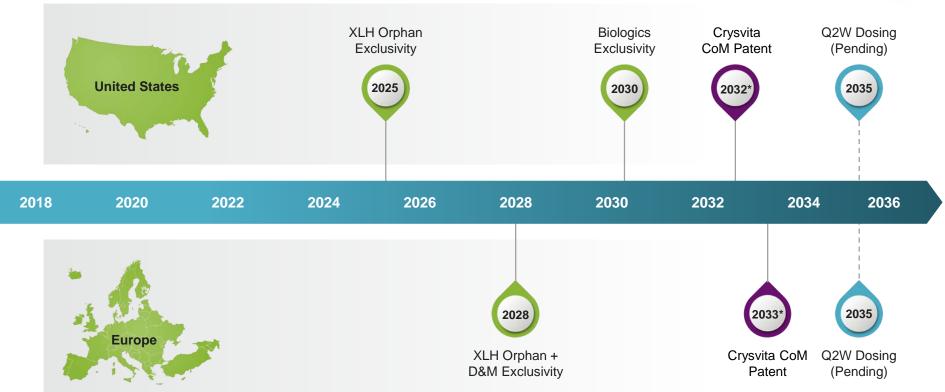
## Key Licenses & Intellectual Property

Product	License	US Intellectual Property Rights/Royalties
CRYSVITA® (XLH, TIO)	KHK	<ul> <li>Anti-FGF23 antibodies and use for treatment of XLH and TIO (2022-2032)<sup>1</sup></li> <li>See discussion of KHK license and collaboration in annual report for royalty summary</li> </ul>
MEPSEVII® (MPS 7)	St. Louis University (Know-How)	Low single-digit royalty until expiration of orphan drug exclusivity
	N/A (IP Owned by Ultragenyx)	<ul> <li>Recombinant human GUS (rhGUS) and use for treatment of MPS7 (2035)</li> </ul>
UX007 (LC-FAOD)	Baylor Research Institute (BRI)	<ul> <li>Compositions comprising triheptanoin (2020-2029/30)<sup>1</sup></li> <li>Use of triheptanoin for treatment of LC-FAOD (2020)</li> <li>Mid single-digit royalty</li> </ul>
DTX301 (OTC Deficiency)	Sub-License from REGENXBIO of UPENN IP	<ul> <li>AAV8 Capsid (2022-2024)</li> <li>Recombinant vectors comprising codon-optimized OTC gene (2035)</li> <li>Low to mid single-digit royalty</li> </ul>
DTX401 (GSDIa)	Sub-License from REGENXBIO of UPENN IP	<ul><li>AAV8 Capsid (2022-2024)</li><li>Low to mid single-digit royalty</li></ul>
	NIH (Non-Exclusive)	<ul> <li>Recombinant vectors comprising codon-optimized G6Pase gene (2034)</li> <li>Low single-digit royalty</li> </ul>
DTX201 (Hemophilia A)	Sub-License from REGENXBIO of UPENN IP	<ul> <li>Hu37 Capsid (2024)</li> <li>Recombinant vectors comprising codon-optimized Factor VIII gene (Pending; 2037)</li> <li>Low to mid single-digit royalty</li> </ul>

<sup>&</sup>lt;sup>1</sup>Includes projected U.S. patent term extension

## Crysvita® Exclusivity Summary





## Mepsevii<sup>™</sup> Exclusivity Summary



injection, for intravenous use



## **UX007 Exclusivity Summary**

