UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 8-K

CURRENT REPORT Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): May 3, 2021

AVROBIO, INC.

(Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction of incorporation)

001-38537

81-0710585 (I.R.S. Employer Identification No.)

One Kendall Square Building 300, Suite 201 Cambridge, MA 02139 (Address of principal executive offices, including zip code)

(617) 914-8420 ephone number, including area code)

Not Applicable (Former Name or Former Address, if Changed Since Last Report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the ollowing provisions:			
Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)			
Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)			
Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))			
Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))			
Securities registered pursuant to Section 12(b) of the	e Act:		
Title of each class	Trading symbol(s)	Name of each exchange on which registered	
Common Stock, \$0.0001 par value per share	AVRO	Nasdaq Global Select Market	

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§ 230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§ 240.12b-2 of this chapter).

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. \Box

Item 8.01 Other Events.

On May 3, 2021, AVROBIO, Inc. (the "Company") issued a press release titled "AVROBIO Provides Regulatory Update on Investigational AVR-RD-01 for Fabry Disease." A copy of the press release is filed as Exhibit 99.1 to this Current Report on Form 8-K and incorporated into this Item 8.01 by reference.

Also on May 3, 2021, the Company updated its corporate presentation for use in meetings with investors, analysts and others. A copy of the slide presentation is filed as Exhibit 99.2 to this Current Report on Form 8-K and incorporated into this Item 8.01 by reference.

Item 9.01. Financial Statements and Exhibits.

(d) Exhibits

- 99.1 <u>AVROBIO, Inc. press release, dated May 3, 2021.</u>
- 99.2 AVROBIO, Inc. slide presentation, dated May 2021.
- The cover page from this Current Report on Form 8-K, formatted in Inline XBR

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

AVROBIO, INC.

Date: May 3, 2021

By: /s/ Geoff MacKay
Geoff MacKay
President and Chief Executive Officer

AVROBIO Provides Regulatory Update on Investigational AVR-RD-01 for Fabry Disease

Anticipates initiating registration trial with kidney biopsy endpoint in mid-2022 to support potential full approval of AVR-RD-01 as first-line therapy, subject to FDA discussion and agreement

Two additional patients dosed in last two months in ongoing FAB-GT Phase 2 trial; plan to enroll a total of up to 14 participants

To support use of AVR-RD-01 in a broad Fabry disease population, company expects to include female patients, eliminate antibody status exclusions and collect additional cardiovascular and CNS data in FAB-GT trial

CAMBRIDGE, Mass., May 3, 2021 — <u>AVROBIO, Inc.</u> (Nasdaq: AVRO), a leading clinical-stage gene therapy company with a mission to free people from a lifetime of genetic disease, today provided an update on its regulatory plans for AVR-RD-01, the first investigational lentiviral gene therapy for Fabry disease. This update follows a recent U.S. regulatory development for Fabry disease therapies, as well as AVROBIO's receipt of minutes from the company's Type B (End-of-Phase 1) meeting with the U.S. Food and Drug Administration (FDA) on March 31, 2021.

On March 11, 2021, approximately three weeks before the company's End-of-Phase 1 meeting, FDA granted full approval of Fabrazyme® (agalsidase beta)¹ more than 18 years after the enzyme replacement therapy (ERT) received accelerated approval on the basis of a surrogate endpoint: reduction of GL-3 (also referred to as Gb3) inclusions in biopsied renal peritubular capillaries (PTCs). The conversion of Fabrazyme to full approval opens a new pathway for full approval of ERTs based on this surrogate endpoint, which AVROBIO believes could potentially apply to investigational AVR-RD-01. In addition, the conversion of Fabrazyme to full approval limits the accelerated approval pathways available for new therapies to treat Fabry disease. As a result, AVROBIO can no longer pursue an accelerated approval pathway for AVR-RD-01 with the FAB-GT trial as currently designed, and instead intends to discuss with FDA a registration trial with a primary efficacy endpoint of clearance of GL-3/Gb3 inclusions in biopsied renal PTCs as the basis for full approval.

"We believe we have a potential new path to pursue full approval for investigational AVR-RD-01 as a first-line therapy for Fabry disease by conducting a single, head-to-head registration trial versus Fabrazyme using a kidney biopsy surrogate endpoint similar to our FAB-GT Phase 2 trial, where we have seen 100% and 87% substrate reductions at one year post-gene therapy in the two patients with evaluable kidney biopsies," said Geoff MacKay, CEO and president of AVROBIO. "We plan to design a registration trial with a scope, size and duration comparable to other gene therapy trials."

Fabrazyme® (agalsidase beta) is a registered trademark owned by Sanofi Genzyme

In its FDA briefing book, which was submitted to FDA prior to Fabrazyme's full approval, the company sought an accelerated approval pathway by expanding the FAB-GT Phase 2 clinical trial and conducting an additional confirmatory trial. The revised regulatory plan anticipates retaining the two-study approach with a similar overall requirement in terms of scope, size and duration.

The company plans to engage FDA to discuss and agree upon its revised approach, with the goal of initiating the registration trial in mid-2022. Although FDA guidance provides that a surrogate endpoint in a particular clinical development program should not be assumed to be appropriate for use in a different program, AVROBIO believes this recent development could potentially apply to investigational AVR-RD-01, a gene therapy designed to facilitate the production of functional enzyme by the patient's own stem cells after a one-time treatment with the therapeutic gene.

AVROBIO also remains on track to request a CMC-oriented Type C meeting in the second half of 2021. Additionally, in parallel the company intends to seek scientific advice from the European Medicines Agency on the planned registration trial.

Two additional patients dosed in two months, with plans to amend the FAB-GT trial protocol

The ongoing FAB-GT trial continues to progress, now with six patients dosed, including two in the past two months, and additional participants are enrolled in the trial.

To help support the use of AVR-RD-01 in a broad Fabry disease population, AVROBIO expects to amend the FAB-GT trial protocol in the second quarter of 2021 by enrolling female participants, eliminating antibody-status exclusions and adding the collection of data on additional parameters that are recognized to be limitations of ERT, such as endpoints to assess the gene therapy's potential ability to address cardiovascular and central nervous system manifestations. The company plans to enroll a total of up to 14 participants in the FAB-GT trial.

"We look forward to working with FDA and other regulators to design a single registration trial to support full approval that we hope will advance AVR-RD-01 as quickly as possible. We remain fiercely committed to our purpose: to free people living with Fabry disease from a lifetime of painful symptoms, chronic treatment and the unremitting fear of disease progression," added MacKay.

About AVR-RD-01

AVR-RD-01 is an investigational ex vivo lentiviral gene therapy designed to provide a durable therapeutic benefit for people living with Fabry disease. The therapy starts with the patient's own hematopoietic stem cells, which are genetically modified to express functional alpha-galactosidase A (AGA). Functional AGA reduces levels of globotriaosylceramide (Gb3 or GL-3), a toxic substrate, which together with its metabolite globotriaosylsphingosine (lyso-Gb3 or lyso-GL1), are associated with the signs and symptoms of Fabry disease. AVR-RD-01 has received orphan drug designations from FDA and the European Commission. AVROBIO is currently evaluating AVR-RD-01 in FAB-GT (NCT03454893), a Phase 2 clinical trial.

About Fabry Disease

Fabry disease is a rare, inherited lysosomal disorder characterized by the accumulation of globotriaosylceramide (Gb3 or GL-3) in the body's cells. The build-up of Gb3 is due to variations in the GLA gene, which is responsible for the production of alpha-galactosidase A, the enzyme that breaks down Gb3. When Gb3 accumulates in cells and tissues, damage may occur and result in the progressive signs and symptoms of Fabry disease, including chronic pain, gastrointestinal issues such as nausea, vomiting and diarrhea, hearing loss, heart disease, progressive kidney disease and an increased risk of stroke. Even on ERT – the current standard of care – people with Fabry disease typically have a shortened life expectancy and may experience debilitating symptoms that significantly reduce their quality of life. An estimated one in 40,000 to 60,000 males are diagnosed with Fabry disease. Fabry disease also affects females, although the prevalence is unknown.

About AVROBIO

Our vision is to bring personalized gene therapy to the world. We aim to prevent, halt or reverse disease throughout the body with a single dose of gene therapy designed to drive durable expression of therapeutic protein, even in hard-to-reach tissues and organs including brain, muscle and bone. Our ex vivo lentiviral gene therapy pipeline includes clinical programs in Fabry disease, Gaucher disease type 1 and cystinosis, as well as preclinical programs in Hunter syndrome, Gaucher disease type 3 and Pompe disease. AVROBIO is powered by our industry leading plato® gene therapy platform, our foundation designed to deliver gene therapy worldwide. We are headquartered in Cambridge, Mass., with an office in Toronto, Ontario. For additional information, visit avrobio.com. and follow us on Twitter and LinkedIn.

Forward-Looking Statements

This press release contains forward-looking statements, including statements made pursuant to the safe harbor provisions of the Private Securities Litigation Reform Act of 1995. These statements may be identified by words and phrases such as "aims," "anticipates," "believes," "could," "designed to "estimates," "espects," "forecasts," "goal," "intends," "may," "plans," "possible," "potential," "seeks," "will," and variations of these words and phrases or similar expressions that are intended to identify forward-looking statements. These forward-looking statements include, without limitation, statements regarding our business strategy for and the potential therapeutic benefits of our current and prospective product candidates, our plans and expectations with respect to the development of AVR-RD-01, including timing and design of our potential registration trial, the intended use of such trial as our registration trial for this product candidate, anticipated interactions with regulatory agencies and the planned use of surrogate endpoints in future development of AVR-RD-01, results of preclinical studies, the design, commencement, enrollment and timing of ongoing or planned clinical trials, clinical trial results, product approvals and regulatory pathways, the timing of patient recruitment and enrollment activities, and product approvals, anticipated benefits of our gene therapy platform including potential impact on our commercialization activities, timing and likelihood of success, and the expected benefits and results of our implementation of the plato® platform in our clinical trials and gene therapy programs, including the use of a personalized and ultra-precision busulfan conditioning regimen. Any such statements in this press release that are not statements of historical fact may be deemed to be forward-looking statements. Results in preclinical or early-stage clinical trials and to not ensure regulatory approval. You should not place undue reliance on these statements, or the scientific data presented.

as management's current beliefs and expectations of future events only as of today and are subject to a number of risks and uncertainties that could cause actual results to differ materially and adversely from those set forth in or implied by such forward-looking statements. These risks and uncertainties include, but are not limited to, the risk that any one or more of AVROBIO's product candidates will not be successfully developed or commercialized, the risk of cessation or delay of any ongoing or planned clinical trials of AVROBIO or our collaborators, the risk that AVROBIO may not successfully recruit or enroll a sufficient number of patients for our clinical trials, the risk that AVROBIO may not realize the intended benefits of our gene therapy platform, including the features of our plato® platform, the risk that our product candidates or procedures in connection with the administration thereof will not have the safety or efficacy profile that we anticipate, the risk that prior results, such as signals of safety, activity or durability of effect, observed from preclinical or clinical trials, will not be replicated or will not continue in ongoing or future studies or trials involving AVROBIO's product candidates, the risk that regulatory agencies may disagree with our anticipated development approach for our product candidates such as AVR-RD-01, including that we may not be able to utilize our planned registration trial of AVR-RD-01 for full approval but instead be required to conduct additional testing, that we may be required to conduct our planned testing in a more time-consuming, expensive, challenging or otherwise different manner than we envision or have conducted for our existing trials, particularly in light of the FDA's preference for clinical trials to be double-blinded and potentially include sham controls, the risk that we may not be able to utilize our envisioned surrogate endpoint to support full approval of AVR-RD-01 but instead be required to measure a different endpoint such as a clinical o

Any forward-looking statements in this press release are based on AVROBIO's current expectations, estimates and projections about our industry as well

Investor Contact:

Christopher F. Brinzey Westwicke, an ICR Company 339-970-2843 chris.brinzey@westwicke.com

Media Contact:

Stephanie Simon
Ten Bridge Communications
617-581-9333
stephanie@tenbridgecommunications.com



Disclaimer

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This presentation may contain forward-looking statements made pursuant to the safe harbor provisions of the Private Securities Litigation Reform Act of 1995. These statements may be identified by words and phrases such as "aims." "anticipates." "believes. "could," "designed to," "estimates," "expects," "forecasts," "goal," "intends," "may," "plans," "possible," "potential," "seeks," "will," and variations of these words and phrases or similar expressions that are intended to identify forward-looking statements. These forward-looking statements include, without limitation, statements regarding our business strategy for and the potential therapeutic benefits of our current and prospective product candidates; the design, commencement, enrollment and timing of ongoing or planned clinical trials and regulatory pathways; our plans and expectations with respect to the development of AVR-RD-01. including timing and design of our potential registration trial, the intended use of such trial as our registration trial for this product candidate, anticipated interactions with regulatory agencies and the planned use of surrogate endpoints in future development of AVR-RD-01; the timing of patient recruitment and enrollment activities, clinical trial results, and product approvals; the timing and results of our ongoing preclinical studies; the anticipated benefits of our gene therapy platform including the potential impact on our commercialization activities, timing and likelihood of success; the anticipated benefits and safety profile of busulfan as a conditioning agent; the expected benefits and results of our

manufacturing technology, including the implementation of our plato® platform in our clinical trials and gene therapy programs; the expected safety profile of our investigational gene therapies; the potential impact of the COVID-19 outbreak on our clinical trial programs and business generally; and the market opportunity for and anticipated commercial activities relating to our investigational gene therapies. Any such statements in this presentation that are not statements of historical fact may be deemed to be forward-looking statements.

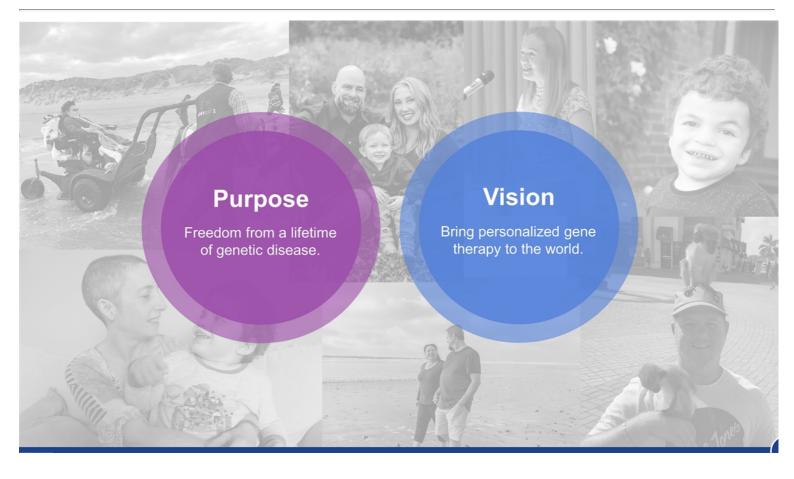
Any forward-looking statements in this presentation are based on our current expectations, estimates and projections about our industry as well as management's current beliefs and expectations of future events only as of today and are subject to a number of risks and uncertainties that could cause actual results to differ materially and adversely from those set forth in or implied by such forward-looking statements. These risks and uncertainties include but are not limited to, the risk that any one or more of our product candidates will not be successfully developed or commercialized; the risk that regulatory agencies may disagree with our anticipated development approach for our product candidates such as AVR-RD-01, including that we may not be able to utilize our planned registration trial of AVR-RD-01 for full approval but instead be required to conduct additional testing, that we may be required to conduct our planned testing in a more time-consuming, expensive, challenging or otherwise different manner than we envision or have conducted for our existing trials, particularly in light of the FDA's preference for clinical trials to be double-blinded and potentially include sham controls, and the risk that we may not be able to utilize our envisioned surrogate endpoint to support full approval of AVR-RD-01 but instead be required to measure a different endpoint such as a clinical outcome; the risk of cessation or delay of any ongoing or planned clinical trials of AVROBIO or our collaborators; the risk that we may not successfully recruit or enroll a sufficient number of patients for our clinical trials; the risk that we may not realize the intended benefits of our gene therapy platform, including the features of our plato® platform; the risk that our product candidates or procedures in connection with the administration thereof, including our use of busulfan as a

conditioning agent, will not have the safety or efficacy profile to we anticipate: the risk that prior results, such as signals of safety activity or durability of effect, observed from preclinical or clinical trials, will not be replicated or will not continue in ongoing or future studies or trials involving our product candidates; the risk that we will be unable to obtain and maintain regulatory approval for our product candidates; the risk that the size and growth potential of the market for our product candidates will not materialize as expected; risks associated with our dependence on third-party suppliers and manufacturers; risks regarding the accuracy of our estimates of expenses and future revenue; risks relating to our capital requirements and needs for additional financing; risks relating to clinical trial and business interruptions resulting from the COVID-19 outbreak or similar public health crises, including that such interruptions may materially delay our development timeline and/or increase our development costs or that data collection efforts may be impaired or otherwise impacted by such crises; and risks relating to our ability to obtain and maintain intellectual property protection for our product candidates. For a discussion o these and other risks and uncertainties, and other important factors, any of which could cause AVROBIO's actual results to differ from those contained in the forward-looking statements, see the section entitled "Risk Factors" in AVROBIO's most recent Annual or Quarterly Report, as well as discussions of potential risks, uncertainties and other important factors in AVROBIO's subsequent filings with the Securities and Exchange Commission. AVROBIO explicitly disclaims any obligation to update any forward-looking statements except to the extent required by law.

Note regarding trademarks: plato® is a registered trademark of AVROBIO. Other trademarks referenced in this presentation are the property of their respective owners.

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Leading lysosomal disorder gene therapy pipeline 15 patients dosed to date across three indications



	Proof-of-Concept	IND-Enabling	Phase 1/2
Fabry AVR-RD-01			
Gaucher type 1 AVR-RD-02			
Cystinosis AVR-RD-04			
Hunter AVR-RD-05			
Gaucher type 3 AVR-RD-06			
Pompe AVR-RD-03			



IND: Investigational New Drug

Multi-billion dollar market opportunity Over 50,000 patients across target indications



Disease	Approx. 2020 Global Net Sales [†]	Five-Year SOC Cost per U.S. Patient*	Selected Companies w/ Marketed Therapies
Fabry	\$1.4B	\$1.7M	SANOFI GENZYME Shire
Cystinosis	\$0.2B	\$4.3M	#Hosison [‡]
Gaucher	\$1.5B	\$2.3M	SANOFI GENZYME Shire
Hunter	\$0.6B	\$2.4M	Takeda (Shire
Pompe	\$1.1B	\$3.2M	SANOFI GENZYME 🇳

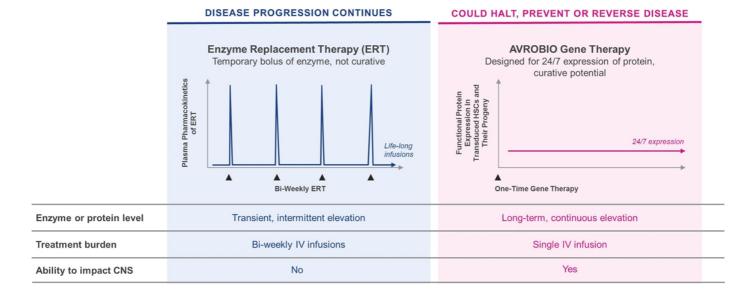
Total: \$4.8B



Sources: Rombach S et al., Orphanet J Rare Dis, 2013; van Dussen L et al., Orphanet J Rare Dis, 2014 *WAC pricing from Redbook using standard dosing assumptions † 2020 Net Sales from company annual and other reports † Horizon's Procysbi oral therapy (delayed release cysteamine bitartrate); midpoint between avg. adult and pediatric Note: Shire acquired by Takeda in 2019 SOC: Standard of Care

Lifelong treatments vs. potential single-dose therapy



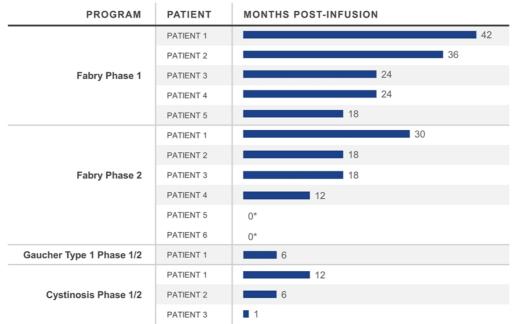




Durability demonstrated across clinical programs



First patient out 3.5 years; 10 patients out 1 year or more

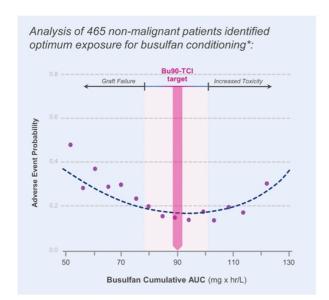




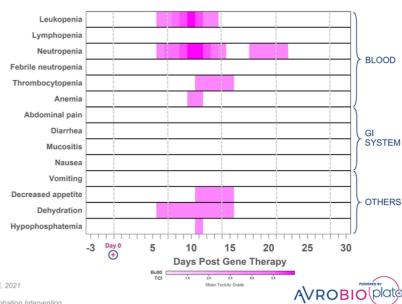
Data not yet available for natient #5 and #6 in Fahry Phase

Bu90-TCI conditioning-related side effects have been predictable and transient in first two plato® patients





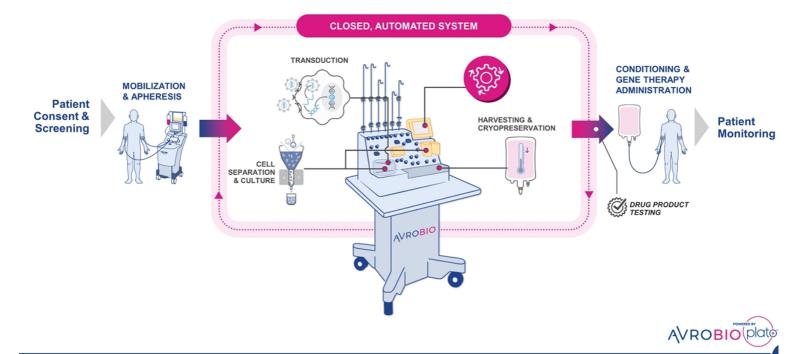
Conditioning-related grade 3-4 AEs in first two plato® patients

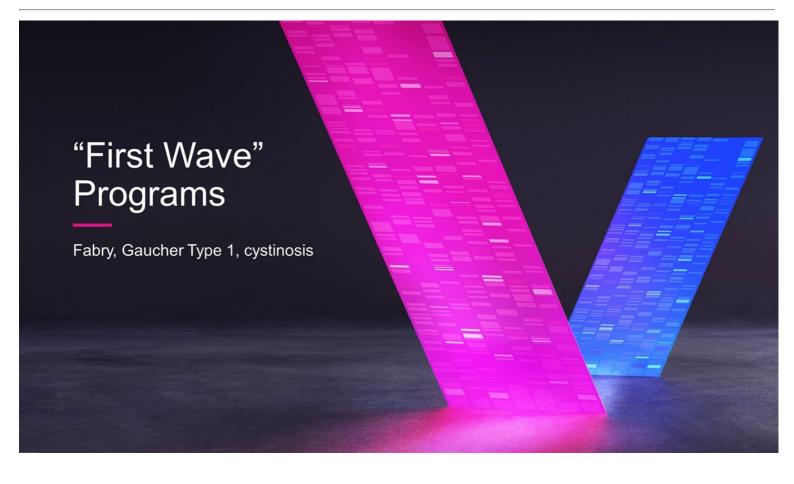


* Source: Bartelink IH et al., Lancet Haematol, 2016
Bu90-TCI: Busulfan 90-Target Concentration Intervention; AUC: Area Under the Curve; TCI: Target Concentration Intervention

Unrivaled commercial-scale platform in plato®







Fabry disease opportunity



Caused by mutation in gene encoding for alpha-galactosidase A enzyme

Standard of care (SOC): ERT

- · Not curative, relentless progression of disease continues
- Burdensome and expensive bi-weekly ERT infusions required; 5-year treatment cost of ERT = ~\$1.7 million*

Unmet needs with SOC:



Kidney function

Proteinuria, polyuria, kidney failure



Cardiac function

Left ventricular hypertrophy, fibrosis, heart failure



Neuropathic pain

Pain and burning sensations in hands and feet, pain crises

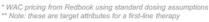


Everyday burden of illness, and life expectancy Not curative, relentless progression of disease, shortened



matter lesions

CNS complications TIA/stroke, depression, executive function deficit, white





- · Prevents, halts or reverses disease; extends/normalizes lifespan
- Addresses all patient segments all genetic mutations, male and female, all ages
- Lifelong durability single infusion; off ERT
- Impacts hard-to-reach organs e.g., brain, heart, kidney
- Well tolerated

Affects ~ 1:40,000 males and 1:118,000 females in U.S.



Two AVR-RD-01 Fabry clinical trials 11 patients dosed across Phase 1 and 2





FULLY ENROLLED



OBJECTIVES

- Safety and tolerability
- Preliminary efficacy

PATIENTS

- n = 5 patients
- 18 59 year-old males
- On ERT >6 months prior to enrollment



OBJECTIVES

- Safety and tolerability
- Efficacy

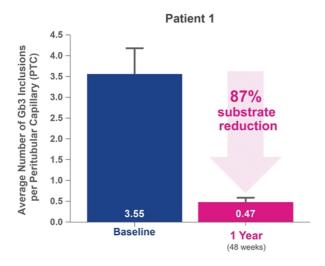
PATIENTS

- n = 8-12 patients*** (6 dosed to-date)
- 16 50 year-old males***
- Treatment naïve

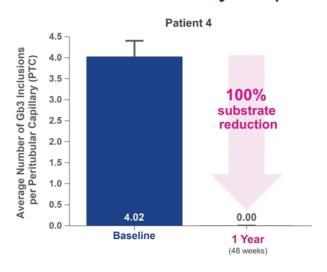


^{*} Sponsored by FACTs team (Fabry Disease Clinical Research and Therapeutics) in Canada
** FAB-GT fka FAB-201
*** Plan to increase to up to 14 patients with protocol amendment, including females

Clinically meaningful and statistically significant reduction in substrate in first two evaluable kidney biopsies





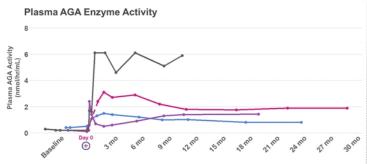


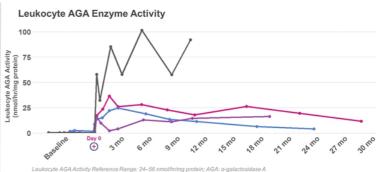
Two-sample t-test for difference between average PTCs at Baseline vs. 48 weeks; p < 0.0001; Error bar represents the standard error at Baseline (n=103 PTCs) and 48 weeks (n=99 PTCs). Scored by 2 independent, blinded pathologists

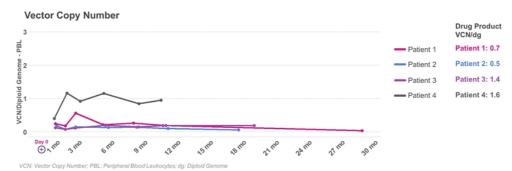
Baseline: The last available, non-missing observation prior to AVR-RD-01 infusion
Note: With respect to Fabry disease, Gb3 inclusions per PTC is interchangeable with GL-3 inclusions per KIC
PTC: Peritubular Capillary; Gb3: Globotriaosylceramide; GL-3: Globotriaosylceramide; KIC: Kidney Interstitial Capillary



Durability demonstrated over multiple measures up to 2.5 years Patient 4 dosed using plato®



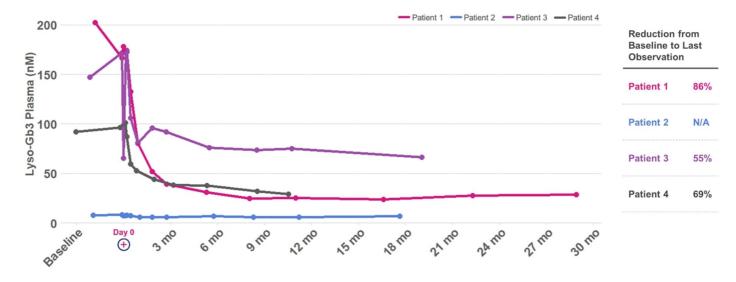






70% average plasma lyso-Gb3 reduction





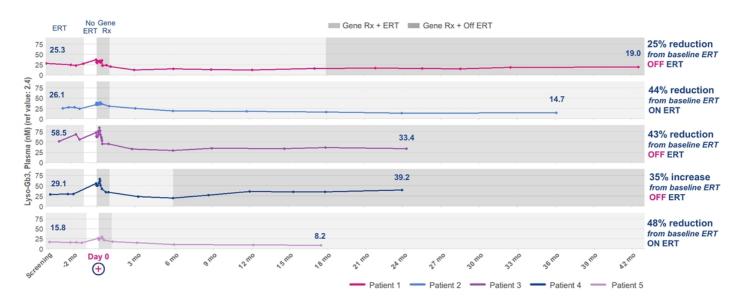
Lyso-Gb3 Plasma Reference Value: 2.4 nM; Lyso-Gb3: Globotriaosylsphingosine Note: Patient 2 has normal substrate, consistent with late-onset cardiac variant phenotype



(+)

25% average plasma lyso-Gb3 reduction below baseline ERT

All patients who have discontinued ERT remain off ERT*

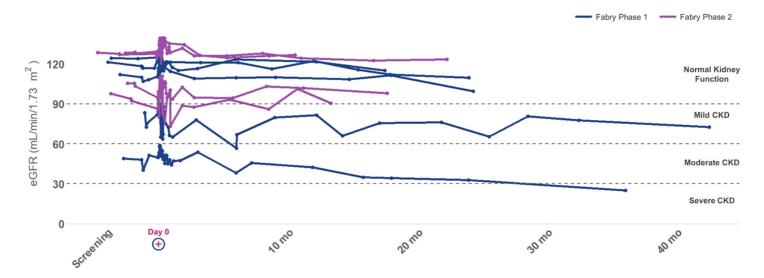






Kidney function (eGFR) stable up to 3.5 years*

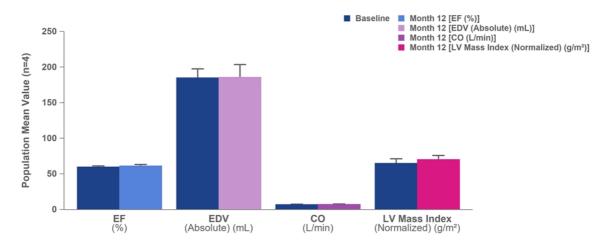




^{*} Eight of nine patients stable; other patient entered trial with more advanced kidney disease and a baseline eGFR level <50 mL/min/1.73m2, as expected, this patient has not stabilized, and the patient remains on ERT
Note: eGFR was calculated using the CKD-EPI formula
eGFR: Estimated Glomerular Filtration Rate; CKD: Chronic Kidney Disease; CKD-EPI: Chronic Kidney Disease Epidemiology Collaboration



Cardiac function and mass stable across multiple measures up to 1 year



Abbreviations: EF=Ejection Fraction; EDV=End Diastolic Volume; LV=Left Ventricular.

Error bar represents the standard error of the population mean (n=4).

*Reference Range Mean Values Male 20-39 yrs; EF: 64.3 ± 4.2%; EDV: 178.6 ± 30.1 mL; CO: 4-8 L/min; LV Mass Index: 67.8 ± 10.7 g/m²

**Reference Range Mean Values Male 40-49 yrs; EF: 58-75 %; EDV: 117-200 mL; CO: 4-8 L/min; LV Mass Index: 58-91 g/m²



No unexpected safety events identified

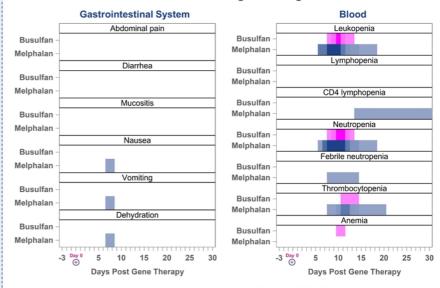


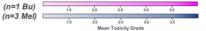
Conditioning-related side effects have been manageable and transient

Phase 1 & 2 AEs and SAEs

- No AEs or SAEs related to AVR-RD-01 drug product
- AEs across trials generally consistent with myeloablative conditioning, underlying disease or pre-existing conditions
- Phase 1 AEs (n=94)
 - Grade 3 or 4 (n=14)
- Phase 1 SAEs (n=2) resolved without clinical sequelae
 - Post-AVR-RD-01 treatment: febrile neutropenia; thrombophlebitis
- Phase 2 AEs (n=111)
 - Grade 3 or 4 (n=22)
- Phase 2 SAEs (n=6) resolved without clinical sequelae
 - Post-AVR-RD-01 treatment: dehydration; nausea; vomiting; febrile neutropenia

Phase 2 conditioning-related grade 3/4 AEs





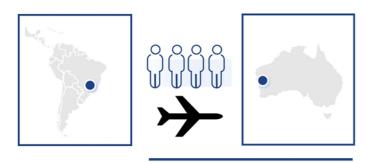


Note: Phase 2 safety data cut-off December 7, 2020; Phase 1 safety data cut-off November 26, 2020 AE: Adverse Event; Bu: Busulfan; Mel: Melphalan

Accelerating enrollment by adding international referrals



TWO Fabry patients from Brazil have been dosed and TWO additional patients enrolled in Australia



Long-term follow-up expected to take place in Brazil

Global patient recruitment

- Expands pool of potential patients
- Helps navigate COVID-19 issues
- First global center of excellence established in Australia



Regulatory update on AVR-RD-01



- Just prior to our End-of-Phase 1 meeting with the FDA,
 Fabrazyme® was converted from accelerated to full approval based upon a kidney biopsy surrogate endpoint
- We believe this development opens a new pathway for the potential full, traditional approval of AVR-RD-01
- We plan to design a single head-to-head registration trial versus Fabrazyme with a scope, size and duration comparable to other gene therapy trials, using a kidney biopsy surrogate endpoint similar to our FAB-GT Phase 2 trial
- Our briefing book submitted to FDA (prior to Fabrazyme full approval) proposed an expanded Phase 2 clinical trial and an additional confirmatory trial
 - Revised regulatory plan similarly anticipates a two study approach with a similar overall requirement in terms of scope, size and duration

PLANNED NEXT STEPS:

- Request clinically-oriented Type C meeting with FDA to discuss and seek agreement on revised approach
- Request CMC-oriented Type C meeting with FDA in second half of 2021
- Amend FAB-GT Phase 2 protocol to collect data on additional parameters that are recognized to be limitations of ERT and cap enrollment at up to 14 patients
- Initiate registration trial in mid-2022

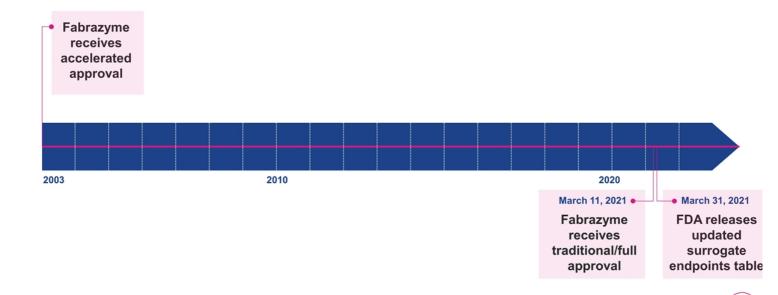


FDA: Food and Drug Administration

FDA conversion of Fabrazyme to traditional approval impacts approval pathways for future Fabry treatments



AVROBIO (plate



FDA: Food and Drug Administration

Updated FDA table of surrogate endpoints (as of 3/31/21)



Table of Surrogate Endpoints That Were the Basis of Drug Approval or Licensure | FDA

Disease or Use	Patient Population	Surrogate endpoint	Type of approval appropriate for	Drug mechanism of action
Diphtheria vaccine (in combination vaccines)	Persons to be immunized against diphtheria	Anti-diphtheria toxoid antibody	Traditional	Induction of immunity
Duchenne muscular dystrophy (DMD)	Patients with DMD who have a confirmed mutation of the DMD gene that is amenable to exon 51 skipping	Skeletal muscle dystrophin	Accelerated	Antisense oligonucleotide
Exocrine pancreatic insufficiency	Patients with exocrine pancreatic insufficiency due to cystic fibrosis, chronic pancreatitis, pancreatectomy, or other conditions	Fecal coefficient of fat absorption	Traditional	Combination of porcine-derived lipases, proteases, and amylases
Fabry disease	Patients with confirmed Fabry disease	Complete/near complete clearance of GL-3 inclusions in biopsied renal peritubular capillaries (using the Fabrazyme Scoring System)	Traditional	Enzyme replacement therapy
Fabry disease	Patients with confirmed Fabry disease and amenable GLA gene variants	Reduction of GL-3 inclusions in biopsied renal peritubular capillaries (using the BLISS methodology)	Accelerated	Pharmacological chaperone
Female hypogonadotropic hypogonadism	Infertile women with hypogonadotropic hypogonadism	Follicle size, serum estradiol and progesterone#	Traditional	Gonadotropin
First aid antiseptic; Health care antiseptic; Consumer antiseptic	General public, consumers, and health care professionals	Bacterial count	Traditional and Monograph	Antimicrobial
Gout	Patients with gout	Serum uric acid	Traditional	Xanthine oxidase inhibitor; URAT1 inhibitor; Uricase
Hepatitis A (Hep A) vaccine	Persons to be immunized against Hep A	Anti-Hep A antigen antibody	Traditional	Induction of immunity
Hepatitis B (Hep B) vaccine	Persons to be immunized against Hep B	Anti-Hep B antigen antibody	Traditional	Induction of immunity
Hepatitis B Virus (HBV)	Patients with HBV infection with or without cirrhosis	Undetectable plasma HBV-DNA for indefinite treatment or HBsAg loss for finite treatment	Traditional	Antiviral
Hepatitis C Virus (HCV)	Patients with HCV infection with or without cirrhosis	Sustained viral response (HCV-RNA)	Traditional	Antiviral
Hepatitis D Virus (HDV)	Patients with HDV infection with or without cirrhosis	≥ 2 log reduction in HDV-RNA plus normalization of ALT or HDV below the LLOQ*	Accelerated	Antiviral
Hepatorenal syndrome	Patients with hepatorenal syndrome type 1	Serum creatinine*	Traditional	Mechanism agnostic*
Homozygous sitosterolemia (phytosterolemia)	Patients with homozygous sitosterolemia (phytosterolemia)	Plasma sitosterol and campesterol	Traditional	Dietary cholesterol absorption inhibitor

FDA: Food and Drug Administration

Note: FDA guidance provides that the acceptability of a surrogate endpoint in a particular clinical development program should not be assumed to be appropriate for use in a different program



Cystinosis opportunity



Caused by CTNS gene defect, resulting in cystine buildup in lysosomes

Standard of care (SOC): Cysteamine pills & eye drops

- · Not curative, relentless progression of disease continues; significantly shortened lifespan; kidney transplant often required
- Burdensome and expensive high pill burden and hourly eye drops; 5-year treatment cost with SOC ~\$4.3 million*

Unmet needs with SOC:



Kidney function

Renal Fanconi syndrome, proteinuria, CKD, kidney failure



Corneal cystine accumulation, photophobia, involuntary eyelid closure



Endocrine disorders

Softening & deformation of bones, hypothyroidism, diabetes, infertility



CNS complications

Myopathy, hypotonia, tremors, swallowing, neurodevelopmental issues



Everyday burden of illness, reduced life expectancy High pill burden causes GI discomfort; sulfur body odor and breath

Cystinosis Target Product Profile**:

- · Prevents, halts or reverses disease; extends/normalizes lifespan
- Addresses all patient segments male & female; kidney transplant independent; all
- · Lifelong durability single infusion; off cysteamine pills and eye drops
- Impacts hard-to-reach organs e.g., eye, endocrine organs, brain
- Well tolerated

Affects ~ 1:170,000 people



* WAC pricing from Redbook using standard dosing assumptions ** Note: these are target attributes for a first-line therapy

Steady enrollment in AVR-RD-04 IST trial in cystinosis





ACTIVELY RECRUITING:



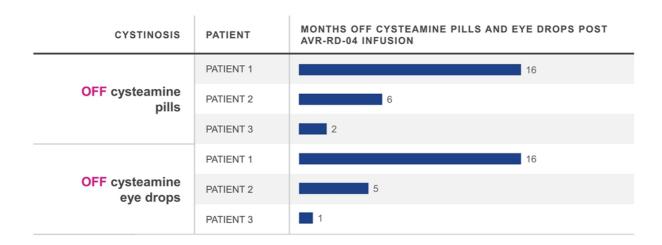
OBJECTIVES	PATIENTS
 Safety and tolerability Hypothesis generation of endpoints 	 Up to 6 patients (3 patients enrolled to-date) Adults and adolescents Cohorts 1-2 >18 years; Cohort 3 >14 years Male and female Oral and ophthalmic cysteamine

AVR-RD-04 trial sponsored by University of California, San Diego; IST does not use plato® platform Note: AVR-RD-04 aka CTNS-RD-04 IST: Investigator Sponsored Trial





All patients continue to be cysteamine-independent



Note: All 3 subjects remain off cysteamine pills and eye drops.

Subjects 2 and 3 stopped cysteamine eye drops 1-month post-transplant (per protocol).

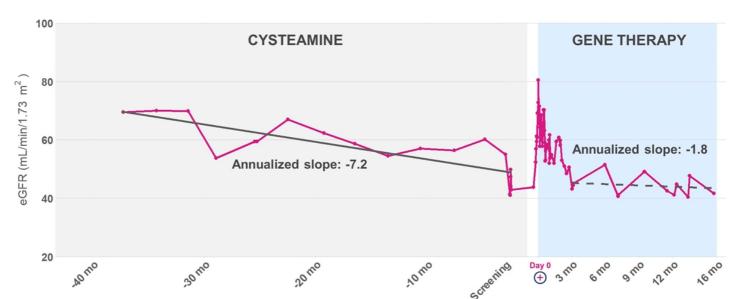
Subject 1 stopped cysteamine eye drops prior to baseline.

Data as of January 20, 2021



CYSTINOSIS PHASE 1/2: PATIENT 1

eGFR data at 16 months suggest renal function stabilization to post-gene therapy after years of pathological decline



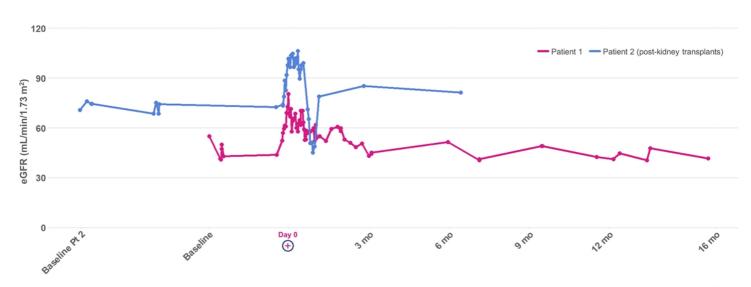
Note: These results are for a single patient only and may vary in the study population; eGFR calculated using CKD-EPI formula; eGFR: Estimated Glomerular Filtration Rate; CKD-EPI: Chronic Kidney Disease Epidemiology Collaboration



CYSTINOSIS PHASE 1/2: PATIENTS 1 & 2

Trial designed to demonstrate broad applicability across cystinosis patient population Positive eGFR trends independent of kidney transplant status



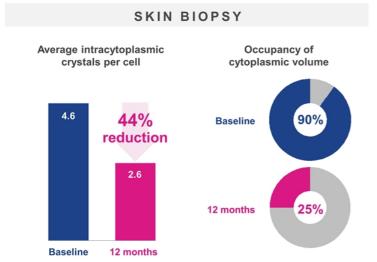


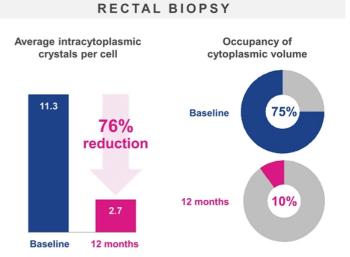
Patient 2 is post two kidney transplants
eGFR: Estimated Glomerular Filtration Rate; CKD-EPI: Chronic Kidney Disease Epidemiology Collaboration





Sharp drop in the number and size of cystine crystals in skin and rectal biopsies







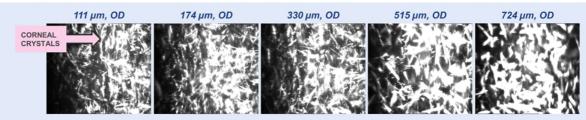
Note: These results are for a single patient only and may vary in the study population

Substantial decline in corneal crystals observed at 1 year

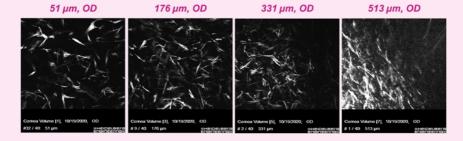




Baseline IVCM images from Nidek Confoscan



12 months post-gene therapy IVCM images from Heidelberg HRT3 w/ Rostock Corneal Module



AVROBIO (plate)

Note: These results are for a single patient only and may vary in the study population; IVCM: In Vivo Confocal Microscopy; OD: Oculus Dexter (right eye); HRT3: Heidelberg Retina Tomograph 3

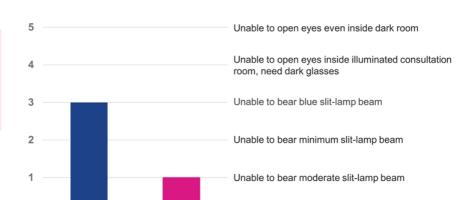
Photophobia improved meaningfully at 1 year Photophobia, or extreme sensitivity to light, is a hallmark of cystinosis

0



Cystinosis photophobia intensity associated with:

- Crystal density (light scattering)
- Inflammatory cell infiltration
- Corneal nerve damage



No photophobia under maximum slit-lamp beam

Clinician-Assessed Photophobia Grade (Patient 1)

AVROBIO Liang, H. IONS May 2015

12 months

\bigoplus

Darker pigmentation may be a sign of multi-functional cystinosin activity post-gene therapy

Cystinosin is located in melanosomes and regulates melanin synthesis

Patient 1 appears to exhibit progressively darkening skin, eyebrows and hair color post-infusion, suggesting a possible impact of cystinosin protein on melanin



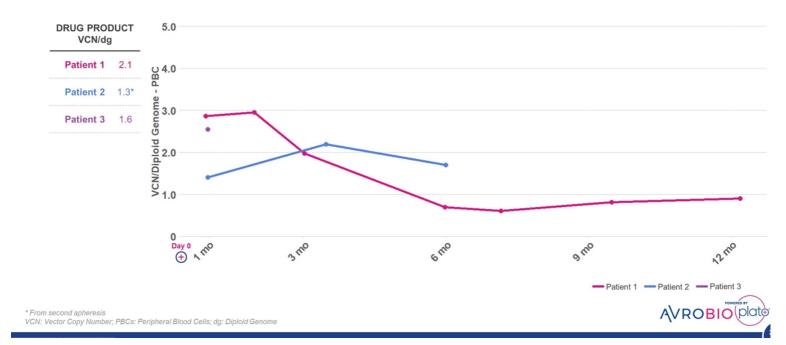




Note: These results are for a single patient only and may vary in the study population; Background removed for clarity Source: Chiaverini et al., FESEB, 2012

VCN trending as expected across patients Patient 1 reached VCN therapeutic plateau





No unexpected safety events



Conditioning-related side effects have been manageable and transient

No SAEs or AEs related to AVR-RD-04 drug product

AEs & SAEs reported

- AEs (n=48)
 - Majority of AEs are mild or moderate and resolved
- SAE (n=1)
 - Post AVR-RD-04 treatment: appendicitis unrelated to study treatment or procedures
- AEs are generally consistent with myeloablative conditioning or underlying disease:

Pre-AVR-RD-04 treatment and prior to conditioning (not all events listed)

- Diarrhea, hypokalemia, dizziness
- Dehydration, vomiting

Post-AVR-RD-04 treatment (not all events listed)

- Alopecia, intermittent diarrhea, vomiting, loss of appetite
- Mucositis, intermittent febrile neutropenia, intermittent epistaxis
- Intermittent blurry vision, intermittent hypokalemia, mucoceles
- Thrombocytopenia

AVROBIO (plate)

Note: Safety database cut as of January 27, 2021 AE: Adverse Event; SAE: Serious Adverse Event

Planned global regulatory strategy for cystinosis

Planned

POTENTIAL REGISTRATION

- · Adults and pediatrics, males and females
- · Mutation-independent, kidney transplant-independent
- · Efficacy, durability, safety
- · Ophthalmology, kidney, and other undisclosed
- · Multiple crystal measures
- · Quality of life

50% Enrolled

PHASE 1/2 - INVESTIGATOR SPONSORED TRIAL

- n <6
- · Adults and adolescents, males and females
- Mutation-independent, kidney transplant-independent
- · Safety, durability, preliminary efficacy
- · Biomarker data, kidney function, vision
- · Quality of life

Anticipated Next Steps:

- Engage with FDA on registration trial design
- · Identify global sites for registration trial
- Prepare plato® CMC / analytics requirements

FDA: Food and Drug Administration; CMC: Chemistry, Manufacturing, and Controls

Gaucher disease type 1 opportunity



Caused by mutation in the gene encoding for glucocerebrosidase (GCase) enzyme Standard of care (SOC): ERT

- Not curative, relentless progression of disease continues, including bone crisis and fatigue
- Burdensome and expensive bi-weekly infusions required; 5-year treatment cost with ERT = ~\$2.3 million*

Unmet needs with SOC:



Bone-related manifestations

Skeletal abnormalities, avascular necrosis, osteoporosis



Hemoglobin levels and platelet counts

Anemia, thrombocytopenia, easy bruising, bleeding



Hepatosplenomegaly

Enlarged liver, enlarged spleen



Everyday burden of illness, and life expectancy

Fatigue, pain, lung disease, biweekly infusions, shortened lifespan



CNS complications

Increased risk of GBA-Parkinson's disease

* WAC pricing from Redbook using standard dosing assumptions
** Note: these are target attributes for a first-line therapy

Gaucher Disease Type 1 Target Product Profile**:

- Prevents, halts or reverses disease; extends/normalizes lifespan
- Addresses all patient segments all GD1 genetic mutations, all ages, male & female
- Lifelong durability single infusion; off ERT/chaperone therapy
- Impacts hard-to-reach organs e.g., brain, bone and bone marrow
- · Well tolerated

Affects ~ 1:44,000 people worldwide

Guard1: Phase 1/2 study in Gaucher disease type 1





PHASE 1/2 AVR-RD-02

An adaptive, open-label, multinational phase 1/2 study of the safety and efficacy of ex vivo, lentiviral vector-mediated gene therapy AVR-RD-02 for patients with Gaucher disease type 1

ACTIVELY RECRUITING:





RECRUITING PLANNED 2021:





OBJECTIVES

PATIENTS

- Safety
- Efficacy
- Engraftment
- · Enrollment goal 8-16 patients
- 18-45-year-old males and females
- Have a confirmed diagnosis of GD1 based on:
 - Deficient glucocerebrosidase enzyme activity
 - Clinical features consistent with GD1

Gaucher disease type 1 patients who are:

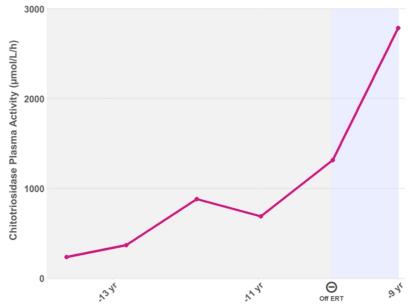
- ERT-stable for >24 months or
- Treatment-naïve or
- Have not received ERT or SRT in the last 12 months



GD1: Gaucher Disease Type 1; ERT: Enzyme Replacement Therapy; SRT: Substrate Reduction Therapy

First patient's plasma chitotriosidase levels spike off ERT Personal history documents response to intermittent and halted ERT use

Chitotriosidase is a marker of inappropriately activated macrophages (Gaucher cells)



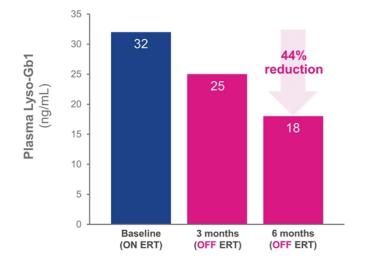
Chitotriosidase Plasma Activity Normal Range: 0.0–44.2 μ moL/L/h ERT: Enzyme Replacement Therapy



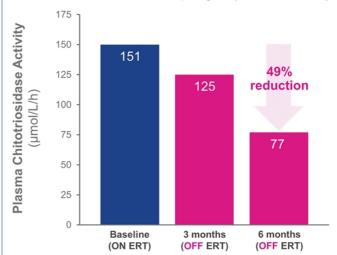
Key biomarkers below ERT baseline at 6 months



Lyso-Gb1 is a sensitive and specific marker of toxic metabolite accumulation in Gaucher disease



Chitotriosidase is a marker of inappropriately activated macrophages (Gaucher cells)

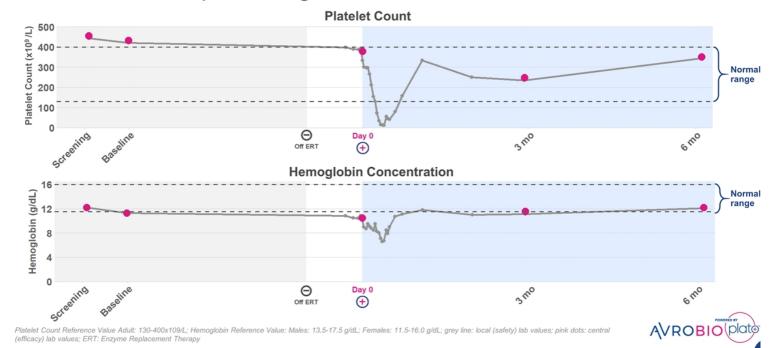




Baseline taken one month prior to gene therapy which is when ERT is discontinued Lyso-Gbf Plasma Normal Range: 0.5 – 1.2 ng/mL Plasma chitotriosidase activity normal range: 0.0 – 44.2 μmoL/L/h ERT: Enzyme Replacement Therapy

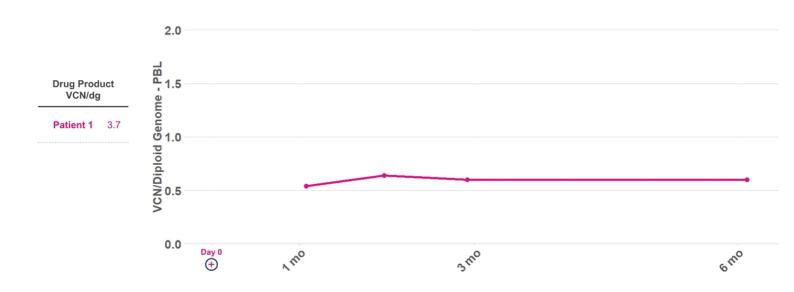
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Platelet counts and hemoglobin in normal range at 6 months, despite being off ERT



VCN trending as expected at 6 months







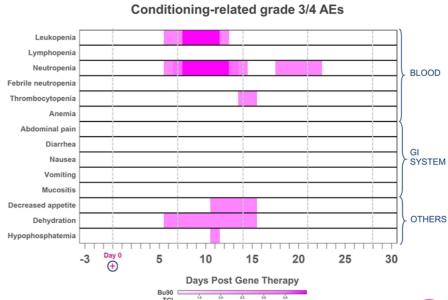
VCN, vector copy number; PBL, peripheral blood leukocytes; dg, diploid genome

No unexpected safety events identified in first patient

Conditioning-related side effects have been predictable and transient

AEs (no SAEs reported)

- No AEs or SAEs related to AVR-RD-02 drug product
- AEs generally consistent with myeloablative conditioning, underlying disease or pre-existing conditions
- AEs n=29
 - Grade 3 (n=7)
 - Eye pain, decreased appetite, dehydration, headache, hypophosphatemia, neutropenia, thrombocytopenia
 - Grade 4 (n=2)
 - · Leukopenia and neutropenia
- AEs resolved without clinical sequelae



Mean Toxicity Grade

Note: Safety database cut as of January 04, 2021
AE: Adverse Event; SAE: Serious Adverse Event; G-CSF: Granulocyte Colony Stimulating Factor
G-CSF 5 pg/kg @ Days 5, 6, 7, 10, 11, and 14 post-infusion of AVR-RD-02
Bu90-TCI: Busulfan 90-Target Concentration Intervention; GI: Gastrointestinal



Planned global development strategy for Gaucher disease type 1

Planned

POTENTIAL REGISTRATION PATH

- Phase 1/2 expansion
- · Safety, efficacy, durability
- Organ volumes, hematologic measures, bone assessments, pain, and QOL

Enrolling

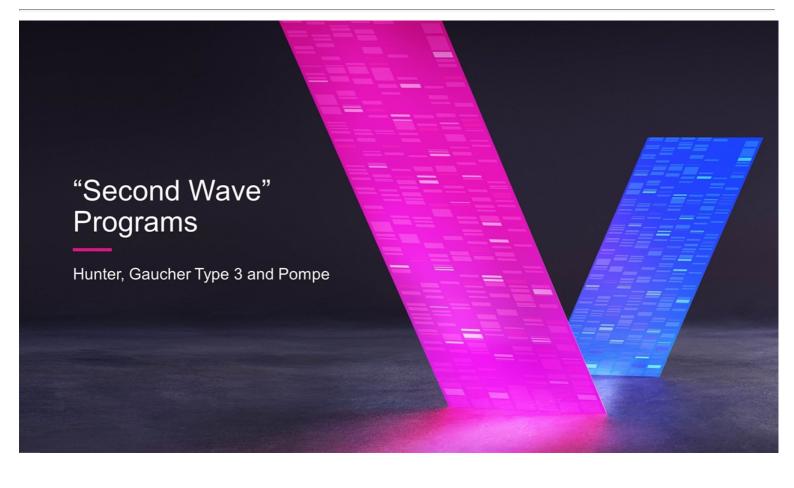
PHASE 1/2

- n=8-16
- · Adults, males and females, ages 18-45 years old
- ERT-switch and ERT-naïve
- · Safety, efficacy, durability
- Biomarker data, organ volumes, hematologic measures, bone assessments, pain, and QOL

Anticipated Next Steps:

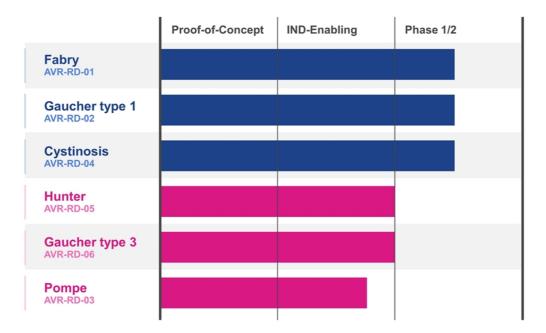
- · Advance patient enrollment
- Advance regulatory dialogue on registration pathway

QOL: Quality Of Life; ERT: Enzyme Replacement Therapy



Bold expansion of our leadership in lysosomal disorders

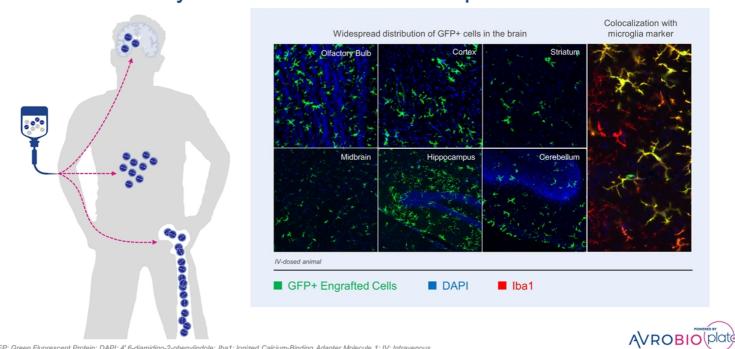






IND: Investigational New Drug

Lentiviral gene therapy enables global distribution of functional enzyme to brain and bone in preclinical studies



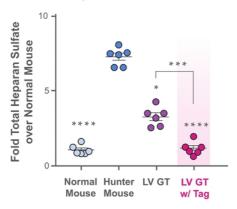




Proprietary tags deliver therapeutic protein into hard-to-reach organs

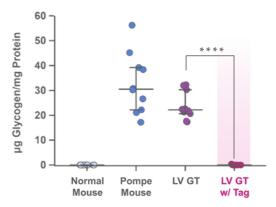
Hunter syndrome

Tag normalizes heparan sulfate in brain



Pompe disease

Tag normalizes glycogen substrate in brain







plato®

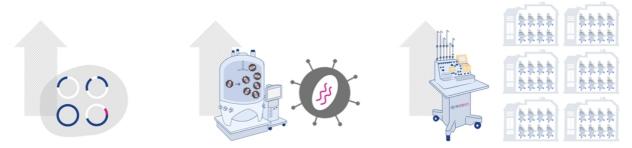
AVROBIO's platform for global gene therapy commercialization

- + Redefines manufacturing best practices
- + Solves key industry challenges

Designed to be fully scalable



Common components and automation leveraged across manufacturing



PLASMID

3 of 4 component plasmids used in every vector

Each plasmid can be mass produced and stored for use

VECTOR

State of the art, largest scale, 200L vector production

Expansion through simple installation of additional units, mass produced, frozen, and stored for use

DRUG PRODUCT

Closed system automated platform

Scale out of manufacturing suites and automation units to meet patient demand

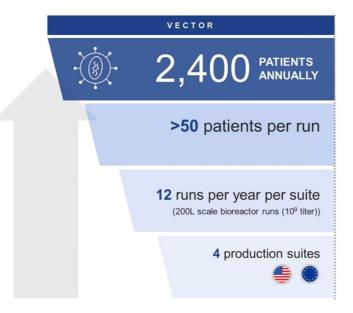


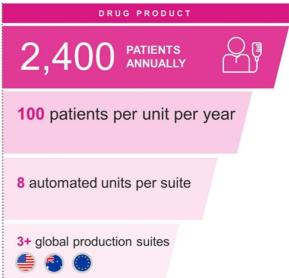
Note: This diagram is for illustrative purposes only

Poised to manufacture at scale



Global infrastructure already in place







Note: This diagram is for illustrative purposes only

CMC achievements have defined the plato® story



Strategic investment in technology laid the foundation for our manufacturing leadership

Manufacturing

Robust production platform

- · Best-in-class LV manufacturing
- Scalable from plasmid to drug product

Global footprint

· In the clinic in multiple jurisdictions

Cost effective

Intended to address key COGs issues

Analytics

Robust platform analytics

- Best-in-class VCN assay
- First-in-class transduction assay

Deep product characterization

· First-in-class single cell analytics

Potency assay matrix

· Intended to accelerate regulatory approvals



CMC: Chemistry, Manufacturing, and Controls; VCN: Vector Copy Number; LV: Lentiviral; COGs: Cost Of Goods

Key anticipated 2021 milestones



Goal: 30 patients dosed cumulatively by end of 2021 Fabry AVR-RD-01 Seek agreement with regulators on approval pathway in one or more major markets

Gaucher type 1 AVR-RD-02 Execute on global phase 1/2 trial

Cystinosis AVR-RD-04

Engage w/ FDA on pivotal trial design

Hunter AVR-RD-05

Conduct Phase 1/2 trial initiation activities

Gaucher type 3

AVR-RD-06

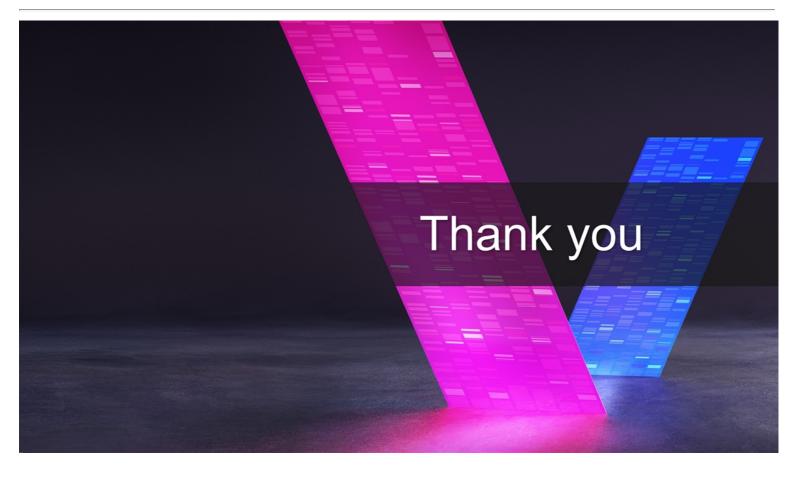
FDA dialogue on path to clinic

Pompe AVR-RD-03

Prepare for classic infantile-onset study



FDA: Food and Drug Administration







Fabry Phase 1 & 2 Patient Characteristics



	PHASE 1: ERT-Treated Fabry Patients						
	PATIENT 1	PATIENT 2	PATIENT 3	PATIENT 4	PATIENT 5		
Age of symptom onset / diagnosis	18 / 37 years	9 / 29 years	10 / 0 years	7 / 4 years	10 / 14 years		
Years on ERT	11 years	6 years	4 years	11 years	2 years		
Age dosed with AVR-RD-01	48 years	39 years	40 years	37 years	30 years		
Mutation	c.962A>G (p.Q321R)	c.1033T>C (p.S345P)	c.427G>C (p.A143P)	c.427G>C (p.A143P)	(p.Y134S)		
Leukocyte AGA activity at baseline (nmol/hr/mg protein)**	2.1	1.1	0.6	2.2	1.0		
Plasma lyso- Gb3 at baseline (nM)***	25	26	59	29	16		
eGFR (mL/min/1.73m²) at baseline****	83	49	112	124	121		
ERT discontinuation status	18 months after gene therapy dose		Did not resume ERT after gene therapy dose	6 months after gene therapy dose			

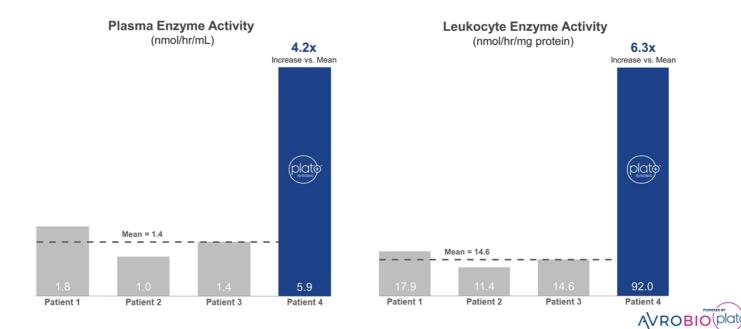
	PHASE 2: Treatment-naïve Fabry patients					
	PATIENT 1	PATIENT 2	PATIENT 3	PATIENT 4		
Age of symptom onset/diagnosis	10 / 19 years	36 / 37 years	13 / 13 years	9 / 9 years		
Age dosed with AVR-RD-01	21 years	46 years	40 years	26 years		
Mutation	c.1021G>A (p.E341K)	c.644A>G (p.N215S)	c.639+1G>T	c.833dupA		
Leukocyte AGA enzyme activity at baseline (nmol/hr/mg protein)	0.10*	2.38**	0.58**	0.46**		
Plasma lyso- Gb3 at baseline (nM)***	202	8	147	92		
eGFR (mL/min/1.73m²) at baseline****	128	106	98	129		
Comment	Few IgA deposits in kidney biopsy, no mesangial proliferation	Cardiac variant, not a classic Fabry male				

^{*} Mayo Lab, ref range ≥23.1 nmol/hr/mg protein; ** Rupar Lab, ref range 24-56 nmol/hr/mg protein; *** Reference value ≤ 2.4 nM; **** eGFR: Estimated Glomerular Filtration Rate; calculated using CKD-EPI formula
AGA: α-galactosidase A; Lyso-Gb3: Globotriaosylsphingosine;



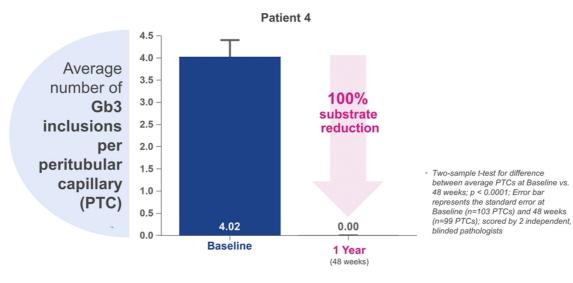


Patient #4 is first Fabry patient dosed with plato® FAB-GT 12 month data for patient #4 with plato® vs. patients #1-3



(+)

100% clearance of substrate in kidney biopsy at 1 year Patient dosed using plato®

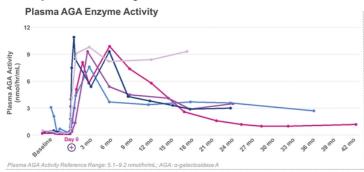


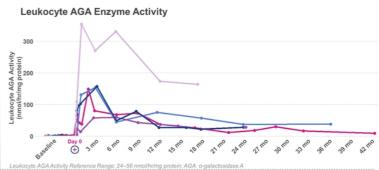
Baseline: The last available, non-missing observation prior to AVR-RD-01 infusion
Note: With respect to Fabry disease, Gb3 inclusions per PTC is interchangeable with GL-3 inclusions per KIC
PTC: Peritubular Capillary; Gb3: Globotriaosylceramide; GL-3: Globotriaosylceramide; KIC: Kidney Interstitial Capillary



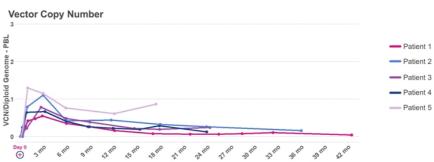
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Durability demonstrated over multiple measures up to 3.5 years





Drug Product VCN/dg Patient 1: 0.7 Patient 2: 1.4 Patient 3: 0.8 Patient 4: 1.4 Patient 5: 1.2



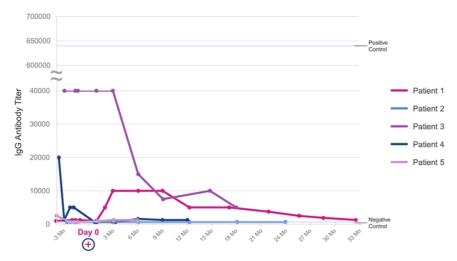




Reduction of pre-existing anti-ERT drug IgG antibodies

Suggests potential as a therapeutic option independent of pre-existing antibodies

Fabry Disease Phase 1 IgG Antibody Titer



Similar results observed in other studies

San Raffaele Telethon Institute for Gene Therapy (SR-TIGET)

Change in pre-existing antibodies reported for Hurler disease (MPS-1)

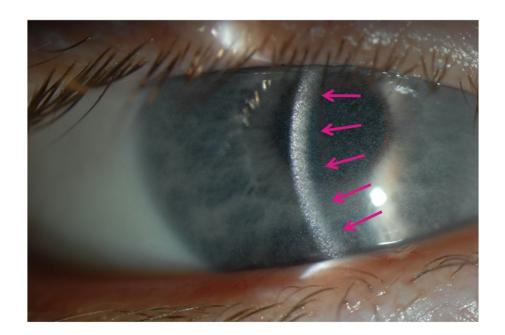
- · Ex vivo LV gene therapy with conditioning
- n=6
- Evaluable patients (5/6) demonstrated sustained, supraphysiologic blood IDUA activity
- 4/5 prior ERT (rhIDUA) exposure (5-28 months)
- 4/5 pre-existing ERT-induced IgG antibodies
- 6/6 anti-rhIDUA IgGs undetectable 2 months post-gene therapy



ERT: Enzyme Replacement Therapy; IgG: Immunoglobulin G; MPS-1: Mucopolysaccharidosis Type 1; IDUA: Iduronidase: SR-TIGET: San Raffaele Telethon Institute fo Gene Therapy; LV: Lentiviral; rhIDUA: Recombinant Human alpha-L-Iduronidase CYSTINOSIS PHASE 1/2: PATIENT 1

Crystal buildup in eye clearly visible before gene therapy Patient 1 at baseline







Impact of cysteamine independence



Daily cysteamine regimen (max per day)

Before ON cysteamine pills **ON** cysteamine eye drops AVR-RD-04 30 pills / day Prescribed 8 drops / day **After OFF** cysteamine eye drops **OFF** cysteamine pills AVR-RD-04 0 pills / day 0 drops / day (16 months post-gene therapy)

