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): November 8, 2022

OCUGEN, INC.

(Exact Name of Registrant as Specified in its Charter)

Delaware (State or Other Jurisdiction of Incorporation) 001-36751

(Commission File Number)

04-3522315

(I.R.S. Employer Identification Number)

11 Great Valley Parkway Malvern, Pennsylvania 19355 (484) 328-4701

(Address, including zip code, and telephone number, including area code, of principal executive office)

N/A (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 following provisions (see General Instruction A.2. below): ☐ Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425) $\hfill \Box$ 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 Act:

Title of each class	Trading Symbol(s) Name of each exchange on which reg	
Common Stock, \$0.01 par value per share	OCGN	The Nasdaq Stock Market LLC (The Nasdaq Capital Market)
Indicate by check mark whether the registrant is an emerging growth company as defined in R chapter).	tule 405 of the Securities Act of 1933 (§230.405 c	of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this
Emerging growth company \square		
If an emerging growth company, indicate by check mark if the registrant has elected not to use the Exchange Act. \Box	e the extended transition period for complying wit	h any new or revised financial accounting standards provided pursuant to Section 13(a) of

Item 8.01 Other Events.

Attached as Exhibit 99.1 hereto and incorporated herein by reference is a presentation that Ocugen, Inc. will post on its website on November 8, 2022 and may use from time to time in presentations or discussions with investors, analysts, and other parties.

Item 9.01 Financial Statements and Exhibits.

The following exhibits are being filed herewith:

(d) Exhibits

Exhibit No.	Document
99.1	Ocugen, Inc. Presentation
104	Cover Page Interactive Data File (embedded within the Inline XBRL document).

SIGNATURE

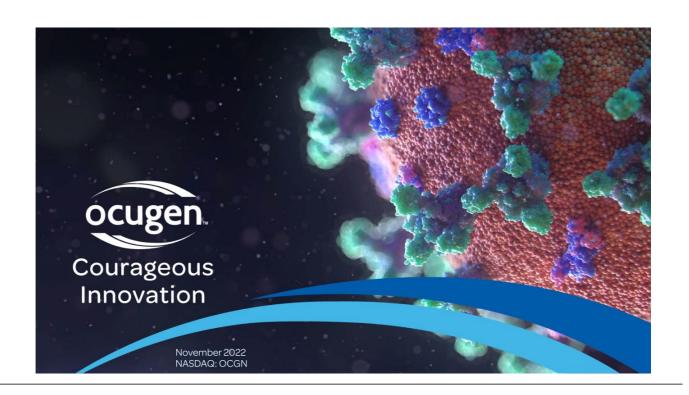
Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Date: November 8, 2022

OCUGEN, INC.

By:

/s/ Shankar Musunuri
Name: Shankar Musunuri
Title: Chief Executive Officer and Chairman



Forward Looking Statements

This presentation contains forward-looking statements within the meaning of The Private Securities Litigation Reform Act of 1995, which are based on the beliefs and assumptions of Ocugen, Inc. and on information currently available to management. All statements contained in this presentation other than statements of historical fact are forward-looking statements. We may, in some cases, use terms such as "predicts," "believes," "potential," "proposed," "continue," "estimates," "anticipates," "expects," "plans," "intends," "may," "could," "might," "will," "should," or other words that convey uncertainty of future events or outcomes to identify these forward-looking statements. Such statements are subject to numerous important factors, risks, and uncertainties that may cause actual events or results to differ materially from our current expectations. These and other risks and uncertainties are more fully described in our periodic filings with the Securities and Exchange Commission (SEC), including the risk factors described in the section entitled "Risk Factors" in the quarterly and annual reports that we file with the SEC. Forward-looking statements that we make in this presentation are based on a combination of facts and factors currently known to us and speak only as of the date of this presentation. Except as required by law, we assume no obligation to update forward-looking statements contained in this presentation whether as a result of new information, future events, or otherwise, after the date of this presentation.



We're Here to Make an Impact Through Courageous Innovation

Mission: Developing cutting-edge innovations for people facing serious disease and conditions with a commitment to ensuring global market access

Pioneering modifier gene therapy for inherited retinal diseases, as

for inherited retinal diseases, as well as larger blindness diseases with unmet need





Developing vaccines to provide choice in the fight against COVID-19

Innovating a novel biologic to treat eye diseases that can lead to vision loss for millions of people





Pursuing Regenerative Cell Therapy to treat serious conditions like articular cartilage lesions



Pipeline Overview

	Asset/Program			
Vaccines	COVAXIN™ (BBV152) SARS-CoV-2 virus	COVID-19	EUA for adults in Mexico; EUA for 5 to 18-year-olds submitted Recruitment completed for U.S. Phase 2/3 Immuno-bridging and broadening clinical trial	
	OCU500 Mucosal vaccine	COVID-19	License secured from Washington University Phase 1/2 pending FDA discussions	
Cell therapies (Regenerative Medicine) NeoCart® (Autologous chondrocyte-derived neocartilage)		Treatment of Articular Cartilage Defects in the Knee	U.S. Regenerative Medicine Advanced Therapy (RMAT) designation: Phase 3 clinical trial under development and subject to finalization w FDA	
	OCU400 ** AAV-hNR2E3	Gene mutation-associated retinal degeneration*		
		NR2E3 Mutation (RP)	Phase 1/2	
Gene therapies		RHO Mutation (RP)	Phase 1/2	
derie trierapies		CEP290 Mutation (LCA)	Phase 1/2	
	OCU410 AAV-hRORA	Dry Age-Related Macular Degeneration (Dry AMD)*	IND planned for Q2 2023	
	OCU410ST AAV-hRORA	Stargardt disease (orphan disease)	IND planned for Q2 2023	
Biologicals	OCU200 Transferrin – Tumstatin	Diabetic Macular Edema	IND planned for Q1 2023	
		Diabetic Retinopathy	IND-enabling	
		Wet Age-Related Macular Degeneration (Wet AMD)	IND-enabling	



no approved i lei ajnes existi. https://www.aao.org/eye-health/diseases/retinitis-pigmentosa-treatment | https://www.aao.org/eye-health/diseases/amd-treatmen

**ORPHAN DRUG DESIGNATION in the US; Broad ORPHAN MEDICINAL PRODUCT DESIGNATION by the EC for the treatment of retinitis pigmentosa (RP) and Leber congenital amaurosis (LCA)

COVAXINTM (BBV152)

A whole-virion inactivated COVID-19 vaccine candidate licensed from Bharat Biotech (BBIL) for North American Markets



Why COVAXIN™ (BBV152)?
Designed to augment our North American arsenal of vaccines against COVID-19

DESIGNED FOR BROAD SPECTRUM IMMUNE RESPONSE

- Adult and pediatric phase 2/3 data suggest both humoral & cellular responses generated against multiple viral proteins
- Data support that the vaccine induces a Th1 response (cell-mediated immunity) which can be vital for durable protection

RESULTS SHOW PREVENTION OF SEVERE COVID-19 DISEASE

- Phase 3 data suggest prevention of hospitalizations caused by COVID-19
- Booster dose provides robust neutralizing antibody responses against Omicron and Delta variants

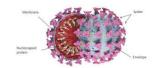


KNOWN SAFETY PROFILE USING VERO CELL PLATFORM

- Data demonstrate strong safety profile within adult and pediatric populations
- Similar technology platform used to produce Polio, Influenza and Rabies vaccines

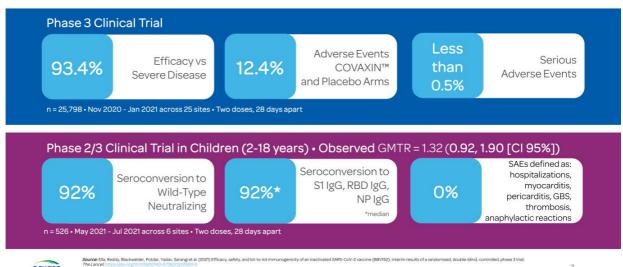
TRANSPORTATION AND STORAGE EASE

 10 dose vial that can be stored and shipped at 2°-8° C with an expected 2-year shelf life and 6-month stability at room temperature





COVAXIN™ (BBV152) Adult and Pediatric Clinical Trial Data



ocugen.

Pathway for COVAXIN™ (BBV152) development

NCT: 05258669



Study Type:
Estimated Enrollment:

Estimated Enrollment:

Intervention Model:
Intervention Model
Description:

Primary Purpose:

nterventional (Clinical Trial)

Randomized
Parallel assignment

Prevention

Immuno-bridging and broadening

Top line results

Safety

BLA Submission Window



OCU500 Ocugen's COVID-19 Mucosal Vaccine

Exclusive license agreement with Washington University to develop, manufacture and commercialize its proprietary vaccine in the United States, Europe, and Japan



OCU500: Mucosal Vaccine

- Potential to generate rapid local immunity in the nose, mouth, upper airways, and lungs - where SARS-CoV-2 enters and infects the body
- Generates neutralizing IgG, mucosal IgA, and T cell responses to help reduce transmission rate
- Mucosal immunity has been demonstrated as a potential way to prevent infection and spread, thus limiting the origin of new variants
- This approach represents a potential universal booster, regardless of previous COVID-19 vaccination

Other features include:

- Non-invasive
- Needle-free administration
- Potential for increased compliance
- Scalable manufacturing
- Stored and shipped at standard refrigerated conditions
- Potential to develop multi-strain and variant specific versions



MODIFIER GENE THERAPY PLATFORM

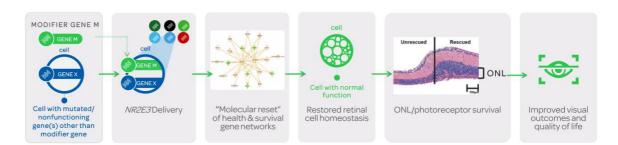
Breakthrough technology designed to address many rare diseases as well as complex diseases that affect millions



Modifier Gene Therapy: A Broader Reach

Gene modifier therapy can potentially address multiple genetic defects with a single product.

In patients with IRDs, this could mean:





Proof of Principle: Published in Nature Gene Therapy

- Efficacy results shown in five unique
 mouse models of PP
- Technology developed at Harvard Medical School, Dr. Neena Haider's Lah
- Study suggests potency of modifier gene therapy to elicit broadspectrum therapeutic benefits in early and advanced stages of RP
- Results suggest evidence of vision rescue in early & advanced stages of disease











Potential to represent first broad-spectrum gene agnostic therapy and provide rescue even after disease onset

natureresearch

Important milestone for

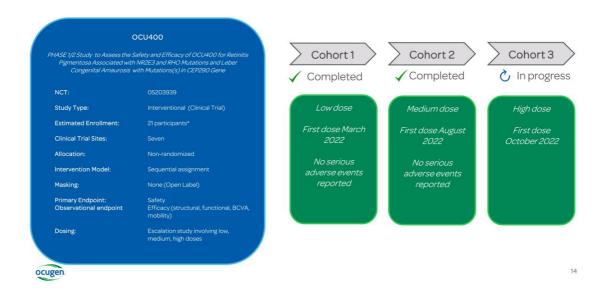
therapy; demonstrated proof of principle

development of

https://www.nature.com/articles/s41434-020-0134-z



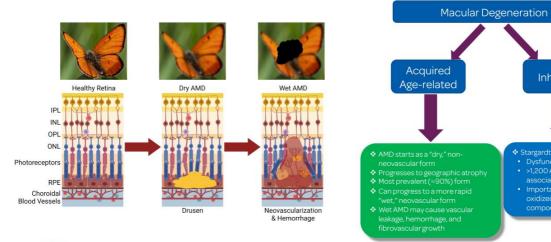
OCU400 Phase 1/2 U.S. Clinical Trial Progress



OCU400 Expected Pathway to Clinical Development & Potential Approval



Age-related Macular Degeneration(AMD) Stargardt Disease (STGD)

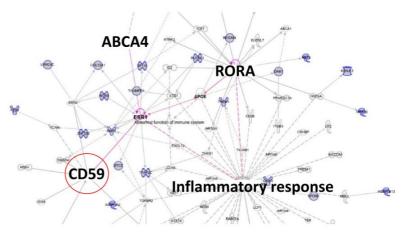


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*Stargardt disease affects approximately 35,000 Americans and approximately 800,000 people globally.

RORA Regulated Gene Networks are Relevant in AMD & Stargardt Disease

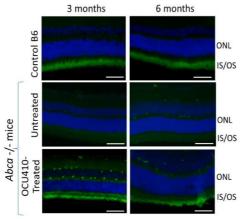
RORA regulated gene networks are relevant in AMD and Stargardt disease





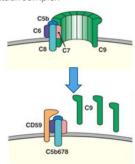
OCU410 Restores Cd59 Expression in Abca4-/- mice

- ABCA4 transports oxidized retinol compounds from photoreceptors to RPE cells for detoxification
- Gene variants of ABCA4 are associated with both Stargardt disease and AMD. ABCA4-/mice show very low CD59 expression in their retinas
- OCU410 CD59 expression in the RPE cells
- CD59 prevents the formation of the complement membrane attack complex (MAC)



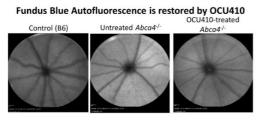
Immunohistochemistry of retina showing CD59 and DAPI

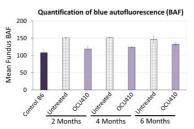
CD59 prevents the formation of the complement membrane attack complex

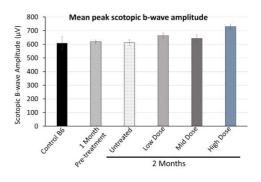




OCU410: Restoring Retinal Function in ABCA4 -/- Mice







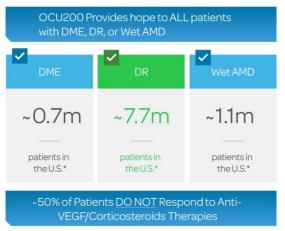


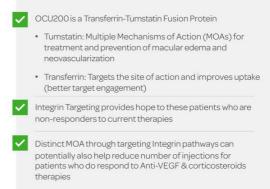
OCU200

Novel biologic for treating Diabetic Macular Edema (DME), Diabetic Retinopathy (DR) and Wet Age-Related Macular Degeneration (Wet AMD)



OCU200 Potential to Treat DME, DR & Wet AMD





We are executing IND-enabling studies and plan to submit an IND application in the first quarter of 2023



https://www.gene.com/stories/retinal-diseases-fact-sneet
 https://www.brightfocus.org/macular/article/age-related-macular-facts-figure



NeoCart® Regenerative Cell Therapy

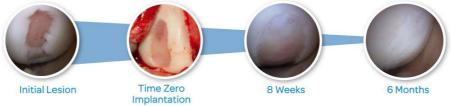
Knee injury increases risk of developing OA by more than 5x 1MM+ annual arthroscopic procedures of the knee*

Attributes:

- Merges a patient's own cells with a fortified 3-D scaffold designed to accelerate healing and reduce pain Patients receive functional cartilage at the time of treatment



Follow-up Arthroscopy Demonstrates NeoCart® Progression and Integration**



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*The Journal of Bone & Joint Surgery: <u>June 1, 2011-Volume 93-Issue 11-1</u>
**Phase 3 patient follow-up arthroscopies unrelated to NeoCart implant.

Ocugen[™]Vision

Fully integrated, patient-centric biotech company focused on vaccines in support of public health and gene and cell therapies targeting unmet medical needs through **Courageous Innovation**



