### **UNITED STATES** SECURITIES AND EXCHANGE COMMISSION

Washington, DC 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): August 17, 2020

### **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)

5 Great Valley Parkway, Suite 160 Malvern, Pennsylvania 19355 (484) 328-4701 (Addresses, including zip code, and telephone numbers, including area code, of principal executive offices)

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:

0 Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)

0 Soliciting material pursuant to Rule 14a–12 under the Exchange Act (17 CFR 240.14a–12)

0 Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

0 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 registered
Common Stock, \$0.01 par value per share	OCGN	The Nasdaq Stock 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).

Emerging growth company 0

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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. 0

#### Item 7.01 Regulation FD Disclosure

Attached as Exhibit 99.1 and furnished for purposes of Regulation FD is a presentation that Ocugen, Inc. ("Ocugen") will post on its website on August 17, 2020 and may use from time to time in presentations or discussions with investors, analysts and other parties.

The information in this Item 7.01 (including Exhibit 99.1) is being furnished solely to satisfy the requirements of Regulation FD and shall not be deemed to be "filed" for the purposes of Section 18 of the Securities Exchange Act of 1934 (the "Exchange Act") or otherwise subject to the liabilities of that Section, nor shall it be deemed to be incorporated by reference in any filing under the Securities Act of 1933 or the Exchange Act.

1

#### Item 9.01 Financial Statements and Exhibits

The following exhibit is being filed herewith:

#### (d) Exhibits

Exhibit No. 99.1

Ocugen, Inc. Presentation

Document

#### SIGNATURE

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

Date: August 17, 2020

OCUGEN, INC.

By: /s/ Shankar Musunuri

Name: Shankar Musunuri Title: Chief Executive Officer and Chairman

2



# Our Mission is to Develop Gene Therapies to Cure Blindness Diseases

NASDAQ: OCGN

Corporate Deck: Aug 2020



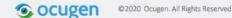
### **Forward Looking Statement**

This presentation contains forward-looking statements that involve substantial risks and uncertainties. All statements, other than statements of historical facts, contained in this presentation, including statements regarding our business strategy, future results of operations and financial position, prospective products, product approvals, research and development costs, timing and likelihood of success, estimated market size or growth, and plans and objectives of management for future operations, are forward-looking statem When used in this presentation, the words "anticipate," "believe," "contemplate," "could," "estimate," "expect," "intend," "may," "plan," "potential," "predict," "projec "should," "target," "would," and similar expressions are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying we

Forward-looking statements involve known and unknown risks, uncertainties and other factors, including those risks set forth in the Company's filings with the Securities and Excl Commission, which are available at www.sec.gov, that may cause our actual results, performance or achievements to be materially different from any future results, performance achievements expressed or implied by the forward-looking statements. Forward-looking statements are based on our management's beliefs and assumptions and on information available to management as of the date of this presentation. Our actual future results may be materially different from what we expect. Except as required by law, we assume no obligation to update these forward-looking statements publicly, or to update the reasons actual results could differ materially from those anticipated in the forward-looking state even if new information becomes available in the future.

This presentation includes estimates by us of statistical data relating to market size and growth and other estimated data about our industry. This data involves a number of assumptions and limitations, and you are cautioned not to give undue weight to such estimates. This presentation also includes statistical and other industry and market data tha obtained from industry publications and research, surveys and studies conducted by third parties. Industry publications and third-party research, surveys and studies generally in that their information has been obtained from sources believed to be reliable, although they do not guarantee the accuracy or completeness of such information. While we belie these industry publications and third-party research, surveys and studies are reliable, we have not independently verified such data.

This communication shall not constitute an offer to sell or the solicitation of an offer to sell or the solicitation of an offer to buy any securities, nor shall there be any sale of secur any jurisdiction in which such offer, solicitation or sale would be unlawful prior to registration or qualification under the securities laws of any such jurisdiction. No offering of sec shall be made except by means of a prospectus meeting the requirements of Section 10 of the Securities Act of 1933, as amended.





## **Ocugen Overview**

### Developing transformative therapies with the potential to cure blindness diseases

	>	Modifier Gene Therapy Platform – potential for one product to treat many diseases & multi-factor approach
OCUGEN'S	≻	Technology developed at Dr. Neena Haider's Lab, Harvard Medical School (POC study results published in Nature
BREAKTHROUGH MODIFIER GENE	>	OCU400 (AAV-NR2E3): Potential to treat broad Retinitis Pigmentosa (RP), which has over 150 gene mutations, ir developing separate therapies for each mutation under traditional gene therapy – initiation of Phase 1/2a withir
THERAPY PLATFORM	A	OCU410 (AAV-RORA): Potential to treat dry age-related macular degeneration (Dry AMD) through multi-factor treatment approach – initiation of Phase 1/2 in 2022
	≻	Strategic manufacturing partnership with CanSinoBio (~\$7B market cap) – sets clear path for critical manufactur
	A	OCU200: Targeting major retinal diseases: Diabetic Macular Edema (DME), Diabetic Retinopathy (DR), and Wet A Related Macular Degeneration (Wet AMD) – initiation of Phase 1/2 in 2022
NOVEL BIOLOGIC		
NOVEL BIOLOGIC	>	Novel mechanism of action (MOA) – integrin targeting
NOVEL BIOLOGIC	AA	Novel mechanism of action (MOA) – integrin targeting Potential opportunity to initially treat non-responders to anti-VEGF/corticosteroids therapies, 50% of the total p population of DME, DR and Wet AMD (estimated total current global market size over \$10B)
	2	Potential opportunity to initially treat non-responders to anti-VEGF/corticosteroids therapies, 50% of the total p





## **Experienced Leadership Team**



# **Pipeline Overview**

	Program	Indication		Prevalence (US)	Discovery	Preclinical	IND-Enabling	Phase
Modifier Gene OCU400	NR2E3 Mutation - Associated Retinal Degeneration *	Orphan US	500 - 600 [					
	RHO Mutation - Associated Retinal Degeneration *	Orphan US	10,400 - 12,700	1				
Therapy	AAV-hNR2E3	CEP290 Mutation - Associated Retinal Degeneration *	Orphan US	2,500 - 3,000				
Platform	PDE6B Mutation - Associated Retinal Degeneration	Orphan US	1800 - 2800					
	OCU410 AAV-hRORA	Dry Age Related Macular Degeneration (Dry AMD) *		9M - 10M				
	0011200	Diabetic Macular Edema		0.75M				
Novel Biologic Transferrin-	Transferrin-	Diabetic Retinopathy		7.7M				
Tumstatin -		Wet Age Related Macular Degeneration (Wet AMD)		1.1M				

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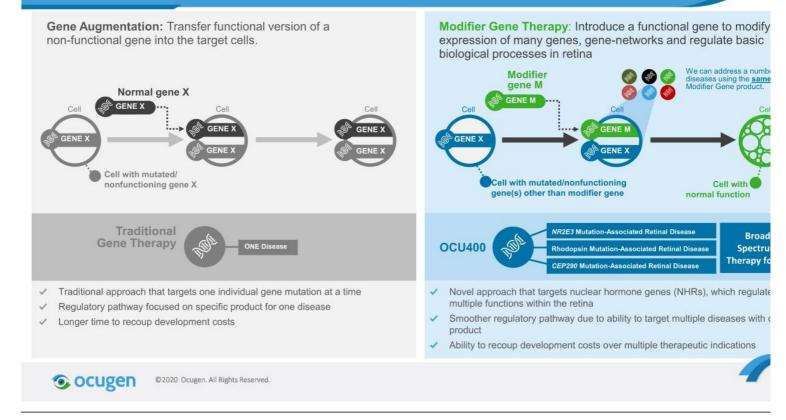
\* No approved therapies exist https://www.aao.org/eye-health/diseases/retinitis-pigmentosa-treatment https://www.aao.org/eye-health/diseases/amd-treatment

# **Ocugen's Modifier Gene Therapy Platform**

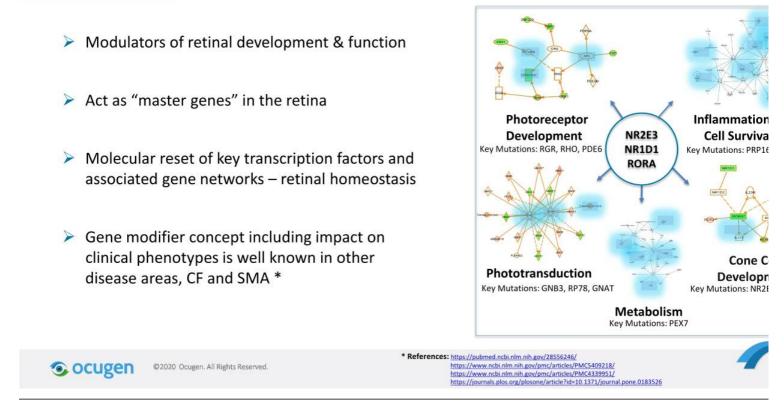
# **Breakthrough Technology designed to**

Address Multiple Diseases with One Product Approach Complex Diseases Through Multiple Factors

# **Ocugen's Modifier Gene Therapy Platform**



## **Nuclear Hormone Receptor Genes (NHRs)**



## **Nature Gene Therapy Publication**

### Preclinical POC Data for Nr2e3 Published in Nature Gene Therapy

- Efficacy results shown in 5 unique mouse models of RP
- Technology developed at Harvard Medical School, Dr. Neena Haider's Lab >
- Study demonstrates potency of modifier gene therapy to elicit broad-spectrum therapeutic benef early and advanced stages of RP
- Results show evidence of vision rescue in Early Stage & Advanced Stage of disease



- Important milestone for development of therapy; demonstrated proof of principle
- Protection elicited in multiple animal models of degeneration caused by different mutations
- Potential to represent first broad-spectrum therapy and to provide rescue even after disease onsi

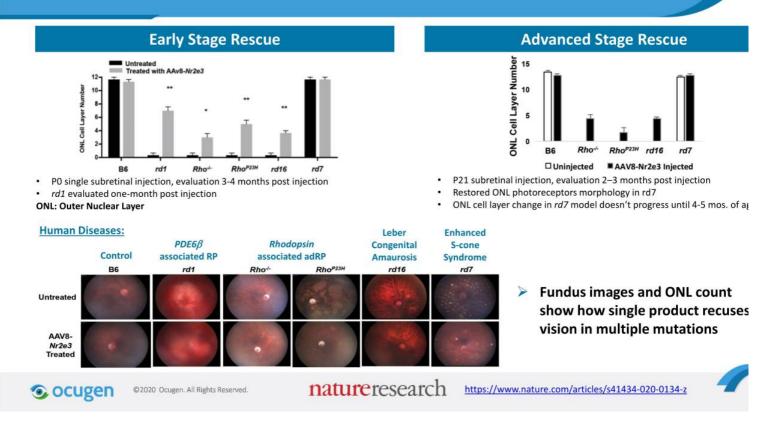


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natureresearch https://www.nature.com/articles/s41434-020-0134-z

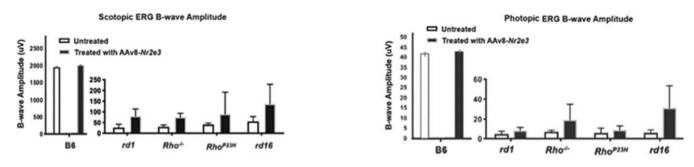


## OCU400 – Rescue in Early & Advanced Stage of Disease



## **OCU400 – Demonstrates Improved Vision Signals in Retina**

### Electroretinogram (ERG) response reveals rescue under both Scotopic (dim-lit) as well as Photopic (well-lit) conditions



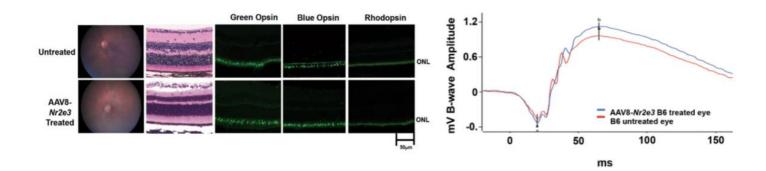
ERG response: PO single subretinal injection, evaluation 3-4 months post injection

#### Human vision is enabled by three primary modes:

- **Photopic vision:** Vision under well-lit conditions, which provides for color perception, and which functions primarily due to cc cells in the eye
- Mesopic vision: A combination of photopic vision and scotopic vision in low lighting, which functions due to a combination of and cone cells in the eye
- · Scotopic vision: Monochromatic vision in very low light, which functions primarily due to rod cells in the eye

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© OCUGEN ©2020 Ocugen. All Rights Reserved. nature research <u>https://www.nature.com/articles/s41434-020-0134-z</u>
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Study results confirm overexpression of Nr2e3 by subretinal AAV8-Nr2e3 injection is not detrimental to retina - no off-target effects

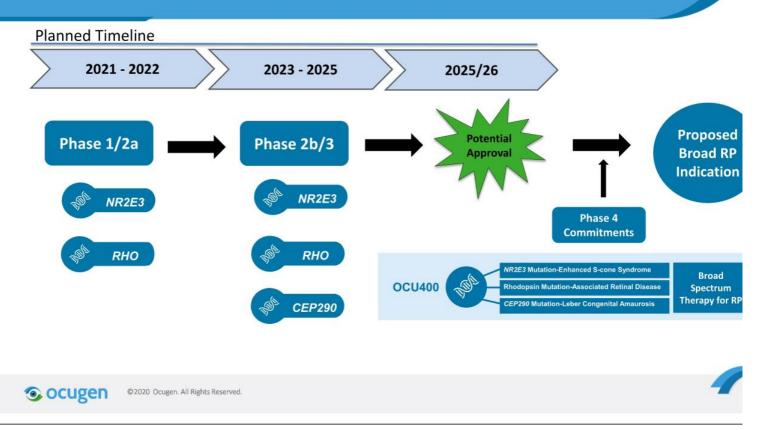


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natureresearch https://www.nature.com/articles/s41434-020-0134-z

## **OCU400 – Clinical and Regulatory Strategy**



## **OCU400 – Competitive Overview**

OCU400	Traditional Gene Therapy	Cell Therapy	
💿 ocugen	Roche Biogen OMERAGTE HORAMA Biogen SMERAGTE SaNOFI	≫astellas jCyte ReNeuror	
$\bigcirc$	8	Limited 📿	
$\bigcirc$	$\bigcirc$	8	
$\checkmark$	$\bigotimes$	$\bigotimes$	
Potentially longer benefit due to promotion of homeostasis	Potentially limited due to loss of retinal cells over time	Not established	
Large	Small (specific to mutation)	Variable	
Low (economies of scale)	High (No economies of scale)	High	
	Cugen Cugen Control Co	Image: Second	

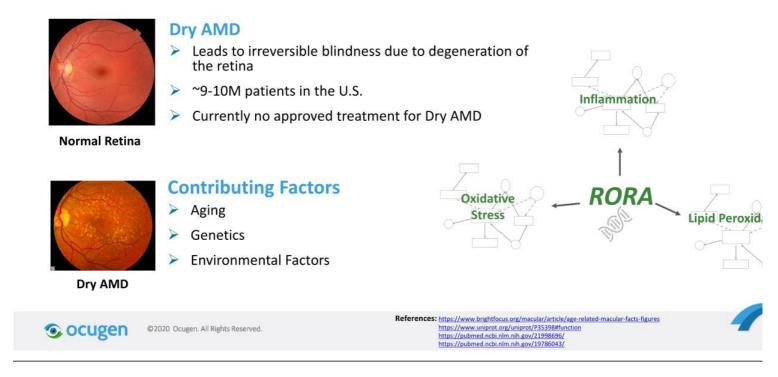
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Potential Competitors pursuing treatment of RP with Traditional Gene Therapy
Potential Competitors pursuing treatment of RP with Cell Therapy

## OCU410 (AAV-RORA) - Dry AMD

### We believe OCU410 has the potential to address this disease through its multi-factor approach



## **Gene Therapy Manufacturing**

Partnership helps advance OCU400 into the clinic with significantly reduced capital and resources

## Socugen (CanSinoBIO

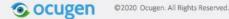
### **Ocugen Partnership with CanSino Biologics Inc. (CanSinoBIO)**

### CanSinoBIO to perform CMC development & manufacturing of clinical supplies for OCU400

- Publicly-listed (6185.HK) with market cap of ~\$7B
- State-of-the-art facilities with world class team
- Provides scalable GMP cell lines (such as HEK293 suspension culture adopted) for commercial manufacturing
- Responsible for all associated costs (typical costs until BLA filing ~\$25M-\$35M)
- Manufacturing at commercial scale (200L) for Phase 1/2 for product consistency

### CanSinoBIO has rights to develop, manufacture and commercialize OCU400 for Greater China Market

- Ocugen to receive mid to high single-digit royalties on Greater China sales
- CanSinoBio to receive low to mid single-digit royalties on all other Global sales



Source: Manufacturing Cures: Infrastructure Challenges Facing Cell And Gene Therapy Developers In Vivo June 2019 invivo.pharmaintelligence.informa.com Bloomberg: How a Chinese Firm Jumped to the Front of the Virus Vaccine Race



# **OCU200:**

Diabetic Macular Edema (DME) Diabetic Retinopathy (DR) Wet Age-Related Macular Degeneration (Wet AM

Novel Biologic Offering Benefits Beyond Anti-VEGF

## OCU200 – Potential to Treat DME, DR & Wet AMD

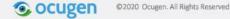
### OCU200 Provides Hope to All patients with DME, DR or Wet AMD

- DME  $\rightarrow$  ~0.7M patients in the US\*
- DR  $\rightarrow$  ~7.7M patients in the US\*
- Wet AMD  $\rightarrow$  ~1.1M patients in the US\*

### ~50% patients <u>do not</u>respon Anti-VEGF/corticosteroids Therapies

### > OCU200 is a Transferrin-Tumstatin Fusion Protein

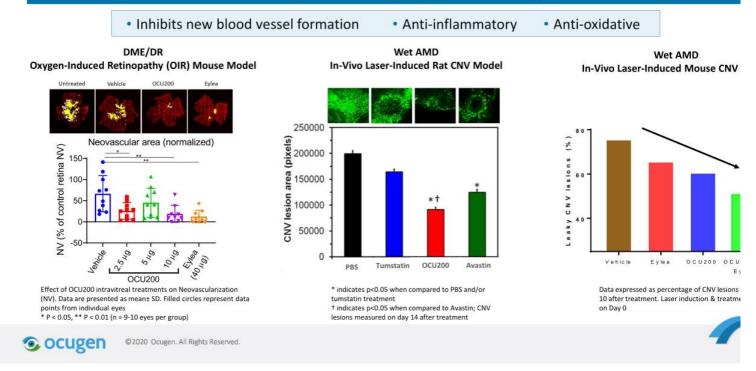
- Tumstatin: Multiple MOAs for treatment and prevention of macular degeneration and neovasculariza
- Transferrin: Targets the site of action and improves uptake (better target engagement)
- Integrin Targeting provides hope to these patients who are non-responders to current therapies
- Distinct MOA through targeting Integrin pathways can potentially also help reduce number of injections for patients who do respond to Anti-VEGF & corticosteroids therapies
- Significant global market potential



(\*) <u>https://www.gene.com/stories/retinal-diseases-fact-sheet</u> <u>https://www.brightfocus.org/macular/article/age-related-macular-facts-figures</u>

## **OCU200 – Transferrin-Tumstatin Fusion Protein**

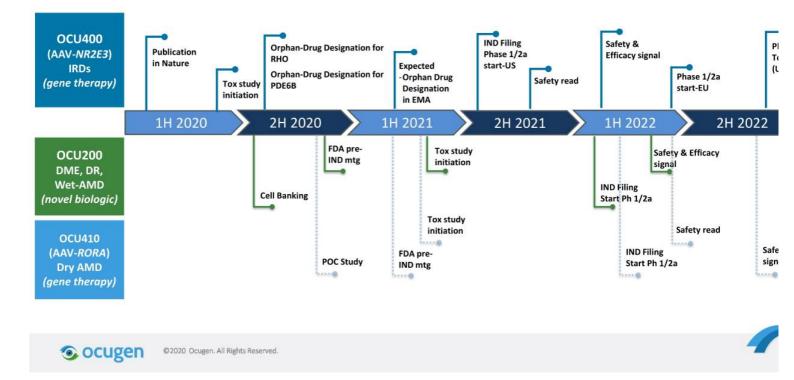
### **OCU200 Demonstrated Superior Efficacy Compared to Existing Anti-VEGF Therapies**



## **OCU200 – Distinct Mechanism of Action**

broader patient population					
	OCU200	OCU200 Anti-VEGF			
Features	📀 ocugen	Genentech <sup>®</sup> UNOVARTIS <sup>®</sup> REGENERON <sup>®</sup> KODIAK	SASCLEPIX Allegro		
Reduces VEGF level/Fluid	$\bigcirc$	$\bigcirc$			
Selectively works on active endothelial cells (Neovascular)		$\otimes$	$\bigcirc$		
Activates native anti-angiogenic response	$\checkmark$	$\bigotimes$	$\checkmark$		
Enhanced effective delivery through Transferrin		$\otimes$	$\bigotimes$		
Pro-apoptotic and anti-oxidative		$\otimes$	$\bigcirc$		
Dosing Frequency	Expected once in 3 months	1-3 months	1-3 months		
©2020 Ocugen. All Rights Reserved.		Potential Competitors pursuing treatment using A Potential Competitors pursuing treatment using A	(1) Apr		

# Near & Mid-Term Milestones: Planned Timeline



# **Capital Structure Summary**

Capital Structure Summary				
Cash & Cash Equivalents (6/30/20)	\$15.0M			
Debt Principal O/S (6/30/20) • EB5 Loan : 1.5M • PPP Loan : 0.4M • Apr '20 Notes: 4.5M	\$6.4M			
Common Stock O/S (7/31/20)	135.0M			
Warrants O/S (6/30/20)	0.9M			
Options O/S (6/30/20)	4.5M			



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# A Bold Vision to Cure Blindness Diseases with Gene Therapies

For more information, contact: IR@ocugen.com

