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): March 31, 2021

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)

263 Great Valley Parkway 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 (see General Instruction A.2. below):

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

o 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))

| Trading Symbol(s) | Name of each exchange on which registered |
|-------------------|---|
| 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 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

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. **o**

Item 8.01 Other Events

Attached as Exhibit 99.1 and incorporated herein by reference is a presentation that Ocugen, Inc. ("Ocugen") will post on its website on March 31, 2021 and may use from time to time in presentations or discussions with investors, analysts, and other parties.

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Item 9.01 Financial Statements and Exhibits

The following exhibit is being filed herewith:

(d) Exhibits

Exhibit No. 99.1 Document Ocugen, Inc. Presentation

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: March 31, 2021

OCUGEN, INC.

By: /s/

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

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Our Mission is to

Develop Gene Therapies to Cure Blindness Diseases

and

Develop a Vaccine to Save Lives from COVID-19

NASDAQ: OCGN Corporate Deck: March 2021



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 statements. When used in this presentation, the words "anticipate," "believe," "contemplate," "continue," "could," "estimate," "intend," "may," "plan," "potential," "predict," "project," "should," "target," "would," and similar expressions are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words.

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 Exchange 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 or 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 statements, even if new information becomes available in the future.

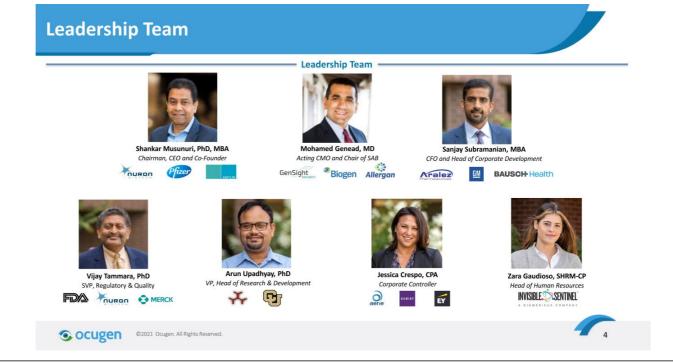
This presentation includes estimates by us of statistical data relating to market size and growth and other estimated data about our industry. This data involves a number of assumptions and limitations, and you are cautioned not to give undue weight to such estimates. This presentation also includes statistical and other industry and market data that we obtained from industry publications and research, surveys and studies conducted by third parties. Industry publications and third-party research, surveys and studies generally indicate 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 believe these industry publications and third-party research, surveys and studies are reliable, we have not independently verified such data.

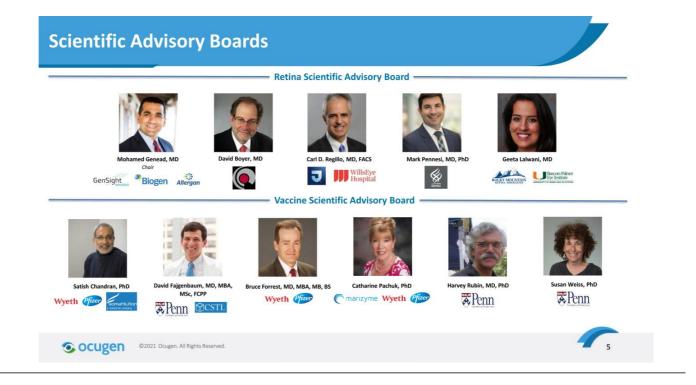
This communication shall not constitute an offer to sell or the solicitation of an offer to sell or the solicitation of an offer to buy any securities, nor shall there be any sale of securities in any jurisdiction in which such offer, solicitation or sale would be unlawful prior to registration or qualification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

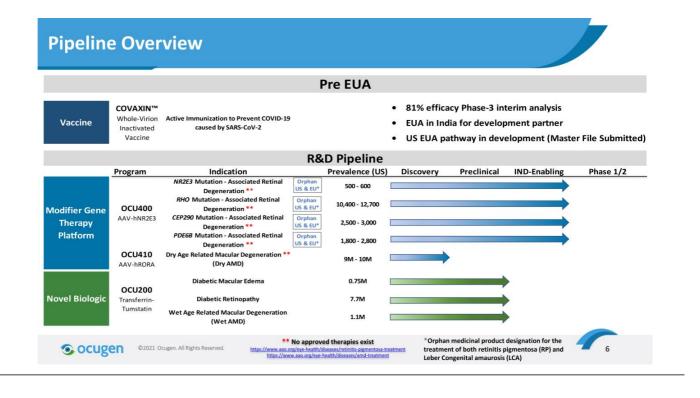
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| Ocugen O | verview |
|--|--|
| COVID-19 VACCINE | COVAXINTM: Whole-virion inactivated COVID-19 vaccine candidate (with adjuvant). Licensed rights from Bharat Biotech for the US market (currently received EUA in India). Standard vaccine storage condition (2-8°C) 81% efficacy in Phase 3 Interim Analysis. Promising safety & immunogenicity demonstrated by the Phase 1/2 trials in India. Phase 3 clinical trial enrolled 25,800 participants between 18-91 years of age, including 2,433 over the age of 60 and 4,500 with comorbidities. Phase 1/2 enrolled 755 participants 12+ years of age. Potential coverage against multiple protein antigens of the virus and potentially applicable to broader population Effectively neutralizes UK variant of SARS-Cov-2 reducing the possibility of mutant virus escape |
| OCUGEN'S BREAKTHROUGH MODIFIER GENE THERAPY PLATFORM | Potential for one product to treat many diseases & multi-factor approach (POC study results published in Nature) OCU400 (AAV-NR2E3): Orphan medicinal product designation for the treatment of both retinitis pigmentosa (RP) and Leber Congenital amaurosis (LCA) covering diseases caused by mutations in over 175 genes. Initiation of Phase 1/2a this year 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 manufacturing |
| NOVEL BIOLOGIC | OCU200: Targeting major retinal diseases: Diabetic Macular Edema (DME), Diabetic Retinopathy (DR), and Wet Age-Related Macular Degeneration (Wet AMD) (estimated global market size over \$10B) – initiation of Phase 1/2 in 2022 Novel MoA: Potential to initially treat non-responders to anti-VEGF/ therapies (~50% of patients) |
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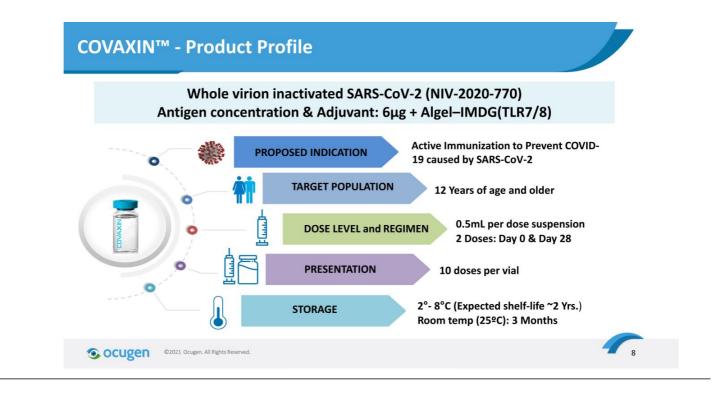


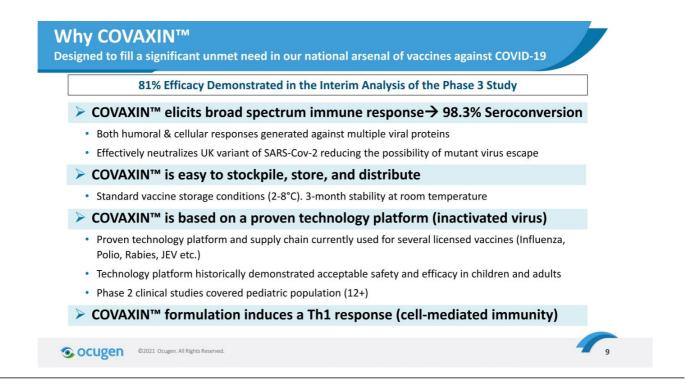


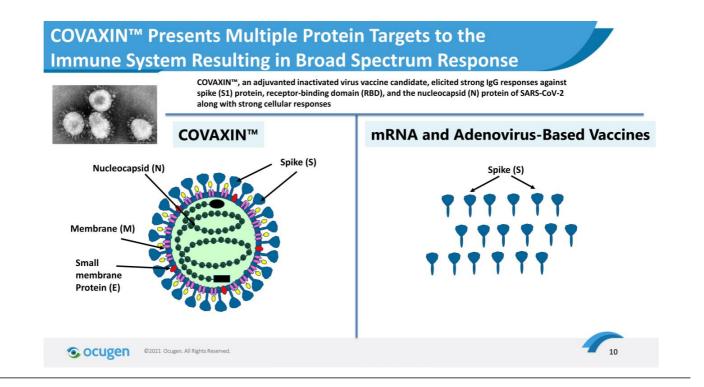


COVAXIN™

Whole-Virion Inactivated COVID-19 Vaccine Licensed from Bharat Biotech (BBIL) for the US Market







COVAXIN[™] is Distinct Amongst Leading COVID-19 Vaccines and Select Vaccine Candidates in the United States

| Company | Technology | Antigen | Stage |
|-------------------|---|--|--|
| COVAXIN™ | Inactivated SARS CoV-2 Virus, Aluminum hydroxide, TLR agonist | Whole virus (Including S & N Proteins) | EUA in India; pre-EUA discussions with FDA |
| Pfizer/ BioNTech | Lipoplex of SARS CoV-2 S protein mRNA | S protein | EUA |
| Moderna | Lipoplex of SARS CoV-2 S protein mRNA | S protein | EUA |
| AstraZeneca | Non-replicating infectious Adenovirus | S protein | EUA in India & UK |
| Johnson & Johnson | Non-replicating infectious Adenovirus | S protein | EUA |

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Technology Comparisons: Target Product Profile

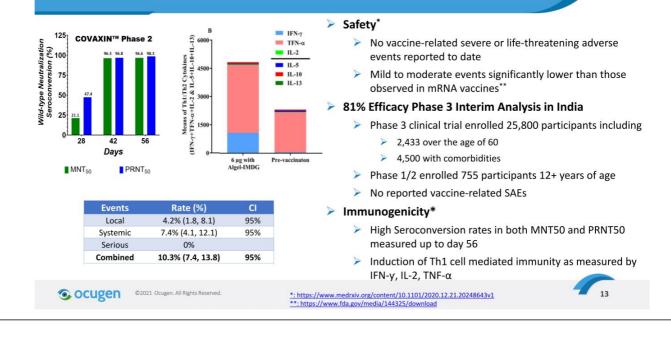
| Characteristic | mRNA | Adeno- Based | COVAXIN™ |
|---|--------------|--------------|--------------|
| Acceptable Safety | \checkmark | \checkmark | \checkmark |
| Neutralizing antibody response | \checkmark | \checkmark | √+ |
| Cellular responses against multiple viral antigens | \checkmark | \checkmark | √+ |
| Efficacy | \checkmark | \checkmark | √+ |
| Stability at 2-8°C | x | \checkmark | \checkmark |
| Multiple Viral Antigens | x | x | \checkmark |

"+" : B and T cell immune responses to multiple proteins, Safety and Efficacy in Phase 1 and Phase 2 studies

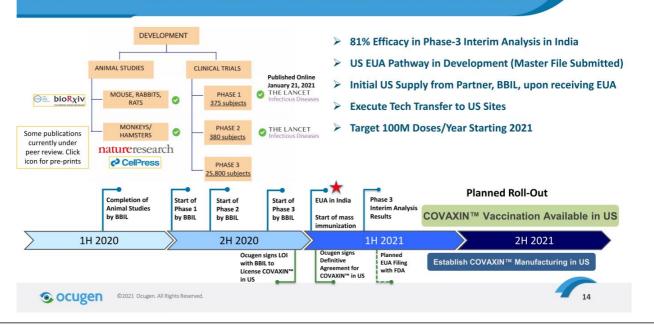
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COVAXIN™: Safety, Efficacy, and Immunogenicity



COVAXIN[™] Progress and Planned Milestones for U.S. Dev.

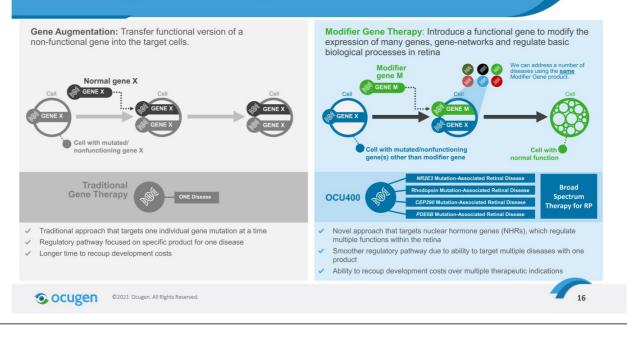


Ocugen's Modifier Gene Therapy Platform

Breakthrough Technology Designed to

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

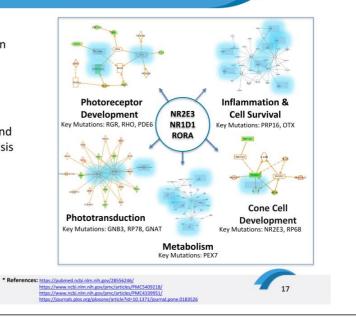
Traditional Approach vs. Ocugen's Novel Platform



Why Target Nuclear Hormone Receptor Genes (NHRs)?

- Modulators of retinal development & function
- > Act as "master genes" in the retina
- Molecular reset of key transcription factors and associated gene networks – retinal homeostasis
- Gene modifier concept including impact on clinical phenotypes is well known in other disease areas, CF and SMA *

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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 benefits in early and advanced stages of RP
- > Results show evidence of vision rescue in Early & Advanced Stages of disease



> Important milestone for development of therapy; demonstrated proof of principle

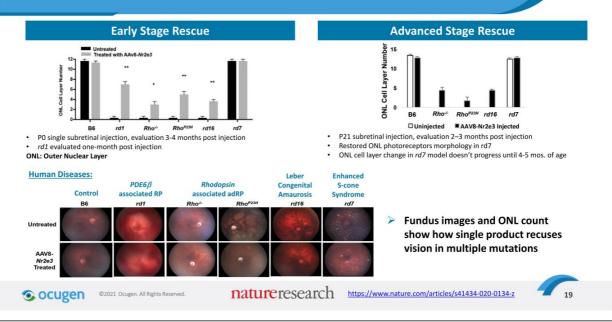
- > Protection elicited in multiple animal models of degeneration caused by different mutations
- > Potential to represent first broad-spectrum therapy and to provide rescue even after disease onset

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

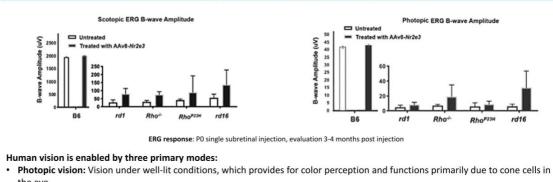


OCU400 – Rescue in Early & Advanced Stage of Disease



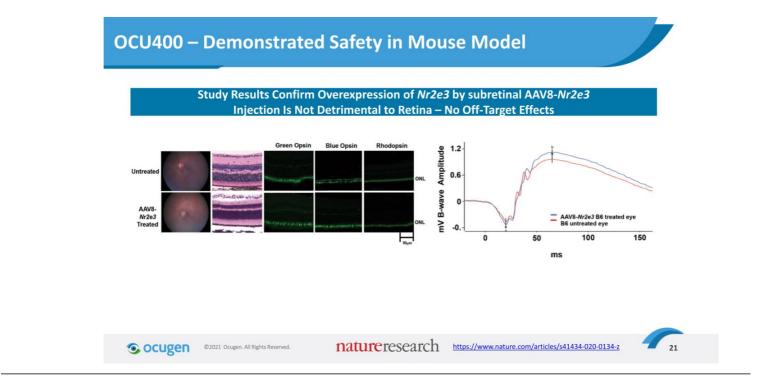
OCU400 – Demonstrates Improved Vision Signals in Retina

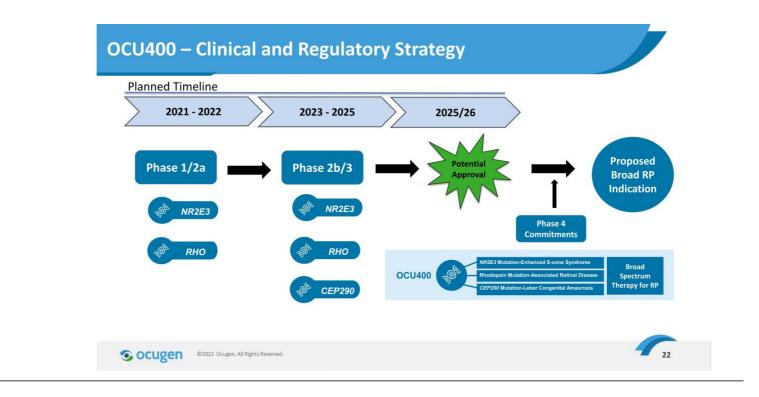
Electroretinogram (ERG) Response Reveals Rescue under Both Scotopic (dim-lit) as well as Photopic (well-lit) Conditions



- the eye
 Mesopic vision: A combination of photopic vision and scotopic vision in low lighting, which functions due to a combination of rod and cone cells in the eye
- Scotopic vision: Monochromatic vision in very low light, which functions primarily due to rod cells in the eye

| 💿 ocugen | ©2021 Ocugen. All Rights Reserved. | natureresearch | https://www.nature.com/articles/s41434-020-0134-z | 4 | 20 |
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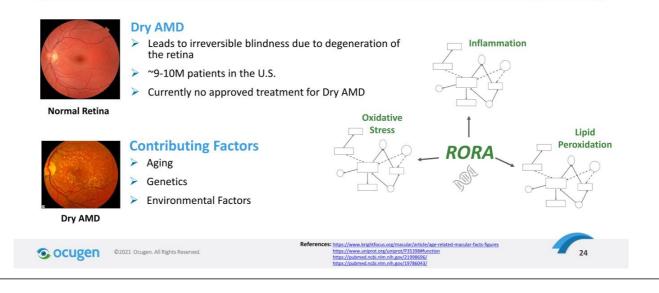




| | OCU400 | Traditional Gene Therapy | Cell Therapy |
|---|--|--|---------------------------------|
| Features | 💿 ocugen | Roche Biogen MEIRAGT | ≫astellas jCyte ReNeuron |
| Dne product for many IRDs including broad RP indication) | | 8 | Limited 🚫 |
| echnology established in the ocular disease space | | \bigcirc | \otimes |
| OC data in RP models with lifferent genetic mutations | \bigcirc | \bigotimes | \bigotimes |
| xpected long-term outcome | Potentially longer benefit due to promotion of homeostasis | Potentially limited due to loss of retinal cells over time | Not established |
| arget Patient Population | Large | Small (specific to mutation) | Variable |
| Developmental cost | Low (economies of scale) | High (No economies of scale) | High |

OCU410 (AAV-RORA) – Dry Age-Related Macular Degeneration

We Believe OCU410 Has the Potential to Address this Disease through its Multi-Factor Approach





OCU200:

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

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

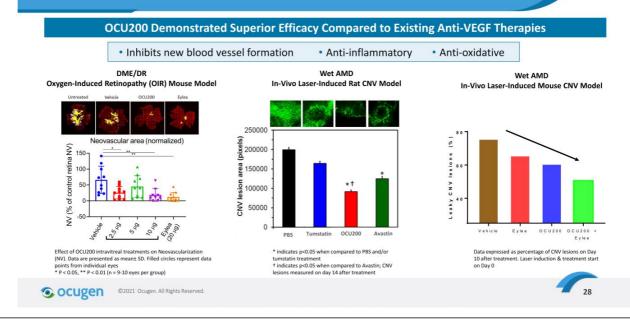
~50% of Patients <u>DO NOT</u> Respond to Anti-VEGF/Corticosteroids Therapies

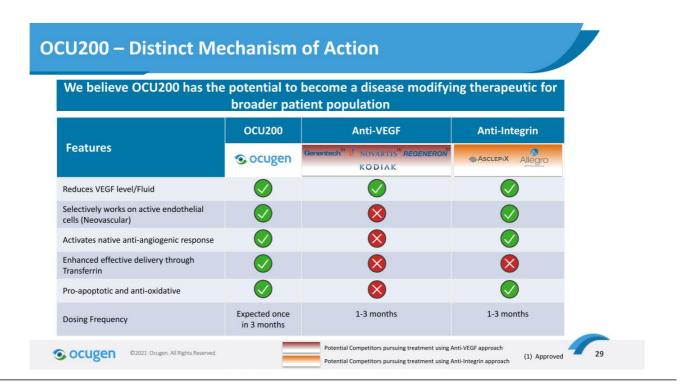
OCU200 is a Transferrin-Tumstatin Fusion Protein

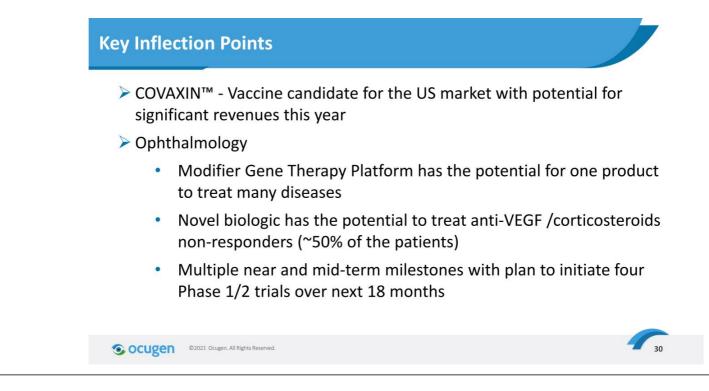
- Tumstatin: Multiple MOAs for treatment and prevention of macular degeneration and neovascularization
- Transferrin: Targets the site of action and improves uptake (better target engagement)
- Integrin Targeting provides hope to these patients who are non-responders to current therapies
- Distinct MOA 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

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 (*) <u>https://www.gene.com/stories/retinal-diseases-fact-sheet</u>
 <u>https://www.brightfocus.org/macular/article/age-related-macular-facts-figures</u>
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A Bold Vision to Cure Blindness Diseases and Offer a Differentiated Vaccine to Save Lives from COVID-19

> For more information, contact: IR@ocugen.com

