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 6, 2021

OCUGEN, INC.

(Exact Name of Registrant as Specified in its Charter)

Delaware (State or Other Jurisdiction of Incorporation)

 $\ \square$ Pre–commencement communications pursuant to Rule 13e–4(c) under the Exchange Act (17 CFR 240.13e–4(c))

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)

NI/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)

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))

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 LLC (The Nasdaq Capital Market)
		(
Indicate by check mark whether the registrant is an emerging growth company as defined in chapter).	Rule 405 of the Securities Act of 1933 (§230.405	5 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 u the Exchange Act. \square	ise the extended transition period for complying v	with any new or revised financial accounting standards provided pursuant to Section 13(a) of

Item 2.02 Results of Operations and Financial Condition

On August 6, 2021, Ocugen, Inc. ("the Company") issued a press release announcing its financial results for the quarter ended June 30, 2021. The Company has scheduled a conference call and webcast for 8:30 a.m. eastern time on August 6, 2021 to discuss these financial results and business updates. The Company will use presentation materials in connection with the conference call and webcast, which presentation materials will be posted on the Company's website at www.ocugen.com. Copies of the press release and presentation materials are furnished herewith as Exhibit 99.1 and Exhibit 99.2, respectively, to this Current Report on Form 8-K and incorporated herein by reference.

Item 7.01 Regulation FD Disclosure

The disclosure contained in Item 2.02 of this Current Report on Form 8-K is incorporated herein by reference. The information disclosed under Items 2.02 and 7.01, including Exhibit 99.1 and Exhibit 99.2, is being furnished and shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), or otherwise subject to the liabilities of that section, and shall not be deemed to be incorporated by reference in any Company filing under the Securities Act of 1933, as amended, or the Exchange Act, except as expressly set forth by specific reference in such filing.

Item 8.01 Other Events

Attached as Exhibit 99.3 and incorporated herein by reference is a presentation that the Company will post on its website on August 6, 2021 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 or furnished (as applicable) herewith:

(d) Exhibits

Exhibit No.	Document
99.1	Press Release of Ocugen, Inc. dated August 6, 2021
99.2	Earnings Release Presentation issued August 6, 2021
99.3	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, as amended, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Date: August 6, 2021

OCUGEN, INC.

By:

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

Ocugen Provides Business Update and Second Quarter 2021 Financial Results

Conference Call and Webcast Today at 8:30 a.m. ET

- · Rolling regulatory submission to Health Canada completed and review process initiated; U.S. FDA talks continue
- · Multiple milestones achieved across regulatory and supply chain to support potential commercialization of pipeline assets
- The Company experienced organizational arouth to reflect new business requirements in clinical development, manufacturing, and commercialization

MALVERN, Pa. — August 6, 2021 (GLOBE NEWSWIRE) — Ocugen, Inc. ("Ocugen" or the "Company") (NASDAQ: OCGN), a biopharmaceutical company focused on discovering, developing, and commercializing gene therapies to cure blindness diseases and developing a vaccine to save lives from COVID-19, today reported second quarter 2021 financial results along with a general business update.

"The second quarter has proven how dynamic the life sciences sector is during this time of global crisis, and we are undeterred in our efforts to contribute to the public health agenda. Our regulatory submission to Health Canada and our ongoing discussions with the U.S. Food and Drug Administration continue to provide us direction in potentially obtaining regulatory approvals for COVAXINT[™] in North America. We are also continuing our forward momentum to take on blindness diseases and are on track to initiate our first gene therapy clinical trial for OCU400 in the latter part of 2021. Overall, I'm very pleased with our growth and efforts to date," said Dr. Shankar Musunuri, Chairman, Chief Executive Officer, and Co-Founder of Ocugen.

Business Highlights

FORWARD MOMENTUM FOR COVAXIN™ AND OPHTHALMIC PIPELINE

- The Company's partner, Bharat Biotech of India, completed and posted its Phase 3 clinical trial results for COVAXIN™ demonstrating 77.8% efficacy against overall COVID-19 disease, 93.4% efficacy against severe COVID-19 disease, 63.6% efficacy against asymptomatic COVID-19 disease, and 65.2% efficacy against the Delta variant, B.1.617.2. Adverse events in the COVAXIN™ and control arms of the Phase 3 clinical trial were observed in 12.4% of subjects, with less than 0.5% of subjects experiencing serious adverse side effects. This data was submitted to a peer-reviewed journal for future potential publication.
- In June, an amendment to the agreement with Bharat Biotech was finalized which expanded the Company's rights to develop, manufacture, and commercialize COVAXIN™ into Canada (in addition to the United States). Soon after in July, the Company announced the completion of its regulatory submission to Health Canada for COVAXIN™, which was accepted under the Minister of Health's Interim Order Respecting the Importation, Sale and Advertising of Drugs for Use in Relation to COVID-19 and transitioned to a New Drug Submission for COVID-19. The submission was conducted through the Company's new affiliate, Vaccigen, Ltd., and the review process has begun in Canada.
- Discussions with the U.S. Food and Drug Administration are ongoing, and the Company is still proceeding with a strategy focused on the agency's requested Biologics License Application pathway and determining what data requirements and U.S.-based clinical trials will be required to support such submission.
- Technology transfer activities are ongoing between Bharat Biotech and Jubilant HollisterStier, which the Company has selected to be its contract manufacturing partner with respect to COVAXINTM.
- The Company's development activities targeting retinal diseases based on its breakthrough modifier gene therapy platform continue to progress. Its first candidate therapy, OCU400, is anticipated to move into two parallel Phase 1/2a clinical trials in the United States later this year. The Company is currently also evaluating options to commence OCU400 clinical trials in Europe in 2022.

COMPANY POSITIONING FOR FUTURE GROWTH

• New management team member, Mike Shine, joined the Company in early June as Senior Vice President, Commercial, bringing nearly 35 years of industry experience. Mr. Shine will lead commercial efforts for the Company's portfolio including COVAXINTM's launch in Canada and the United States, if authorized or approved.

- Employee count has grown as the Company establishes enhanced capabilities in Research and Development, Clinical Development, Commercial, Supply Chain, and Communications.
- · The Company entered the Russell 2000 and 3000 Indices in June, which reflects the organization's performance, growth, and value.

Second Ouarter 2021 Financial Results

- Ocugen's cash, cash equivalents, and restricted cash totaled \$115.8 million as of June 30, 2021, compared to \$24.2 million as of December 31, 2020. Ocugen had 198.7 million shares of common stock outstanding as of June 30, 2021.
- Research and development expenses for the three months ended June 30, 2021 were \$18.9 million compared to \$1.6 million for the three months ended June 30, 2020. Research and development expenses for the three months ended June 30, 2021 included a \$15.0 million up-front payment to Bharat Biotech for the right and license to COVAXIN™ development, manufacturing, and commercialization in Canada. General and administrative expenses for the three months ended June 30, 2021 were \$6.8 million compared to \$1.8 million for the three months ended June 30, 2020. Ocugen reported a \$0.13 net loss per share for the three months ended June 30, 2021.

Conference Call and Webcast Details

Ocugen has scheduled a conference call and webcast for 8:30 a.m. eastern time today to discuss the financial results and recent business highlights. Ocugen's senior management team will host the call, which will be open to all listeners. There will also be a question-and-answer session following the prepared remarks.

The call can be accessed by dialing (844) 873-7330 (U.S.) or (602) 563-8473 (international) and providing the conference ID 6663619. To access a live audio webcast of the call on the "Investors" section of the Ocugen website, please click here. A replay of the webcast will be archived on Ocugen's website for approximately 45 days following the call.

About Ocugen, Inc.

Ocugen, Inc. is a biopharmaceutical company focused on discovering, developing, and commercializing gene therapies to cure blindness diseases and developing a vaccine to save lives from COVID-19. Our breakthrough modifier gene therapy platform has the potential to treat multiple retinal diseases with one drug – "one to many" and our novel biologic product candidate aims to offer better therapy to patients with underserved diseases such as wet age-related macular degeneration, diabetic macular edema, and diabetic retinopathy. We are co-developing Bharat Biotech's COVAXIN™ vaccine candidate for COVID-19 in the U.S. and Canadian markets. For more information, please visit www.ocuen.com.

Cautionary Note on Forward-Looking Statements

This press release contains forward-looking statements within the meaning of The Private Securities Litigation Reform Act of 1995, which are subject to risks and uncertainties. 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 forward-looking statements include information about qualitative assessments of available data, potential benefits, expectations for clinical trials, and anticipated timing of clinical trial readouts and regulatory submissions. This information involves risks and uncertainties that could cause actual results to differ materially from those expressed or implied by such statements. Risks and uncertainties include, among other things, the uncertainties inherent in research and development, including the ability to meet anticipated clinical endpoints, commencement and/or completion dates for clinical trials, regulatory submission dates, regulatory approval dates and/or launch dates, including the risk that such dates are not met due to impacts from the ongoing COVID-19 pandemic, as well as risks associated with preliminary and interim data, including the possibility of unfavorable new clinical trial data and further analyses of existing clinical trial data; the risk that the results of in-vitro studies will not be duplicated in human clinical trials; the risk that clinical trial data are subject to differing interpretations and assessments, including during the peer review/publication process, in the scientific community generally, and by regulatory authorities; whether and when data from Bharat Biotech's clinical trials will be published in scientific journal publications and, if so, when and with what modifications; whether we will be able to provide the U.S. Food and Drug Administration ("FDA") with sufficient additional i

Canada, or a New Drug Submission application may be approved by Health Canada, which authorizations or approvals will depend on myriad factors, including making a determination as to whether the vaccine candidate's benefits outweigh its known risks and determination of the vaccine candidate's efficacy and, if authorized or approved, whether it will be commercially successful; whether developments with respect to the COVID-19 pandemic will affect the regulatory pathway available for vaccines in the United States, Canada, or other jurisdictions; manufacturing capabilities, manufacturing capacity, and supply restrictions, including whether sufficient doses of COVAXINTM can be manufactured or supplied within our projected time periods; market demand for COVAXINTM in the United States or Canada; decisions by the FDA or Health Canada impacting labeling, manufacturing processes, safety, and/or other matters that could affect the availability or commercial potential of COVAXINTM in the United States or Canada, including development of products or therapies by other companies. 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. Any forward-looking statements that we make in this press release speak only as of the date of this press release. Except as required by law, we assume no obligation to update forward-looking statements contained in this press release whether as a result of new information, future events, or otherwise, after the date of this press release.

Ocugen Contact:

Ken Inchausti Head, Investor Relations & Communications +1 484 237 3398 ken.inchausti@ocugen.com

Please submit investor-related inquiries to: IR@ocugen.com

(tables to follow)

OCUGEN, INC. CONSOLIDATED BALANCE SHEETS (in thousands) (Unaudited)

	June 30, 2021	December 31, 2020
Assets		
Current assets		
Cash and cash equivalents	\$ 115,642	\$ 24,039
Advance for COVAXIN supply	4,988	_
Prepaid expenses and other current assets	 996	1,839
Total current assets	121,626	25,878
Property and equipment, net	944	633
Restricted cash	151	151
Other assets	 1,530	714
Total assets	\$ 124,251	\$ 27,376
Liabilities and stockholders' equity	 	
Current liabilities		
Accounts payable	\$ 802	\$ 395
Accrued expenses and other current liabilities	3,870	2,941
Short-term debt, net	_	234
Operating lease obligation	 168	44
Total current liabilities	4,840	3,614
Non-current liabilities		
Operating lease obligation, less current portion	1,328	389
Long term debt, net	 1,674	1,823
Total liabilities	 7,842	5,826
Stockholders' equity		
Convertible preferred stock	1	_
Common stock	1,988	1,841
Treasury stock	(48)	(48)
Additional paid-in capital	220,799	93,059
Accumulated deficit	 (106,331)	(73,302)
Total stockholders' equity	116,409	21,550
Total liabilities and stockholders' equity	\$ 124,251	\$ 27,376

OCUGEN, INC.

CONSOLIDATED STATEMENTS OF OPERATIONS

(in thousands, except share and per share amounts)
(Unaudited)

	Three months ended June 30,		Six months ended June 30,	
	2021	2020	2021	2020
Revenues	 			
Collaboration revenue	\$ _	\$ 43	\$	\$ 43
Total revenues	_	43	_	43
Operating expenses				
Research and development	18,853	1,630	21,725	3,282
General and administrative	6,757	1,779	10,942	4,056
Total operating expenses	 25,610	3,409	32,667	7,338
Loss from operations	(25,610)	(3,366	(32,667)	(7,295)
Other income (expense)				
Interest income	10	_	10	_
Interest expense	(20)	(248	(40)	(263)
Other income (expense)	(332)		(332)	
Total other income (expense)	(342)	(248	(362)	(263)
Net loss	\$ (25,952)	\$ (3,614	\$ (33,029)	\$ (7,558)
Deemed dividend related to Warrant Exchange	_	(12,546	_	(12,546)
Net loss to common stockholders	\$ (25,952)	\$ (16,160	\$ (33,029)	\$ (20,104)
Shares used in calculating net loss per common share — basic and diluted	 195,572,189	83,537,463	190,960,775	68,082,346
Net loss per share of common stock — basic and diluted	\$ (0.13)	\$ (0.19	\$ (0.17)	\$ (0.30)



Q2 2021 Results

August 6, 2021





Q2 2021 Results

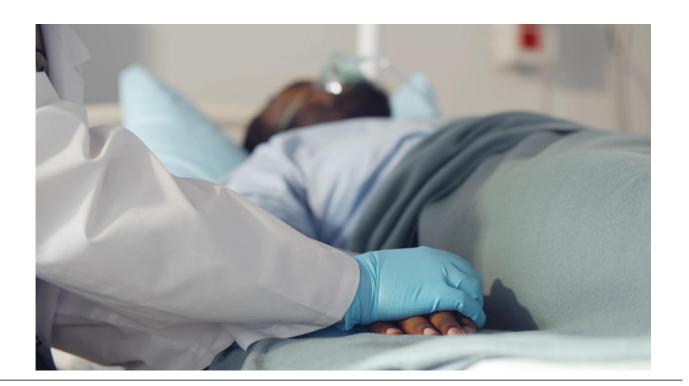
August 6, 2021

Business update Financial performance



Forward Looking Statement

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COVAXIN™: Forward momentum in dynamic environment

Canada

- · Expanded rights to develop, commercialize and manufacture COVAXIN™ in Canada
- · Regulatory review process has begun following the completion of a rolling submission to Health Canada
- Established Canadian affiliate Vaccigen to manage potential COVAXIN™ introduction

United States

Discussions continue with the U.S. Food and Drug Administration around new clinical data required for submission of Biologics License Application

Phase 3 clinical data

- Overall: 77.8% (95% CI: 65.2 86.4)
- Against severe disease: 93.4% (95% CI: 57.1 99.8)
 Against asymptomatic disease: 63.6% (95% CI: 29.0 82.4)
- Against B.1.617.2 (Delta): 65.2% (95% CI: 33.1 83.0)
- · Outcomes: 12.4% reported adverse events (AE) in both vaccine and placebo arms (p<0.05)

Manufacturing infrastructure

- Tech transfer ongoing with Jubilant HollisterStier
- Supply chain team expanded

ocugen

OCU400 - On track for late 2021 clinical trials

A novel gene therapy product candidate with the potential to restore retinal integrity and function across a range of genetically-diverse, inherited retinal diseases

Two Phase 1/2a clinical trials planned for Q4 2021 in the United States

Toxicology studies progressing with an upcoming readout ahead of clinical trial initiation



ocugen

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Financial update

Statements of Onesations	Three months ended			
Statements of Operations	June	e 30, 2021	J	lune 30, 2020
Research and development expense	\$	(18.9)	\$	(1.6)
General and administrative expense		(6.8)		(1.8)
Other income (expense), net		(0.3)		(0.2)
Net loss	\$	(26.0)	\$	(3.6)
Net loss to common stockholders	\$	(26.0)	\$	(16.2)
Net loss per share of common stock — basic and diluted	\$	(0.13)	\$	(0.19)

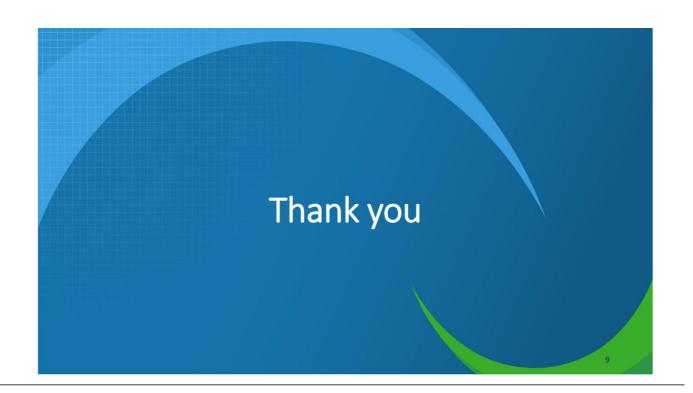
Balance Sheet Data	June	30, 2021	Decer	mber 31, 2020
Cash, cash equivalents, and restricted cash	\$	115.8	\$	24.2
Debt	\$	1.7	\$	2.1
Shares outstanding		198.7		184.0

(in millions, except per share amounts)



Q&A

ocugen





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: August 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," "expect," "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 Exchang 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 statement 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 indicat 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.

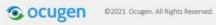
This communication shall not constitute an offer to sell or the solicitation of an offer to sell or the solicitation of an offer to buy any securities, nor shall there be any sale of securities any jurisdiction in which such offer, solicitation or sale would be unlawful prior to registration or qualification 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.





Ocugen Overview

	 COVAXIN™: Whole-virion inactivated COVID-19 vaccine candidate (with adjuvant). Licensed rights from Bharat Biotech for the and Canadian markets (currently received EUA in India). Standard vaccine storage condition (2-8°C)
	 Demonstrated 77.8% overall efficacy, 93.4% in severe COVID-19 disease (including hospitalization) and 65.2% efficacy against Delta variant in Phase 3 trial by Bharat Biotech
VACCINE	 Phase 3 clinical trial enrolled 25,800 participants between 18-98 years of age, including 2,760 over the age of 60 and 7,058 wi at least one pre-existing condition. Phase 1/2 enrolled 755 participants
	 Potential coverage against multiple protein antigens of the virus and potentially applicable to broader population, including 17-year-olds (as seen in Phase 2 study)
	• Effectively neutralizes additional Kappa, Zeta, and Alpha variants of SARS-Cov-2 reducing the possibility of mutant virus escape
	Rolling submission with Health Canada completed (July 2021)
	Potential for one product to treat many diseases & multi-factor approach (POC study results published in Nature)
MODIFIER	• OCU400 (AAV-hNR2E3): 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
GENE THERAPY PLATFORM	• OCU410 (AAV-hRORA): 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 (~\$13B market cap) – sets clear path for critical manufacturing
NOVEL	 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
BIOLOGIC	 Novel MoA: Potential to initially treat non-responders to anti-VEGF/ therapies (~50% of patients)





Leadership Team



Shankar Musunuri, PhD, MBA Chairman, CEO and Co-Founder







Sanjay Subramanian, MBA CFO and Head of Corporate Development







Bruce D. Forrest, MB, BS, MD, MBA Acting CMO







SVP, Manufacturing & Supply Chain









Vijay Tammara, PhD SVP, Regulatory & Quality FDA TOURON & MERCK



Michael Shine, MBA SVP, Commercial









Arun Upadhyay, PhD VP, Head of Research & Development







Jessica Crespo, CPA Corporate Controller and Treasurer









Zara Gaudioso, SHRM-CP Head of Human Resources







Scientific Advisory Boards



Retina Scientific Advisory Board



















David Fajgenbaum, MD, MBA, MSc, FCPP



Bruce D. Forrest, MB, BS, MD, MBA

Wyeth Pfizer



A Catherine Pachuk, PhD

Comarizyme Wyeth Pizer



Harvey Rubin, MD, PhD



Susan Weiss, PhD







Pipeline and Regulatory overview

	Asset/Program	Indication	Phase	Notes
VACCINE	COVAXIN™ Whole-Virion Inactivated Vaccine	COVID-19	Phase 3*	Rolling submission with Health Canada completed (July 2021); Discussions with FDA ongoing
		NR2E3 Mutation – Associated Retinal Degeneration**	IND-Enabling	
	OCU400	RHO Mutation – Associated Retinal Degeneration**	IND-Enabling	Orphan designation
MODIFIER GENE	MODIFIER AAV-hnr2E3	CEP290 Mutation – Associated Retinal Degeneration**	IND-Enabling	US & EU [†]
THERAPY		PDE6B Mutation – Associated Retinal Degeneration**	IND-Enabling	
PLATFORM	OCU410 AAV-hRORA	Dry Age-Related Macular Degeneration (Dry AMD)	Preclinical	
		Diabetic Macular Edema	Preclinical	
NOVEL	OCU200 Transferrin –	Diabetic Retinopathy	Preclinical	
BIOLOGIC	Tumstatin	Wet Age-Related Macular Degeneration (Wet AMD)	Preclinical	



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*Bharat Biotech-sponsored clinical trial

** No approved therapies exist

¹ EU orphan medicinal product designation for the treatment of both retinitis pigmentosa (RP) and Leber Congenital amaurosis (LCA)

COVAXINTM

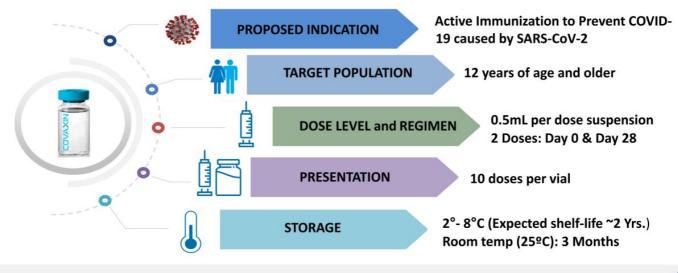
Investigational Whole-Virion Inactivated COVID-19 Vaccin

Licensed from Bharat Biotech (BBIL) for the US and Canadian Markets

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COVAXIN™ - Product Profile

Whole virion inactivated SARS-CoV-2 (NIV-2020-770) Antigen concentration & Adjuvant: 6µg + Algel-IMDG(TLR7/8)





Why COVAXIN™

Designed to fill a significant unmet need in our North American arsenal of vaccines against COVID-19



Broad Spectrum Immune Response

Both humoral & cellular responses generated against multiple viral proteins Induces a Th1 response (cell-mediated immunity)



Efficacy → 77.8% Efficacy Demonstrated in Phase 3 Trial (93.4% against severe)

Effective in neutralizing multiple variants, including rapidly-spreading Delta variant (65.2% efficacy) Potentially serve as a universal booster to minimize/eliminate viral escape and control the Pandemic



Safe in 12+ (Demonstrated in Phase 2 clinical trial)

Proven technology platform and supply chain currently used for several licensed vaccines (Influenza, Polio, Rabies, JEV etc.).

Historically demonstrated acceptable safety, tolerability and efficacy consistent with adults



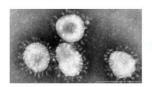
Transportation and Storage Ease

Stable for 3 months at room temperature Can be stored in standard conditions (2° - 8° C) for several years. Can be stockpiled.



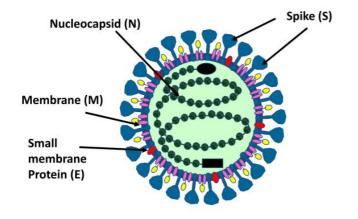


COVAXIN™ Presents Multiple Protein Targets to the Immune System Resulting in Broad Spectrum Response

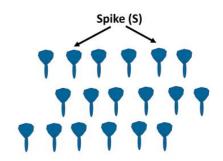


COVAXIN™, an adjuvanted inactivated virus vaccine candidate, elicited strong IgG responses against spike (S1) protein, receptor-binding domain (RBD), and the nucleocapsid (N) protein of SARS-CoV-2 along with strong cellular responses

COVAXIN™



mRNA and Adenovirus-Based Vaccin





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COVAXIN™ Developed and Manufactured by Bharat Biotech

Established Robust Manufacturing Process for COVAXIN

Ocugen licensed COVAXIN™ on the back of Bharat's strong track record of developing & commercializing vaccines globally

Inactivated Vero cell derived vaccines are proven, time-tested and long-lasting. A few include:













~300 MILLION DOSES SUPPLIED FROM VERO MANUFACTURING PLATFORM

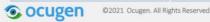






COVAXIN™ is Distinct Amongst Leading COVID-19 Vaccines and **Select Vaccine Candidates in the United States and Canada**

Company	Technology	Antigen	Status in US & Canada
COVAXIN™	Inactivated SARS CoV-2 Virus, Aluminum hydroxide, TLR agonist	Whole virus (Including S & N Proteins)	Rolling submission with Health Canada completed; BLA submission to be pursued in US
Pfizer/ BioNTech	Lipoplex of SARS CoV-2 S protein mRNA	S protein	EUA in US; Authorized by Interim Order in Canada
Moderna	Lipoplex of SARS CoV-2 S protein mRNA	S protein	EUA in US; Authorized by Interim Order in Canada
AstraZeneca	Non-replicating infectious Adenovirus	S protein	Authorized by Interim Order in Canada
Johnson & Johnson	Non-replicating infectious Adenovirus	S protein	EUA in US; Authorized by Interim Order in Canada



Technology Comparisons: Target Product Profile

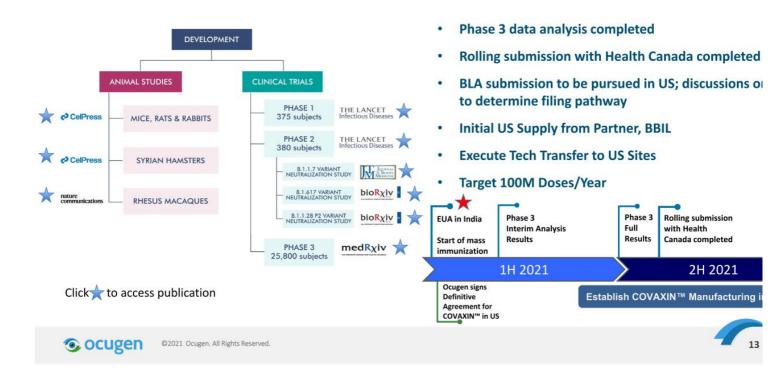
Characteristic	mRNA	Adeno- Based	COVAXIN™
Acceptable Safety	✓	✓	✓
Neutralizing antibody response	✓	✓	√ +
Cellular responses against multiple viral antigens	✓	✓	√ +
Efficacy	✓	✓	√ +
Stability at 2-8°C	x	✓	✓
Multiple Viral Antigens	X	X	✓

"+": B and T cell immune responses to multiple proteins, Safety and Efficacy in Phase 3 clinical trial by Bharat Biotech





COVAXIN™ Progress and Planned Milestones for North American Development



FINAL Phase 3 Clinical Trial Results Demonstrate Protective Effect of COVAXIN™

Fast facts of a double-blind, randomized, multicenter, Phase 3 clinical trial

- Subjects recruited between November 2020 and January 2021 across 25 sites
- 1:1 randomization among healthy adults (age 18-98 years)
- n = 25,798
- Primary endpoint: Preventing symptomatic COVID-19 occurring at least 14 days after second dose
- Secondary endpoint: Efficacy in subgroups based on age (18 - <60 years; ≥60 years)
- Evaluated safety, reactogenicity and consistency of immune responses

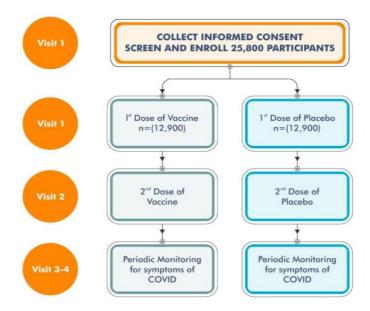
- ✓ Overall vaccine efficacy: 77.8% (95% CI: 65.2 86.
- ✓ Efficacy against severe disease: 93.4% (95% CI: 57) -99.8)
- ✓ Efficacy against asymptomatic disease: 63.6% (95) CI: 29.0 - 82.4)
- ✓ Safety outcomes: 12.4% reported adverse events (AE) in vaccine or placebo arms (p<0.05)
 - Most frequently reported systemic AEs included headache, followed by pyrexia, fatigue and myalgia
 - Serious AEs were reported by <0.5% of clinical trial participants
- ✓ Demonstrated Efficacy against B.1.617.2 (Delta): **65.2**% (95% CI: 33.1 – 83.0)
 - First Phase 3 clinical trial to include Delta variant data

Source: Efficacy, safety, and lot to lot immunogenicity of an inactivated SARS-CoV-2 vaccine (BBV152): a, double-blind, randomised, controlled phase 3 trial Ella, Reddy, Blackwelder, Potdar, et al.; medRxiv 2021.06.30.21259439; accessed July 7, 2021





Phase 3: Study Outline



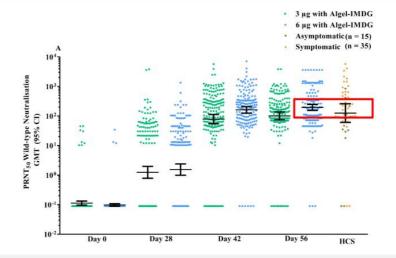


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Phase 2: Study Results

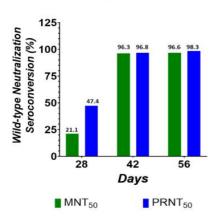
- 6μg +Algel-IMDG demonstrated high neutralizing Abs responses compared to 3μg + Algel-IMDG grou
- Mean GMT (95% CI) higher than human convalescent serum (HCS)
- 6µg +Algel-IMDG (Covaxin™) selected for Phase 3 study

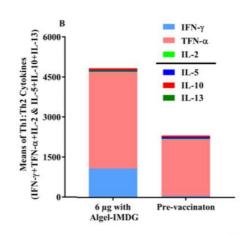






Phase 2: Study Results





Safety

Events	Rate (%)	(
Local	4.2% (1.8, 8.1)	
Systemic	7.4% (4.1, 12.1)	
Serious	0%	
Combined	10.3% (7.4, 13.8)	9

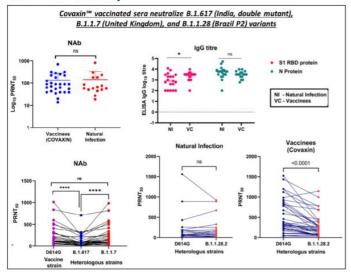
- High Seroconversion rates (>96%) in both MNT50 and PRNT50 measured up to day 56
- Induction of Th1 cell mediated immunity as measured by IFN-y, IL-2, TNF- α
- No vaccine-related severe or I threatening adverse events reported to date





Additional Research Demonstrating Effect Against Multiple Variants

 COVAXIN-vaccinated sera effectively neutralized several SARS-CoV-2 variants in an in-vitro plaque reduction neutralization assay



- ✓ B.1.617 (India Kappa)
- ✓ B.1.1.7 (United Kingdom Alpha)
- √ B.1.1.28 (Brazil P2 Zeta)
- The study was conducted by Indian Council of Medical Research (ICMR)-National Institute of Virology
- These studies suggest that COVAXIN vaccination may be effective against multiple SARS-CoV-2 variants.





Ocugen's Modifier Gene Therapy Platform

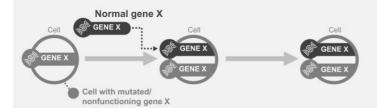
Breakthrough Technology Designed to

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

19

Traditional Approach vs. Ocugen's Novel Platform

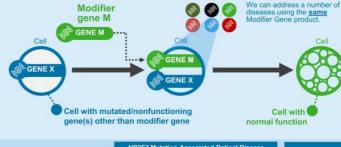
Gene Augmentation: Transfer functional version of a non-functional gene into the target cells.

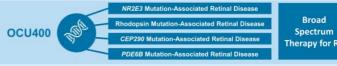




- ✓ Traditional approach that targets one individual gene mutation at a time.
- Regulatory pathway focused on specific product for one disease
- Longer time to recoup development costs

Modifier Gene Therapy: Introduce a functional gene to modify the expression of many genes, gene-networks and regulate basic biological processes in retina





- Novel approach that targets nuclear hormone genes (NHRs), which regulate multiple functions within the retina
- Smoother regulatory pathway due to ability to target multiple diseases with one
- Ability to recoup development costs over multiple therapeutic indications



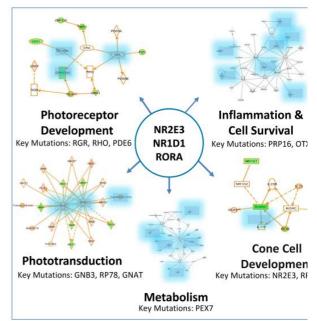
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Broad

Spectrum

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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* References: https://pubmed.ncbi.nlm.nlh.gov/28556246/ https://www.ncbi.nlm.nlh.gov/pmc/articles/PMC5409218/ https://www.ncbi.nlm.nlh.gov/pmc/articles/PMC4339951/ https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0183526



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 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



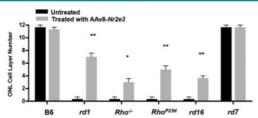
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natureresearch https://www.nature.com/articles/s41434-020-0134-z



OCU400 - Rescue in Early & Advanced Stage of Disease



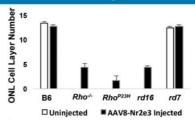


- P0 single subretinal injection, evaluation 3-4 months post injection
- · rd1 evaluated one-month post injection

ONL: Outer Nuclear Layer



Advanced Stage Rescue



- P21 subretinal injection, evaluation 2–3 months post injection
- Restored ONL photoreceptors morphology in rd7
- ONL cell layer change in rd7 model doesn't progress until 4-5 mos. of age

 Fundus images and ONL count show how single product recuses vision in multiple mutations



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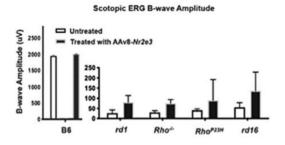
natureresearch

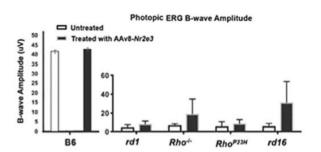
https://www.nature.com/articles/s41434-020-0134-z



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: P0 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 functions primarily due to cone cells in the eye
- Mesopic vision: A combination of photopic vision and scotopic vision in low lighting, which functions due to a combination of roc and cone cells in the eye
- Scotopic vision: Monochromatic vision in very low light, which functions primarily due to rod cells in the eye

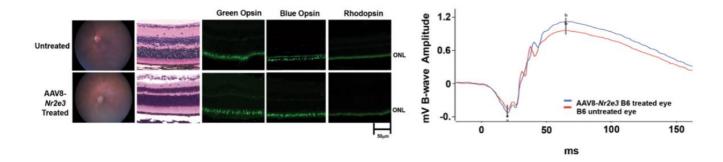






OCU400 – Demonstrated Safety in Mouse Model

Study Results Confirm Overexpression of Nr2e3 by subretinal AAV8-Nr2e3 Injection Is Not Detrimental to Retina – No Off-Target Effects



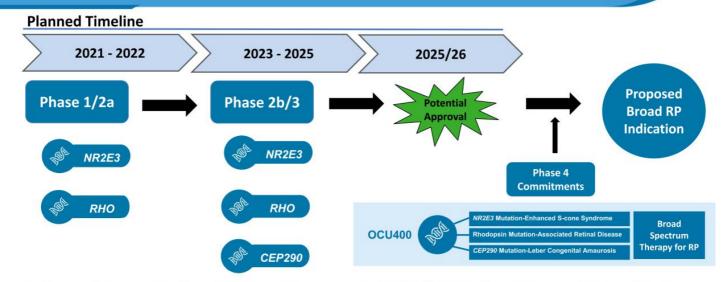


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natureresearch https://www.nature.com/articles/s41434-020-0134-z



OCU400 - Clinical and Regulatory Strategy



- > Successfully completed manufacturing at commercial scale (200L) at CanSinoBio to support clinical studies
- Preclinical tox studies in-progress
- On target to file IND in 2H21





OCU400 – Competitive Overview

	OCU400	Traditional Gene Therapy	Cell Therapy
Features	ocugen	Roche Biogen MEIRAGE SANOFI	≫astellas jCyte ReNeuron
One product for many IRDs (including broad RP indication)		8	Limited
Technology established in the ocular disease space			×
POC data in RP models with different genetic mutations		8	8
Expected long-term outcome	Potentially longer benefit due to promotion of homeostasis	Potentially limited due to loss of retinal cells over time	Not established
Target Patient Population	Large	Small (specific to mutation)	Variable
Developmental cost	Low (economies of scale)	High (No economies of scale)	High



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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 Age-Related Macular Degeneration

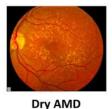
We Believe OCU410 Has the Potential to Address this Disease through its Multi-Factor Approach



Dry AMD

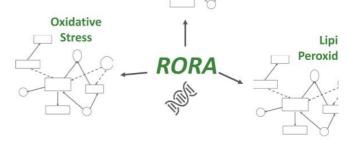
- Leads to irreversible blindness due to degeneration of the retina
- > ~9-10M patients in the U.S.
- Currently no approved treatment for Dry AMD

Normal Retina



Contributing Factors

- Aging
- Genetics
- Environmental Factors



Inflammation

ocugen

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References: https://www.brightfocus.org/macular/article/age-related-macular-facts-figures https://www.uniprot.org/uniprot/P35398ffunction https://pubmed.ncbi.nlm.nih.gov/21998696/ https://pubmed.ncbi.nlm.nih.gov/19780043/



OCU200:

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

Novel Biologic Offering Benefits Beyond Anti-VEGF

29

OCU200 - Potential to Treat DME, DR & Wet AMD

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

DME → ~0.7M patients in the US*

DR → ~7.7M patients in the US*

Wet AMD → ~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 neovascularizatio
- 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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(*) https://www.gene.com/stories/retinal-diseases-fact-sheet https://www.brightfocus.org/macular/article/age-related-macular-facts-figures



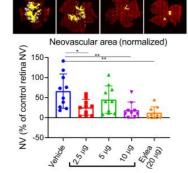
OCU200 – Transferrin-Tumstatin Fusion Protein

OCU200 Demonstrated Superior Efficacy Compared to Existing Anti-VEGF Therapies

Inhibits new blood vessel formation

- Anti-inflammatory
- Anti-oxidative

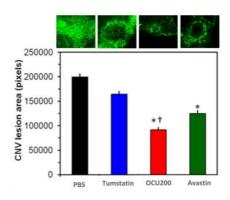
DME/DR Oxygen-Induced Retinopathy (OIR) Mouse Model



Effect of OCU200 intravitreal treatments on Neovascularization (NV). Data are presented as mean± SD. Filled circles represent data points from individual eyes

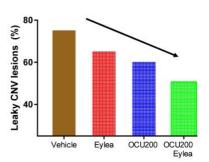
* P < 0.05, ** P < 0.01 (n = 9-10 eyes per group)

Wet AMD In-Vivo Laser-Induced Rat CNV Model



- * indicates p<0.05 when compared to PBS and/or
- tumstatin treatment † indicates p<0.05 when compared to Avastin; CNV lesions measured on day 14 after treatment

Wet AMD In-Vivo Laser-Induced Mouse CNV Moc



Data expressed as percentage of CNV lesions on Da 10 after treatment. Laser induction & treatment sta on Day 0





OCU200 – Distinct Mechanism of Action

We believe OCU200 has the potential to become a disease modifying therapeutic for broader patient population

Features	OCU200	Anti-VEGF	Anti-Integrin
	ocugen	Genentech ^{III} NOVARTIS ^{III} REGENERON ^{III} KODIAK	SASCLEPIX Allegro
Reduces VEGF level/Fluid			
Selectively works on active endothelial cells (Neovascular)		8	\bigcirc
Activates native anti-angiogenic response		×	
Enhanced effective delivery through Transferrin		×	×
Pro-apoptotic and anti-oxidative		8	
Dosing Frequency	Expected once in 3 months	1-3 months	1-3 months



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Potential Competitors pursuing treatment using Anti-VEGF approach

Potential Competitors pursuing treatment using Anti-Integrin approach

(1) Approved



Key Inflection Points

- ➤ COVAXIN™ Vaccine candidate for the US and Canadian markets with potential for revenues this year
- Ophthalmology
 - Modifier Gene Therapy Platform has the potential for one product to treat many diseases
 - Novel biologic has the potential to treat anti-VEGF /corticosteroids non-responders (~50% of the patients)
 - Multiple near and mid-term milestones with plan to initiate four Phase 1/2 trials over next 18 months





Our Mission is to

Develop Gene Therapies to Cure Blindness Diseases and

Develop a **Vaccine** to Save Lives from COVID-19

For more information, contact: IR@ocugen.com

