

Unlocking the Pharmaceutical Potential of Cannabinoids

Corporate Presentation

July 2021 • OTCQB: SKYE

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Overview

Biopharmaceutical company developing differentiated, synthetic, proprietary cannabinoid derivatives to treat diseases with significant unmet medical needs

OTCQB: SKYE

Broad patent protection including "composition of matter"

Track record of rapidly advancing preclinical candidates through to human trials and securing strategic pharma partnerships

MILESTONES

Key preclinical data expected H2-21 & first-in-human data in H1-22

NOVEL TECHNOLOGY

Bioengineered, synthetic cannabinoid derivatives designed to significantly enhance therapeutic benefits

COMMERCIAL OPPORTUNITY

\$6.6B+ market opportunity for lead indication, glaucoma

INTELLECTUAL PROPERTY

EXPERIENCED TEAM

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Glaucoma is the leading cause of irreversible blindness

Glaucoma is a disease that leads to the progressive damage of retinal ganglion cells, which make up the optic nerve, and without intervention will gradually lead to irreversible blindness



Healthy Vision

Early Glaucoma

Advanced Glaucoma



Large & growing patient population

78M

Current Glaucoma Patients

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\$6.6B current global market and expected to reach \$11B by 2027 with a growing aging population (CAGR 6.6%)

100M

2040 Predicted Glaucoma Patients

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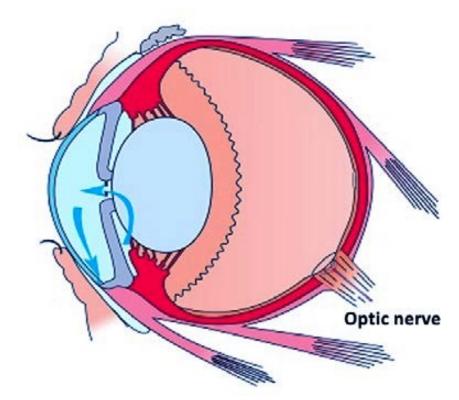
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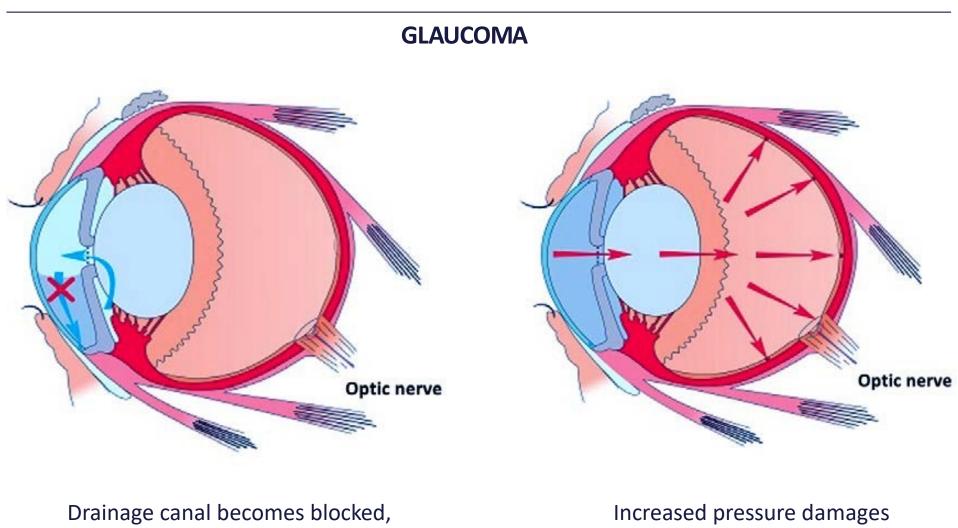
A common trait of glaucoma involves increased pressure in the eye - intraocular pressure (IOP)

HEALTHY

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Production/drainage of aqueous humor (fluid) balanced



fluid builds up and leads to increased pressure

optic nerve cells, resulting in vision loss

Current therapies leave notable unmet needs

		Generic
er to	Prostaglandins	Latanopr
	β-Adrenergic Blockers	Timolol
ave poor	α-Adrenergic Blockers	Brimonid
rugs, can	Carbonic Anhydrase Inhibitors	Dorzolam
pliance	Cholinergic Agonists	Pilocarpir
tunity	Rho-kinase inhibitors	Netarsud
	Nitric oxide-donating prostaglandin analogue	Latanopr bunod
	FC rho-kinase inhibitor/latanoprost	Netarsud latanopro

• Current drugs aim to lower IOP in orde slow disease progression • Many patients are non-responders, have response, or develop tolerance • >50% of patients require 2 or more dr increase side effects and reduce com

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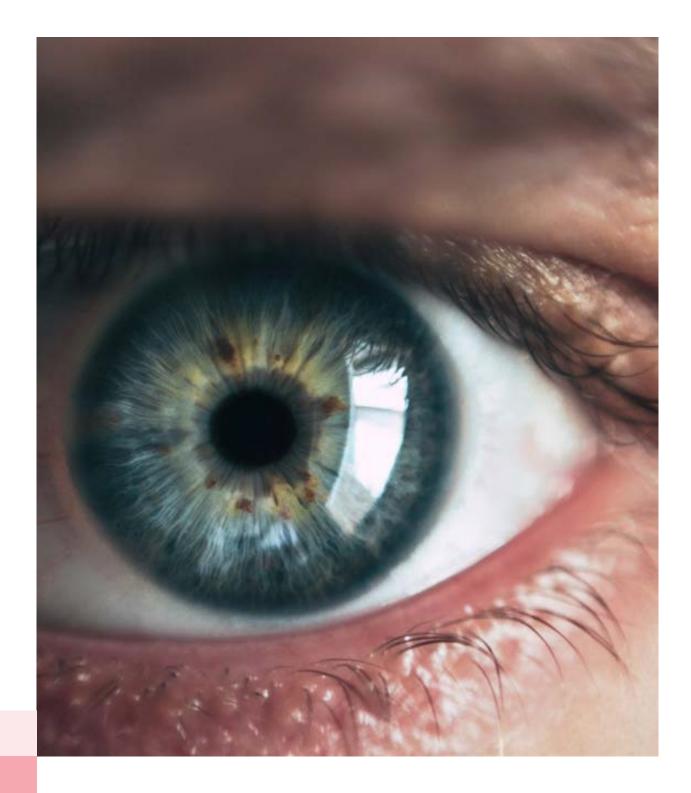
• Lack of innovation, presents an opport and need for new classes of therapy

c Example	IOP Reduction	MC	A	Potential Side Effects
prost	30-35%	个 Outflow		irritation, redness, blurred vision, dry eyes, light sensitivity, headaches, eyelash changes, browning of iris
	20-25%		\downarrow Production	irritation, dry eyes, headache, slowed heart rate
idine	20-25%	个 Outflow		irritation, redness, blurred vision, dry eyes, light sensitivity, fatigue, headaches, nausea, insomnia
mide	20-25%			irritation, redness, blurred vision, dry eyes, light sensitivity, fatigue, headaches
oine	20-25%	个 Outflow		irritation, blurred vision, poor vision in dim light, headaches
ıdil	16–21%	个 Outflow	\downarrow Production	irritation, redness, corneal deposits, broken blood vessels
prostene	32–34%	个 Outflow		Irritation, redness, discharge, pain, eyelash changes
ıdil/ rost	30–36%	个 Outflow	\downarrow Production	irritation, redness, corneal deposits, broken blood vessels

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Relevance of THC to glaucoma

- Cannabinoid receptors throughout the body play an important role in managing many vital body functions
- Eye is rich with cannabinoid receptors, specifically in tissues involved in managing fluid production and drainage as well as cells responsible for vision
- THC and the CB1 receptor, specifically, have been shown to be involved in IOP lowering activity
- First report that smoking cannabis lowers IOP appeared in early 1970s
- Multiple human studies have validated THC's ability to lower IOP



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Multiple independent studies have demonstrated THC's ability to lower IOP

Table 1

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Studies using cannabinoids in human subjects to lower intraocular pressure (IOP).

Subjects	Administration route
15 Male, 18–30 years old	smoking marijuana (12 mg Δ^9 -TH
10 healthy volunteers, 20–30 years old	0.022 or 0.044 mg/kg of Δ^9 -THC intravenously
256 glaucomatous patients	smoking marijuana (1–4% Δ^9 -THC 20 mg oral Δ^9 -THC
A 23-year-old male (suffers of HPPD), 4 young subjects (control), 23–28 years old	smoking marijuana
9 patients with end-stage open angle glaucoma, 38–77 years old	smoking marijuana or oral Δ^9 -TH capsules
6 patients with ocular hypertension or early primary open angle glaucoma	single sublingual preparation (5 m THC or 20 and 40 mg CBD)
8 patients with glaucoma resistant to conventional treatments, 53–72 years old	topical application of WIN55212-2
18 patients suffers of glaucoma	single oral dose of nabilone (0.5 m
32 patients suffers of glaucoma	BW29Y (5 or 10 mg) or BWI46Y (4 12 mg)

HPPD: Hallucinogen persisting perception disorder; IOP: intraocular pressure; Δ^9 -TH BWI46Y: synthetic cannabinoids.

Y. Panahi et al. / Biomedicine & Pharmacotherapy 86 (2017) 620–627

	Observations	Ref.
C)	significant IOP decrease after 80 min, more frequent users showed lower or no IOP drop	[74]
<	IOP decrease in 9 patients with low dose and all subjects with high dose	[75]
) or 5–	most patients showed IOP reduction, additive effect was seen with conventional glaucoma drugs	[76]
	HPPD in patient, no change in the controls	[77]
с 🤇	lower IOP, development of tolerance and significant systemic toxicity that limit the usefulness	[78]
ng Δ^9 -	significant IOP decrease by Δ^9 -THC, 40 mg CBD produced a transient IOP increase, no significant side effect	[79]
	(IOP decreased directly through CB1	[80]
ng)	10P decreased by 27.9%, 2–6 h after administration, no visual side effect	[81]
4, 8, or	BW29Y: ineffective, BWI46Y: IOP drop, lightheaded, dizzy, disorientation, blood pressure drop	[82]

Challenges to THC as an effective treatment of glaucoma

Systemic Delivery

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- Requires relatively high dose to achieve therapeutic effect in the eye
- Variable pharmacokinetics and pharmacodynamics
- Poor oral bioavailability when ingested (<10% due to poor absorption)
- Limited duration of effect when inhaled/ smoked (<90 min)
- Systemic side effects psychoactive effect (high from THC); detrimental drops in blood pressure

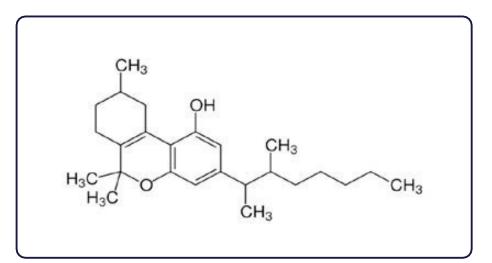
Local Delivery

- THC is lipophilic challenging to deliver into and penetrate aqueous tissue, like the eye
- Oil and water don't mix!

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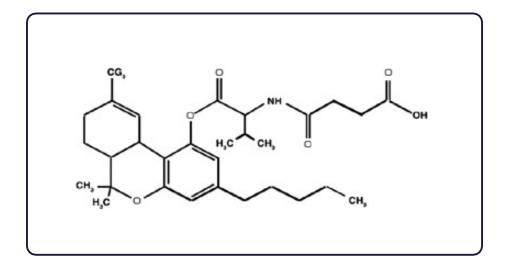
SKYE's approach unlocks therapeutic value of THC

- Rational drug design and bioengineering used to develop a synthetic prodrug of THC, called THCVHS
- Valine-hemi-succinate amide ester (VHS) addition to THC enhances aqueous solubility and polarity characteristics, enabling significantly improved local delivery into the eye and avoiding systemic effects



THC

- Inside the eye, THCVHS is converted back into THC by enzymes that cleave VHS arm of the molecule
- THCVHS is a proprietary molecule with composition of matter patents providing intellectual property protection that is instrumental to value creation



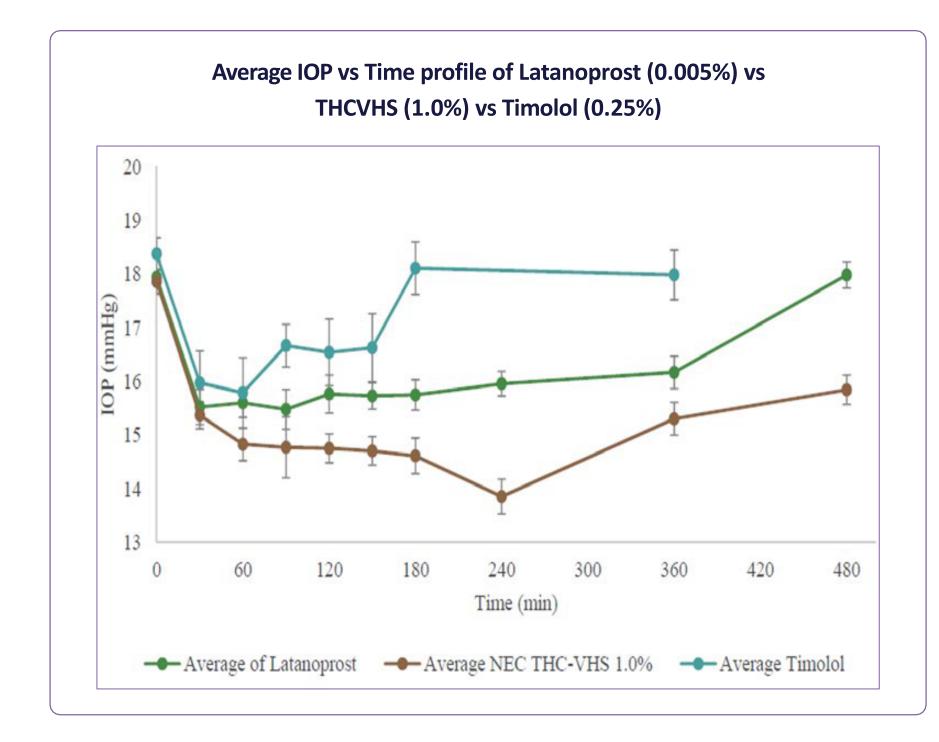
THCVHS

THCVHS lowers IOP better than both market leaders

In a preclinical model using New Zealand white rabbits:

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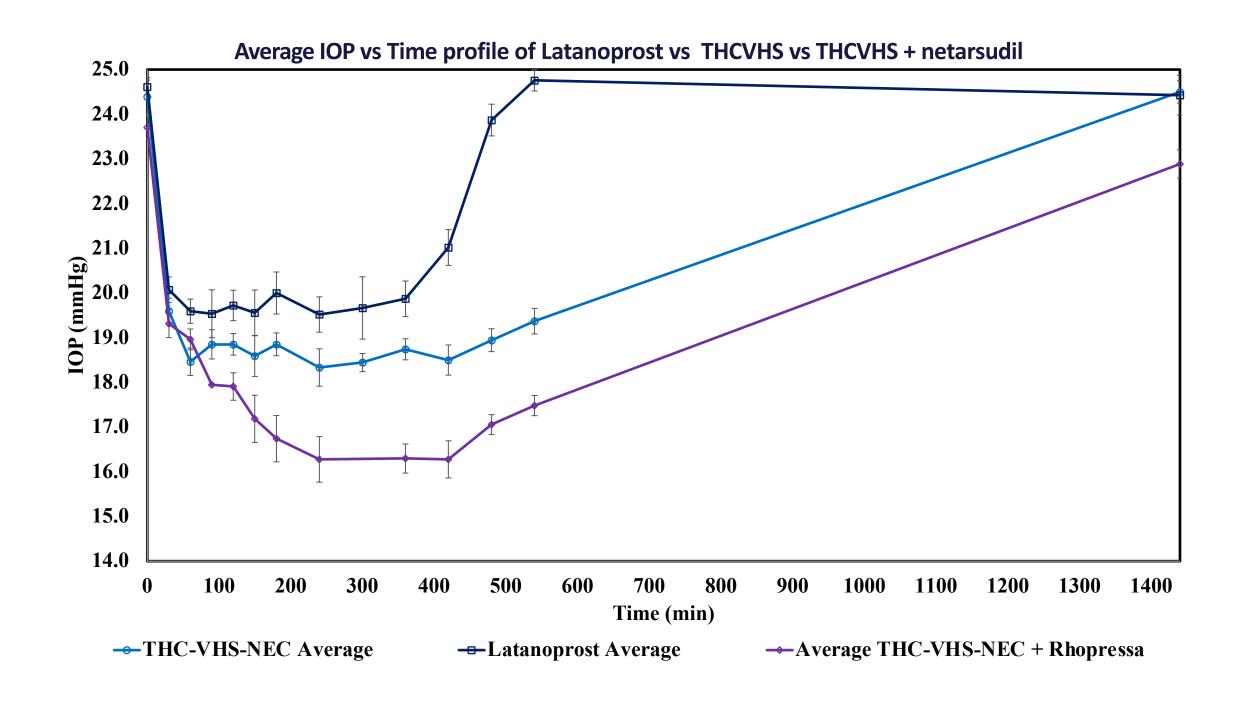
- THCVHS demonstrates superior decline in IOP versus latanoprost and timolol
- THCVHS demonstrates superior duration of response



THCVHS can be combined to enhance effects

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In a preclinical model using Dutch Belted pigmented rabbits:
THCVHS alone demonstrates superior IOP-lowering and duration vs lantanoprost
THCVHS with netarsudil further enhances IOP-lowering and duration of effect



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Multi-factorial mechanism of action

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- In an *ex vivo* model of human trabecular meshwork, the tissues responsible for fluid drainage, THC significantly lowered pressure and increased drainage in both healthy and diseased tissue
- THC treatment also significantly reduced markers of fibrosis and inflammation, which are associated with glaucoma
- IOP-lowering capability of THC may be multi-factorial, including anti-inflammatory and anti-fibrotic responses
- Potentially a new class of treatment with therapeutic attributes distinct from existing IOP-lowering drugs

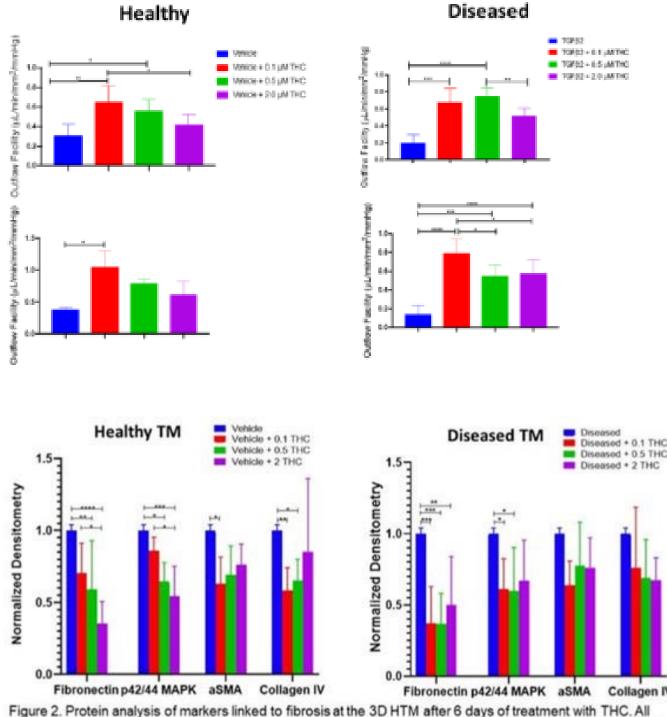


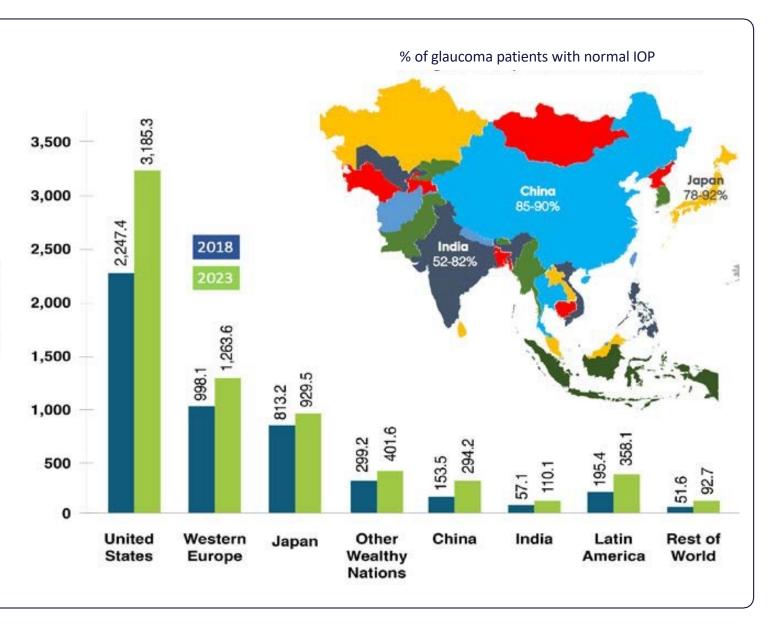
Figure 2. Protein analysis of markers linked to fibrosis at the 3D HTM after 6 days of treatment with THC. All samples of three donors were analyzed using Two-way ANOVA ****P<0.0001, ***P<0.001, **P<0.01, *P<0.05, N > 4 per donor.

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Not all glaucoma patients have elevated IOP

- Large proportion of glaucoma patients present with normal IOP, but still suffer progressive damage to optic nerve cells and vision loss
- Not clear what causes **neurodegeneration** of optic nerve in these patients
- A disproportionate number of patients have normal IOP levels in Asian countries
- Estimated that ≥ 1/3 of all glaucoma patients globally have normal IOP
- Significant unmet need and tremendous market opportunity for a neuroprotective drug



Cannabinoids demonstrate neuroprotection

• Multiple studies, in different animal species & models, of glaucoma have demonstrated ability of cannabinoids to promote health and survival of optic nerve cells

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• Optic nerve injury model in rats planned to initiate in Q2-21 to validate neuroprotection properties of THCVHS

Drug	Delivery	Study	Model	Neuroprotective effect versus vehicle (treatment versus control)
ТНС	IP	Crandall et al., 2007 [68]	Episcleral vein cauterization	~20-40% increase (10-20% loss)
THC	IV	El-Remessy et al., 2003 [69]	Intravitreal NMDA	~9% of vehicle*
CBD	IV	El-Remessy et al., 2003 [69]	Intravitreal NMDA	~4% of vehicle*
WIN 55,212-2	Topical	Pinar-Sueiro et al., 2013 [70]	Ischemia-reperfusion (high IOP)	9.88% increase (2.45% loss)
MetAEA	IVit	Nucci et al., 2007 [44]	Ischemia-reperfusion (high IOP)	18.6% increase (9.4% loss)
URB597	IP	Nucci et al., 2007 [44]	Ischemia-reperfusion (high IOP)	15.1% increase (12.9% loss)
URB597	IP	Slusar et al., 2013 [71]	Axotomy	1 week, 19.5% increase (27.9% loss) 2 weeks, 22.7% increase (58.9% loss)
Celecoxib	IP	Sakai et al., 2009 [72]	Ischemia-reperfusion (high IOP)	25.8% increase (39.1% loss)
SC-58236	IP	Ju et al., 2003 [45]	Ischemia-reperfusion (high IOP)	Central, 28.4% increase (27.3% loss) Peripheral, 28% increase (26.8% loss)

Elizabeth A. Cairns, William H. Baldridge, Melanie E. M. Kelly, "The Endocannabinoid System as a Therapeutic Target in Glaucoma", *Neural Plasticity*, vol. 2016, Article ID 9364091, 10 pages, 2016. https://doi.org/10.1155/2016/9364091

Positioned for value creation

First human trial will be fast, low cost, and include assessment of intraocular pressure

H1 2021

✓ Initiate preclinical studies for CBDVHS

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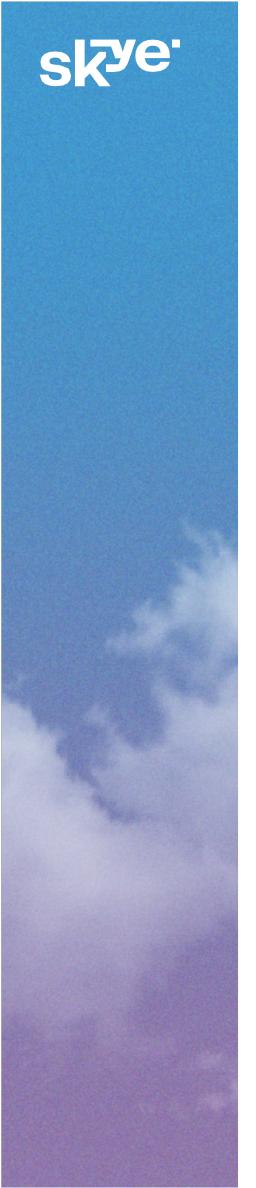
- ✓ Preclinical combination study of THCVHS with netarsudil & latanoprost
- ✓ Complete CMC & GLP manufacturing of THCVHS
- ✓ Complete genotoxicity study for THCVHS
- Initiate preclinical neuroprotection study of THCVHS with optic nerve crush model

H2 2021

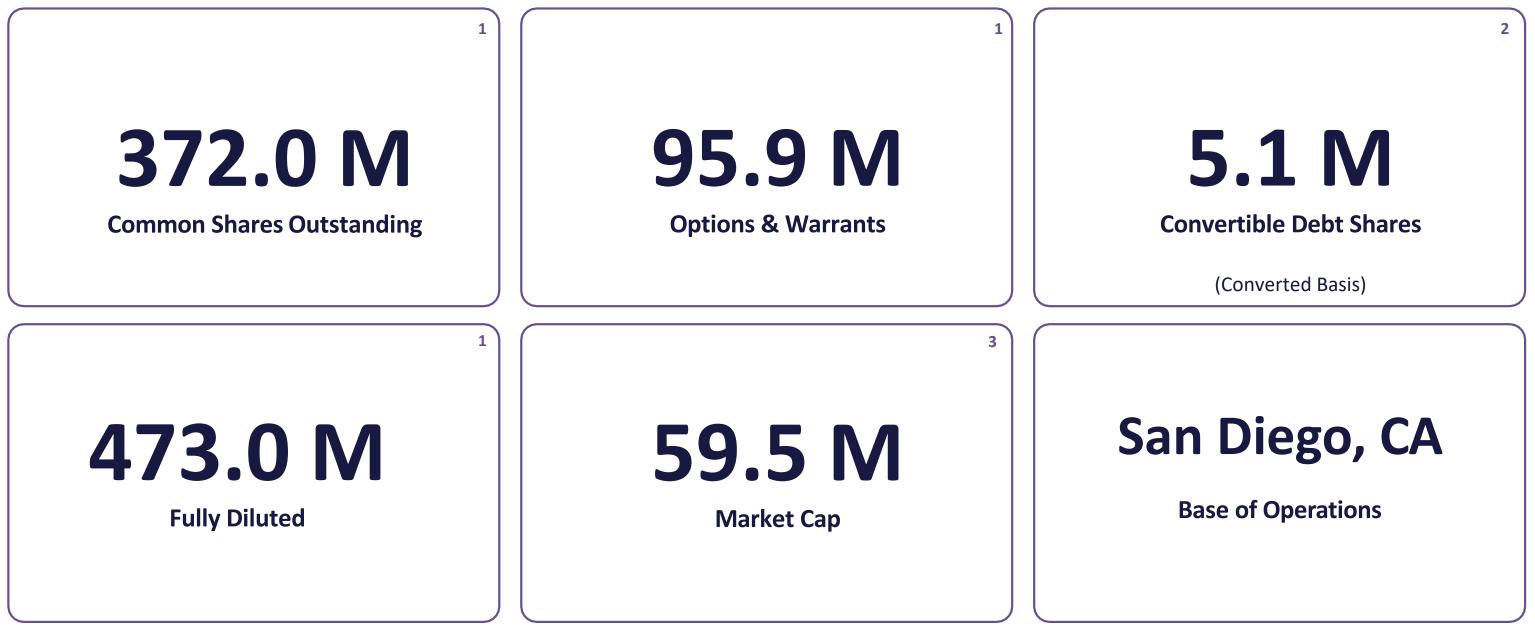
- Complete GMP manufacturing of THCVHS
- Complete GLP toxicology of THCVHS
- Approval from Australian ethics board
- Submission of CTN to Australian TGA
- Initiate Phase 1 study of THCVHS Establish clinical development plan
- of CBDVHS

H1 2022

- Phase 1 data for THCVHS
- FDA pre-IND meeting for THCVHS
- FDA IND submission for THCVHS



Capitalization



1 Based on 10Q filed 21/05/07

2 Based on principal balance and accrued interest outstanding as of 21/03/31 on multi-draw credit facility which is convertible at \$.40 per share

3 Based on 21/06/28 OTCQB closing price of \$0.16

Management: Focused on delivering near-term data outcomes

Punit Dhillon

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Chief Executive Officer

- Co-founded and led OncoSec Medical, a cancer immunotherapy company, through early development and a partnership with Merck to launch Phase 2/3 multi-center trial; raised over \$200M
- VP Finance and Operations, Inovio Pharmaceuticals: helped raise more than \$160M

Richard Janney

Principal Accounting Officer

- 30 years of business experience and served as a Vice President to CFO on multiple companies in a wide range of industries both public and private, domestic and international
- Previously operated consulting firm scaling start-ups to mid-size companies, offering financial services across an array of industries including software and medical devices

Karam Takhar

VP, Corporate Development & Investor Relations

- Life sciences executive with over 15 years experience in research, project management, operations, finance, business development, sales and investor relations
- Previously held with various leadership roles at Emerald Health Science, Promega Corporation and Stemcell Technologies

Tu Diep, MSc

Sr Vice President, Development

- Senior leaderships positions at Element Biosciences, Emerald Health Science, **OncoSec Medical and Protox Therapeutics**
- Over 15 years experience in research, clinical and strategic operations, business process, CMC, regulatory affairs, and business development

Tom Kim, Esq

General Counsel & Director of IP

- Previously SVP and Corporate Secretary for Inovio Pharmaceuticals built global patent portfolio, led M&A transactions, closed license and partnering deals with large pharma
- Practiced law at large firms and Fortune 100 companies, eg. Monsanto and DuPont. 20 years experience counseling biotech companies

Board Directors & Advisors Offer Expert Guidance

Eminent experts in cannabinoid science, ophthalmology, research, and development

Board of Director

Punit Dhillon

Chair

Former co-founder, CEO, and director of OncoSec Medical. Experienced in finance, M&A, licensing, strategy implementation, and collaborations with industry and academic partners

James Heppell, Esq

Director

Former founder, CEO, director of BC Advantage Life Sciences venture fund. Director of multiple life science companies. Extensive experience in corporate finance law

Margaret Dalesandro, PhD

Director

25+ years drug development experience in pharmaceutical, biotechnology and diagnostics industries. Currently President of Brecon Pharma Consulting

Clinical Advisors

Robert Ritch, MD

Professor of Ophthalmology, Mt. Sinai

Shelley and Steven Einhorn Distinguished Professor of Ophthalmology; Surgeon Director Emeritus and Chief, Glaucoma Services, The New York Eye & Ear Infirmary; Professor of Ophthalmology, The New York Medical College

Jeffery Goldberg, MD, PhD

Professor of Ophthalmology, Stanford

Professor and Chair of Ophthalmology and Director of Spencer Center for Vision Research at Byers Eye Institute, Stanford University

Louis Pasquale, MD

Professor of Ophthalmology, Mt. Sinai

Professor Ophthalmology, Icahn School of Medicine, Chair, Department of Ophthalmology, Vice Chair of Translational Ophthalmology Research, Mount Sinai Healthcare System

Scientific Advisors

Giovanni Appendino, PhD

Professor of Organic Chemistry, U.Piedmont

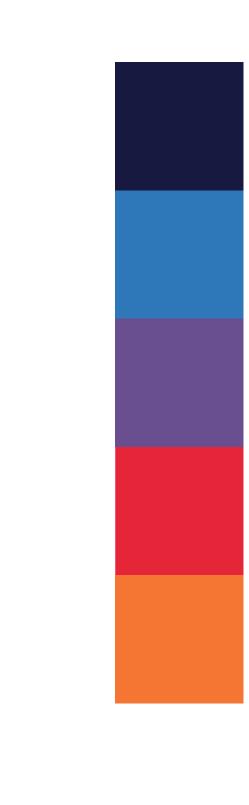
Over 40 years of research in natural products, leading to the discovery and isolation of over 200 novel compounds, including novel cannabinoids and chemistry for cannabinoid-derived molecules

Eduardo Muñoz, MD, PhD

Professor of Immunology, U.Córdoba

Over 30 years of experience in biomedical research, focused on cannabinoids, pharmacology, and inflammation, providing deep expertise in the mechanism of actions of cannabinoids and the development of novel cannabinoid-derived molecules





Unique competitive position

Demonstrated greater IOP lowering than market-leading glaucoma therapeutics Potential neuroprotection capabilities would be a game changer Key preclinical data (IOP/neuroprotection) in Q2-21 First clinical trial: fast; low-cost; will include assessment of intraocular pressure

Many glaucoma licensing deals have been completed in phase 2 or earlier



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