

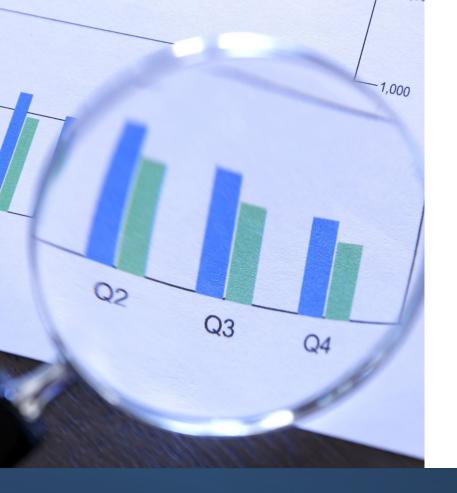
IGCPHARMA

February 2024.

NYSE American: IGC

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The matters discussed in this presentation include forward-looking statements about the business prospects of IGC Pharma, Inc. Forward-looking statements are often preceded by words such as believes, expects, anticipates, plans, will, goal, may, intends, assumes, or similar expressions. Forward-looking statements reflect management's current expectations as of the date of this conference call and involve certain risks and uncertainties. The forward-looking statements are based on assumptions that we have made in light of our industry experience and our perceptions of historical trends, current conditions, expected future developments, and other factors that we believe are appropriate under these circumstances.

As with any projection or forecast, they are inherently susceptible to uncertainty and changes in circumstances. IGC Pharma, Inc.'s actual results could differ materially from those anticipated in these forward-looking statements as a result of various factors and the forward-looking statements are not guarantees of performance. Some of the factors that could cause future results to materially differ from recent results or those projected in forward-looking statements are included in our filings with the Securities and Exchange Commission (the "SEC"), such as our Annual Report on form 10-K filed with the SEC on on July 7, 2023, and subsequent filings on Form 10Q. We are under no obligation and expressly disclaim any obligation to update or alter the forward-looking statements, whether as a result of such changes, new information, subsequent events, or otherwise.

SAFE HARBOR

COMPANY OVERVIEW



- Our focus is treating Alzheimer's disease (AD) through our growing pipeline of five drug assets
- Lead therapeutic candidate IGC-AD1 is currently in a 146-person Phase 2b trial for agitation in dementia due to Alzheimer's. IGC-AD1 is a CB1r partial agonist that reduces neuroinflammation and restores neurotransmitter imbalance
- TGR-63 and three other candidates have demonstrated in Alzheimer's cell lines the potential to ameliorate plaques and/or tangles, two hallmarks of Alzheimer's

ALZHEIMER'S DISEASE

1in 9 65+ yrs.

Americans with Alzheimer's in 2023¹

6.7 million

Americans with Alzheimer's age (65+) in 2023¹

13.8 Million

Americans with Alzheimer's by 2050¹

\$1 Trillion

Expected total expenses for Alzheimer's and other dementias by 2050²

The global number of persons with AD dementia, prodromal AD, and preclinical AD were estimated at:

- AD dementia: 32 million.
- Prodromal AD: 69 million.
- Preclinical AD: 315 million.

Together they constitute:

- 416 million across the AD continuum
- Or **22%** of all persons aged 50 and above²

References: (1) Alzheimer's Association 2023 Alzheimer's Disease Facts and Figures. (2) Economic Burden of Alzheimer Disease and Managed Care Considerations, Winston Wong, 2017

References: (2) Alzheimer's Association 2022 Global estimates on the number of persons across the Alzheimer's disease continuum, Gustavsson & Others, 2022, https://alz-journals.onlinelibrary.wiley.com/doi/10.1002/alz.12694



INVESTMENT HIGHLIGHTS

Two Patented and three patent pending investigational drug candidates targeting Alzheimer's

All showing favorable pre-clinical attributes towards Alzheimer's disease pathology

IGC-AD1 is currently in Phase 2B with data milestones expected in mid-2024

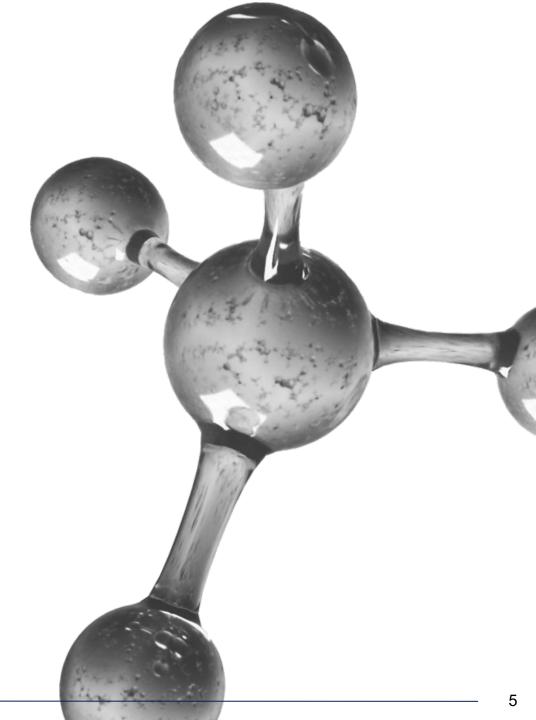
Leading artificial intelligence partnerships

Manufacturing and production facilities

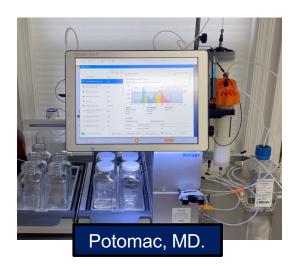
Clean capital structure

Manufacturing and production facilities

CLEAN CAPITAL STRUCTURE



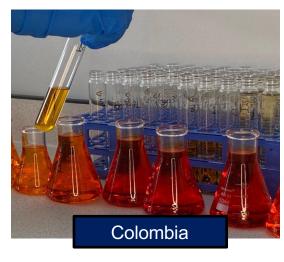
VERTICALLY INTEGRATED OPERATIONS



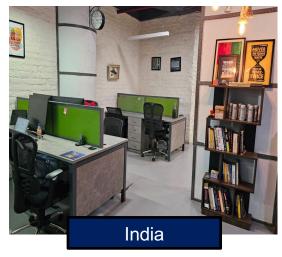
Headquarters



cGMP Manufacturing and Processing facility



Licensed R&D facilities



Analytics

Constructed Significant Operational Barriers to Entry

- Approved licenses
- Phase 3-ready manufacturing facilities
- Facilities for potential commercialization

- Licensed access to raw APIs
- Licensed access to purification
- State-of-the-art distillation facilities

AD PIPELINE OVERVIEW

ASSET	PRECLINICAL	PHASE 1	PHASE 2	PHASE 3	MILESTONE	
IGC-AD1	TARGETS neuroinflammation, neurotransmitter imbalance, inflammasome-3 and AD pathology				Interim Topline data Second half 2024	
TGR-63	TARGETS Aβ PLAQUES (Early- Moderate Stage				Tox study 2024	
LMP	TARGETS neuroinflammation, neurotransmitter imbalance, inflammasome-3 and AD pathology			Bio Equivalence to IGC-AD1 2025		
IGC-M3	TARGETS Aβ PLAQUE AGGREGATION (Early Alzheimer's)				Tox study 2024	
IGC-1C	TARGETS TAU AND NEUROFIBRILLARY TANGLES			Tox study 2025		
(SIGCPHARMA	-				7	



AGITATION IN ALZHEIMER'S

Agitation: excessive motor activity, verbal aggression, or physical aggression that is severe enough to impair personal relationships, social functioning, and/or daily activities¹.

Agitation starts early in AD and increases in severity as the disease progresses².

76% of Alzheimer's patients suffer from agitation³

Agitation is associated with4:

- Higher admission rate to assisted living facilities
- Higher use of medications
- Long-term hospitalization
- Higher mortality
- In 2023 the FDA-approved Brex (Brexpiprazole) to treat agitation in AD dementia - a repurposed atypical anti-psychotic with a black box warning



OUR SOLUTION

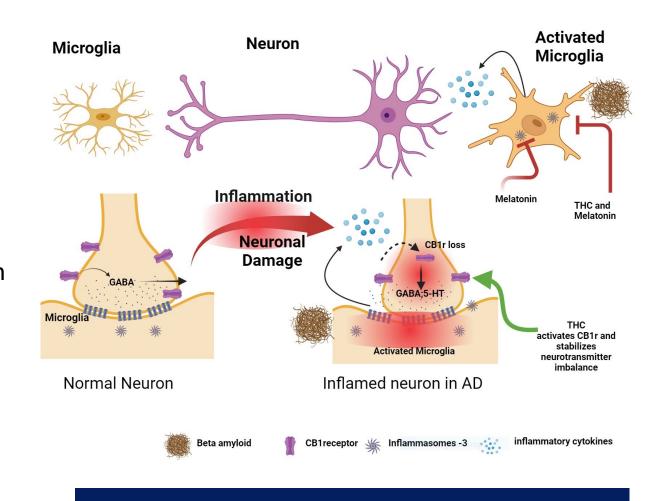
The Promise of IGC-AD1

Two APIs that target 1) neuroinflammation, 2) neurotransmitter imbalance, 3) CB1r agonism and 4) inflammasome-3, all implicated in agitation in AD

IGC-AD1 can potentially reduce agitation, and act on AD pathology (plaques, tangles) making it a significantly more powerful alternative

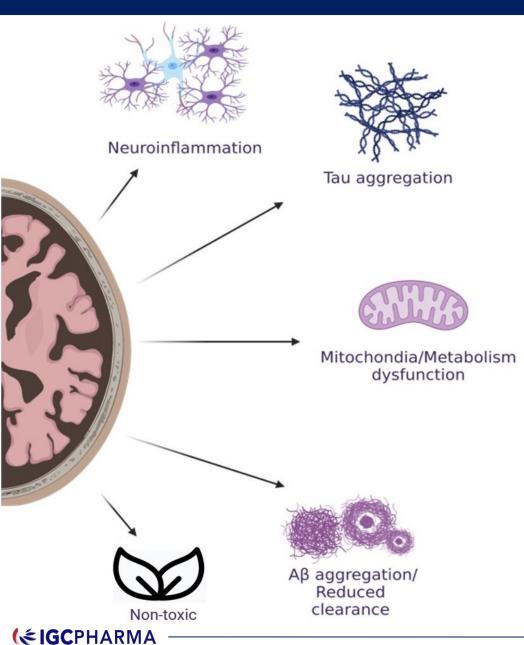
A patent-protected compound in **Phase 2B** trials that targets agitation in Alzheimer's

IGC-AD1 would be a treatment option that is **not an antipsychotic with a black box warning**



IGC-AD1 contains two APIs that are safer than traditional antipsychotic therapies.

DATA FROM PRECLINICAL TRIAL



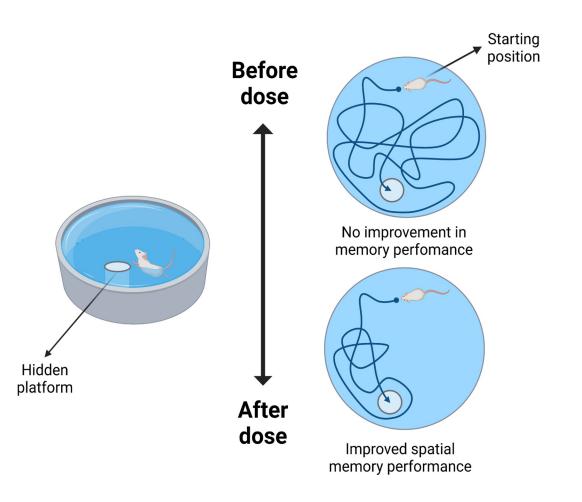
RESULTS ON ALZHEIMER'S CELL LINES

Reduces two key hallmarks of Alzheimer's plaques and tangles (pTau):

- Inhibits the aggregation of amyloid plaque
- Reduces phosphorylated tau (pTau)
- Enhances mitochondrial function
- Non-toxic. Repeated low dosing over 48 hours is non-toxic

J. Pineal. Res. 2011, 51, 75-86; J. Alzheimer's disease 2014, 42, 973-984; Int. J. Mol. Sci. 2022, 23, 2757; Int. J. Mol. Sci. 2022, 23, 4253

PRECLINICAL DATA: ANIMAL MODEL



MEMORY IMPROVED IN AD (APP/PS1) MOUSE MODEL

IGC- AD1 significantly **improved times** and **fewer errors in a Morris Water Maze** test than those in the control group in an Alzheimer's mouse model

- The maze uses spatial cues for mice to navigate a swimming container full of stained water and find a safe platform.¹
- The memory task is assessed in multiple trials to measure how well the mouse finds the platform.¹

IGC-AD1 PHASE I CLINICAL TRIAL, DATA

Multiple Ascending Dose (MAD) study to evaluate safety and tolerability of IGC-AD1 in participants with AD & NPS (Neuropsychiatric Symptoms) using the NPI (Neuropsychiatric Inventory)



Safety, Tolerability, Agitation, NPS



No life-threatening or serious adverse events at any dosing level



Decrease in agitation by 36% - 66% depending on dosage (NPI agitation scale)

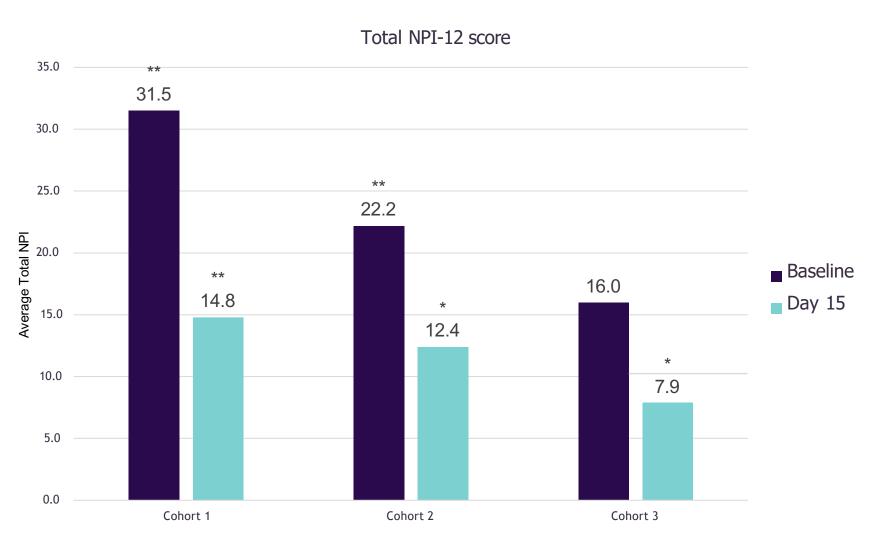


Decrease in depression by 67% - 75% depending on dosage (NPI depression scale)



Phase 1 findings show IGC-AD1 has potential to treat NPS in AD

DATA ON NEUROPSYCHIATRIC SYMPTOMS MEASURED BY NPI SCORES

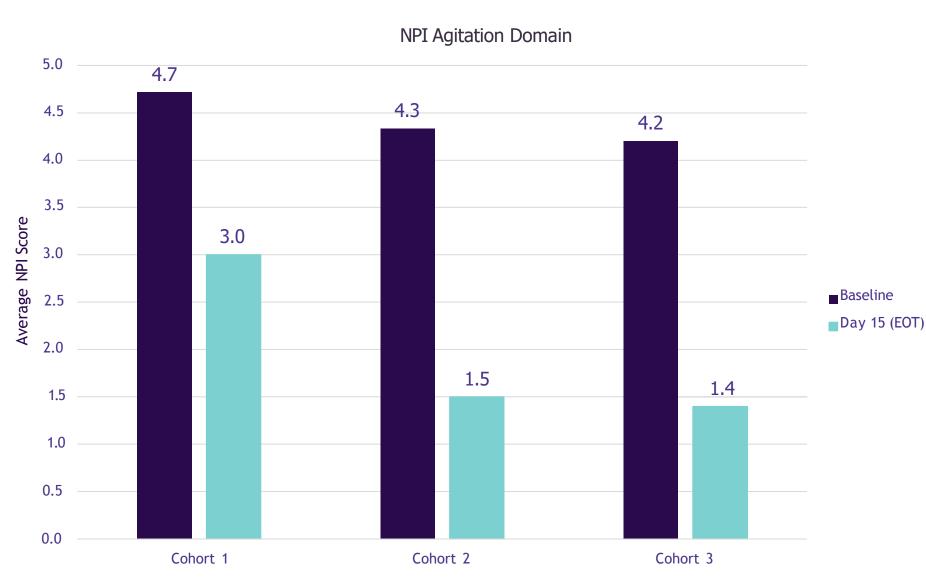


Results on Neuropsychiatric Symptoms (NPS) Measured by NPI-12

Patients taking IGC-AD1 showed an overall improvement in NPS in all three cohorts

Caregiver distress improved as well.

DATA ON AGITATION



Cohorts 1, 2,3 received IGC-AD1 once a day, twice a day and three times a day respectively

At three different doses, agitation improved both clinically and statistically (p<.05)

Cohort 1 baseline 4.7 EOT 3.0

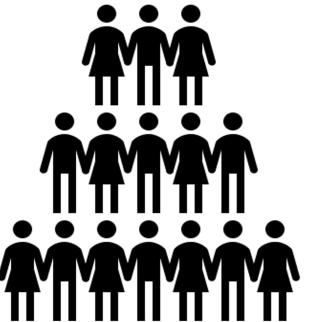
Cohort 2 baseline 4.3 EOT 1.5

Cohort 3 baseline 4.2 EOT 1.4

ON GOING IGC-AD1 PHASE 2b

Placebo Controlled, Double Blind, Randomized, Multi Site

Phase 2b protocol seeks to show that IGC-AD1 is effective, compared to placebo, in lowering agitation in participants with Alzheimer's



Objective

 Evaluate if IGC-AD1 is superior to placebo in reducing agitation in a sixweek trial

Key Inclusion Criteria

- Individuals 60 years and above
- Diagnosis of AD with established and persistent agitation

Sites

• 20-30 trial sites

TARGET: 146 Participants

AI-INTEGRATED TRIAL

IGC is partnered with leading Artificial Intelligence research center CINFONIA at the University of Los Andes

Partnership aims to leverage deep learning algorithms and generative AI to analyze variations in disease signatures among patients, enabling IGC Pharma to identify individuals more likely to respond to treatment and subsequently accelerate the delivery of treatments to patients

Our goals:

- Optimize clinical trials
- Personalized medicine
- Personalized medicine.

Early detection of Alzheimer's







AD DRUG CANDIDATE 2

TGR-63 Background

TGR-63 A PROMISING PATH-BREAKING MOLECULE

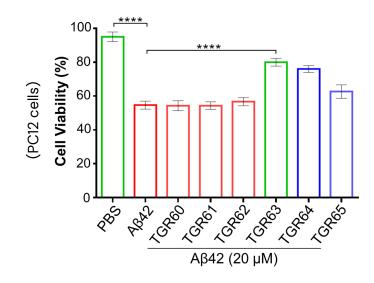
- India-based Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR) created the TGR-63 molecule
- IGC acquired exclusive rights to TGR-63 from JNCASR researchers in 2022
- Pre-clinical testing demonstrates that TGR-63 holds potential to ameliorate plaque due to AD
- Behavioral tests with AD (APP/PS1) mice show that TGR-63 can:
 - ✓ Rescue neuronal cells from amyloid toxicity
 - ✓ Minimize learning deficiency, memory impairment & cognitive decline
- Current status: Toxicology and other studies leading to Phase 1trials in progress

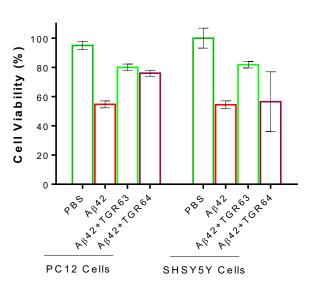
TGR-63: Mode of action

To study how TGR-63 can treat AD pathology and cognitive and behavioral symptoms, the AD-like environment was mimicked in vitro by exposing cultured PC12 and SHSY5Y cells to AB42.

This resulted in the generation of cytotoxic aggregation species in the growth media. AB42 caused mutilation to the cultured neuronal cells, as revealed by the decreased cell viability (54%) compared to the PBS control.

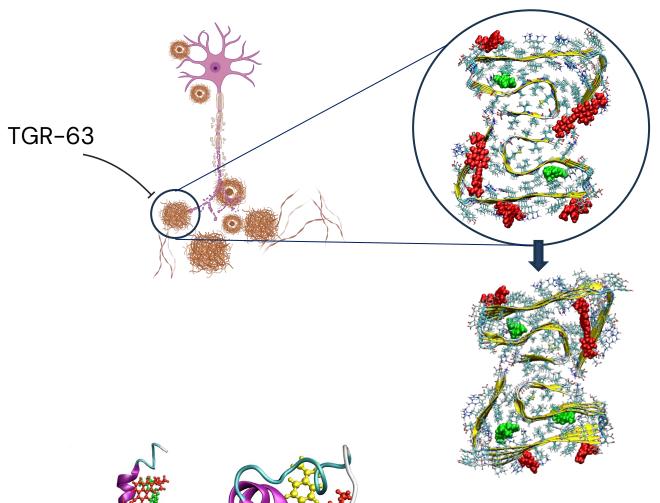
However, TGR-63 treated cells increased their viability to 80%, which means an increase of 26% in neuronal rescue.





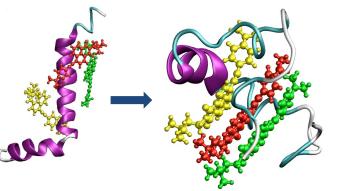
Adv. Therap. 2021, 4, 2000225

TGR-63: Mode of action



- To understand the molecular mechanism underlying its ability to decrease plaque aggregates and increase neuronal viability, computational studies like molecular docking and molecular dynamics were performed.
- These suggested that the molecular mode of action of TGR-63 consists of disrupting three different types of bonds within amyloid aggregates:
 - 1. Hydrogen bonds
 - 2. Hydrophobic and π - π interactions
 - 3. Salt bridges.

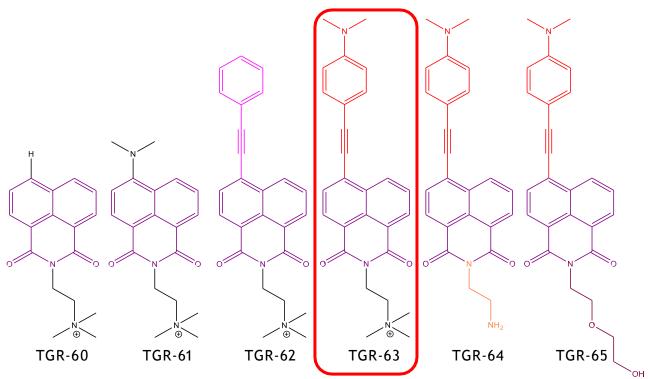
This destabilizes plaques, allowing it to break down.

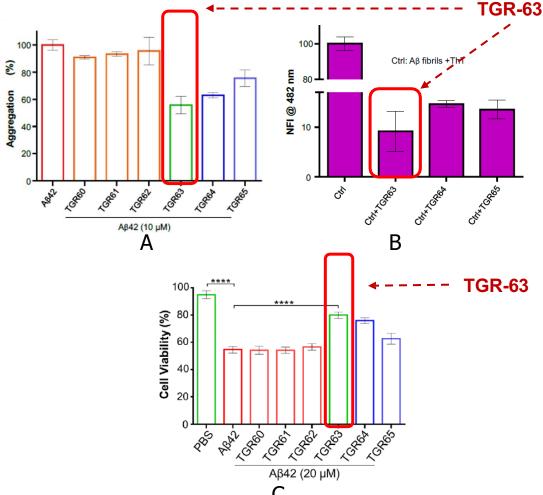


It also has a high affinity to the AB42 peptide. The interaction of TGR-63 with the peptide compromises its tertiary structure, allowing the formation of globular non-toxic structure that can be metabolized.

Molecular Structures for TGR

- Molecular structures that are candidates to modulate $A\beta 42$ aggregation and associated toxicity.
- TGR-63 demonstrated higher capacity to inhibit A β 42 aggregation (A), higher capacity to dissolve A β 42 aggregates (B) and increased PC12 cell viability (C) when compared to other structures.



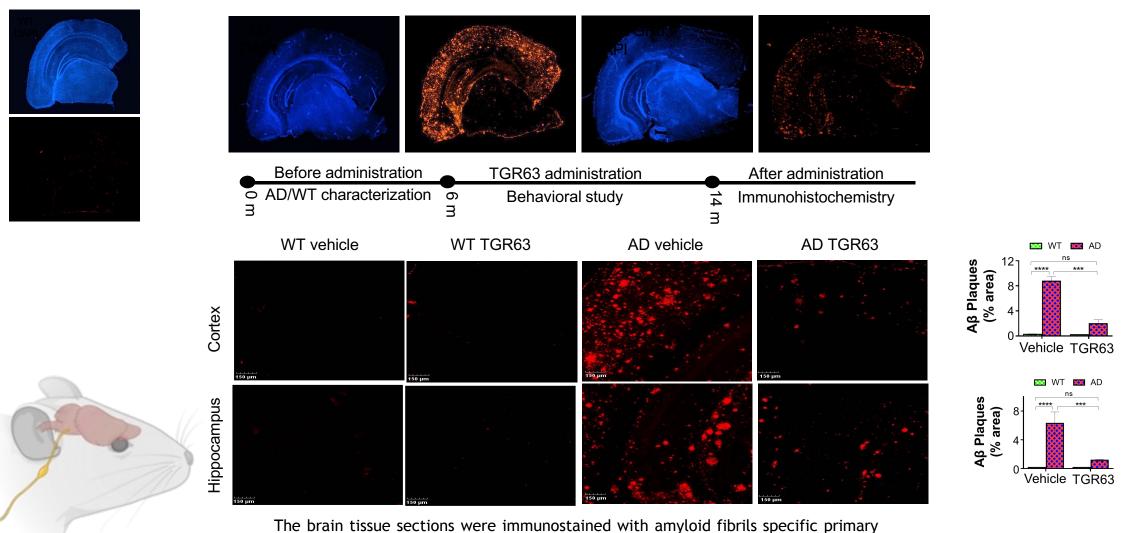


Adv. Therap. 2021, 4, 2000225



The Promise of TGR-63: Reduction of Plaque in Mouse Model

TGR-63 effectively reduced the amyloid burden in the mice cortex and hippocampus.



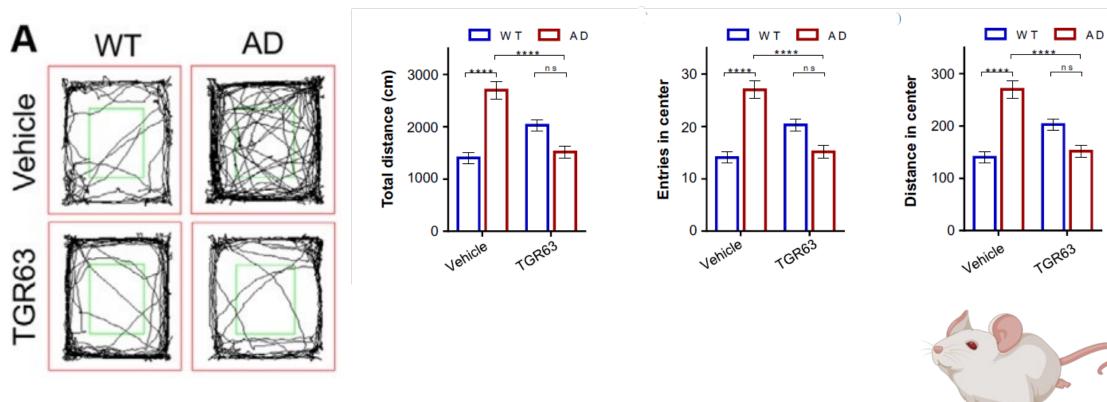
antibody (OC) and red fluorescent-labeled secondary antibody.

Adv. Therap. 2021, 4, 2000225

TGR-63-Improved Behavior In a Mouse Model

TGR-63 improved cognitive performance in APP/PS1 and Wild Type mice. The dose administered was 5 mg/kg body weight.

Open field test



TGR-63 treated mice had a lower locomotion in the field, indicating improved behavior.



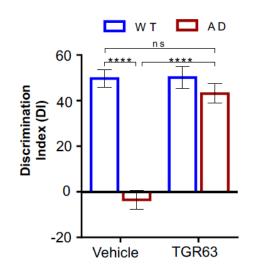
TGR-63 Improved memory in a Mouse Model

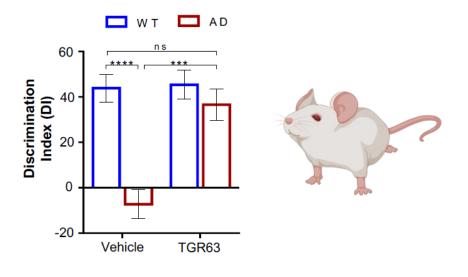
Novel object identification test

Adv. Therap. 2021, 4, 2000225

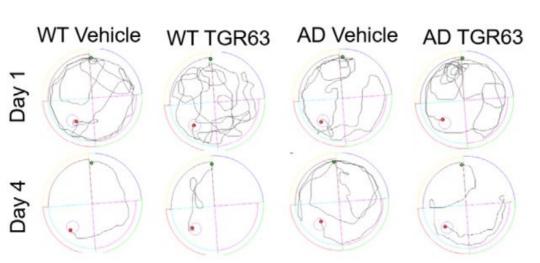


TGR-63 treated mice had a higher exploration of the novel object.

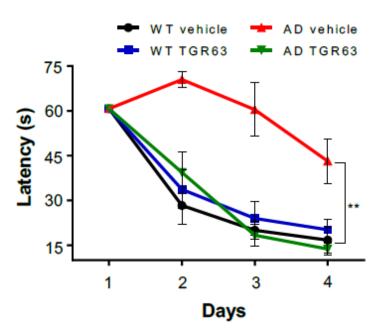




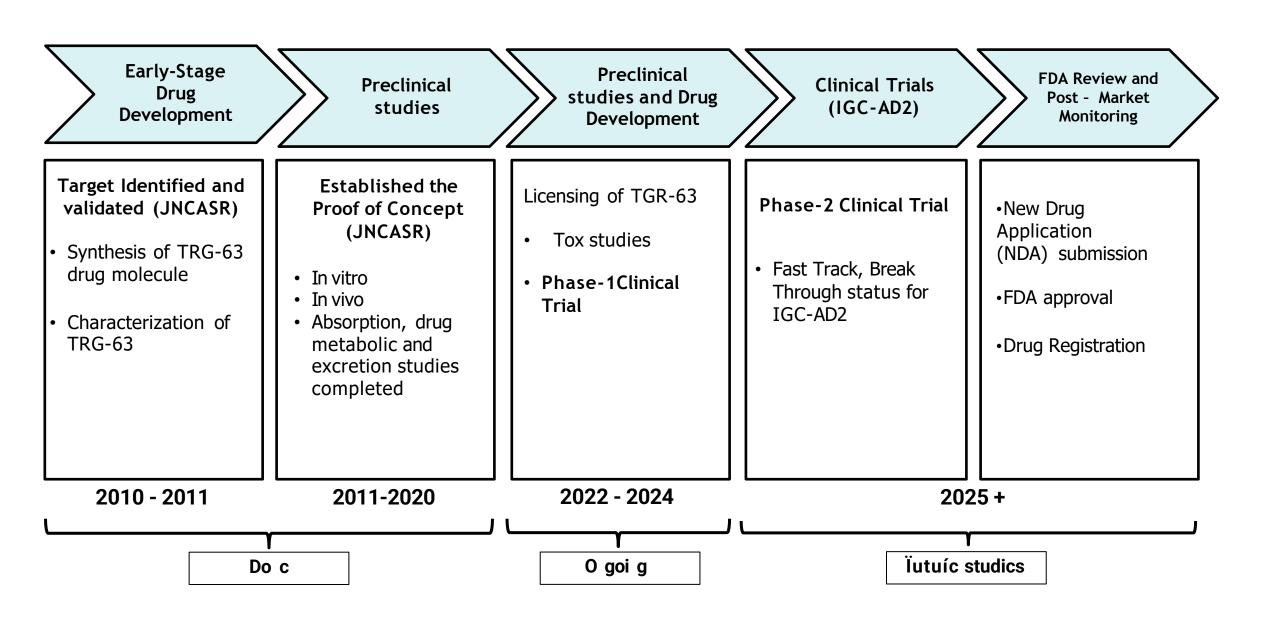
Morris Water Maze



TGR-63 treated mice learned the location of the target and had less error rate than non treated mice.



TGR-63 TO "IGC-AD2" TIMELINE



FIRST MOVER ADVANTAGE WITH INTELLECTUAL PROPERTY

TARGET	TARGET DESCRIPTION		US-PATENTS GRANTED	FOREIGN PATENTS GRANTED	
Alzheimer's Disease (IGC-AD1)	Composition & Method for treating CNS Disorders	7	1	1	
Alzheimer's Disease (IGC-AD1)	Composition & Method for treating CNS Disorders		1		
Alzheimer's Disease (TGR-63)	Naphthalene Monoimide Derivatives with ability to impact $\mbox{A}\beta$ protein build-up	6			
Alzheimer's Disease (IGC-1C)	Naphthalene Monoimide Derivatives with ability to impact Tau aggregation and neurofibrillary tangle formation	1			
Alzheimer's Disease (IGC-M3)	Naphthalene Monoimide Derivatives with ability to impact $A\beta$ plaque buildup and neurofibrillary tangle formation	1			
Cancer (Naphthalene Diimdes)	Naphthalene diimide Derivatives with the ability to self- assemble molecular interactions for biological and nonbiological systems		1	1	
Alzheimer's Disease (IGC-LMP)	Composition, Synthesis, & Medical use of Hybrid Cannabinoid	1			
Epilepsy	Composition & Method for Treating Seizures in humans &	2	2		
Eating Disorders	Cashavia & Fating Disorders	1	1		
Stuttering & Tourette Syndrome	Cachexia & Eating Disorders Cannabinoid-Based formulation for Treating Stuttering & Symptoms of Tourette Syndrome	3			
Pain	Cannabinoid-Based Formulation combined with Cobalamin and method for Pain Managment	1	2	2	

In-house patents and applications Patents and applications acquired through exclusive license agreements

Europe, Colombia, India, Mexico, Brazil, and Hong Kong.

SENIOR SCIENTIFIC TRIAL TEAM



Dr. Varduhi Ghazaryan, MD, MPHMedical Director





Dr. Saadia Shahnawaz, MDMedical Director



Scientific Management



Dr. Juan Manuel Orjuela, MDNeuropsychiatrist





Jagadeesh Rao, PhD Principal Scientist





Diego Rodriguez, PhDSenior Medicinal Chemist





Evelyn Gutiérrez, Chem Eng.Scientific Manager



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Dr. L. Elliot Hong, MDProfessor Psychiatrist



Scientific Advisors



Dr. James Saunders, PhDRet. Professor, Molecular Biology





Jeffrey L. Cummings
MD, ScD, is Chair of the ACTC
Neuropsychiatric Symptoms Committee



POTENTIAL TO DRIVE SIGNIFICANT VALUE

	NORTH AMERICA AND EUROPE			
ITEM	Year 1	Year 2	Year 3	
Individuals with AD	15M	15M	15M	
Agitation in AD (76%)	11M	11M	11M	
%adoption of drug (IGC-AD1)	3%	5%	10%	
Annual Price/Patient of drug	\$2,400	\$2,400	\$2,400	
Estimated Revenue	\$0.8B	\$1.3B	\$2.6B	

Key Market Factors



No non-antipsychotic FDA approved drugs for the treatment of agitation due to Alzheimer's exist today



Distribution strategy involves direct to consumer e-commerce accelerating time-to-market



Accessible at an affordable price



ESTIMATED PUBLIC COMPANY VALUATIONS DURING TRIALS

• Public.

Assumptions

- Year shows year when the company was in the clinical stage that is mentioned.
- Estimated valuation is the valuation at the time the company was closest to Phase entered the Phase that is mentioned.
- Current Market valuation is public valuation currently.

Script	Symbol	Clinical trial for disease	Name of formulation	Clinical Stage	Year	Estimated Valuation at the time of clinical Stage	Market Valuation in 2024
IGC PHARMA	IGC	AD	IGC-AD1	IIb	2023	\$20M	\$17M
Axsome Therapeutics	AXSM	Pain: complex regional pain syndrome (CRPS)	AXS-02	11/111	2015	\$162M	\$4.24B
Acumen Pharmaceuticals	ABOS	Alzheimer's	ACU193	1	2022	\$188M	\$192M
Acadia Pharmaceuticals Inc.	ACAD	Schizophrenia	ACP-103	PC/II	2006	\$265M	\$4.62B
Cassava	SAVA	Alzheimer's	PTI-125	II	2020	\$260M	\$1.1B
GW Pharma	JAZZ	Dravet Syndrome (CBD)	GWP42003-P	I	2013	\$389M	\$7.56B (sold)





Initiating Coverage with BUY and \$2.75 Target (~ \$167m valuation)

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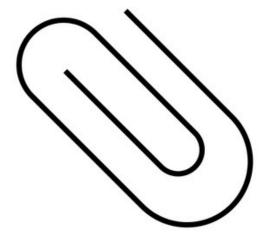


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ADDITIONAL INFORMATION

Caregiver Testimonial

From our Phase 1IGC-AD1 study

"I want to tell you a story that brought incredible joy to me.

We participated in your Phase 1Clinical trial in Puerto Rico. After about a week of medication, one day I came home to find that she had made dinner and was dancing to music that she enjoys.

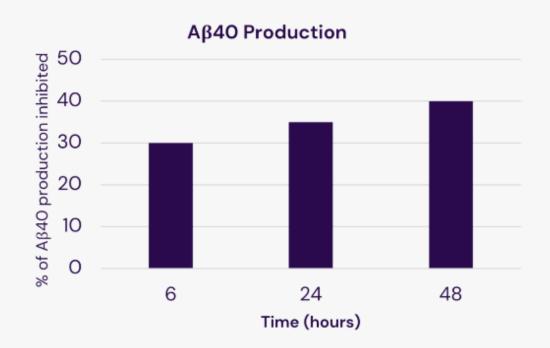
That night she was coherent, was not agitated, and for a brief period she was almost her normal self. I also contacted IGC Pharma, because of the good benefits my mother had during her participation in the trial and to see if I could continue to get the medication."

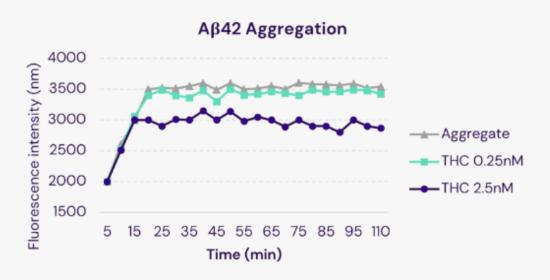
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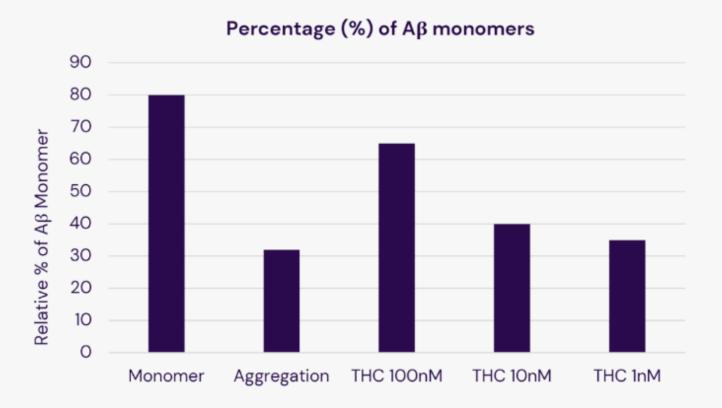


Pre-clinical studies: Detailed scientific results

The API in IGC-AD1 reduces Aβ40 peptide production and Aβ42 aggregation in Alzheimer's cell lines.

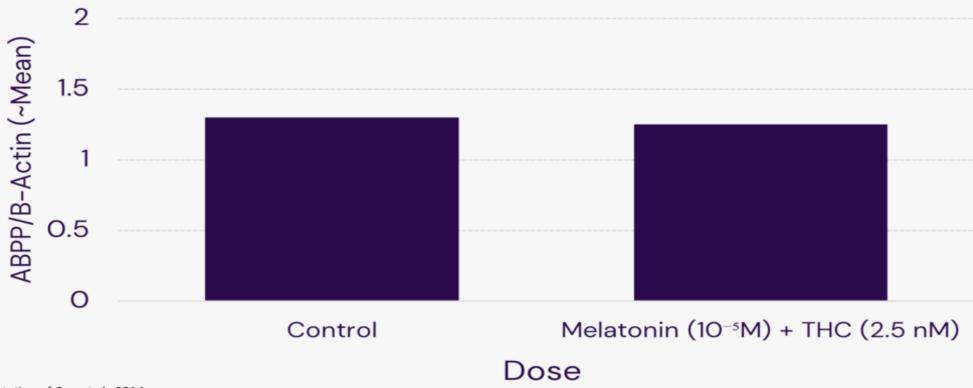




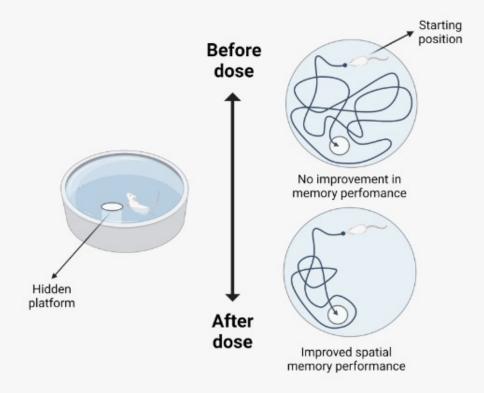


In Alzheimer's cell lines, IGC-AD1 increased Aβ monomers and decreased Aβ aggregation in a dose-dependent manner.

The APIs in IGC-AD1 did not reduce Amyloid Precursor Protein (APP) levels in Alzheimer's cell lines. APP modulates cell growth, motility, and survival; it is cut to create small fragments such as the Aβ peptide that eventually deposit as plaque.



Representation of Cao et al., 2014





Memory Improved in Alzheimer's Mice Model

In a Morris Water Maze test, mice dosed with the API in IGC-AD1 had significantly improved times and less errors than those in the control group demonstrating that memory improved in transgenic (APP/PS1) mice.

Nature Protocols. 2006; 1: 848-858; Int. J. Mol. Sci. 2022, 23, 2757

MTT assay for cell viability

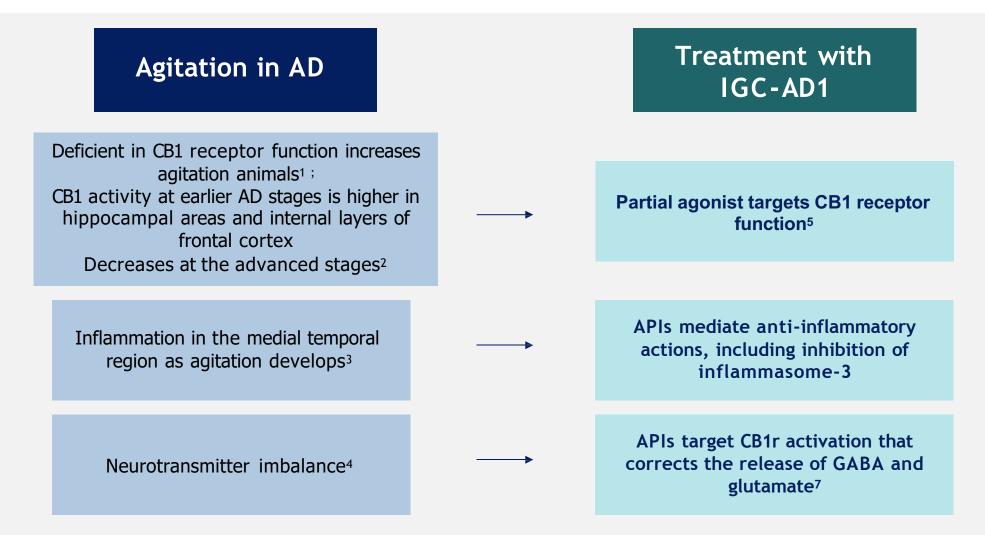


Over 48 hours, repeated low-dose exposure to the API in IGC-AD1 was not toxic to Alzheimer's cells (N2a/AßPPsWe cells).

THC Concentration

TWO APIS THAT TARGET MULTIPLE PATHWAYS

Focused on relieving pathological alteration due to agitation in AD



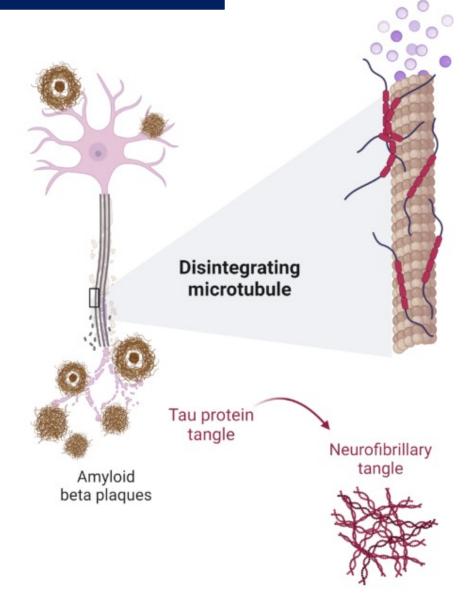
References: (1). Marta Rodriguez-Arias et al., 2013. (2). Manuel et al. (2014. (3). Yasuno et al., 2023 (4). Liu et al., 2018 (5). Kendalll and Yudowski 2017 (6). Kozela et al., 2009 (7). Hoffman and Luoica 2013



PRECLINICAL DATA

Pre-clinical study results





The pre-clinical studies tested the API in IGC-AD1 on Alzheimer's cell lines and Alzheimer's mouse models and found that it had the potential to be a disease modifying drug that could:

- Inhibit the formation of neurofibrillary tangles
- Inhibit the formation of plaques.
- Enhance mitochondrial functioning.
- Improve spatial memory.

For more detailed scientific results, click here >

https://igcpharma.com/igc-ad1/#results