#### **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): January 8, 2024

#### Biohaven Ltd.

(Exact name of registrant as specified in its charter)

**British Virgin Islands** (State or other jurisdiction of incorporation)

001-41477 (Commission File Number)

Not applicable (IRS Employer Identification No.)

c/o Biohaven Pharmaceuticals, Inc.
215 Church Street
New Haven, Connecticut 06510
(Address of principal executive offices, including zip code)
(203) 404-0410
(Registrant's telephone number, including area code)
Not applicable
(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:

$\hfill\square$ Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
$\square$ 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))
□ Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))
Securities registered pursuant to Section 12(b) of the Act

Title of each class	Trading symbol	Name of each exchange on which registered			
Common Shares, no par value	BHVN	New York Stock Exchange			

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter).

Emerging growth company  $\Box$ 

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.  $\square$ 

#### Item 7.01 Regulation FD Disclosure

On January 8, 2024, Biohaven Ltd. will be making an investor presentation (the "Presentation"). A copy of the Presentation is attached as Exhibit 99.1 to this Current Report on Form 8-K, and is incorporated herein by reference.

The information in this Current Report on Form 8-K, including the information set forth in Exhibit 99.1, 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"), nor shall it be deemed incorporated by reference in such a filing.

#### Item 9.01 Financial Statements and Exhibits.

#### (d) Exhibits

Exhibit Number	Exhibit Description
99.1	Investor Presentation, dated January 2024
104	The cover page of this Current Report on Form 8-K formatted as Inline XBRL.
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#### SIGNATURES

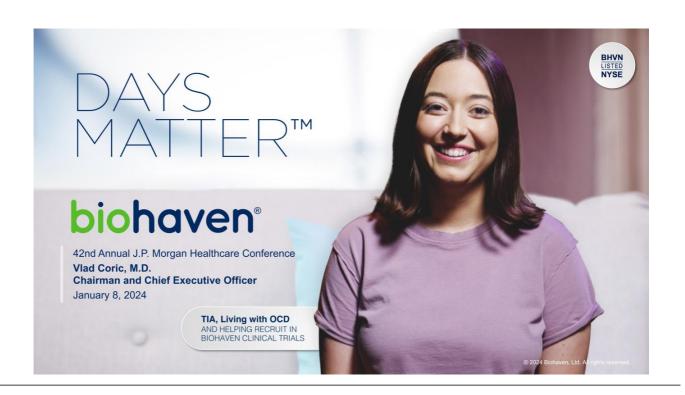
Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Date: January 8, 2024

#### Biohaven Ltd.

By: /s/ Matthew But

/s/ Matthew Buten
Matthew Buten
Chief Financial Officer



## Forward-Looking Statement

This presentation includes forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995, including statements about Biohaven Ltd. (the "Company") and our planned and ongoing clinical trials, the timing of and the availability of data from those trials, the timing and our decisions to proceed with our planned regulatory filings, the timing of and our ability to obtain regulatory approvals for our product candidates, the clinical potential utility of our product candidates, alone and as compared to other existing potential treatment options, and the potential advancement of our early phase programs. The use of certain words, including "continue", "plan", "will", "believe", "may", "expect", "anticipate" and similar expressions, is intended to identify forward-looking statements. Investors are cautioned that any forward-looking statements, including statements regarding the future development, timing and potential marketing approval and commercialization of our development candidates, are not guarantees of future performance or results and involve substantial risks and uncertainties. Actual results, developments and events may differ materially from those in the forward-looking statements as a result of various factors including: the expected timing, commencement and outcomes of Biohaven's planned and ongoing clinical trials; the timing of planned interactions and filings with the FDA; the timing and outcome of expected regulatory fillings; complying with applicable U.S. regulatory requirements; the potential commercialization of Biohaven's product candidates; the potential for Biohaven's product candidates to be first in class and best in class therapies; the anticipated consummation of the Trop2 transaction, and the effectiveness and safety of Biohaven's product candidates. You should, therefore, not rely on these forward-looking statements as representing our views as of any date subsequent to the date of this presentation. Additional important factors to be considered in connection with forward-looking statements are described in the Company's filings with the Securities and Exchange Commission, including within the sections titled "Risk Factors" and "Management's Discussion and Analysis of Financial Condition and Results of Operations". The forward-looking statements are made as of the date of this presentation, and Biohaven does not undertake any obligation to update any forward-looking statements, whether as a result of new information, future events or otherwise, except as required by law. This presentation also contains market data and other information based on industry publications, reports by market research firms or published independent sources. Some market data and information is also based on the Company's good faith estimates, which are derived from management's knowledge of its industry and such independent sources referred to above.





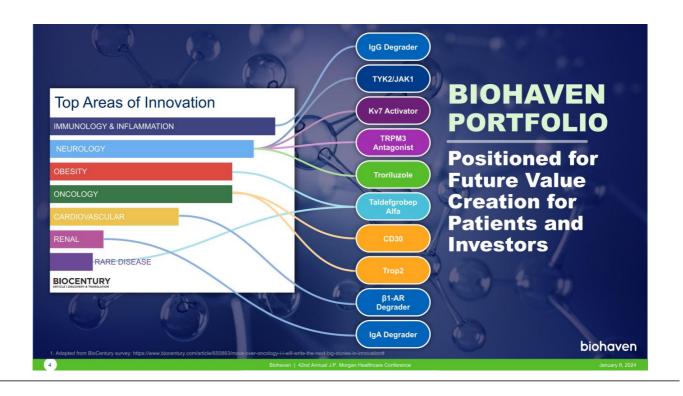
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## GROUNDBREAKING LEGACY OF SUCCESS IN MIGRAINE



Biohaven has reemerged for countless patients and is growing one of the most innovative portfolios in life sciences.





				PRECLINICAL	PHASE 1	PHASE 2	PHASE 3	MARKET
GLUTAMATE	Troriluzole	BHV-4157	Obsessive-Compulsive Disorder					
MYOSTATIN	Taldefgrobep Alfa	BHV-2000	Spinal Muscular Atrophy					
			Obesity			-		
ION CHANNEL	Kv7 Activator	BHV-7000	Focal Epilepsy	<b></b>				
			Generalized Epilepsy	(			•	
			Bipolar Disorder				•	
			Major Depressive Disorder			-		
	TRPM3 Antagonist	BHV-2100	Migraine					
			Neuropathic Pain					
INFLAMMATION & IMMUNOLOGY	TYK2/JAK1 Inhibitor (brain penetrant)	BHV-8000	Prevention of Amyloid Therapy Induced ARIA					
			Early Alzheimer's Disease					
			Early Parkinson's Disease		_			
			Multiple Sclerosis	<u> </u>	_			
	IgG Degrader	BHV-1300	Rheumatoid Arthritis					
		BHV-1310	Myasthenia Gravis					
	IgA Degrader	BHV-1400	IgA Nephropathy					
	β1-AR Degrader	BHV-1600	Dilated Cardiomyopathy					
ONCOLOGY	CD38	BHV-1100	Multiple Myeloma		_			
	Trop2	BHV-1510	Carcinoma					
	CD30 (next-gen brentuximab vedotin)	BHV-1500	Hodgkin's Lymphoma					

ARIA, Amyloid-related imaging abnormalities

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#### Kv7 is Breakthrough Target in Neurology and Neuropsychiatry

- · Selective Kv7 activation avoids unwanted CNS side effects
- Clinically validated in epilepsy and major depressive disorder

#### BHV-7000 is Potentially Best-in-class Selective Kv7 Activator with Blockbuster Potential

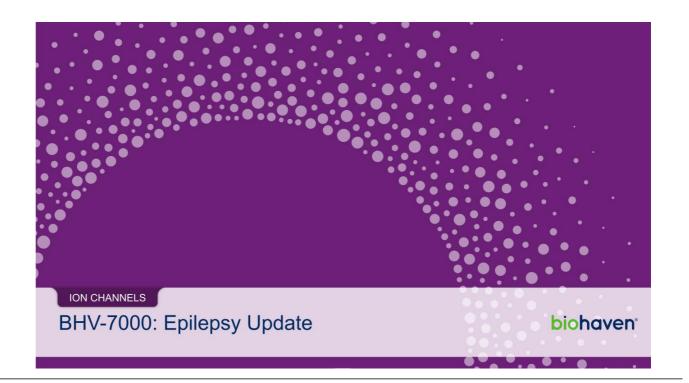
- Rationally designed to eliminate GABA<sub>A</sub> receptor activation
   No dose-limiting CNS side effects in Phase 1 studies
- CNS target engagement confirmed in a dose proportional manner in Phase 1 EEG study

#### **BHV-7000 Has Compelling Preclinical Efficacy Profile**

- Highly effective in epilepsy model
- Ketamine-like efficacy in neuropsychiatry model
- Wide therapeutic index to explore full dose range

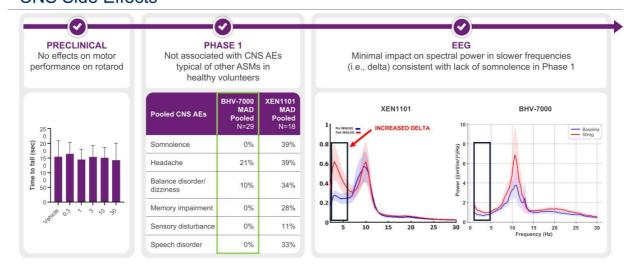
Phase 2/3 Epilepsy Update: >110 global clinical sites selected, FPFV 1Q24 Phase 2 MDD and Bipolar Studies expected to initiate FPFV 1Q24

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#### BHV-7000

# Dialing Out GABA<sub>A</sub> Receptor Activation Now Clinically Proven to Reduce CNS Side Effects



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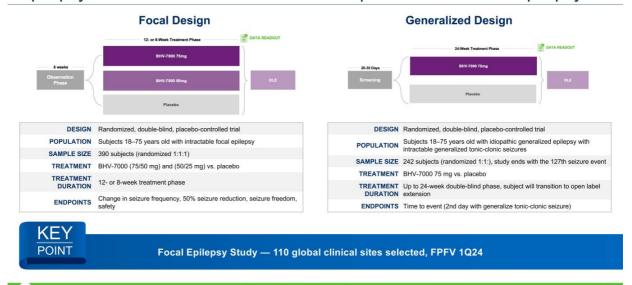
BHV-7000

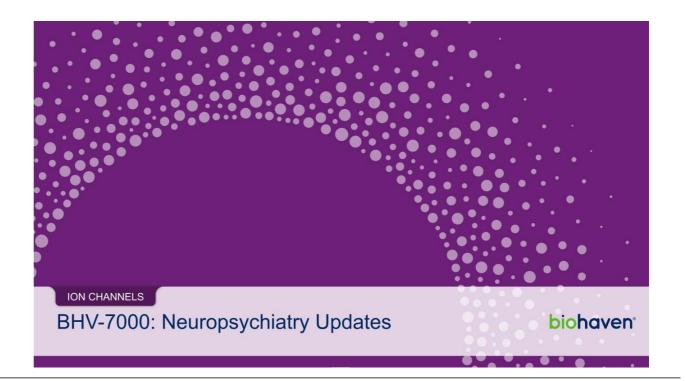
# CNS Target Engagement Confirmed at Concentrations Well-Tolerated and Exceeding Predicted Therapeutic Target Levels



BHV-7000

# Epilepsy Phase 3 Studies in Focal and Idiopathic Generalized Epilepsy

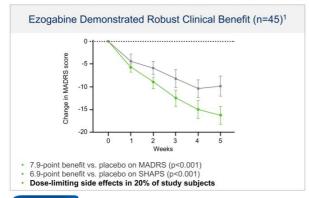


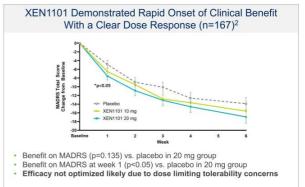




## Kv7 Activation Validated in the Clinic for Major Depressive Disorder

Randomized clinical trials in MDD with two nonselective Kv7 activators have demonstrated potential for rapid onset of clinically meaningful benefit in symptoms of depression and anhedonia







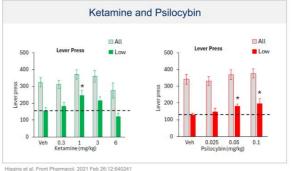
BHV-7000 has ideal profile for potential in MDD due to low rates of CNS AEs vs. nonselective Kv7 activators

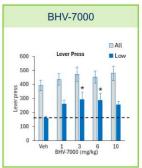


# BHV-7000: Potential for Ketamine and Psilocybin-Like Anti-Depressant Effect

# Kv7 (KCNQ2) Mediates Therapeutic Benefits of Ketamine¹ Glutamatergic Neuron Saline Saline Kcnq2 mRNA Kctamine \* Chronically stressed mice show downregulation of Kv7 gene expression Kv7 mediated ketamine anti-depressant effects abolished when Kv7 is inhibited or Kv7 expression reduced

Ketamine, psilocybin, and BHV-7000 all enhance motivation in poor performing rats in operant model





Lopez et al. Neuron. 2022 Jul 20;110(14):2283-2298.e9

KEY POINT

BHV-7000 shows similar or greater magnitude of anti-depressant behavioral effects to ketamine and psilocybin

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# BHV-7000: Phase 2 Study in Major Depressive Disorder

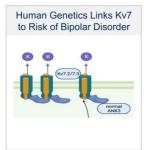


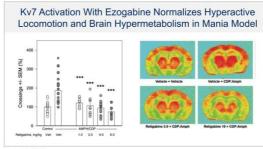


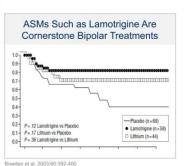


# Compelling Evidence for Targeting Kv7 in Bipolar Disorder

- HUMAN GENETICS ANK3 gene link to Kv7 and disease risk1, 2, 3, 4
- MOLECULAR PROFILING OF BIPOLAR DISORDER PATIENT TISSUES demonstrating epigenetic, transcriptomic and proteomic Kv7 deregulation
- · PRECLINICAL MODELS Kv7 activation corrects disease-related phenotypes and behaviors
- ANTISEIZURE MEDICINES ARE CORNERSTONE BIPOLAR TREATMENTS







Pan et al. Journal of Neuroscience, 2006. 2. Ferreira et al. Nat. Genet. 40, 1056-1058. 3. Psychiatric GWAS Consortium Bipolar Disorder Working Group. (2011). 4. Judy et al. Front Genet (2013)

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# BHV-7000: Phase 2/3 Study to Evaluate Safety and Efficacy for the Acute Treatment of Mania in Bipolar Disorder I





YMRS: Young Mania Rating Scale; CGI-S: Clinical Global Impression, Severity

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- Biohaven is back in migraine with novel agent, BHV-2100
- Phase 1 SAD study ongoing
  Phase 2 in migraine and neuropathic pain planned 2H 2024

#### Despite the CGRP Revolution, Significant Unmet Need Remains for 40M Migraine Sufferers in the US and 1B Worldwide

- 30-40% of patients do not respond to treatments that block CGRP or its receptor
- Migraine is 2<sup>nd</sup> leading cause of disability worldwide and 1<sup>st</sup> among young women<sup>1</sup>

#### First-in-Class TRPM3 Antagonist —

#### Novel Mechanism for the Treatment of Migraine and Pain

- BHV-2100 is the only TRPM3 antagonist in clinical development
- Preclinical data shows robust efficacy in pain models
- Highly differentiated from programs that target TRPV1 and TRPA1, avoids TRP family liabilities such as hyperthermia

#### Phase 1 Study Preliminary Data Supports Evaluation in Acute Migraine

- SAD study: 2 cohorts completed dosing (25 and 75 mg)
- MAD study: initiating Rapidly absorbed (Tmax 1–2 hours)
- Projected therapeutic concentrations achieved (IC90 exceeded within 1 hour)
- Well tolerated with only mild adverse events (flatulence, constipation, upper respiratory tract infection, dysesthesia) and no evidence of temperature dysregulation to date

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#### Differentiated Profile Balancing Both Efficacy and Safety

- Taldefgrobep alfa inactivates free myostatin (GDF-8), an inhibitor of muscle
- Pharmacology uniquely sustained by taldefgrobep alfa/myostatin complex
- Taldefgrobep alfa/myostatin complex inhibits skeletal muscle ActRIIB receptor signaling, and thus, enhances muscle mass

#### **Potential Paradigm Shift in the Treatment of Obesity**

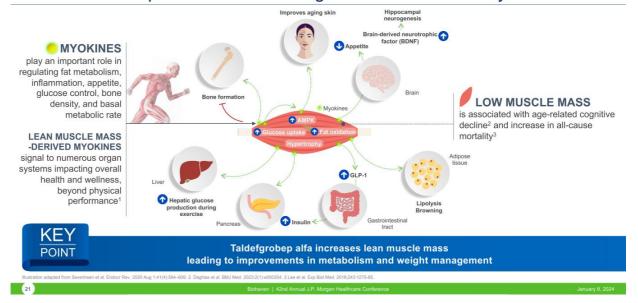
- Taldefgrobep alfa treatment of >350 subjects with favorable safety and tolerability observed in children, adolescents, and adults
- Reductions in fat mass while increasing lean mass in healthy adults
- Maintains muscle gains after cessation of administration
- Weekly SC administration with the potential for extended dosing intervals

#### Phase 3 in SMA

- Global Phase 3 study in broad-population of SMA patients now fully enrolled
- Weekly SC taldefgrobep alfa on top of stand of care continues to be well tolerated
- Orphan designation granted in the US and EU, along with Fast Track designation by FDA
- Obesity Phase 2 to initiate in 2Q 2024 Topline Phase 3 Results in SMA in 2H 2024

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# Muscle Is an Important Endocrine Organ in Metabolic Activity



# Inhibiting Myostatin Increases Muscle Mass and Metabolic Health

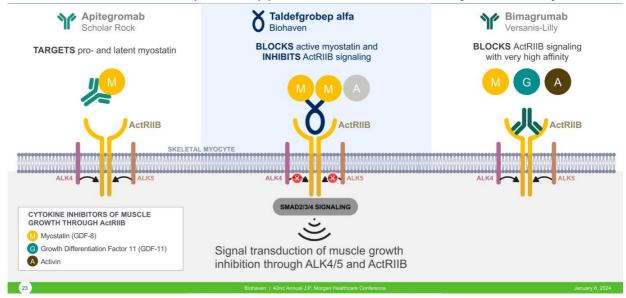






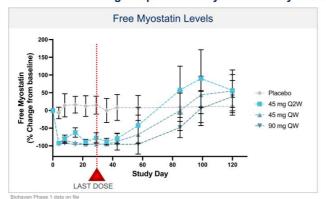
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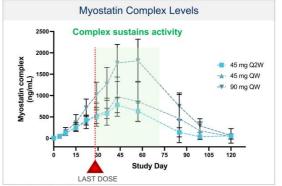
## Taldefgrobep Alfa: A Differentiated Therapeutic Approach Balances Efficacy and Safety



# SC Taldefgrobep Effectively Suppresses Free Myostatin in Healthy Adults

### Taldefgrobep alfa activity sustained by circulating taldefgrobep-myostatin complex





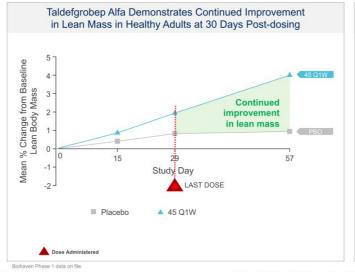


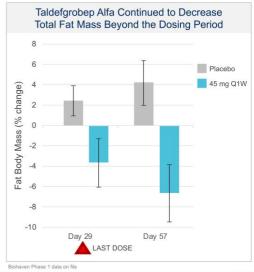
- Robust lowering of free myostatin after administration of taldefgrobep alfa 45 mg Q1W
- Taldefgrobep-myostatin complex continues to exert activity for weeks after dosing stops
- Continued improvement in muscle mass after cessation of dosing

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## Taldefgrobep Alfa: Demonstrates Fat Reduction While Improving Lean Mass in Healthy Adults

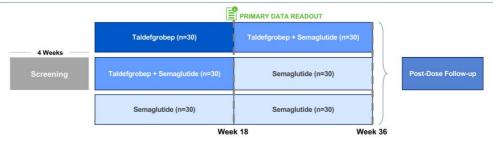




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Taldeforobep

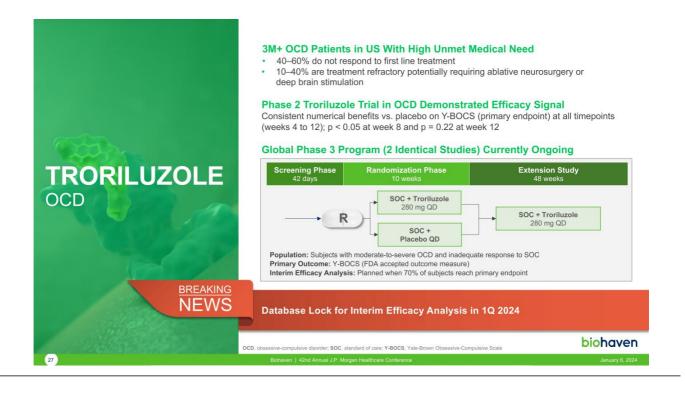
# Taldefgrobep Alfa: Phase 2 Study to Evaluate Taldefgrobep +/-Semaglutide in the Treatment of Overweight and Obesity

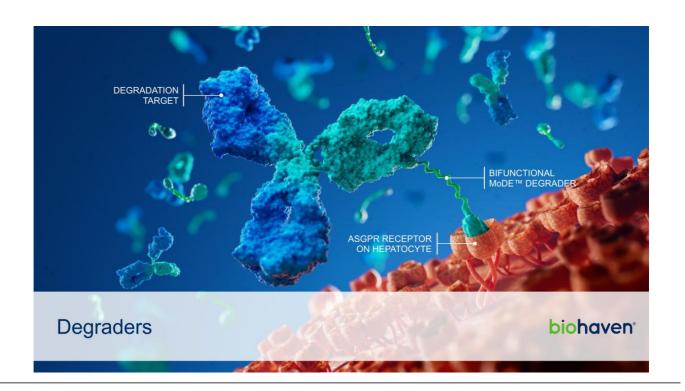


Innovative study design allows for early insight into a number of key clinical questions

- · Impact of Taldefgrobep monotherapy on changes in body composition, total body weight, and metabolic parameters
- · Ability of Taldefgrobep to augment fat mass loss when used as adjunct to anti-obesity standard of care (GLP-1 agonist)
- Potential for Taldefgrobep to prevent against GLP-1-induced lean muscle loss
- · Influence of Taldefgrobep on weight regain following discontinuation of GLP-1 agonist









#### Potent Extracellular Pan-IgG Lowering Agents

- Degrading and depleting pathogenic IgG presents multiple disease opportunities BHV-1310 has further optimized properties over first-generation BHV-1300

#### **Innovative Mechanism of Action**

- Protein degradation rather than inhibition Low projected human dose range
- Small molecule allows for small-volume subcutaneous dosing
- Next-gen technology allows for selective targeting of a variety of proteins

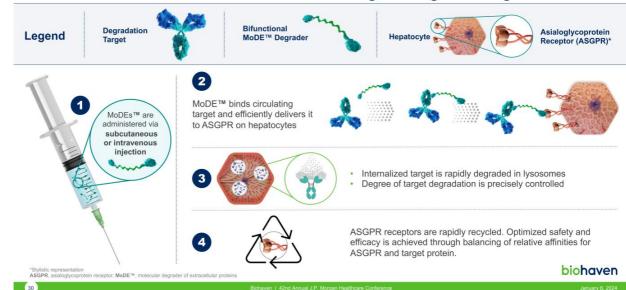
- Faster and Deeper Depletion
   NHP studies showed 80% IgG depletion with a single dose of BHV-1300; increasing to ~90% after multiple doses
- Safe in doses up to 500 mg/kg
- More rapid IgG reduction vs. competitors
- Allows for co-administration with biologics

#### **Potential in Multiple Diseases**

- Common diseases RA, lupus erythematosus, lupus nephritis Rare diseases Generalized myasthenia gravis, transplant, oncology, etc.
- BHV-1300: First-in-human Phase 1 start and data expected 1Q 2024
- BHV-1310: ~90% IgG depletion with a single dose
- New NHP data showing that Biohaven's IgG Degrader technology allows for co-administration with biologics (Humira® PK unaltered)

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# A First-in-Class Mechanism: Hepatic ASGPR Receptor Harnessed for Efficient and Safe Removal of Circulating Pathogenic Targets

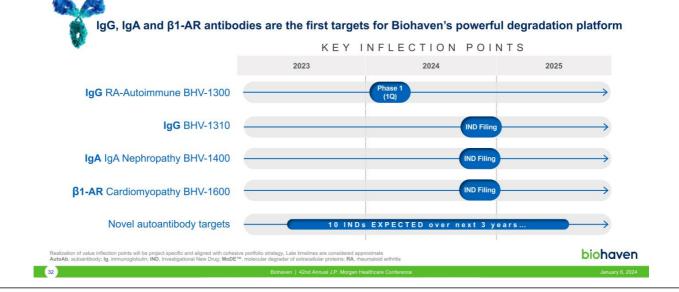


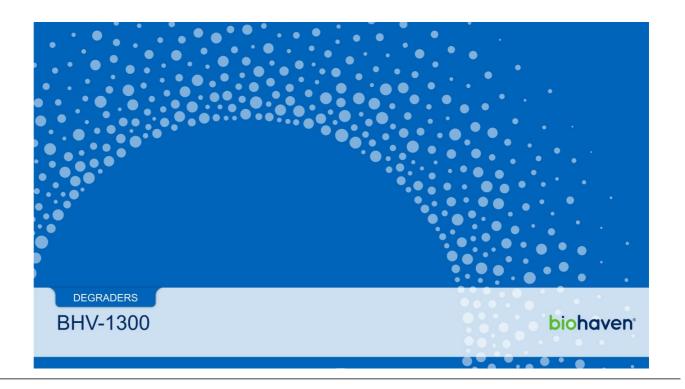
## A Transformational Drug Platform: Molecular Degraders of Extracellular Proteins (MoDE™)

#### Precisely balanced components selected for optimal efficacy, safety and product profile



# MoDE™ Degraders: Multiple Asset Opportunities and Potential Timelines

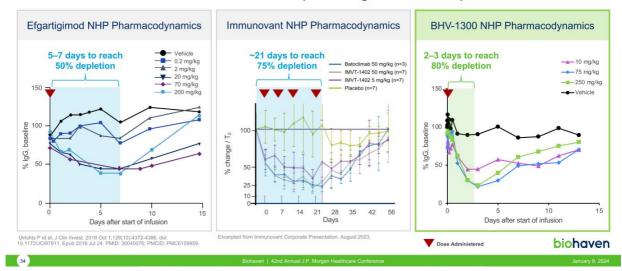




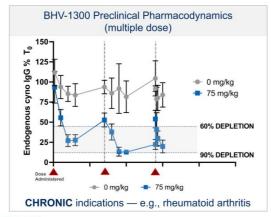


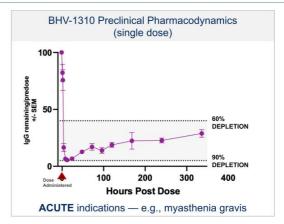
## BHV-1300: Shows Potential for Superiority Over Competition

#### BHV-1300 demonstrated faster depletion of IgG in non-human primates



### Unique Properties of BHV-1300 and BHV-1310 Matched to Indications







Optimization of degrader technology (BHV-1310) allows for deeper reductions in IgG after single dose

BHV-1300 pharmacodynamics in NHP and BHV-1310 pharmacodynamics in rabbi

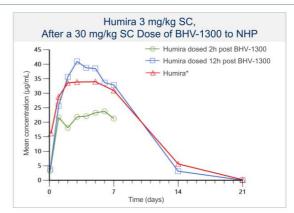
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## Biohaven Pan-IgG Degraders Allow for Co-Administration with mAbs

#### Frequently Administered Fc-Containing Biologics

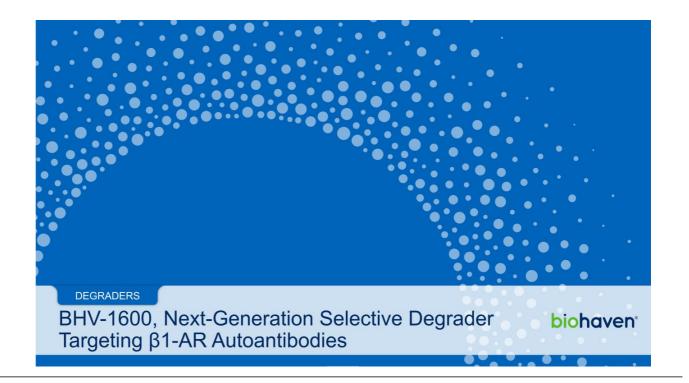
Humira® Enbrel® Remicade® Cosentyx® Rituxan® Actemra® Tremfya® Repatha®

Prolia<sup>®</sup>

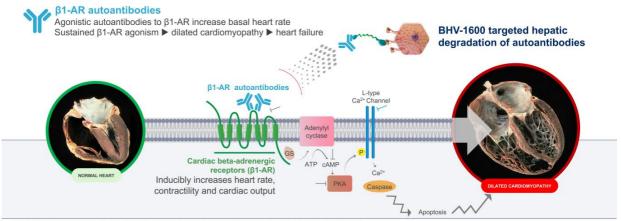




- First NHP data to show that BHV-1300 does not alter PK of Humira® when dosed 12 hours earlier
- Allows for same-day dosing with biologics FcRns reduce effectiveness of Fc-containing biologics and should not be used chronically together



## Selective Targeting of \$1-AR Autoantibodies for Dilated Cardiomyopathy



#### CURRENT TREATMENT FOR β1-AR AUTOANTIBODY-DRIVEN CARDIAC DISEASE:

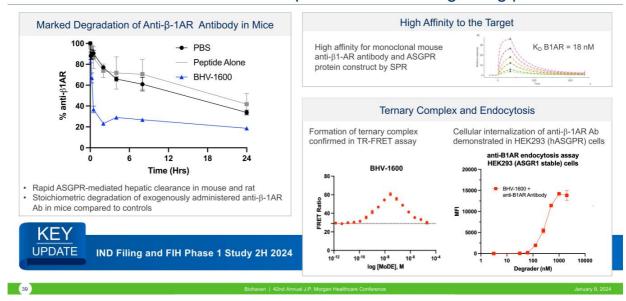
- BETA BLOCKERS: Ineffective treatment limited to supportive treatment, diuresis, etc.
- REMOVAL OF ANTIBODIES: Plasmapheresis<sup>1,2</sup> demonstrates POC but requires hospitalization

1. Eur J. Heart Fail. 2013; 15(7): 724–729. 2. Nat. Rev. Nephrol. 2014; 10(3): 125-125. Illustration adapted from European Journal of Heart Failure (2013) 15, 724–729. Heart image adapted from Intros/Horacoi-feek-com/clinical-presentation-and-therapy-of-cardiomyocathies/



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## BHV-1600: In Vitro and In Vivo Properties Ideal for Degrading β-1AR Abs





#### First-in-Class Oral, Selective, Brain-Penetrant TYK2/JAK1 Inhibitor

- · Uniquely potent, TYK2/JAK1 selective, brain-penetrant inhibitor
- Selectivity profile should avoid class risks associated with JAK2/3 inhibition

#### **Breaks the Cycle of Neuroinflammation**

Reduces inflammatory impacts of microglia, astrocytes, and infiltrating T-lymphocytes

#### **Potential to Treat Multiple Neuroinflammatory Disorders**

Evidence supports efficacy in prevention of amyloid therapy induced ARIA, Alzheimer's disease, Parkinson's disease, Multiple Sclerosis and other disorders

#### **Encouraging Preliminary Results from Ongoing Phase 1 Trial**

- · Projected therapeutic concentrations achieved
- Well tolerated with only mild adverse events to date (loose bowel movements, headache, and constipation)

#### **Upcoming Milestones**

Anticipate initiating multiple clinical trials in 2024

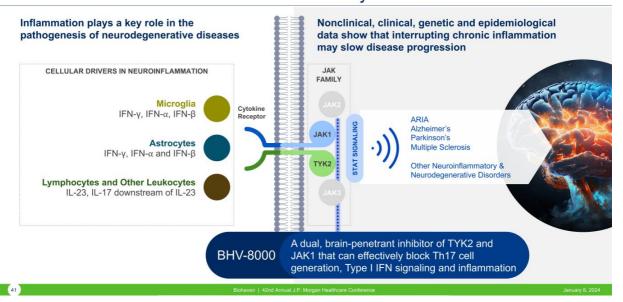
- SAD study: SAD cohorts completed dosing (10, 20 and 30 mg)
- MAD study: Completed 10 mg dose cohort and began 20 mg dose

RIA Amyloid-related imaging abnormalities

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## BHV-8000: TYK2/JAK1 in Neuroinflammatory Disorders



## Biohaven's Real-World Analytics of Large Healthcare Database: Parkinson's Disease Risk Reduction with IL-17/TNF Targeting Therapies



- Biohaven conducted analysis using Komodo Health database (over 320 million patients since 2012) examining treatment with Anti-TNF or Anti-IL17 and incidence of PD
- Millions of patients over 8+ years of dosing captured key epidemiologic confirmation of the neuroinflammatory hypothesis
- Result provides MOA rationale for the effectiveness of a TYK/JAK inhibitor in PD

Treatment	PD Events	Person-years	Rate (per 100 person-years)	Adjusted IRR (95% CI)	P-value
Anti-TNF or Anti-IL-17 exposure	2,957	393,114	0.66	0.77 (0.74 – 0.80)	<0.0001
No Treatment	50,562	5,328,307	0.95		<0.0001
Anti-TNF exposure	2,471	371,867	0.66	0.64 (0.52 – 0.80)	<0.0001
No Treatment	50,562	5,328,307	0.95		<0.0001
Anti-IL-17 exposure	81	15,598	0.52	0.77 (0.78 – 0.81)	<0.0001
No Treatment	50,562	5,328,307	0.95		<0.0001



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### BHV-8000: Unique Clinical Trial Approach in Parkinson's Disease

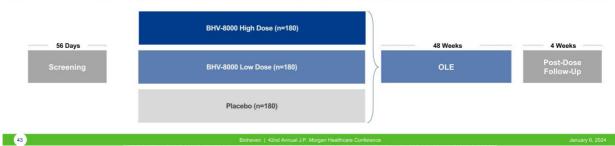
#### Novel Primary Efficacy Endpoint Novel Composite Endpoint Time-to-event (≥ 2-point worsening on MDS-UPDRS-Part II) Parkinson's Disease Composite Score (PARCOMS) · Addresses FDA requirement for a functional endpoint in PD trials

- MDS-UPDRS-Part II recommended, but declines very slowly in early PD
- · 300 fewer patients per trial versus a mean change on MDS-UPDRS-Part II
- · Based on comprehensive analyses of PPMI and placebo-arm clinical trial data (C-Path)

Provides a meaningful efficacy endpoint with a smaller sample size

- Based on established methodology (i.e., Alzheimer's Disease Composite Score [ADCOMS])
- Leverages PPMI and placebo-arm clinical trial data (C-Path)
- Comprises the most responsive items from common endpoints in early PD trials

Provides a highly-sensitive supportive secondary efficacy endpoint

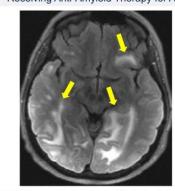


## ARIA: A Potential Therapeutic Target for TYK2/JAK1 Inhibition

ARIA events typically occur early (8–12 weeks) after initiation of antiamyloid mAb therapy¹ and can complicate the benefit-risk assessment in certain patient groups

ARIA-E EVENTS WITH ANTI-AMYLOID THERAPY						
	Overall	APOE4 carriers (het)	APOE4 carriers (homo)	Non-carriers APOE4		
	EME	RGE & ENGAGE T	RIALS			
Aducanumab <sup>2</sup>	35.2%		43.0%	20.3%		
Placebo	2.7%					
		TRAILBLAZER-AL	<b>Z</b> 2			
Donenamab <sup>3</sup>	24.0%	22.8%	40.6%	15.7%		
Placebo	1.9%	1.9%	3.4%	0.8%		
		CLARITY-AD				
Lecanemab <sup>4</sup>	12.6%	14%	39%	11.9%		
Placebo	1.7%	8.6%	21%	4.2%		

#### Severe ARIA-E (Edema) in a Patient Receiving Anti-Amyloid Therapy for AD



Axial MR images of the brain show multifocal subcortical edema (arrows) with FLAIR hyperintensity

Agarwal A. Published Online: August 31, 2023. https://doi.org/10.1148/rg.230009

 Cummings et al, J Prev Alz Dis. 2023;3(10):362-77. 2. Aducanumab Budd Haeberlein S, et al J Prev Alzheimers Dis. 2022;9(2):197-210. 3. Donenamab Sims JR, et al JAMA. 2023 Aug 8:330(6):512-527. 4. Cummings J, et al J Prev Alzheimers Dis. 2023;10(3):362-377. biohaven

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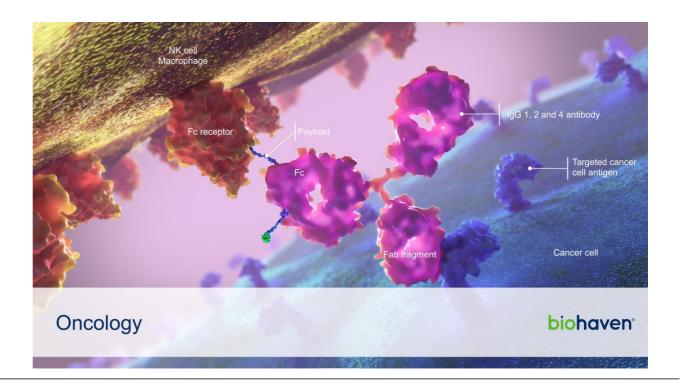
### BHV-8000: A Potential Therapy for the Prevention of ARIA

#### Therapeutic hypothesis:

- · TYK2/JAK1 inhibition reverses activated glial- and T-cell mediated pathology and general inflammation
- · Corticosteroids and other immunosuppressive drugs show benefit in treating and reducing the risk of ARIA1,2,3
- TYK2/JAK1 inhibition has a favorable benefit-risk profile over corticosteroids and other immunosuppressive drugs
- BHV-8000 has the potential to reduce incidence of ARIA associated with anti-amyloid therapies

Biohaven plans to conduct a Phase 2 study to assess events of ARIA in Alzheimer's disease in APOE4 homozygous adults living with early Alzheimer's disease who are initiating anti-amyloid therapy







#### **Conjugation Chemistry Superior to Industry Standard**

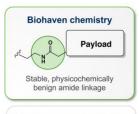
Maleimide and lipophilic click chemistry

Attached to Two Specific Lysines
Provides stable and consistent drug antibody ratio (DAR)

- **ADAPTABLE** Complements and improves multiple existing ADC payload-linker technologies
- STABLE Improved ADC plasma stability with controlled DAR potentially improves therapeutic index
- ✓ EFFECTIVE Improved efficacy in mouse tumor model also suggests potential for increased therapeutic
- ✓ MULTIPURPOSE Conjugates IgG1, 2 and 4; Single step conjugation with predictable favorable yields, low aggregation
- ✓ NOVEL IP filed globally in key markets

#### **Current Status**

Two INDs planned for 2024





Poorly stable linkage

- Two INDs planned for 2024
- TROP2 Phase 1 2Q 2024 5–7 new ADCs in next two years

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### BHV-1510 is a Potential Best-in-Class TROP2 ADC

#### TROP2 IS A HIGHLY VALIDATED TARGET WITH LARGE MARKET OPPORTUNITY

- Trodelvy® only drug approved with 2022 actual sales of \$680M (+65%y/y)
- Significant opportunities for indications beyond current approvals and in anti-PD1 combination

#### BHV-1510 HAS POTENTIAL BEST-IN-CLASS PROFILE COMPARED TO OTHER TROP2 ADCS

- · Fully optimized next-generation ADC with potential best-in-class payload and enhanced stability
- Synergistic and superior efficacy with anti-PD1
- Highly differentiated efficacy and safety profile provide an opportunity to broaden therapeutic margin, increase time on treatment and improve efficacy

	Trodelvy®	DS-1062	SKB264 / MK-2870	BHV-1510	Point of Differentiation
Antibody	Sacituzumab	Datopotamab	Sacituzumab	Sacituzumab	Higher TROP2 binding affinity vs DS-1062
Linker	Hydrolyzable CL2A (pH-dependent)	Hydrolyzable, protease cleavable	Similar to Trodelvy (pH-dependent)	Proprietary highly stable (irreversible) and protease cleavable linker	Increased plasma stability to reduce off-target toxicity
Payload	SN-38 (govitecan)	Dxd (deruxtecan)	Topolx, similar to SN-38	Proprietary potential best-in-class Topolx	Improved in vitro cytotoxicity, bystander effect and immunogenic cell death vs Dxd and SN-38
Conjugation	Chemical, non-specific	Cysteine, non-specific	Cysteine, non-specific	Enzymatic (non-cysteine), site-specific	Increased homogeneity
DAR	7–8	4	7–8	4	

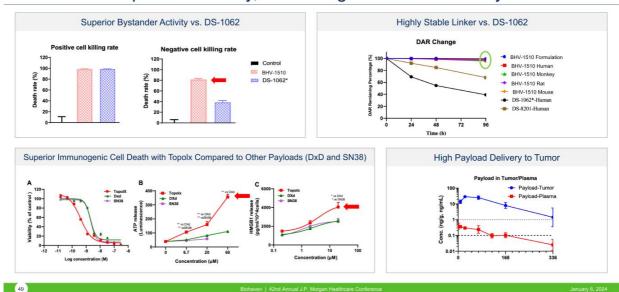




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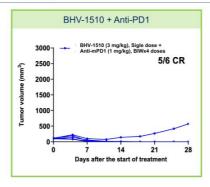


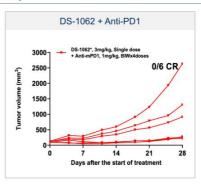
## BHV-1510: Improved Efficacy, Cell Killing and Linker Stability





## BHV-1510 + Anti-PD1 Combination Shows Compelling Synergy in Syngeneic Models and is Superior to DS-1062





- Preclinical profile of BHV-1510 positions it for superiority in ADC therapy with anti-PD1
- · Landscape open for TROP2 combinations with safer more efficacious ADCa

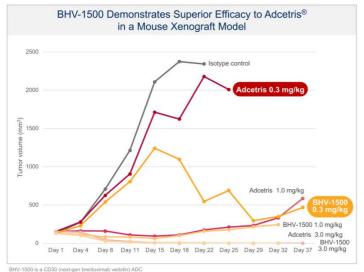


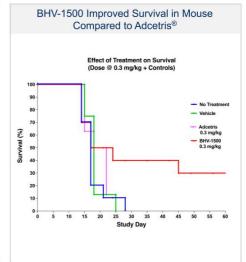
AACR 2023 annual meeting, abstract #1549

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## BHV-1500: Compares Favorably to Adcetris and Potential Best-In-Class Profile



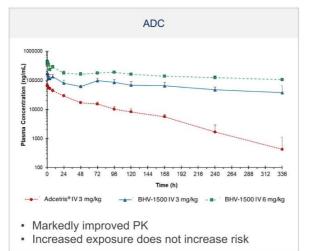


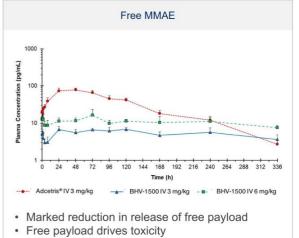
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# BHV-1500: Improved PK and Decreased Payload Release Compared to Adcetris®





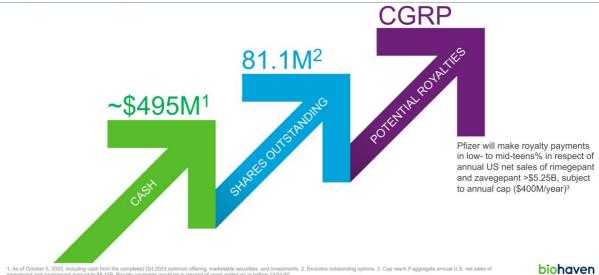
BHV-1500 is a CD30 (next-gen brentuximab vedotin) ADC

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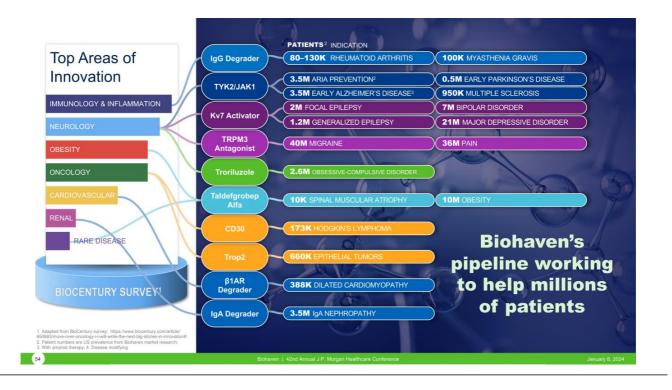
## Capitalization Updates



s ended on or before 12/31/40.

January 0, 2024

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## 2024 Milestones: Potential for Multiple Value Inflection Points

		1Q 2024	2Q 2024	2H 2024
Troriluzole   BHV-4157	Obsessive-Compulsive Disorder	Database Lock	Phase 3 IA Topline	
Taldefgrobep Alfa   BHV-2000	Spinal Muscular Atrophy			Phase 3 Topline
	Obesity		Initiate Phase 2	
Kv7 Activator   BHV-7000	Focal Epilepsy	Initiate Phase 2/3		
	Generalized Epilepsy		Initiate Phase 2/3	
	Bipolar Disorder	Initiate Phase 2/3		
	Major Depressive Disorder	Initiate Phase 2		
TDDM2 A-4: DLW 2400	Migraine			Initiate Phase 2
TRPM3 Antagonist   BHV-2100	Neuropathic Pain			Initiate POC
	Prevention of Amyloid Therapy Induced ARIA			Initiate Phase 2a
TYK2/JAK1   BHV-8000	Early Alzheimer's Disease			Initiate Phase 2/3
(brain-penetrant)	Early Parkinson's Disease			Initiate Phase 2/3
	Multiple Sclerosis		Initiate Phase 2	
lgG Degrader   BHV-1300	Rheumatoid Arthritis	Phase 1 IgG Lowering Data		
lgG Degrader   BHV-1310	Myasthenia Gravis			Initiate Phase 1
lgA Degrader   BHV-1400	IgA Nephropathy			Initiate Phase 1
β1-AR Degrader   BHV-1600	Dilated Cardiomyopathy			Initiate Phase 1
CD30   BHV-1500	Hodgkin's Lymphoma			File IND
Trop2   BHV-1510	Carcinoma	(	Initiate Phase 1	

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