### UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 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): July 14, 2021

# Foghorn Therapeutics Inc. (Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction of incorporation) 001-39634 (Commission File Number)

47-5271393 (IRS Employer Identification No.)

500 Technology Square, Ste 700 Cambridge, MA (Address of principal executive offices)

02139 (Zip Code)

(Registrant's telephone number, including area code): (617) 586-3100

Not Applicable (Former name or former address, if changed since last report)

Check th	e 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:
	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))

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(s)	Name of each exchange on which registered				
Common Stock, \$0.0001 par value per share	FHTX	The Nasdaq Global Market				
dicate 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 apter).						
Emerging growth company $\boxtimes$						
If an emerging growth company, indicate by check mark if the registrant has elected the Exchange Act. $\Box$	not to use the extended transition period for complying with any new or	r revised financial accounting standards provided pursuant to Section 13(a) of				

### Item 7.01 Regulation FD Disclosure.

The Company is furnishing as Exhibit 99.1 to this Current Report on Form 8-K a presentation, dated July 2021, which the Company intends to use in meetings with or presentations to investors.

The information in this Item 7.01 (including Exhibit 99.1 attached hereto) 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, nor shall it be deemed incorporated by reference in any 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 9.01 Financial Statements and Exhibits.

(d) Exhibits

 Exhibit No.
 Description

 99.1
 Investor Presentation, dated July 2021

### 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.

### FOGHORN THERAPEUTICS INC.

By: /s/ Allan Reine
Allan Reine, M.D.

Chief Financial Officer

Date: July 14, 2021



## **Targeting the Chromatin Regulatory System**

Broadening the Impact of Precision Medicines for Oncology and Other Diseases



July 2021

### **Forward-Looking Statements**

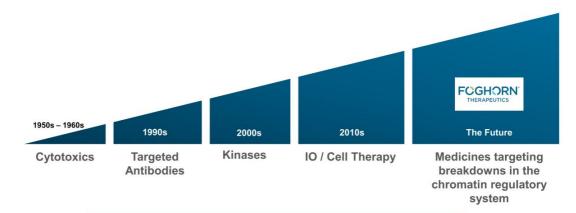


This presentation contains forward-looking statements. All statements other than statements of historical facts contained in this presentation are forward-looking statements. In some cases, you can identify forward-looking statements by terms such as "may," "will," "should," "expect," "plan," "anticipate," "could," "intend," "target," "project," "contemplate," "believe," "estimate," "predict," "potential" or "continue" or the negative of these terms or other similar expressions, although not all forward-looking statements contain these words. Forward-looking statements include, but are not limited to, statements concerning: the initiation, timing, progress and results of our research and development programs and preclinical and clinical trials, our ability to advance product candidates that we may develop and successfully complete preclinical and clinical studies; our ability to leverage our initial programs to develop additional product candidates using our Gene Traffic Control Platform; the impact of the COVID-19 pandemic in our and our collaborators' business operations, including our research and development programs and preclinical studies; developments related to our competitors and our industry; our ability to expand the target populations of our programs and the availability of patients for clinical testing; our ability to obtain regulatory approval for FHD-286, FHD-609 and any future product candidates from the FDA and other regulatory authorities; our ability to identify and enter into future license agreements and collaborations; our ability to continue to rely on our CDMOs and CROs for our manufacturing and research needs; regulatory developments in the United States and foreign countries; our ability to attract and retain key scientific and management personnel; the scope of protection we are able to establish, maintain and enforce for intellectual property rights covering FHD-286 and FHD-609, our future products and our Gene Traffic Control Platform; and our use of proceeds from our initial public offering, estimates of our expenses, capital requirements and needs for additional financing. Any forward-looking statements represent the Company's views only as of today and should not be relied upon as representing its views as of any subsequent date. The Company explicitly disclaims any obligation to update any forward-looking statements. The Company's business is subject to substantial risks and uncertainties.

**FCGHORN** 

### The Chromatin Regulatory System: The Next Wave of Cancer Therapies





Cancer is one of the leading causes of death worldwide

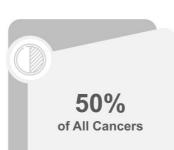
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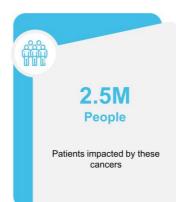
# Dysregulation of the Chromatin Regulatory System Has Been Implicated in up to 50% of All Cancers

Significant Market Opportunity





Based on exome sequencing, the chromatin regulatory system is implicated in ~50% of all cancers





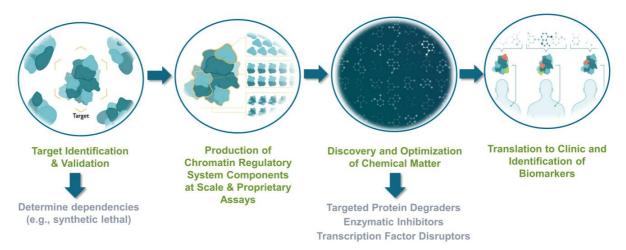
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# Our Gene Traffic Control Platform Makes It Possible to Understand and Drug Genetic Dependencies within the Chromatin Regulatory System

Integrated, Scalable, Efficient – Repeatable Paradigm



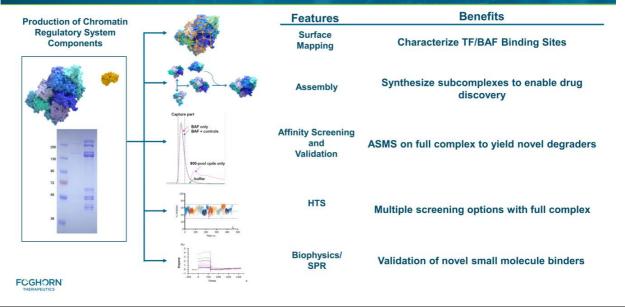


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# Platform is Powered by Ability to Produce Components at Scale Drives Drug Discovery Pipeline with Cutting Edge Technology





### **Heterobifunctional Degrader Platform**

**Optimization of Degrader Drug Properties** 

Foghorn Pursuing >8 Targeted Protein Degraders



# Degrader Design Optimal E3 ligase target pairing Proteomics Proteomics Proprietary chromatin remodeling assays Protein degradation kinetics Proprietary library of drug-like linkers and E3 ligase binders Chemistry to rapidly identify and optimize degraders Structural and Computational Approaches to Degrader Design Ternary complex crystal structures and modeling approaches for degrader optimization

Guidelines for both of oral and IV administered degraders

PKPD/efficacy and safety modeling to optimize dosing and scheduling

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### First Two Programs in the Clinic, Broad Pipeline Advancing

Precision Oncology / Breadth and Depth



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# **The Chromatin Regulatory System**

Orchestrates Gene Expression

# The Chromatin Regulatory System Orchestrates Gene Expression Two Major Components Work in Concert - Chromatin Remodeling Complexes and Transcription Factors Work together to orchestrate gene expression Chromatin Chromatin remodeling Chromatin remodeling Chromatin remodeling Chromatin remodeling Complex Transcription Factor Chromatin Ghromatin remodeling Chromatin remodeling Chro

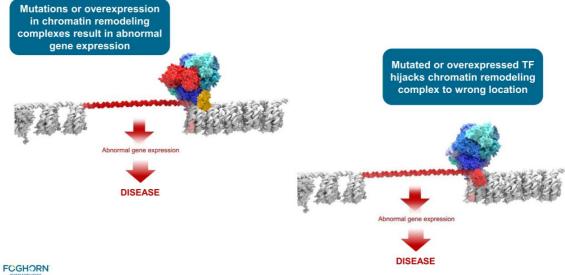
Chromatin – compacted form of DNA inside the nucleus of the cell

TF's guide chromatin remodeling complexes to the right locations

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THERAPELITICS

### Breakdowns in the Chromatin Regulatory System Lead to Disease

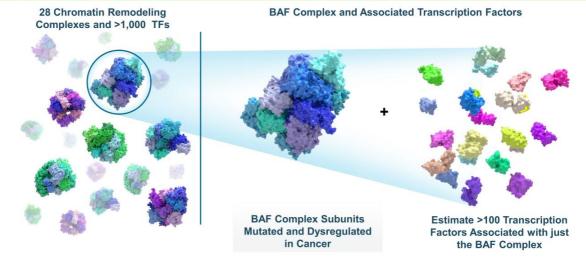




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### **Chromatin Regulatory System – Abundance of Targets**

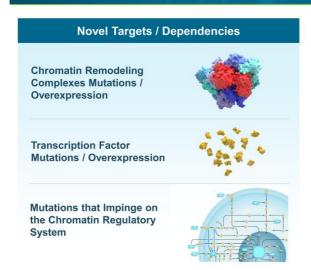


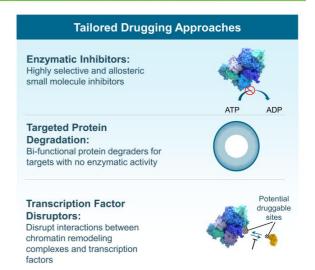


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# Mutations Lead to Disease Specific Genetic Dependencies on the Chromatin Regulatory System







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## FHD-286: Clinical Entry Point - AML and Uveal Melanoma

FHD-286 is a Potent, Selective, Allosteric, Small Molecule Inhibitor of the BRG1 and BRM subunits of the BAF complex

### FHD-286 Targets Abnormal Dependencies on BAF in Cancer

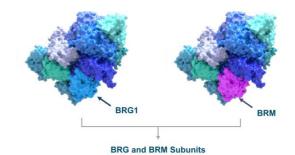


Target / Approach	BRG1/BRM ATPase     Small molecule, allosteric, oral enzymatic inhibitor
Indications	Acute myelogenous leukemia (AML)     Uveal melanoma     Indication expansion work ongoing in multiple solid tumors
Mutation / Aberration	AML: Elevated BRG1-BAF / TF activity in AML blast cells     Uveal Melanoma: GNAQ/GNA11 mutated UM is driven by dependency on BAF / TF activity
Program Status / Milestones	Phase I studies enrolling in AML and metastatic uveal melanoma Phase I data as early as Q4'21
New Patients Impacted / Year*	AML: Over 20,000 relapsed and/or refractory patients     Uveal melanoma: Over 5,000 patients

<sup>\*</sup> US, EU5, Japan

### FOGHORN

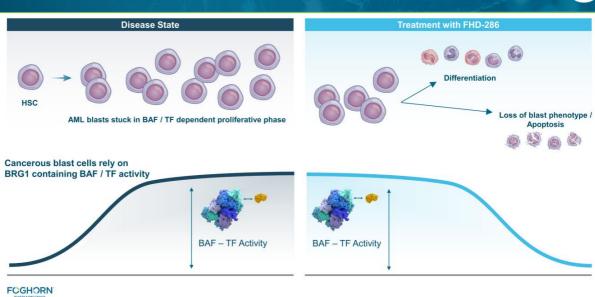
### **BAF Chromatin Remodeling Complex**



- BRM/BRG1 is the engine (ATPase) of the BAF chromatin remodeling complex
- BRG1 & BRM are highly similar proteins

### AML & Dependency on BRG1 / Lineage Dependent TF Interactions

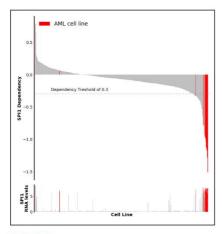


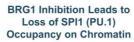


### AML Dependent on BRG1 / Lineage TF Interaction

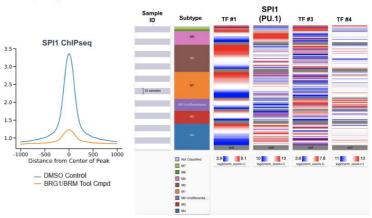


SPI1 (PU.1) / BAF Dependency









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### FHD-286 Shows Broad Efficacy Across AML Patient Derived Samples

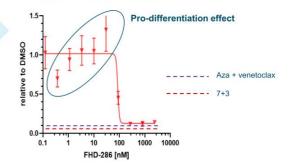


Notable Patient ID	Deep Response	Pathology Review	Disease Status
1690AML1	Υ	AML	Secondary
1695AML1	Y	AML/MDS	Secondary
1696AML1	Y	AML	Secondary
1701AML1	Υ	AML	Secondary
1893AML1	Y	AML	R/R
1899AML1	Y	AML	R/R
1990pAML1	Υ	AML	R/R
1991pAML1	Y	AML	de novo
2041AML1	Y	N/A	de novo
2043pAML1	Y	AML	R/R
2059AML1	Y	AML	R/R
1682AML1	~	N/A	N/A
1689AML1	~	AML/MDS	de novo
1684AML1	N	CML	R/R
1924AML1	N	AML/MDS	R/R

Y = Deep reduction in blast cells ~ = Partial reduction N = No response



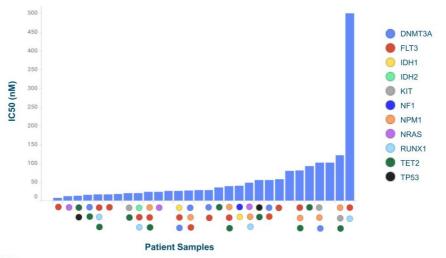
### 1695AML1 - BM-secondary AML



- Response observed in a majority of primary AML samples, irrespective of prior treatment or disease
- Additional data set from patient derived samples demonstrate mutation agnostic responses

# FHD-286 Shows Effect Across a Range of Mutations in AML Patient-Derived Samples

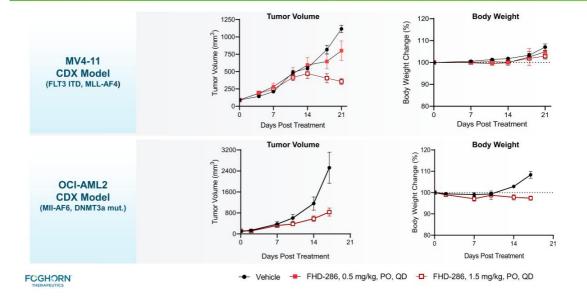




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# Dose-Dependent Tumor Growth Inhibition Observed with FHD-286 Treatment in AML CDX Models

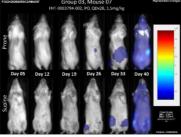


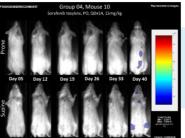


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FHD-286 1.5 mg/kg QDx28





Sorafenib 15 mg/kg, QDx14

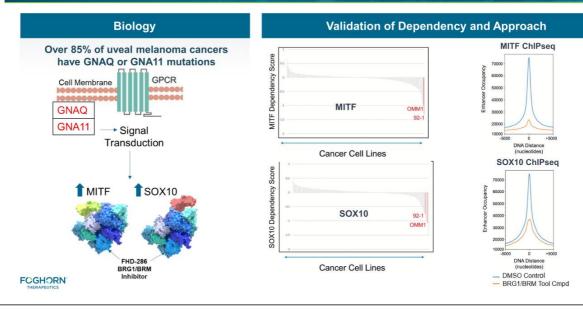
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# Therapeutic Rationale for Uveal Melanoma: Dependency on Overexpression of the MITF / SOX10 Transcription Factors and the BAF Complex

Inhibiting BRG1/BRM to Shut Down the Abnormal TF Interaction with the BAF Complex



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# FHD-286 was Associated with Dose-Dependent Tumor Regression in Uveal Melanoma CDX Models at Tolerated Doses

**Tumor Volume** 

1200-

900-

600-

Tumor Volume (mm<sup>3</sup>)



# MP-46 uveal melanoma CDX model

- Dose-dependent tumor growth inhibition
- Well tolerated

# 92-1 uveal melanoma CDX model

- Dose-dependent tumor growth inhibition
- Tumor regression at 1.5 mg/kg, PO, QD
- Well tolerated

Days Post Treatment

Tumor Volume

750

600

450

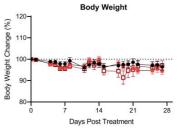
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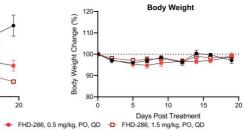
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Days Post Treatment

Vehicle





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### FHD-286 Clinical Development Plan

Two Parallel Phase 1 Studies Activated



### **CLINICAL PLAN**

AML & Uveal Melanoma FIH Phase 1 Studies

Relapsed / Refractory AML & MDS

### **Metastatic Uveal Melanoma**

### **Trial Designs**

- Single patient accelerated titration (n=1)
- Convert to 3+3 once relevant PK/PD, safety or clinical activity observed
- Retrospective biomarker analysis to further evaluate safety and efficacy
- Assess safety, PK, biomarkers and efficacy

Expansion cohorts in AML, UM and potentially other indications Potential for entry into definitive efficacy trials in AML

Potential for entry into definitive efficacy trials in metastatic uveal melanoma

Potential for Indication Expansion Beyond AML and UM

Clinical data as early as Q4 2021

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## FHD-609: Clinical Entry Point – Synovial Sarcoma

FHD-609 is a Selective, Potent, Protein Degrader of the BRD9 component of the BAF complex

# FHD-609 Targets and Degrades the BRD9 subunit of BAF which is Required for Synovial Sarcoma Cells to Survive

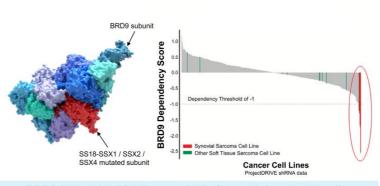








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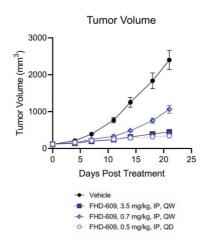
BRD9 is required for the survival of synovial sarcoma cells

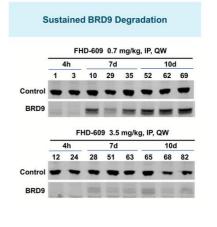
### Robust in vivo Activity Observed in Synovial Sarcoma Model and BRD9 Degradation Associated with FHD-609 Treatment Weekly Dosing of FHD-609 Achieved Sustained BRD9 Degradation



### SY01 Synovial Sarcoma **CDX Model**

- Mutation: SS18-SSX2
- Inhibited tumor growth
- Dose dependent BRD9 degradation correlated with anti-tumor activity





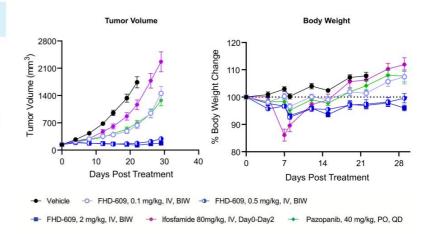
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# Superior Tumor Growth Inhibition of FHD-609 in a Synovial Sarcoma Model as Compared to Ifosfamide and Pazopanib



### **ASKA CDX Model**

- Mutation: SS18-SSX1
- Superior tumor growth inhibition compared to ifosfamide and pazopanib
- Complete suppression observed over 30 days at 2 mg/kg of FHD-609



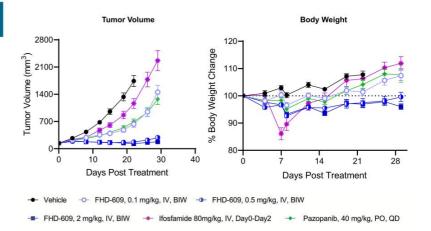
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# Superior Tumor Growth Inhibition of FHD-609 in a Synovial Sarcoma Model as Compared to Ifosfamide and Pazopanib



### **ASKA CDX Model**

- Mutation: SS18-SSX1
- Superior tumor growth inhibition compared to ifosfamide and pazopanib
- Complete suppression observed over 30 days at 2 mg/kg of FHD-609



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### **FHD-609 Clinical Development Plan**



### **CLINICAL PLAN**

Synovial Sarcoma FIH Phase 1

**Metastatic Synovial Sarcoma** 

### Sarcoma Synoviai

### Trial Designs

- Single patient accelerated titration (n=1)
- Convert to 3+3 once relevant PK/PD, safety or clinical activity observed
- Assess safety, PK, clinical activity and biomarkers

Synovial Sarcoma expansion cohorts

SMARCB-1 deleted tumors and potentially other indications Potential for entry into definitive efficacy trials in synovial sarcoma

### Biomarkers:

SS18-SSX1, SS18-SSX2 or SS18-SSX4 translocation

### Clinical data as early as H1 2022





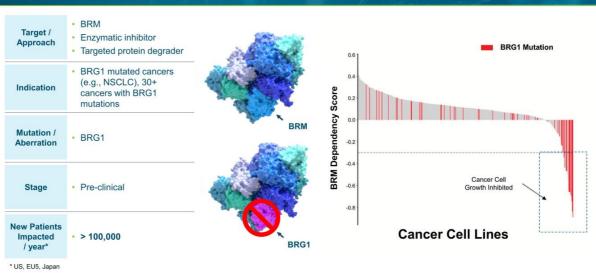
### **Selective BRM Modulators for BRG1 Mutated Cancers**

Enzymatic Inhibitor and Protein Degrader Programs

### **BRG1 Mutations Create a Genetic Dependency on BRM**

Selective BRM Modulators Overview

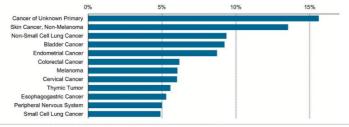
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### BRG1 Mutated in ~5% of All Tumors

Broad Addressable Patient Population





BRG1 mutated across range of tumors

Accounts for ~5% of all tumors

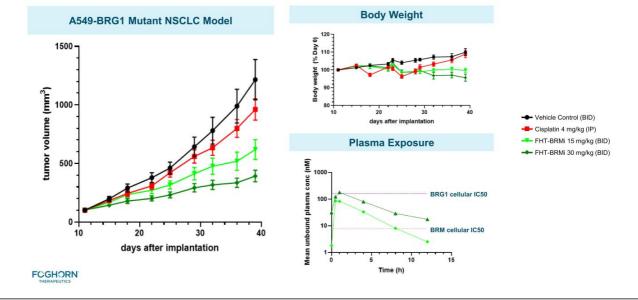


BRG1 mutated in up to 10% of NSCLC tumors, minimal overlap with other mutations



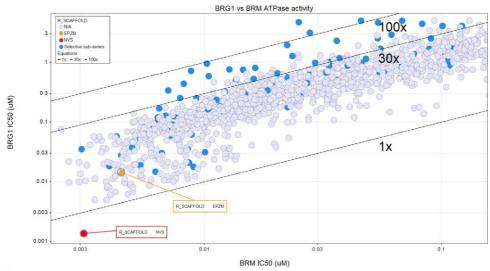
# BRM Selective Inhibitor In vivo Efficacy Demonstrates PK/PD and In vivo Efficacy in a BRG1 Mutant Lung CDX Model





## Enzymatic selectivity approaching 200x achieved





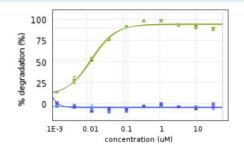
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Company Confidential & Proprietary Information

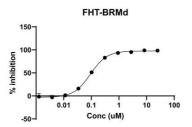
# Advancing BRM Selective Degraders Achieving Complete BRM Degradation







#### A549 Ten-Day Proliferation Assay



Degraders cause time- and dose-dependent BRM degradation, antiproliferative effects in A549 BRG1 mutant NSCLC lung model

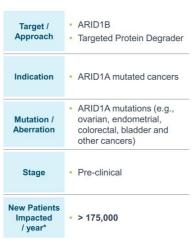
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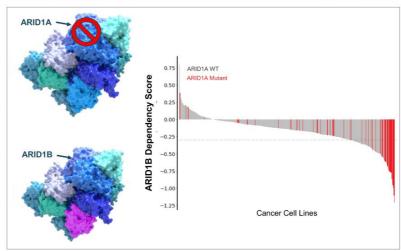


**Selective ARID1B Protein Degrader for ARID1A Mutated Cancers** 

## ARID1A – Most Mutated Subunit in BAF Complex – Creates Dependency on ARID1B

Selective ARID1B Protein Degrader Overview





\* US, EU5, Japan

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#### Targeting ARID1A Mutated Cancers: ARID1B Protein Degrader

Advantaged by Gene Traffic Control Platform and Protein Degrader Capabilities



#### **Gene Traffic Control Platform**

- Platform produces BAF complexes and subcomplexes containing either ARID1A or ARID1B at scale
- Enables proprietary screens against ARID1B

#### **Protein Degrader Capabilities**

Utilize protein degrader toolbox to create ARID1B hetero-bifunctional degraders

# Highly purified ARID1B / BAF complex ARID1B

#### **Biology & Opportunity**

- ARID1A is the most highly mutated subunit of the BAF complex in cancer
- ~5% of all tumors harbor ARID1A mutations including; endometrial cancer (~40%), bladder cancer (~25%) and ovarian (~15%)
- Synthetic lethal relationship with ARID1B

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# **Novel Approach to Targeting Transcription Factors**

Disrupting Transcription Factor – Chromatin Remodeling Complex Interactions

#### A New Approach to Drugging Transcription Factors

Enabled by Proprietary Ability to Purify and Synthesize Chromatin Regulatory System Components

Historical

**Focus** 



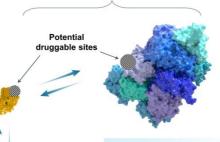
#### TFs are compelling drug targets...

- Highly involved in gene expression
- Implicated in range of cancers and other diseases

#### ...but historically difficult to target

- Featureless surface: no druggable binding pocket
- Tight interactions with DNA: undruggable affinities

#### Foghorn's Focus



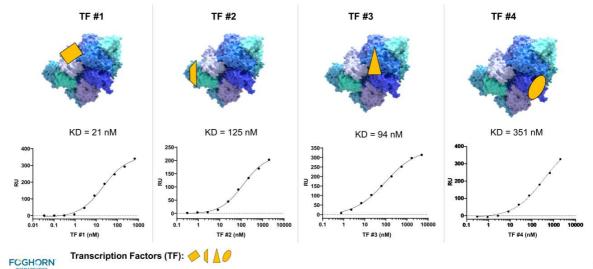


- Druggable binding pockets
- Druggable affinities



# Transcription Factor-Chromatin Remodeling Complex Interactions Unique Insights in Where and How Transcription Factors Bind





#### Highly Scalable Approach and Significant Unmet Medical Need





- >100 TFs estimated associated with BAF
- Foghorn pursuing multiple TFs in parallel
- Approach highly scalable and potential broad application other chromatin remodeling complexes and other diseases



- Merck collaboration to drug single specified transcription factor target
- \$425 million in up-front, research, development and sales-based milestones
- · Up to low double-digit royalties on product sales

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#### **Investment Highlights**



#### LARGE MARKET POTENTIAL

- Biology implicated in up to 50% of cancer potentially impacting ~2.5 million patients
- Potential applications beyond oncology in diseases including virology, autoimmune disease and neurology

#### WELL FUNDED

\$160.9 million cash and equivalents as of 3/31/2021



#### **EXPERIENCED LEADERSHIP TEAM**

- Expertise across drug discovery, clinical development and commercialization
- Over 220 drug candidates into the clinic and over 30 drugs approved

#### MEANINGFUL UPCOMING MILESTONES

- Phase I FHD-286 data as early as Q4'21
- Phase I FHD-609 data as early as H1'22





# **Appendix**

#### **Proven Leadership Team**





Adrian Gottschalk, President & CEO
Biogen



Steve Bellon, Ph.D., SVP, Drug Discovery

Constellation AMGEN



Scott Innis, VP, Program Leadership

Biogen LEERINK



Sam Agresta, M.D., M.P.H., CMO

3gios Genentech
Administration to be trap



Fanny Cavalle, SVP, Business & Operations

\*\*Biogen McKinsey & Company



Jacqueline Cinicola, VP Regulatory Affairs

agios 

Muller Affairs



Carl Decicco, Ph.D., CSO

Bristol-Myers Squibb

Infinity



Carlos Costa, SVP, HR

Biogen

Roche



Murphy Hentemann, Ph.D., VP Program Leadership
U NOVARTIS AstraZeneca



Michael LaCascia, CLO

VERTEX

WILMERHALE



Ryan Kruger, PhD, VP, Biology





Allan Reine, M.D., CFO



David Millan, Ph.D, VP, Chemistry

forma

VERTEX



Nicola Majchrzak, VP, Clinical Development



#### **Experienced Leadership Team with Industry Leading Advisors and Investors**



BOARD OF DIRECTORS			
Doug Cole, M.D.	Cigall Kadoch, Ph.D. Dana-Farber, Broad, HMS; Founder		
Flagship Pioneering – Board Chair; Founder			
Scott Biller, Ph.D.	Adam Koppel, M.D., Ph.D.		
Former CSO and Strategic Advisor, Agios	Bain Capital Life Sciences		
Simba Gill, Ph.D.	Michael Mendelsohn, M.D.		
Evelo Biosciences, Partner at Flagship Pioneering	Cardurion Pharmaceuticals		
Adrian Gottschalk	lan Smith		
Foghorn President & CEO	Exec. Chair of Solid Bio., Chair of ViaCyte, Former COO of Vertex		
SCIENTIFIC AND OTHER ADVISORS -			
Charles Sawyers, M.D.	Gerald Crabtree, M.D.		
MSKCC, HHMI – SAB Chair	Stanford, HHMI; Founder		
Faheem Hasnain	David Schenkein, M.D.		
Gossamer Bio, Chair of Mirati	General Partner, GV		
Craig Peterson, Ph.D.	Tony Kouzarides, Ph.D.		
Professor UMass Medical School	Gurdon Institute – University of Cambridge		

