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): August 23, 2022

Foghorn Therapeutics Inc.

(Exact name of registrant as specified in its charter)

Delaware	**001-39634**	**47-5271393**
(State or other jurisdiction of incorporation)	**(Commission File Number)**	**(IRS Employer Identification No.)**

500 Technology Square, Ste 700

Cambridge, MA **02139**

(Address of principal executive offices) (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 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:

☐ 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**

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 ☒

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. ☐

Item 7.01 Regulation FD Disclosure.

On August 23, 2022, Foghorn Therapeutics Inc. (the "Company") issued a press release, a copy of which is furnished as Exhibit 99.1 to this Current Report on Form 8-K. Additionally, the Company is furnishing as Exhibit 99.2 hereto a presentation, dated August 2022, which the Company intends to use in meetings with or presentations to investors.

The information in this Item 7.01 (including Exhibits 99.1 and 99.2 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 into any filing by the Company 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	Press Release issued on August 23, 2022
99.2	Investor Presentation dated August 2022

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: August 23, 2022

Foghorn Therapeutics Provides Further Update on FHD-286 Phase I Study in Relapsed/Refractory AML/MDS

CAMBRIDGE, Mass. -- (GLOBE NEWSWIRE) – August 23, 2022 -- Foghorn® Therapeutics Inc. (Nasdaq: FHTX), a clinical stage biotechnology company pioneering a new class of medicines that modulate gene expression through selectively targeting the chromatin regulatory system, today announced that the U.S. Food and Drug Administration (FDA) has placed a full clinical hold on the Phase 1 dose escalation study of FHD-286, an inhibitor of BRG1/BRM, in relapsed and/or refractory acute myelogenous leukemia (AML) and myelodysplastic syndrome (MDS). The dose escalation Phase 1 study of FHD-286 in metastatic uveal melanoma (mUM) continues per protocol. The company plans to report data from the mUM study in the first half of 2023.

The full clinical hold in the AML/MDS study is due to the observation, in the data submitted in response to the partial hold, of additional suspected cases of fatal differentiation syndrome believed to be associated with FHD-286. Differentiation syndrome is associated with AML/MDS therapeutics that induce differentiation, an effect that has been seen with, and is believed to be on-target for, the proposed mechanism of action for FHD-286. The FDA has additional questions and requires further analyses before the clinical hold may be lifted.

“We are committed to patient safety and will work with the FDA to address the agency’s questions and provide further analyses to resolve the clinical hold as soon as possible,” said Foghorn CEO Adrian Gottschalk.

About FHD-286

FHD-286 is a highly potent, selective, allosteric and orally available, small-molecule, enzymatic inhibitor of BRG1 and BRM, two highly similar proteins that are the ATPases, or the catalytic engines across all forms of the BAF complex, one of the key regulators of the chromatin regulatory system. In preclinical studies, FHD-286 has shown anti-tumor activity across a broad range of malignancies including both hematologic and solid tumors. To learn more about these studies please visit ClinicalTrials.gov. (Link here for metastatic uveal melanoma and here for AML and MDS).

About AML

Adult acute myeloid leukemia (AML) is a cancer of the blood and bone marrow and the most common type of acute leukemia in adults. AML is a diverse disease associated with multiple genetic mutations. It is diagnosed in about 20,000 people every year in the United States.

About Uveal Melanoma

Uveal (intraocular) melanoma (UM) is a rare eye cancer that forms from cells that make melanin in the iris, ciliary body, and choroid. It is the most common eye cancer in adults. It is diagnosed in about 2,000 adults every year in the United States and occurs most often in lightly pigmented individuals with a median age of 55 years. However, it can occur in all races and at any age. UM metastasizes in approximately 50% of cases, leading to very poor prognosis.

About Foghorn Therapeutics

Foghorn® Therapeutics is discovering and developing a novel class of medicines targeting genetically determined dependencies within the chromatin regulatory system. Through its proprietary scalable Gene Traffic Control® platform, Foghorn is systematically studying, identifying and validating potential drug targets within the chromatin regulatory system. The Company is developing multiple product candidates

in oncology. Visit our website at www.foghorntx.com for more information on the company, and follow us on Twitter and LinkedIn.

Forward-Looking Statements

This press release contains "forward-looking statements." Forward-looking statements include, but are not limited to, statements concerning the Company's clinical trials, including the Company's efforts to resolve the full clinical hold relating to its Phase 1 clinical trial of FHD-286 in AML/MDS and the timing of release of initial clinical data relating to its ongoing clinical trials. Forward-looking statements include statements regarding the Company's clinical trials, product candidates and research efforts and other statements identified by words such as "could," "may," "might," "will," "likely," "anticipates," "intends," "plans," "seeks," "believes," "estimates," "expects," "continues," "projects" and similar references to future periods. Forward-looking statements are based on our current expectations and assumptions regarding capital market conditions, our business, the economy and other future conditions. Because forward-looking statements relate to the future, by their nature, they are subject to inherent uncertainties, risks and changes in circumstances that are difficult to predict. As a result, actual results may differ materially from those contemplated by the forward-looking statements. Important factors that could cause actual results to differ materially from those in the forward-looking statements include regional, national or global political, economic, business, competitive, market and regulatory conditions, including risks relating to our clinical trials and other factors set forth under the heading "Risk Factors" in the Company's Annual Report on Form 10-K for the year ended December 31, 2021 and subsequent Quarterly Reports on Form 10-Q, as filed with the Securities and Exchange Commission. Any forward-looking statement made in this press release speaks only as of the date on which it is made.

Contact:

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Exhibit 99.2

FOGHORN® THERAPEUTICS

CORPORATE OVERVIEW

Leveraging unique insights into the chromatin regulatory system to pioneer a new class of precision therapies in oncology and beyond

August 2022

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 “could,” “may,” “might,” “will,” “likely,” “anticipates,” “intends,” “plans,” “seeks,” “believes,” “estimates,” “expects,” “continues,” “projects” 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 potential outcomes from the Collaboration Agreement with Lilly; the initiation, timing, progress and results of our research and development programs and preclinical and clinical trials, including the potential resolution of the full clinical hold and anticipated timing of release of full clinical data; 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 on 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 capital-raising transactions, 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.

FIRST-IN-CLASS PRECISION MEDICINES TARGETING CANCER AND OTHER DISEASES

LARGE MARKET POTENTIAL

Chromatin biology implicated in up to **50% of cancer**, potentially impacting **~2.5 million patients**

Potential applications in virology, autoimmune diseases and neurology

WELL-FUNDED

$394.7 million in cash and equivalents

(as of 6/30/2022)

UPCOMING MILESTONES

FHD-286: Initial clinical data for mUM expected H1'23

FHD-286: AML/MDS study on full clinical hold, initial clinical data TBD

FHD-609: Initial clinical data expected in 2023

SIGNIFICANT GLOBAL PARTNERSHIPS

Strategic collaboration with Loxo Oncology at Lilly; $380 million upfront; 50/50 U.S. economic split on two lead programs

Merck collaboration to drug single specified transcription factor target; $15 million upfront and up to $410 million in milestones

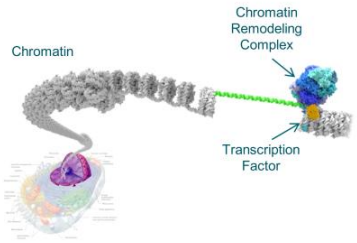
EXPERIENCED LEADERSHIP TEAM

Expertise across drug discovery, clinical development and commercialization

UNIQUE INSIGHTS INTO CHROMATIN BIOLOGY

Untapped Area for Novel Targets and Therapeutics

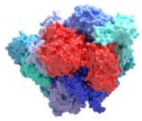
CHROMATIN REGULATORY SYSTEM CRITICAL FOR GENE EXPRESSION



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

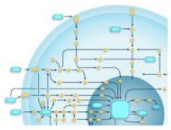
NOVEL TARGETS GUIDED BY GENETIC DEPENDENCIES

Chromatin Remodeling Complex Mutations / Overexpression



Transcription Factor Mutations / Overexpression

Mutations That Impinge on the Chromatin Regulatory System



TAILORED DRUGGING APPROACHES

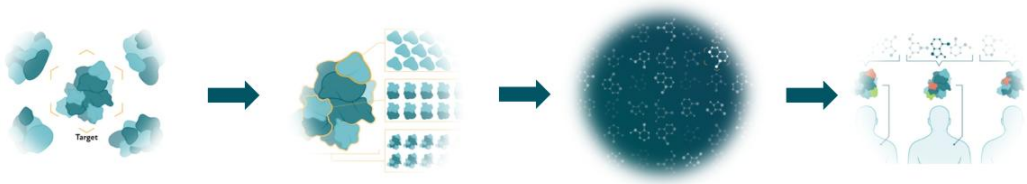
Targeted Protein Degradation: Bi-functional protein degraders for targets with no enzymatic activity

Enzymatic Inhibitors: Highly selective and allosteric small molecule inhibitors

Transcription Factor Disruptors: Disrupt interactions between chromatin remodeling complexes and transcription factors

FOGHORN'S GENE TRAFFIC CONTROL® PLATFORM

Integrated, Scalable, Efficient – Repeatable Paradigm



TARGET IDENTIFICATION & VALIDATION

Determine dependencies (e.g., synthetic lethal)

PRODUCTION OF CHROMATIN REGULATORY SYSTEM COMPONENTS & PROPRIETARY ASSAYS

Unique capabilities to purify and synthesize chromatin remodeling complexes and transcription factors at scale

DISCOVERY AND OPTIMIZATION OF CHEMICAL MATTER

Enzymatic Inhibitors

Targeted Protein Degraders

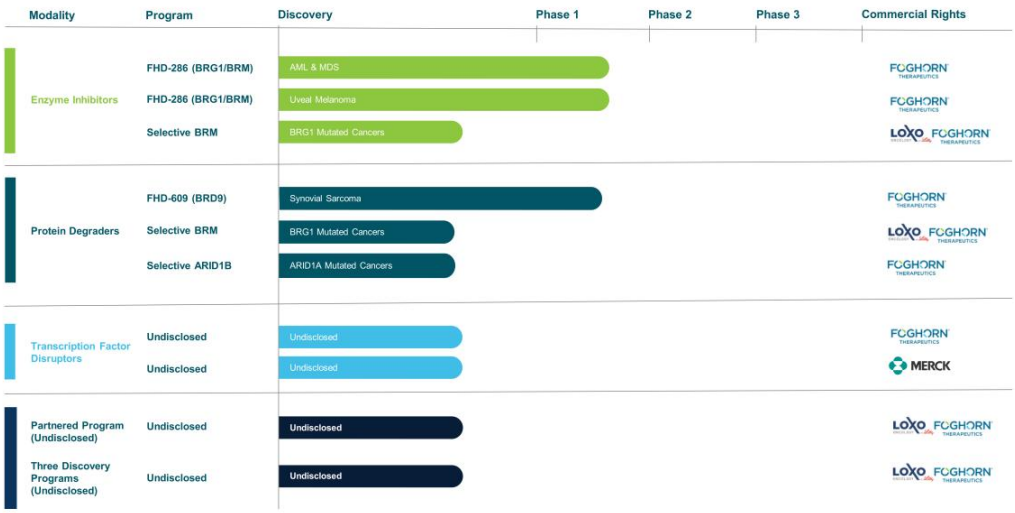
Transcription Factor Disruptors

TRANSLATION TO CLINIC AND IDENTIFICATION OF BIOMARKERS

Over 15 programs evaluating protein degraders, enzymatic inhibitors and transcription factor disruptors for diverse cancers impacted by breakdowns in the chromatin regulatory system

BROAD PIPELINE ACROSS A RANGE OF TARGETS AND MODALITIES

Precision Oncology / Breadth and Depth / Over 15 Programs



FOGHORN THERAPEUTICS

FHD-286

In Phase 1 Dose Escalation for AML / MDS & Uveal Melanoma

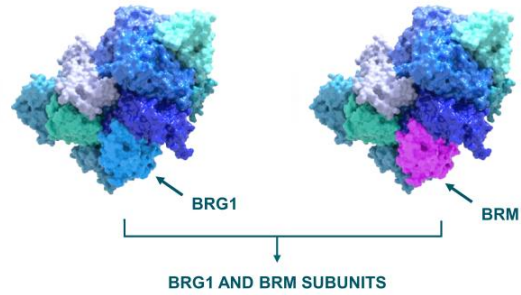
FHD-286 is a Potent, Selective, Allosteric, Small Molecule Inhibitor of the BRG1 and BRM subunits of the BAF complex

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) and myelodysplastic syndromes (MDS) • 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 1 study enrolling in mUM, initial clinical data expected H1'23 • AML/MDS study on full clinical hold, initial clinical data TBD
New Patients Impacted / Year*	• **AML**: Over 20,000 relapsed and / or refractory patients • **MDS**: Over 7,000 high-risk MDS patients • **Uveal melanoma**: Over 5,000 patients

* U.S., EU5, Japan

BAF CHROMATIN REMODELING COMPLEX



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

FHD-286 CLINICAL DEVELOPMENT PLAN

Two Parallel Phase 1 Studies

PHASE 1 DOSE ESCALATION STUDIES

- Relapsed / Refractory AML & MDS
- Metastatic Uveal Melanoma

Phase 1 Study 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

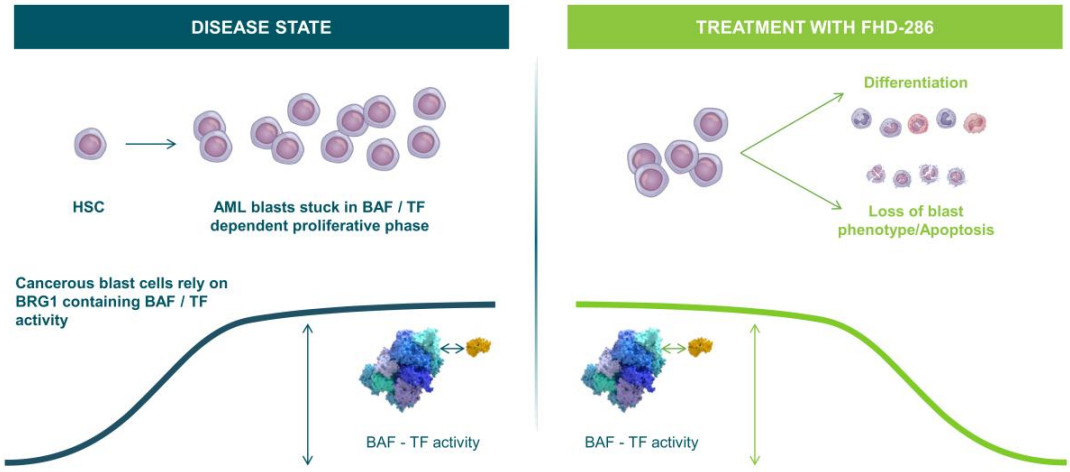
PHASE 1 EXPANSION STUDIES

- Expansion cohorts in AML, UM and potentially other indications

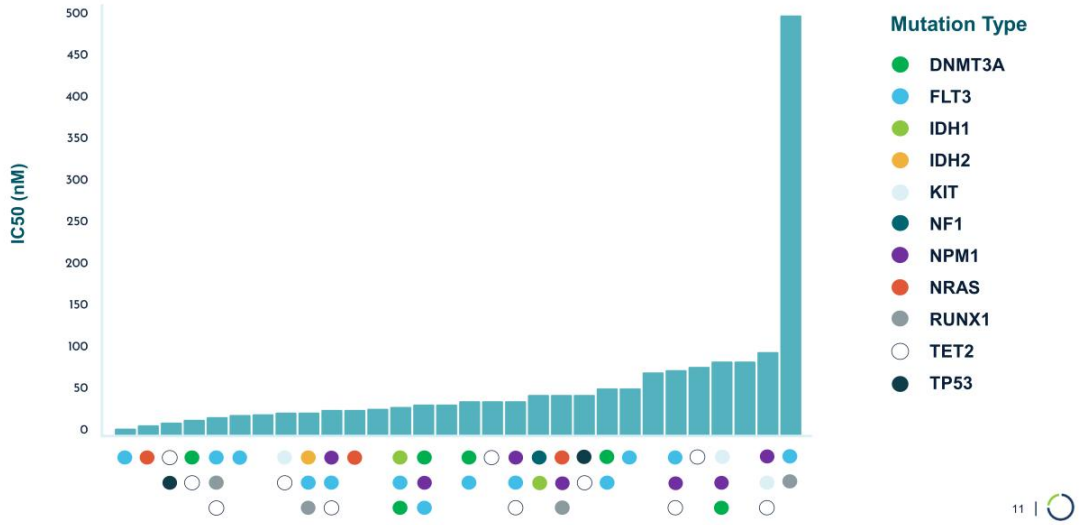
POTENTIAL DEFINITIVE EFFICACY TRIALS & INDICATION EXPANSION

- Potential for entry into definitive efficacy trials in AML
- Potential for entry into definitive efficacy trials in metastatic UM
- Potential for indication expansion beyond AML and UM

AML: DEPENDENCY ON BRG1 / LINEAGE TF INTERACTIONS



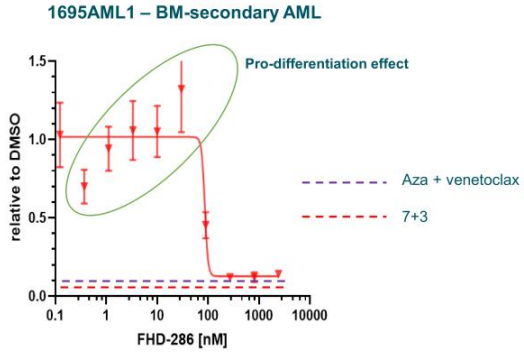
FHD-286 SHOWS EFFECT ACROSS A BROAD RANGE OF MUTATIONS IN AML PATIENT-DERIVED SAMPLES



PRECLINICAL FHD-286 DATA SHOWS EFFICACY ACROSS AML PATIENT-DERIVED SAMPLES

Notable Patient ID	Deep Response	Pathology Review	Disease Status
1690AML1	Y	AML	Secondary
1695AML1	Y	AML/MDS	Secondary
1696AML1	Y	AML	Secondary
1701AML1	Y	AML	Secondary
1893AML1	Y	AML	R/R
1899AML1	Y	AML	R/R
1990pAML1	Y	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

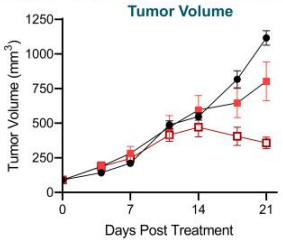
Y = Deep reduction in blast cells ~ = Partial reduction N = No response

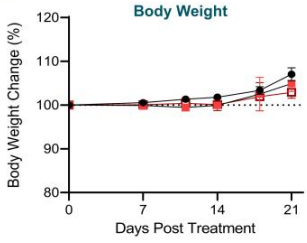


- Response observed in a majority of primary AML samples, irrespective of prior treatment or disease stage
- Additional data set from patient-derived samples demonstrate mutation-agnostic responses

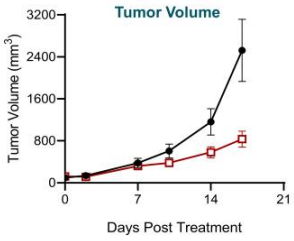
DOSE-DEPENDENT TUMOR GROWTH INHIBITION OBSERVED WITH FHD-286 TREATMENT IN AML CDX MODELS

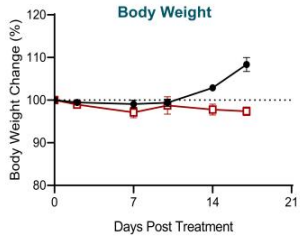
MV4-11 CDX Model
(FLT3 ITD, MLL-AF4)





OCI-AML2 CDX MODEL
(MII-AF6, DNMT3A MUT.)



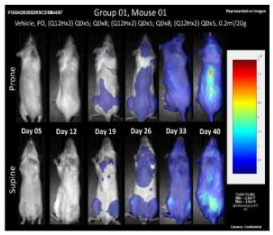


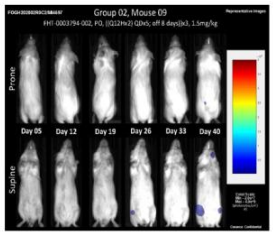
Vehicle — FHD-286, 0.5 mg/kg, PO, QD — FHD-286, 1.5 mg/kg, PO, QD

TUMOR GROWTH INHIBITION WITH FHD-286 TREATMENT OBSERVED BY BIOLUMINESCENCE

Imaging in a Disseminated AML Model

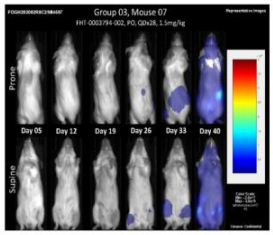
VEHICLE

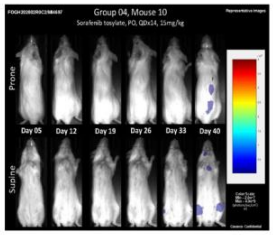




FHD-286
1.5 MG / KG, BID
(5ON / 8OFF) X3

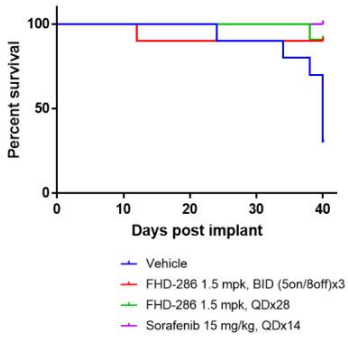
FHD-286
1.5 MG / KG
QDX28





SORAFENIB
15 MG / KG,
QDX14

FHD-286 SURVIVAL ADVANTAGE IN DISSEMINATED AML MODEL

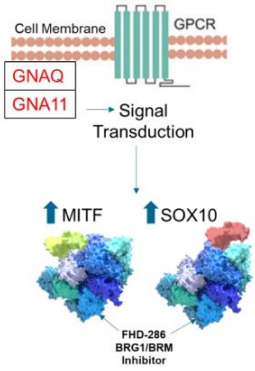


THERAPEUTIC RATIONALE FOR UVEAL MELANOMA

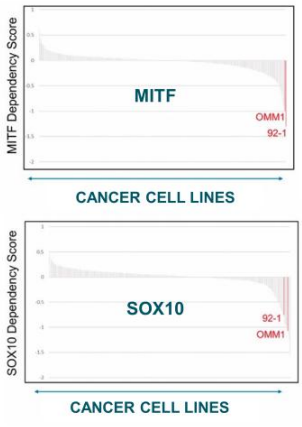
Dependency on Two Lineage Transcription Factors MITF / SOX10

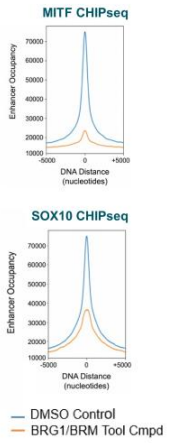
BIOLOGY

OVER 85% OF UVEAL MELANOMA CANCERS HAVE GNAQ OR GNA11 MUTATIONS



VALIDATION OF DEPENDENCY AND APPROACH



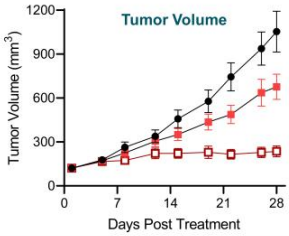


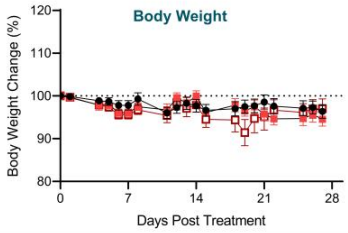
FHD-286 WAS ASSOCIATED WITH DOSE-DEPENDENT TUMOR REGRESSION IN UVEAL MELANOMA CDX MODELS AT TOLERATED DOSES

MP-46 UVEAL MELANOMA CDX MODEL

Dose-dependent tumor growth inhibition

Well-tolerated



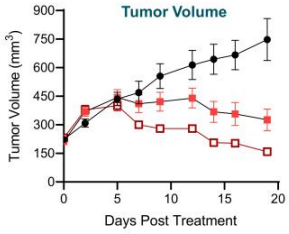


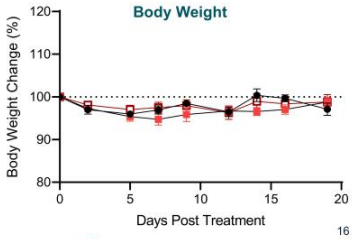
92-1 UVEAL MELANOMA CDX MODEL

Dose-dependent tumor growth inhibition

Tumor regression at 1.5 mg / kg, PO, QD

Well-tolerated





FHD-609

In Phase 1 Dose Escalation for Synovial Sarcoma

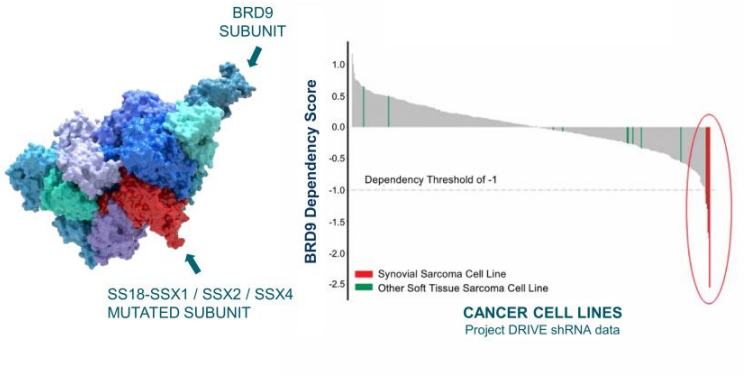
FHD-609 is a Selective, Potent, Protein Degrader of the BRD9 component of the BAF complex

FHD-609 TARGETS AND DEGRADES THE BRD9 SUBUNIT OF BAF WHICH IS REQUIRED FOR SYNOVIAL SARCOMA CELLS TO SURVIVE

Selective, Potent BRD9 Targeted Protein Degrader

Target / Approach	• BRD9 • Intravenous protein degrader
Initial Indication	• Synovial sarcoma
Mutation / Aberration	• SS18-SSX1 / SSX2 / SSX4 protein fusions
Program Status / Milestones	• Initial clinical data expected 2023
New Patients Impacted / Year*	• Synovial sarcoma: Over 1,800

BRD9 IS REQUIRED FOR THE SURVIVAL OF SYNOVIAL SARCOMA CELLS



* U.S., EU5, Japan

FHD-609 CLINICAL DEVELOPMENT PLAN

PHASE 1 DOSE ESCALATION STUDY

- Metastatic Synovial Sarcoma

Phase 1 Study Design	• 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
Biomarkers	• SS18-SSX1, SS18-SSX2 or SS18-SSX4 translocation

PHASE 1 EXPANSION STUDIES

- Metastatic synovial sarcoma expansion cohorts
- SMARCB-1 deleted tumors and potentially other indications

POTENTIAL DEFINITIVE EFFICACY TRIALS & INDICATION EXPANSION

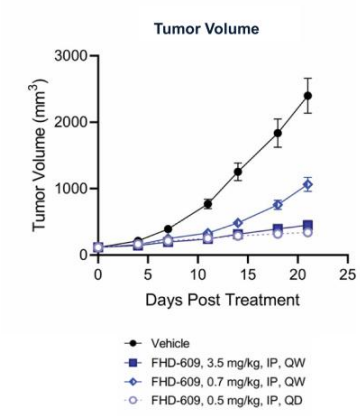
- Potential for entry into definitive efficacy trials in metastatic synovial sarcoma
- Potential for indication expansion beyond metastatic synovial sarcoma

ROBUST *IN VIVO* ACTIVITY OBSERVED IN SYNOVIAL SARCOMA MODEL AND BRD9 DEGRADATION ASSOCIATED WITH FHD-609 TREATMENT

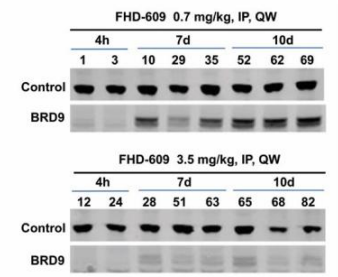
Weekly Dosing of FHD-609 Achieved Sustained BRD9 Degradation

SY01 SYNOVIAL SARCOMA CDX MODEL

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



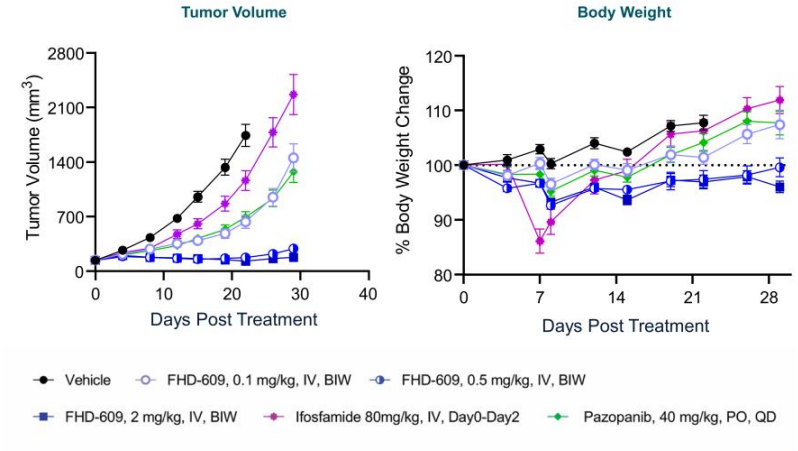
SUSTAINED BRD9 DEGRADATION



SUPERIOR TUMOR GROWTH INHIBITION WITH 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



FOGHORN THERAPEUTICS

SELECTIVE BRM MODULATORS

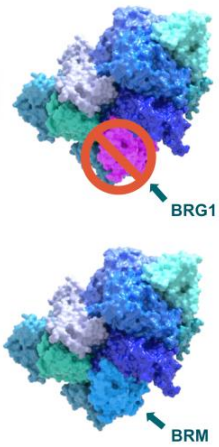
FOR BRG1 MUTATED CANCERS

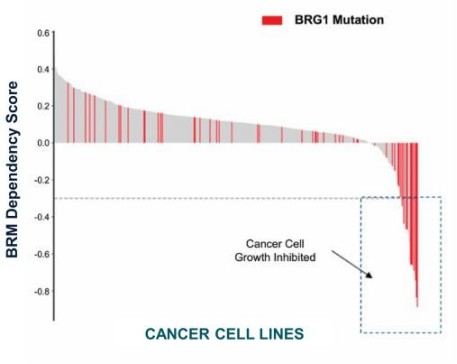
Enzymatic Inhibitor and Protein Degrader Programs targeting BRG1 mutated cancers (e.g., NSCLC), 30+ cancers with BRG1 mutations

BRG1 MUTATIONS CREATE A GENETIC DEPENDENCY ON BRM

Selective BRM Modulators Overview

Target / Approach	• BRM • Enzymatic inhibitor • Targeted protein degrader
Indications	• BRG1 mutated cancers (e.g., NSCLC), 30+ cancers with BRG1 mutations
Mutation / Aberration	• BRG1
Stage	• Pre-clinical
New Patients Impacted / Year*	• > 100,000
Economics of Lilly Collaboration	• 50/50 U.S. economics • Tiered ex-U.S. royalties starting in the low double-digit range and escalating into the twenties



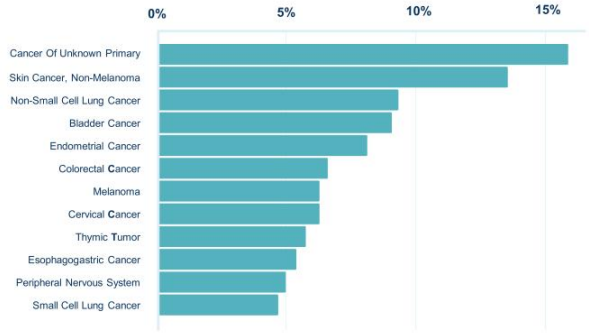


* U.S., EU5, Japan

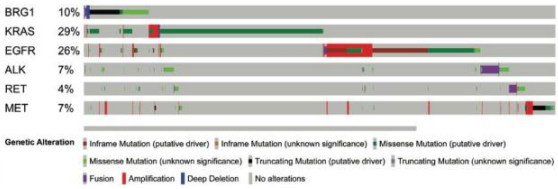
BRG1 MUTATED IN ~5% OF ALL TUMORS

Broad Addressable Patient Population

BRG1 MUTATED ACROSS RANGE OF TUMORS

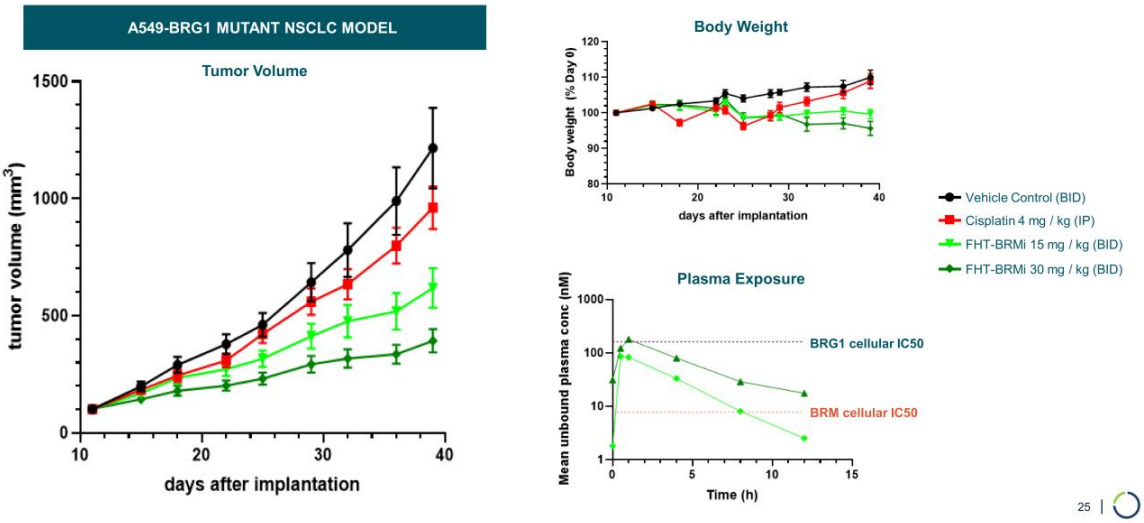


BRG1 MUTATED IN UP TO 10% OF NSCLC TUMORS, MINIMAL OVERLAP WITH OTHER MUTATIONS

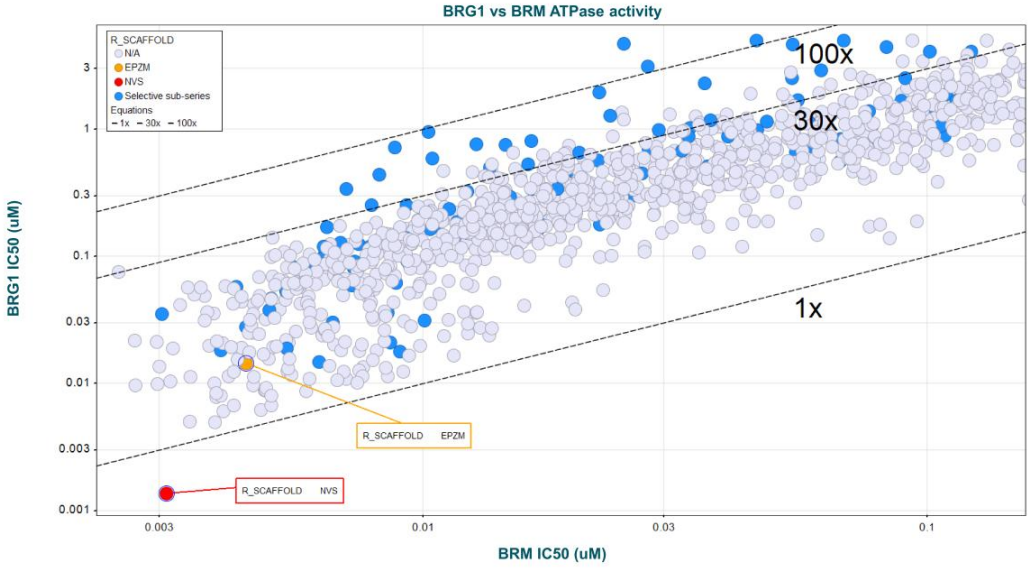


BRM SELECTIVE INHIBITOR *IN VIVO* EFFICACY

Demonstrates PK / PD and *In Vivo* Efficacy in a BRG1 Mutant Lung CDX Model



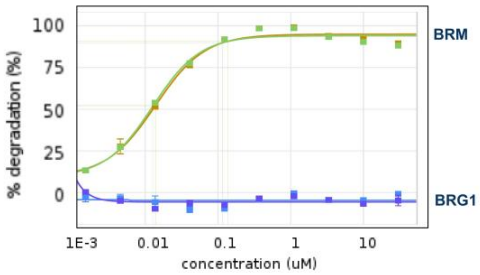
ENZYMATIC SELECTIVITY APPROACHING 200X ACHIEVED



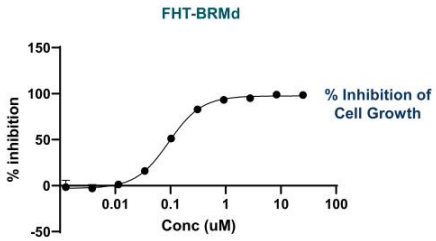
ADVANCING BRM SELECTIVE DEGRADERS

Achieving Complete BRM Degradation

BRM / BRG1 HIBIT DATA



A549 TEN-DAY PROLIFERATION ASSAY



DEGRADERS CAUSE TIME- AND DOSE-DEPENDENT BRM DEGRADATION, ANTIPROLIFERATIVE EFFECTS IN A549 BRG1 MUTANT NSCLC LUNG MODEL

FOGHORN THERAPEUTICS

SELECTIVE ARID1B PROTEIN DEGRADER

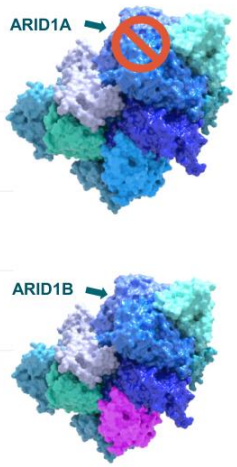
FOR ARID1A MUTATED CANCERS

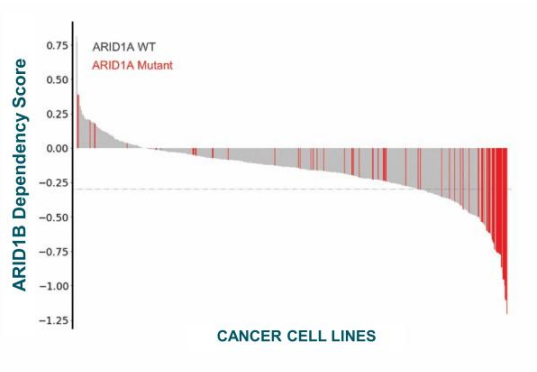
Protein Degrader targeting ARID1A mutated cancers, the most mutated subunit in the BAF complex (e.g., ovarian, endometrial, colorectal, bladder and other cancers)

ARID1A: MOST MUTATED SUBUNIT IN BAF COMPLEX – CREATES DEPENDENCY ON ARID1B

Selective ARID1B Protein Degrader Overview

Target / Approach	• ARID1B • Targeted protein degrader
Initial Indication	• ARID1A mutated cancers
Mutation / Aberration	• ARID1A mutations (e.g., ovarian, endometrial, colorectal, bladder and other cancers)
Stage	• Pre-clinical
New Patients Impacted / Year*	• > 175,000

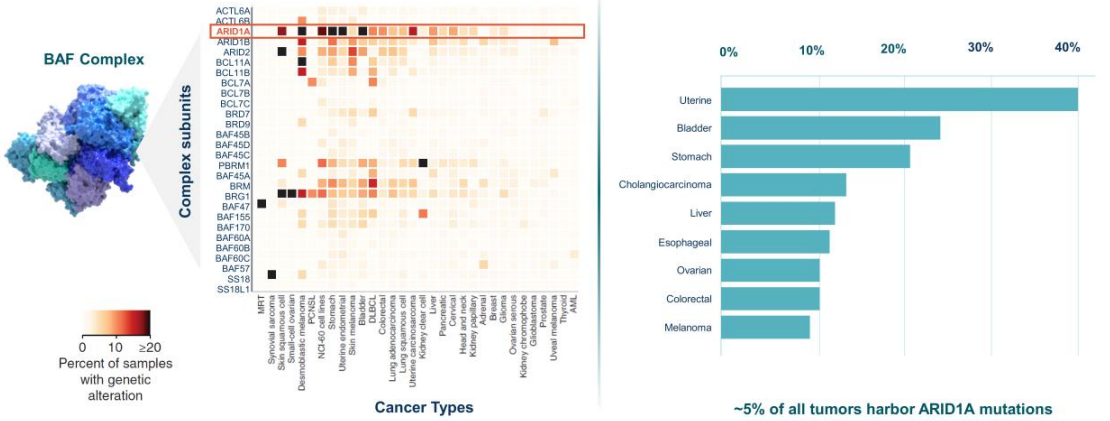




* U.S., EU5, Japan

ARID1A MUTATED CANCERS: SIGNIFICANT OPPORTUNITY

ARID1A Mutated Across Range of Tumors



Hodges et al. 2017

TARGETING ARID1A MUTATED CANCERS: ARID1B PROTEIN DEGRADER

Advantaged by Gene Traffic Control Platform and Protein Degrader Capabilities

GENE TRAFFIC CONTROL PLATFORM

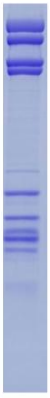
- Platform produces BAF complexes and subcomplexes containing either ARID1A or ARID1B at scale
- Enables proprietary screens against ARID1B

PROTEIN DEGRADER CAPABILITIES

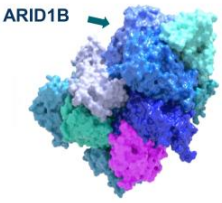
- Utilize protein degrader toolbox to create ARID1B hetero-bifunctional degraders

PROGRAM STATUS

- Validated selective chemical binders of ARID1B
- In process of expanding binders into novel selective protein degraders
- Assessing outcomes of ARID1B degradation and impact on BAF complex formation



Highly purified ARID1B / BAF complex



FOGHORN THERAPEUTICS

TRANSCRIPTION FACTORS

A NOVEL APPROACH

A NEW APPROACH TO DRUGGING TRANSCRIPTION FACTORS

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

TFS ARE COMPELLING DRUG TARGETS…

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

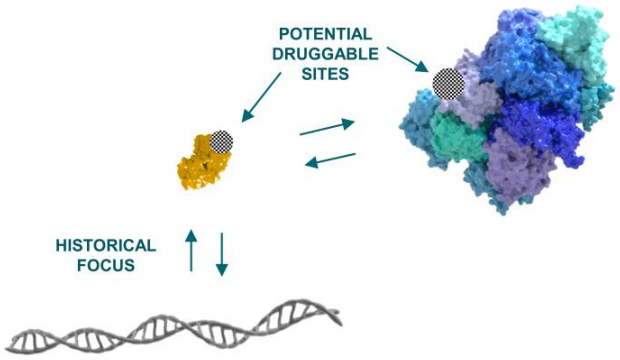
…BUT HISTORICALLY DIFFICULT TO TARGET

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

FOGHORN HAS A NEW APPROACH FOCUSING ON INTERACTION WITH BAF

- Druggable binding pockets
- Druggable affinities

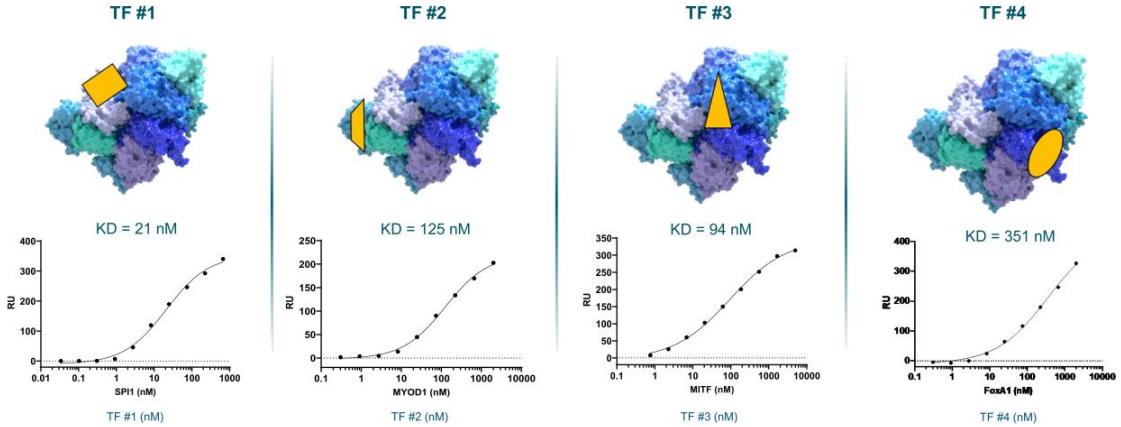
FOGHORN'S FOCUS



TRANSCRIPTION FACTOR–CHROMATIN REMODELING COMPLEX INTERACTIONS

Unique Insights in Where and How Transcription Factors Bind

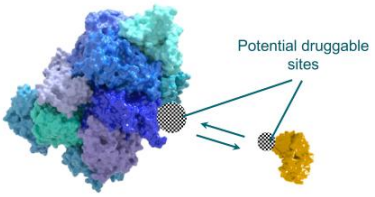
Transcription Factors (TF):



HIGHLY SCALABLE APPROACH TO ADDRESS SIGNIFICANT UNMET MEDICAL NEED DRIVES MERCK COLLABORATION

Potential to Drug > 100 TFs Associated with BAF

TRANSCRIPTION FACTOR DISRUPTORS



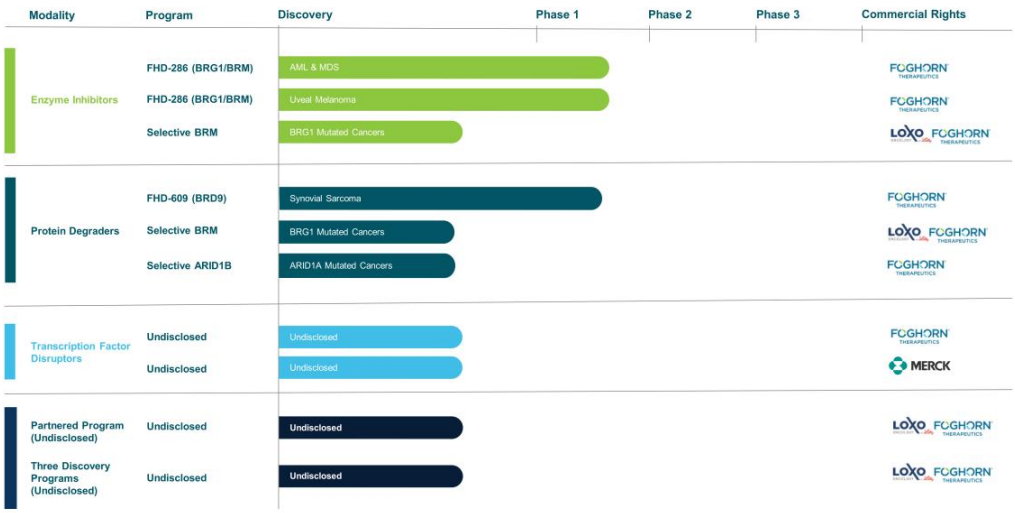
- >100 TFs estimated associated with BAF
- Foghorn pursuing multiple TFs in parallel
- Approach highly scalable and potential broad application – other chromatin remodeling complexes and other diseases

MERCK

- Merck collaboration to drug single specified transcription factor target
- $15 million upfront; up to $410 million in research, development, regulatory and sales-based milestones
- Up to low double-digit royalties on product sales

BROAD PIPELINE ACROSS A RANGE OF TARGETS AND MODALITIES

Precision Oncology / Breadth and Depth / Over 15 Programs



FIRST-IN-CLASS PRECISION MEDICINES TARGETING CANCER AND OTHER DISEASES

LARGE MARKET POTENTIAL

Chromatin biology implicated in up to **50% of cancer**, potentially impacting **~2.5 million patients**

Potential applications in virology, autoimmune diseases and neurology

WELL-FUNDED

$394.7 million in cash and equivalents

(as of 6/30/2022)

UPCOMING MILESTONES

FHD-286: Initial clinical data for mUM expected H1'23

FHD-286: AML/MDS study on full clinical hold, initial clinical data TBD

FHD-609: Initial clinical data expected in 2023

SIGNIFICANT GLOBAL PARTNERSHIPS

Strategic collaboration with Loxo Oncology at Lilly; $380 million upfront; 50/50 U.S. economic split on two lead programs

Merck collaboration to drug single specified transcription factor target; $15 million upfront and up to $410 million in milestones

EXPERIENCED LEADERSHIP TEAM

Expertise across drug discovery, clinical development and commercialization

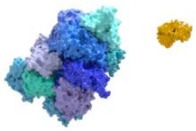
APPENDIX

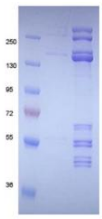
PLATFORM & DRUGGING CAPABILITIES

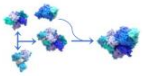
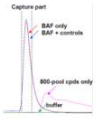
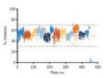
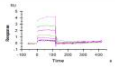
PLATFORM IS POWERED BY ABILITY TO PRODUCE COMPONENTS AT SCALE

Drives Drug Discovery Pipeline with Cutting Edge Technology

PRODUCTION OF CHROMATIN REGULATORY SYSTEM COMPONENTS





	FEATURES	BENEFITS
	Surface Mapping	Characterize TF / BAF Binding Sites
	Assembly	Synthesize subcomplexes to enable drug discovery
	Affinity Screening & Validation	ASMS on full complex to yield novel degraders
	HTS	Multiple screening options with full complex
	Biophysics/SPR	Validation of novel small molecule binders

PROTEIN DEGRADER PLATFORM

CURRENT APPROACH

- A leader in developing heterobifunctional degraders for clinical evaluation in oncology
- Employing PROTAC and non-CRBN based molecular glue degradation approaches

DEGRADER CHEMICAL TOOLBOX

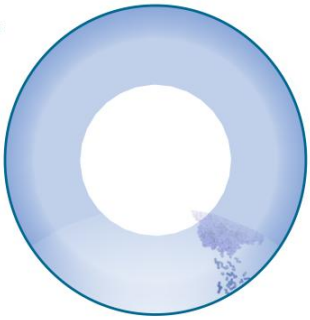
- Proprietary library of drug-like linkers, E3 ligase binders and potential glues
- Chemistry to rapidly identify and optimize degraders

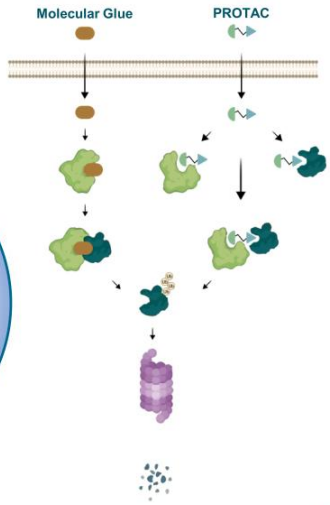
ADVANCED MECHANISTIC CHARACTERIZATION

- Native target turnover understanding
- Cellular degradation kinetics and rates
- Structural, biochemical and cellular ternary complex characterization
- Global proteomics and ubiquitination studies
- Computational modeling of degraders
- Degradation efficacy across multiple cell types

OPTIMIZATION OF DEGRADER DRUG PROPERTIES

- Guidelines for both of oral and IV-administered degraders
- PK / PD, efficacy and safety modeling to optimize dosing and scheduling





FOGHORN THERAPEUTICS

STRATEGIC PARTNERSHIP

LOXO ONCOLOGY AT LILLY

STRATEGIC COLLABORATION WITH LOXO ONCOLOGY AT LILLY

Foghorn to Lead Discovery and Research Activities

$380 MILLION UPFRONT

$300 million cash payment

$80 million investment in Foghorn common stock at a price of $20 per share

50/50 U.S. ECONOMICS ON TWO PROGRAMS

50/50 U.S. economic split on BRM-Selective and another undisclosed program

Tiered ex-U.S. royalties starting in the low double-digit range and escalating into the twenties based on revenue levels

THREE UNDISCLOSED DISCOVERY PROGRAMS

Option to participate in a percentage of the U.S. economics

Tiered ex-U.S. royalties from the mid-single digit to low-double digit range

$1.3 billion in potential milestones

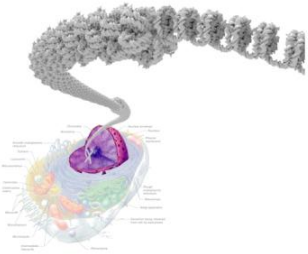
FOGHORN THERAPEUTICS

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

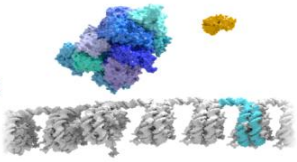


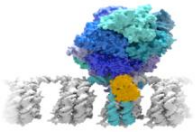
CHROMATIN

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

1 | CHROMATIN REMODELING COMPLEX AND TRANSCRIPTION FACTOR

Work together to orchestrate gene expression



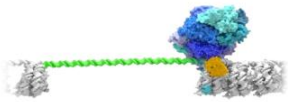


2 | RIGHT GENES

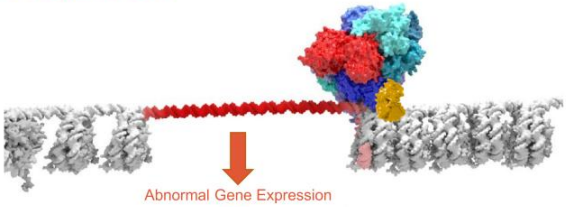
TFs guide chromatin remodeling complexes to the right locations

3 | NORMAL GENE EXPRESSION

Once chromatin unpacked, gene expression can occur



BREAKDOWNS IN THE CHROMATIN REGULATORY SYSTEM CAN LEAD TO DISEASE

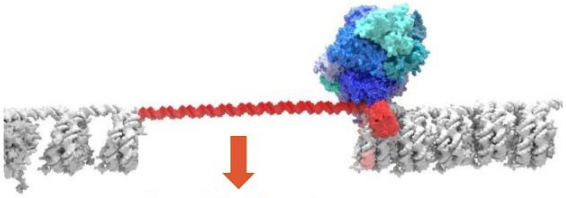


Mutations or overexpression in chromatin remodeling complexes result in abnormal gene expression

Abnormal Gene Expression

DISEASE

Mutated or overexpressed TF hijacks chromatin remodeling complex to wrong location



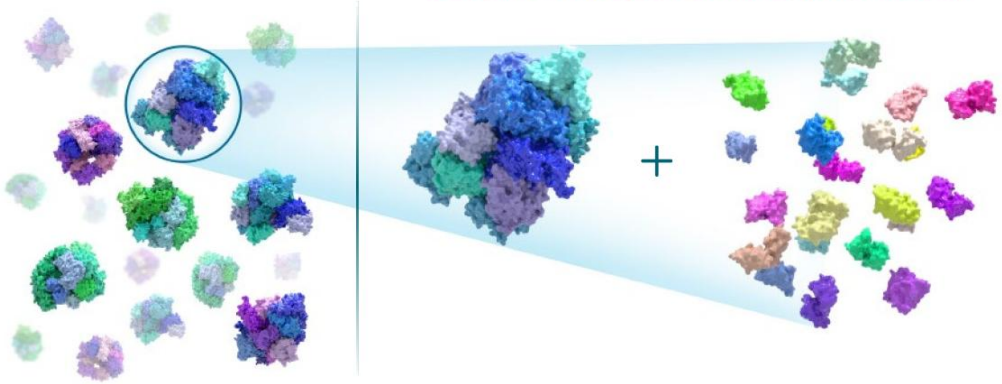
Abnormal Gene Expression

DISEASE

CHROMATIN REGULATORY SYSTEM

Abundance of Targets within the BAF Complex

BAF COMPLEX AND ASSOCIATED TRANSCRIPTION FACTORS



28 Chromatin Remodeling Complexes and >1,000 TFs

BAF Complex Subunits Mutated and Dysregulated in Cancer

Estimate >100 Transcription Factors Associated with Just the BAF Complex

Leadership Team, Board & Advisors

Expertise across drug discovery, clinical development and commercialization

PROVEN LEADERSHIP TEAM

ADRIAN GOTTSCHALK
President & CEO

SAM AGRESTA, M.D., M.P.H & TM
Chief Medical Officer

MICHAEL LACASCIA
Chief Legal Officer

ALLAN REINE, M.D.
Chief Financial Officer

STEVE BELLON, PH.D.
Chief Scientific Officer

FANNY CAVALIE
Chief Strategy and Business Operations Officer

CARLOS COSTA
Chief People Officer

SAURABH SEWAK
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