# 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): September 8, 2023  $\,$ 

### **Foghorn Therapeutics Inc.**

(Exact name of registrant as specified in its charter)

 $\label{eq:Delaware} \textbf{Delaware}$  (State or other jurisdiction of incorporation)

001-39634 (Commission File Number) 47-5271393
(IRS Employer Identification No.)

500 Technology Square, Ste 700 Cambridge, MA

**02139** (Zip Code)

(Address of principal executive offices)

(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.  $\square$ 

### 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 September 2023, 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 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 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 <u>Investor Presentation dated September 2023</u>

#### 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: September 8, 2023



### **CORPORATE OVERVIEW**

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

September 2023

### FORWARD LOOKING STATEMENTS

This presentation contains forward-looking statements. All statements other than statements of historical facts contained in this presentation contains loward-looking statements. An statements of the trial statement of the trial statement of the trial statement of the trial statements contain these words. Forward-looking statements include, but are not limited to, statements concerning: the potential outcomes from our collaboration agreements with Lilly; the initiation, timing, progress and results of our research and development programs and pre-clinical studies and clinical trials, including with respect to our Phase 1 study of FHD-286 in combination with decitabine or cytarabine in relapsed and/or refractory AML patients and anticipated timing of release of clinical data; our ability to advance product candidates that we may develop and to 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 exogeneous factors, including macroeconomic and geopolitical circumstances, on our and our collaborators' business operations, including our research and development programs and pre-clinical 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 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, 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.

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# FIRST-IN-CLASS PRECISION MEDICINES TARGETING MAJOR UNMET NEEDS IN CANCER



#### LEADER IN NEW AREA OF CANCER BIOLOGY

Foghorn is a leader in targeting chromatin biology, which has unique potential to address underlying dependencies of many genetically defined cancers

Broad pipeline of **over 15 programs** across a range of targets and modalities



# LARGE MARKET POTENTIAL

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

Foghorn's current pipeline potentially addresses more than 500,000 of these patients



### WELL-FUNDED

\$284.3 million in cash and equivalents

Provides runway into H2'25



#### SIGNIFICANT UPCOMING VALUE DRIVERS

Selective BRM program on track to transition to Loxo@Lilly in **H2'23** 

Anticipate data from the Phase 1 study of FHD-286 in combination with decitabine or cytarabine in **H2'24** 



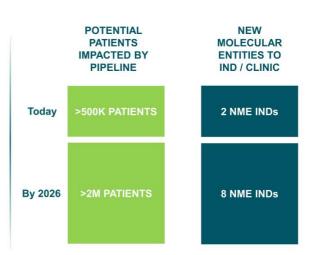
# MAJOR STRATEGIC COLLABORATION

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

### FOGHORN: SIGNIFICANT VALUE CREATION OPPORTUNITIES

Potential Impact in >500K Patients Across More Than 20 Tumor Types with 6 Potential New INDs by 2026

- Validated platform with first-in-class target in the clinic (FHD-286), with Phase 1 combination data expected in H2 2024
- At least 6 additional potential NME INDs by 2026
- >20 genetically defined tumor types in over 500K patients – includes lung, prostate, bladder, ovarian, colorectal, breast
- · Opportunity for additional partnerships



### UNIQUE INSIGHTS INTO CHROMATIN BIOLOGY

**Untapped Area for Novel Targets and Therapeutics** 

Chromatin Remodeling Complex – specialized multiprotein machineries that allow access to DNA

# CHROMATIN REGULATORY SYSTEM CRITICAL FOR GENE EXPRESSION

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



Transcription Factor –
proteins that help turn
specific genes "on" or
"off" by working in concert
with the chromatin
remodeling complex to
bind to DNA

# NOVEL TARGETS GUIDED BY GENETIC DEPENDENCIES

Chromatin Remodeling Complex Mutations / Overexpression



Helicases & Other Chromatin Binding Proteins involved in gene expression / function



Transcription Factor Mutations / Overexpression



### TAILORED DRUGGING APPROACHES



Enzymatic Inhibitors Highly selective and allosteric small molecule inhibitors

Targeted Protein Degradation Molecular glue and bi-functional protein degraders



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



## FOGHORN'S VALIDATED GENE TRAFFIC CONTROL® PLATFORM

Integrated, Scalable, Efficient – Repeatable Paradigm



### **UNIQUE TARGETS**

Deep Mechanistic Understanding of the Chromatin Regulatory System

### What to Drug:

Identify disease dependencies



### SPECIALIZED APPROACH

Biochemistry, Biophysics and Assays of Large Complexes and Proteins

### Where to Drug:

Engineer selectivity via unique assays and protein capabilities



### **SELECTIVE THERAPEUTICS**

Small Molecule and Degrader Platform

### How to Drug:

Biology first - small molecule modality agnostic

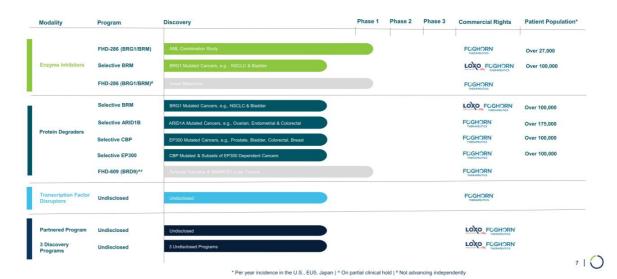
Enzymatic Inhibitors

Targeted Protein Degraders

Transcription Factor Disruptors

### **BROAD PIPELINE ACROSS A RANGE OF TARGETS AND MODALITIES**

Precision Oncology / Breadth and Depth / Over 15 Programs



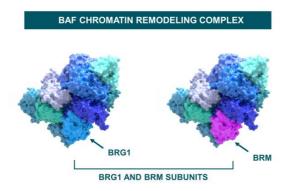


# Inhibition of the BRG1 and BRM Subunits of the BAF Complex

## PHASE 1 COMBINATION STUDY FOR AML

FHD-286 Is a Potent, Selective, Allosteric, Small Molecule Inhibitor of the BRG1 and BRM Subunits of the BAF Complex

## TARGETING BAF DEPENDENCY IN CANCER



- BRM / BRG1 is the engine (ATPase) of the BAF chromatin remodeling complex
- Dependency on BRM / BRG1 is wellestablished with multiple tumor types, including uveal melanoma, AML / MDS, NSCLC and prostate
- Foghorn's lead asset targeting BRM / BRG1, FHD-286, is a potent, selective, allosteric, small molecule inhibitor of the BRG1 and BRM subunits of the BAF complex
- Phase 1 in combination with decitabine or low dose cytarabine for AML initiated; data anticipated in H2'2024

### FHD-286: FIRST-IN-CLASS BROAD-BASED DIFFERENTIATION AGENT WITH SIGNIFICANT COMBINATION POTENTIAL IN AML

### SIGNIFICANT OPPORTUNITY

~27,000 drug treated relapsed and/or refractory (R/R) AML patients in G7, with significant unmet need

No broad differentiation agent approved in **AML** 

Significant opportunity for FHD-286

### PRE-CLINICAL AND CLINICAL DATA DEMONSTRATE BROAD-BASED DIFFERENTIATION

First-in-class mechanism

Differentiation observed in heavily pretreated patients, regardless of mutational

Peripheral blood and bone marrow blast reductions leading to absolute neutrophil count (ANC) recoveries in a subset of

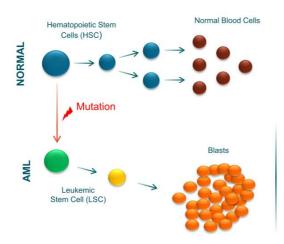
Strong combination potential observed in pre-clinical models with multiple agents

#### **INITIATED PHASE 1 COMBINATION** STUDY

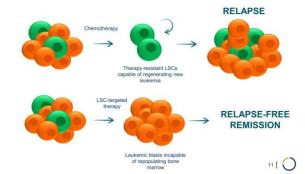
Phase 1 in combination with decitabine or low dose cytarabine for AML initiated; data anticipated in H2'2024

Focusing on first-line R/R AML patients

# FHD-286 HAS THE POTENTIAL TO DIFFERENTIATE LEUKEMIC STEM CELLS WHICH ARE DRIVERS OF RELAPSE IN AML



- Current AML therapies generally target proliferative blasts
- LSCs are drivers of AML relapse
- Combined approach of targeting both LSCs and blasts can theoretically prevent relapse



## FHD-286 PHASE 1 MONOTHERAPY DOSE ESCALATION OVERVIEW

### DESIGN

- · Oral daily dosing of FHD-286 as monotherapy
- R/R AML and R/R MDS patients who exhausted all treatment options
- Doses tested: 2.5mg, 5.0mg, 7.5mg, 10.0mg once daily

### **PATIENTS**

- 40 patients enrolled: 36 R/R AML and 4 R/R MDS
- · 67.5% had 3+ prior lines
- Majority with abnormal karyotype (82.5%) and poor genetic risk factors (65% with adverse genetic status)
- Broad range of mutations

- \* Safety and tolerability, MTD and/or RP2D
- $\mbox{^{\bullet}}$  Pharmacokinetics and pharmacodynamics, clinical activity, biomarker analysis

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### FHD-286 PHASE 1 DOSE ESCALATION SAFETY SUMMARY

Overall, adverse event profile consistent with a highly relapsed and/or refractory AML population

### MOST COMMON TRAES

· Dry mouth, increased blood bilirubin, increased ALT, rash

# MOST COMMON ≥ GRADE 3 TRAES

· Increased blood bilirubin, hypocalcemia, DS, stomatitis, increased ALT

# EXPERT ADJUDICATION COMMITTEE ASSESSMENT OF DIFFERENTIATION SYNDROME

- · Number of subjects with DS
  - 1 R/R AML subject adjudicated as having definitive DS; this subject also had 2 events of Investigator-reported DS
  - 5 R/R AML subjects adjudicated as indeterminate for DS; 2 of these 5 subjects had at least one event of Investigator-reported DS
- · Range of Initial Onset: 4 to 42 days
- · Potential DS Symptom include:
  - Pleural effusion, pericardial effusion, volume overload, weight gain, elevated WBC counts, hypotension, ground glass opacities and/or pulmonary glass opacities and/or pulmonary infiltrates on imaging without documentation of positive cultures, hypoxia, pyrexia, and/or multi-organ involvement (lung, heart, and/or kidneys)



# PERIPHERAL BLOOD AND BONE MARROW BLAST COUNT REDUCTION LEADING TO ANC RECOVERY IN A SUBSET OF PATIENTS

Diagnosis	Dose Level	Mutations	Cytogenetic Risk	Cycles on Study	ANC Recovery	Peripheral Starting Blast %	Peripheral Min Blast %	Peripheral Blast % Change	BMA Starting Blast %	BMA Min Blast %	BMA Blast % Change
AML	10mg	N/A	Adverse	2.2	YES	15	0	(100)	40	6	(85)
AML		DNMT3A, U2AF1, DDX41, CUX1, TP53	Adverse	0.5	N	20	0	(100)	13	2	(85)
AML		NRAS, SF3B1	Intermediate	7.3	N	2	0	(100)	12	5	(58)
AML		NRAS, BRCA1, MEN1, CDKN1Ap	Adverse	0.3	N	80	11	(86)	52	-	-
AML	-	D17Z1, TP53	Intermediate	0.6	N	9	1	(89)	9	-	
AML		GATA2, ETV6, KDR	Intermediate	1.4	N	2	2	0	5	-	1.7
AML	7.5mg	RUNX1, KRAS, ASXL1, JAK2, TET2, EZH2, ETNK1	Intermediate	2.9	N	83	1	(99)	83	2	(98)
AML	7.5mg	ASXL1, TP53, U2AF1	Adverse	1.3	N	-	5	-	36	14	(61)
AML	7.5mg	KMT2A rearrangement	Adverse	2.8	YES	97	5	(95)	89	48	(46)
AML	7.5mg	N/A	Adverse	4.1	YES	28	4	(86)	25	15	(40)
* MDS	7.5mg	DNMT3A, TP53	Adverse	1.4	N	1.2	0	-	8	5	(38)
AML	7.5mg	DNMT3A, KRAS, NRAS	Adverse	1.8	N	32	2	(94)	47	49	4
AML	7.5mg	CBFB (locus at 16q22)	Favorable	1.7	YES	32	0	(100)	27	29	7
AML	7.5mg	N/A	Adverse	0.1	N	35	19	(46)	72	-	-
AML	7.5mg	ASXL1, BCOR, FLT3ITD, NF1, CBL, H1-B, NFE2	Adverse	0.7	N	8	7	(13)	25	100	-
AML	7.5mg	N/A	-	0.5	N	0	0	0	8	-	-
AML	7.5mg	NRAS, ASXL2, SRSF2	Adverse	0.1	N	93	-	-	17	/-	-
AML	7.5mg	ASXL1, DNMT3A, TET2, TP53	Adverse	0.5	N	-	4	-	-	-	-
AML	7.5mg	FLT3ITD	Favorable	8.0	N	0	39	9	12	-	-

\* MDS Patient



# PERIPHERAL BLOOD AND BONE MARROW BLAST COUNT REDUCTION LEADING TO ANC RECOVERY IN A SUBSET OF PATIENTS

Diagnosis	Dose Level	Mutations	Cytogenetic Risk	Cycles on Study	ANC Recovery	Peripheral Starting Blast %	Peripheral Min Blast %	Peripheral Blast % Change	BMA Starting Blast %	BMA Min Blast %	BMA Blast % Change
AML	5mg	RUNX1, NRAS, ASLX1	Adverse	3.1	YES	29	0	(100)	35	12	(66)
AML	5mg	N/A	Adverse	8.0	N	-	2	(100)	11	7	(36)
AML	5mg	N/A	Adverse	1.8	YES	6	0	(100)	24	16	(33)
AML	5mg	ASXL1, DNMT3A, KRAS, PTPN11, WT1, GRIN2AWT1	Adverse	2.0	N	32	38	19	49	52	6
* MDS	5mg	RUNX1, NRAS, KRAS, SF3B1, ASXL2, CSF3R, GATA2	Adverse	1.0	YES	5	13	160	11	14	27
* MDS	5mg	DNMT3a. TET2	Intermediate	1.9	YES	0	0	0	1	2	100
AML	5mg	TET2, WT1, GATA2, PLCG2, ARHGEF28, BRD4, CDK12, DDX41, KMT20, PARP1, ZRSR2	Intermediate	1.7	YES	9	0	(100)	18	46	156
AML	5mg	KRAS, PTNP11, IRF8, MSH6, RUNX1		1.3	N	17	7	(59)		80	
AML	5mg	TP53	Adverse	0.7	N	41	20	(51)	18	-	
AML	5mg	TP53	Adverse	0.5	N	44	35	(20)	55		
AML	5mg	PPM1D, TP53	Adverse	0.5	N	15	12	(20)	18		-
AML	5mg	KRAS, TET2	Adverse	0.6	N	37	32	(14)	56	-	
* MDS	5mg	ASXL1, DNMT3A, IDH1, SRSF2, SF3B1, TET2		0.4	N	0	0	0	0	-	-
AML	5mg	N/A	Adverse	0.5	N	10	11	13			
AML	5mg	ASXL1, NRAS, EP300, STAG2, RUNX1, TET2	Adverse	0.1	N	25	32	25	11	-	-
AML	5mg	CEBPA, KMT2C, NCOR1, CBL	-	0.3	N	48	75	56	64	-	-
AML	2.5mg	NRAS, WT1	Adverse	1.4	N	36	62	72	45	74	64
AML	2.5mg	BCR/ABL, PMLRARA, RUNX1, TET2	-	2.4	N	68	28	(59)	30	-	12
AML	2.5mg	N/A	Adverse	0.8	N	7	0	(100)	22	-	-
AML	2.5mg	DNMT3A, KRAS, TP53	Adverse	0.8	N	28	40	46	45	-	-
AML	2.5mg	DNMT3A, TP53	Adverse	1.0	N	4	-		25		

\* MDS Patient

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# PATIENT 5: 25-YEAR-OLD WITH AML OBSERVED MEANINGFUL CLINICAL BENEFIT

# 25-YEAR-OLD MALE WITH TREATMENT-RELATED AML WITH A KMT2A REARRANGEMENT

### · Prior AML Treatment:

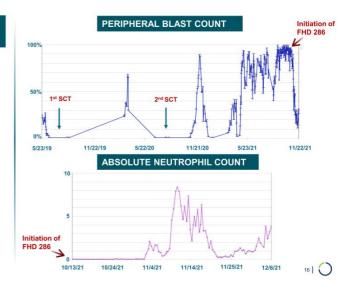
 Progressive disease with CNS Leukemia: 7 lines prior treatment and 2 bone marrow transplants

#### · Prior Non-AML Treatment:

• Ewing's sarcoma: Treated with Chemo/RT/Surgery (VCR, doxo, cyclophos, ifos, etoposide)

### · Initiation of FHD-286 at 7.5 MG Dose:

- · Drop in peripheral blast, 97% to 5%
- Bone marrow reduction from 89% to 48%, with ANC recovery



### PATIENT 7: 47-YEAR-OLD WITH SECONDARY AML SHOWED CLEAR SIGNS OF DIFFERENTIATION

# 47-YEAR-OLD MALE WITH SAML WITH AN ABNORMAL KARYOTYPE (DEL (7Q), INV (3), DER (7;12), -8, ADD(1))

### · Prior AML Treatment:

· Progressive disease: 4 lines prior treatment and 2 bone marrow transplants

#### · Prior non-AML treatment:

• MDS with inv(3) and der(7;12) and ASXL1 mut. Received AZA x 4.

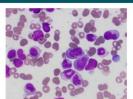
#### · Initiation of FHD-286 at 10 MG Dose

· Bone marrow blast from 40% to 6% with clear evidence of differentiation with persistence of cytogenetics abnormalities. ANC recovery.

### BONE BLAST REDUCTION FROM 40% TO 6%



# BONE MARROW ASPIRATE DEMONSTRATING CLEAR EVIDENCE OF DIFFERENTIATION



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# FHD-286 DEMONSTRATED DIFFERENTIATION ACROSS A BROAD RANGE OF GENETIC BACKGROUNDS

Dose Level	Mutations	Cytogenetics Risk	Starting CD11b%	Max CD11b%	CD11b+ Fold Change	Starting CD34%	Min CD34%	CD34+ % Decrease
10mg	N/A	Adverse	7	62	9.2x	94	27	(71%)
7.5mg	CBFB (locus at 16q22)		2	94	59.4x	70	2	(97%)
7.5mg	KMT2A rearrangement	Adverse	3	58	21.4x	85	9	(90%)
	•		5	73	21.4x 15x	95	18	(81%)
7.5mg	RUNX1, KRAS, ASXL1, JAK2, TET2, EZH2, ETNK N/A	Adverse	8	73 52	6.3x	95	33	(65%)
7.5mg		Adverse						
7.5mg	ASXL1, TP53, U2AF1	Adverse	19	63	3.3x	92	51	(45%)
5mg	RUNX1, NRAS, KRAS, SF3B1, ASXL2, CSF3R, GATA2	Adverse	3	74	29x	94	19	(80%)
5mg	RUNX1, NRAS, ASLX1	Adverse	4	97	22.8x	98	7	(93%)
5mg	N/A	Adverse	6	79	13x	93	11	(88%)
5mg	TET2, WT1 GATA2 PLCG2 ARHGEF28, BRD4, CDK12, DDX41, KMT20, PARP1, ZRSR2		3	24	8.1x	86	62	(27%)
5mg	N/A	Adverse	4	28	6.5x	93	66	(29%)
5mg	DNMT3a, TET2		21	88	4.1x	30	4	(88%)
2.5mg	NRAS, WT1	Adverse	3	13	4.8x	93	89	(4%)

CD34 (leukemic stem cell marker) decreases



CD11b (marker of differentiation) increases

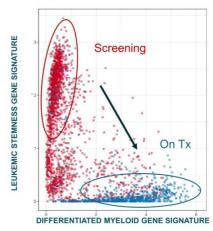


### CLINICAL PATIENT SAMPLES SHOW LOSS OF LEUKEMIC STEM CELL IDENTITY AND TRANSFORMATION TO DIFFERENTIATED MARROW

PATIENT BONE MARROW SHIFTS FROM LEUKEMIC STEM CELL-LIKE TO DIFFERENTIATED PHENOTYPE DURING FHD-286 THERAPY

SINGLE CELL RNA-SEQ OF PATIENT BONE MARROW AFTER ONE CYCLE AT 5.0MG

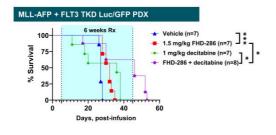
- · Single-cell RNA-seq of patient bone marrow aspirates show that marrow is heavily infiltrated with leukemic stem cell-like blasts at screening
- · On treatment aspirates demonstrate that the bone marrow has lost leukemic stem cell phenotype and shifted to a more mature
- These samples recapitulate pre-clinical data of FHD-286's impact on leukemic stem cell potential
- Similar effects observed across 5.0mg, 7.5mg and 10.0mg dose levels

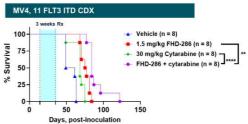


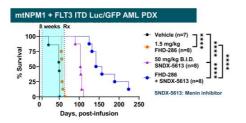


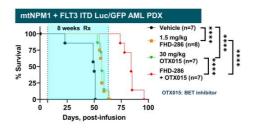


### PRE-CLINICAL DATA DEMONSTRATE BROAD SINGLE AGENT AML **ACTIVITY WITH SIGNIFICANT POTENTIAL FOR COMBINATION**













## FHD-286 PHASE 1 COMBINATION STUDY OVERVIEW

Data anticipated in H2'2024

### DESIGN

- · Standard 3+3 dose escalation design
- Oral daily dosing of FHD-286 in combination with either fixed dose decitabine or fixed dose cytarabine
- · R/R AML patients
  - · Allows for first-line relapsed and/or refractory AML patients

### DS MANAGEMENT

- · Combination of FHD-286 with decitabine or cytarabine may mitigate the risk for differentiation syndrome given the cytoreductive properties of these agents
- · Adjudication committee
- · Enhanced monitoring and guidelines

- \* Safety, tolerability and efficacy of the combination regimens
- Pharmacokinetics and pharmacodynamics, biomarker analysis



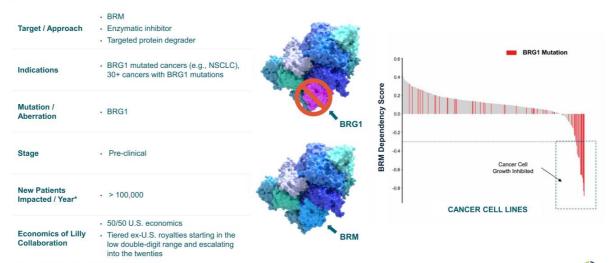
# **SELECTIVE BRM MODULATORS**

## 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

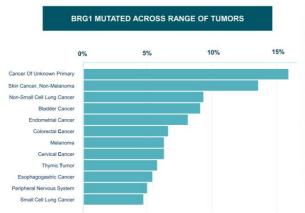


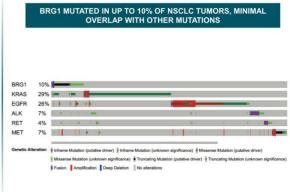
\* Per year incidence in the U.S., EU5, Japan

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### **BRG1 MUTATED IN ~5% OF ALL TUMORS**

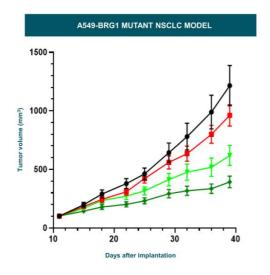
**Broad Addressable Patient Population** 

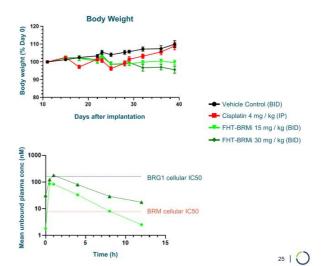




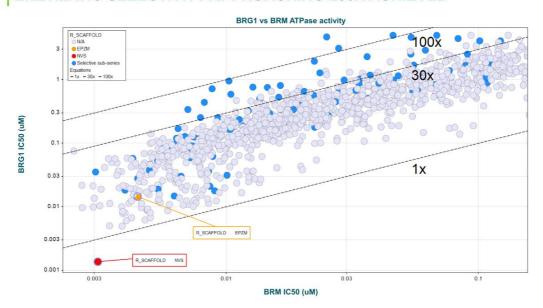
## **BRM SELECTIVE INHIBITOR IN VIVO EFFICACY**

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





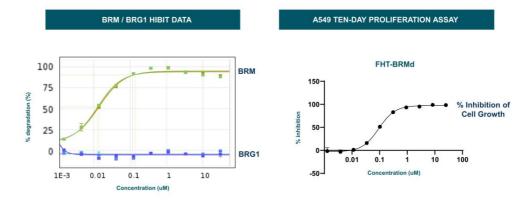
# **ENZYMATIC SELECTIVITY APPROACHING 200X ACHIEVED**



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## **ADVANCING BRM SELECTIVE DEGRADERS**

Achieving Complete BRM Degradation



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



# **SELECTIVE CBP PROTEIN DEGRADER**

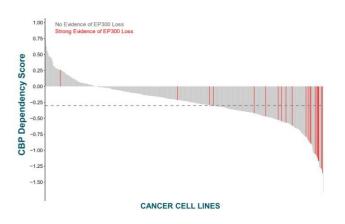
FOR EP300 MUTATED CANCERS

Implicated in Subsets of Cancers Including Bladder, Colorectal, Breast, Gastric and Lung

### **ADVANCING HIGHLY SELECTIVE CBP PROTEIN DEGRADER FOR EP300 MUTATED CANCERS**

Selective CBP Protein Degrader Overview

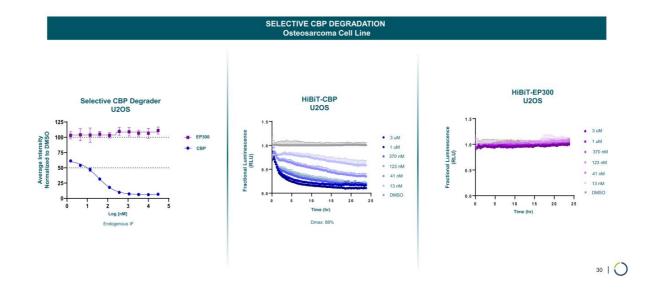




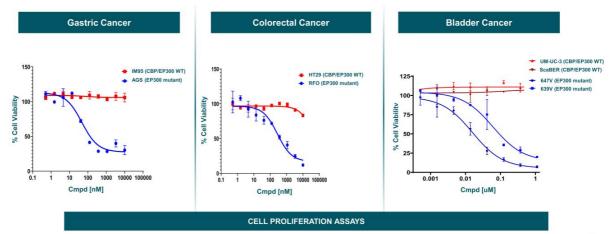
29 | 🔾

<sup>\*</sup> Per year incidence in the U.S., EU5, Japan

## **ADVANCEMENT OF HIGHLY SELECTIVE CBP DEGRADERS**



# HIGHLY SELECTIVE DEGRADER OF CBP DEMONSTRATES CBP-DEPENDENT CELL KILLING ACROSS MULTIPLE CANCERS



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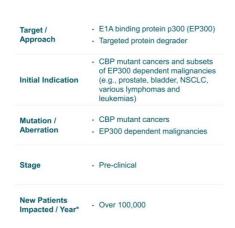
# **SELECTIVE EP300 PROTEIN DEGRADER**

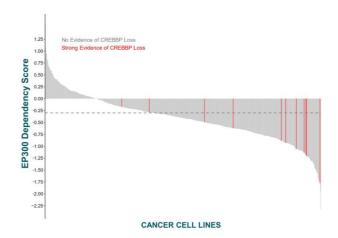
FOR CBP MUTANT CANCERS & EP300 DEPENDENT MALIGNANCIES

Implicated in CBP Mutated Cancers and Subsets of EP300 Dependent Malignancies (e.g., Bladder, NSCLC, Various Lymphomas and Leukemias)

### ADVANCING HIGHLY SELECTIVE EP300 PROTEIN DEGRADER FOR CBP **MUTANT CANCERS & EP300 DEPENDENT MALIGNANCIES**

Selective EP300 Protein Degrader Overview

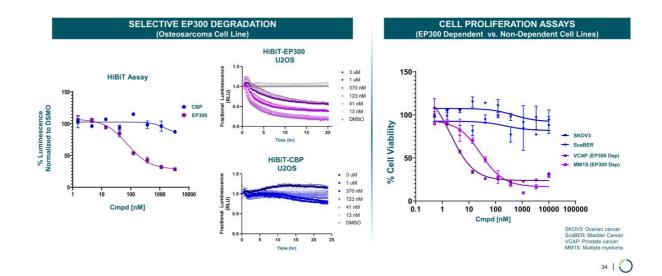




33 | 🔾

<sup>\*</sup> Per year incidence in the U.S., EU5, Japan

## **ADVANCEMENT OF HIGHLY SELECTIVE EP300 DEGRADERS**





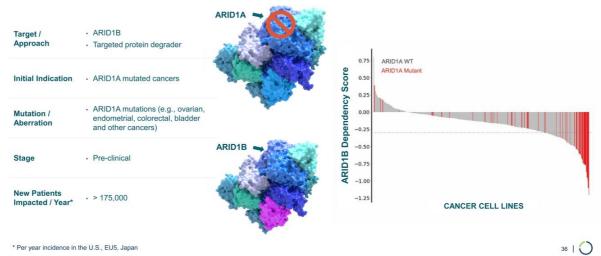
## **SELECTIVE ARID1B PROTEIN DEGRADER**

### 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)

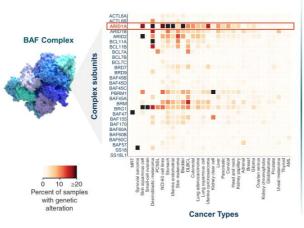
### ARID1A: MOST MUTATED SUBUNIT IN BAF COMPLEX - CREATES **DEPENDENCY ON ARID1B**

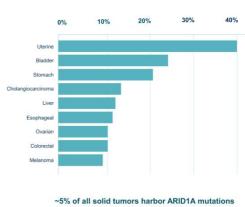
Selective ARID1B Protein Degrader Overview



### **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

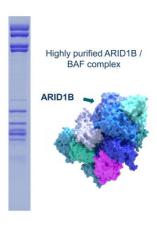
### • Enables proprietary screens against ARID1B

### 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





## 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

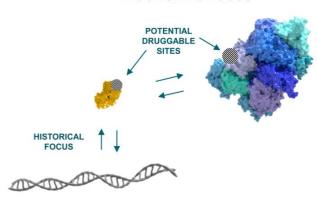
## ...BUT HISTORICALLY DIFFICULT TO TARGET

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

## FOGHORN HAS A NEW APPROACH FOCUSING ON INTERACTION WITH BAF

- Druggable binding pocketsDruggable affinities

### **FOGHORN'S FOCUS**



### TRANSCRIPTION FACTORS BIND TO BAF DIRECTLY WITH HIGH **DEGREE OF SPECIFICITY**

Unique Insights into Where and How Transcription Factors Bind

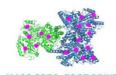








### MAPPING THE TF-BAF INTERACTION







### **VALIDATING THE TF-BAF INTERACTION**

**BIOCHEMICAL** 











### FIRST-IN-CLASS PRECISION MEDICINES TARGETING MAJOR **UNMET NEEDS IN CANCER**



#### **LEADER IN NEW AREA OF CANCER BIOLOGY**

Foghorn is a leader in targeting chromatin biology, which has unique potential to address underlying dependencies of many genetically defined cancers

Broad pipeline of over 15 programs across a range of targets and modalities



### LARGE MARKET **POTENTIAL**

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

Foghorn's current pipeline potentially addresses more than 500,000 of these patients



### WELL-**FUNDED**

\$284.3 million in cash and equivalents (as of 06/30/2023)

Provides runway into H2'25



#### SIGNIFICANT **UPCOMING VALUE DRIVERS**

Selective BRM program on track to transition to Loxo@Lilly in H2'23

Anticipate data from the Phase 1 study of FHD-286 in combination with decitabine or cytarabine in **H2'24** 

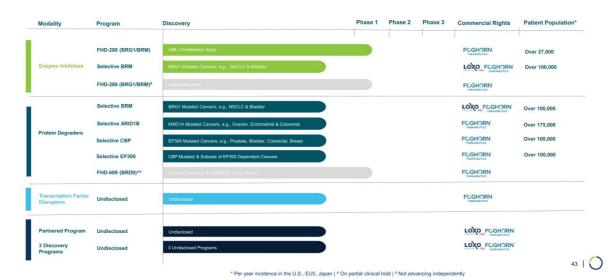


### MAJOR STRATEGIC COLLABORATION

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

### **BROAD PIPELINE ACROSS A RANGE OF TARGETS AND MODALITIES**

Precision Oncology / Breadth and Depth / Over 15 Programs







### FHD-286

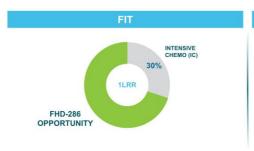
### PHASE 1 COMBINATION STUDY FOR AML

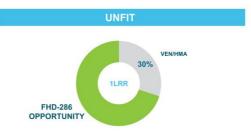
FHD-286 is a Potent, Selective, Allosteric, Small Molecule Inhibitor of the BRG1 and BRM Subunits of the BAF Complex

### SIGNIFICANT UNMET NEED REMAINS IN R/R AML REGARDLESS OF **GENOMIC ALTERATIONS**

### ~27,000 DRUG TREATED RELAPSED AND/OR REFRACTORY AML PATIENTS IN G7

US: ~ 11,500 patients G6: ~ 16,800 patients





Epidemiology: DRG 2022 AML Report; Market Shares: Cerner Enviza CancerMPact Treatment Architecture, August 2022

## PHASE 1 MONOTHERAPY DOSE ESCALATION PATIENT CHARACTERISTICS Highly Relapsed and Refractory, Abnormal Karyotype, and Poor Genetic Risk Factors

		2.5 mg QD N=5	5 mg QD N=16	7.5 mg QD N=13	10 mg QD N=6	Total N=40
Age (years)						
	Median (min, max)	73.0 (61, 84)	67.5 (43, 80)	66.0 (25, 75)	45.0 (27, 79)	65.5 (25, 84)
ECOG status at baseline, n (%)						
	0	0	5 (31.3)	5 (38.5)	3 (50.0)	13 (32.5)
	1	4 (80.0)	8 (50.0)	7 (53.8)	3 (50.0)	22 (55.0)
	2	1 (20.0)	3 (18.8)	1 (7.7)	0	5 (12.5)
Type of AML/MDS, n (%)						
	De novo AML	0	8 (50.0)	6 (46.2)	3 ( 50.0)	17 (42.5)
	Secondary AML	5 (100)	5 (31.3)	6 (46.2)	3 (50.0)	19 (47.5)
	MDS	0	3 (18.8)	1 (7.7)	0	4 (10.0)
Number of prior lines of sys	temic anti-cancer therapy	for AML/MDS				
	Median (min, max)	3 (1, 5)	3 (1, 6)	4 (1, 7)	3 (1, 5)	3 (1, 7)
Risk stratification by geneti	cs at screening, n (%)					
	Favorable	0	0	2 (15.4)	0	2 (5.0)
	Intermediate	0	1 (6.3)	0	3 (50.0)	4 (10.0)
	Adverse	4 (80.0)	10 (62.5)	9 (69.2)	3 (50.0)	26 (65.0)
	Unknown/missing	0 / 1 (20.0)	5 (31.3) / 0	2 (15.4) / 0	0/0	7 (17.5) /1 (2.5

AML=acute myeloid leukemia; ECOG=Eastern Cooperative Oncology Group; Max=maximum; MDS=myelodysplastic syndrome; Min=minimum; MPD=myeloproliferative disease; QD=once daily.



## PHASE 1 MONOTHERAPY DOSE ESCALATION SAFETY SUMMARY Any Grade Treatment-Related Adverse Events Occurring in >10% of Subjects

	2.5 mg QD N=5	5 mg QD N=16	7.5 mg QD N=13	10 mg QD N=6	Total N=40
Any grade TRAE	5 (100)	15 (93.8)	10 (76.9)	4 (66.7)	34 (85.0)
Dry mouth	0	8 (50.0)	3 (23.1)	0	11 (27.5)
Increased blood bilirubin	0	4 (25.0)	3 (23.1)	2 (33.3)	9 (22.5)
ALT increased	1 (20.0)	4 (25.0)	2 (15.4)	1 (16.7)	8 (20.0)
Rash	1 (20.0)	4 (25.0)	1 (7.7)	2 (33.3)	8 (20.0)
Diarrhea	0	4 (25.0)	2 (15.4)	1 (16.7)	7 (17.5)
Nausea/vomiting	0	5 (31.3)	0	2 (33.3)	7 (17.5)
Fatigue	1 (20.0)	5 (31.3)	0	1 (16.7)	7 (17.5)
Dysgeusia	0	4 (25.0)	0	2 (33.3)	6 (15.0)
Decreased appetite	1 (20.0)	3 (18.8)	0	1 (16.7)	5 (12.5)
AST increased	0	4 (25.0)	1 (7.7)	0	5 (12.5)
Hypocalcemia	2 (40.0)	1 (6.3)	0	1 (16.7)	4 (10.0)
Differentiation syndrome	1 (20.0)	1 (6.3)	2 (15.4)	0	4 (10.0)
Mucosal inflammation	1 (20.0)	1 (6.3)	2 (15.4)	0	4 (10.0)
Peripheral edema	1 (20.0)	2 (12.5)	1 (7.7)	0	4 (10.0)

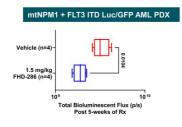
### PHASE 1 MONOTHERAPY DOSE ESCALATION SAFETY SUMMARY

Grade 3 or Higher Treatment-Related Adverse Events Occurring in >5% of Subjects

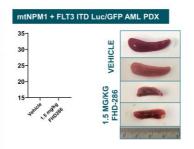
	2.5 mg QD	5 mg QD	7.5 mg QD	10 mg QD	Total
	N=5	N=16	N=13	N=6	N=40
Grade ≥3 TRAEs	1 (20.0)	9 (56.3)	8 (61.5)	2 (33.3)	20 (50.0)
Increased blood bilirubin	0	2 (12.5)	2 (15.4)	1 (16.7)	5 (12.5)
Hypocalcemia	1 (20.0)	1 (6.3)	0	1 (16.7)	3 (7.5)
Differentiation syndrome	0	1 (6.3)	2 (15.4)	0	3 (7.5)
Stomatitis	0	2 (12.5)	1 (7.7)	0	3 (7.5)
ALT increased	0	1 (6.3)	2 (15.4)	0	3 (7.5)
Rash	0	1 (6.3)	1 (7.7)	0	2 (5.0)
Fatigue	0	1 (6.3)	0	1 (16.7)	2 (5.0)
Mucosal Inflammation	0	0	2 (15.4)	0	2 (5.0)
Diarrhea	0	2 (12 5)	0	0	2 (5.0)

## FHD-286 SIGNIFICANTLY REDUCES LEUKEMOGENIC POTENTIAL IN IN VIVO TRANSPLANT MODEL

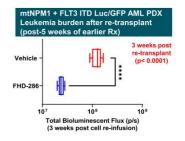
### LEUKEMOGENIC POTENTIAL TRANSPLANT MODEL



Tumor bearing animals treated for 5 weeks and then sacrificed



Spleens and bone marrow removed and assessed

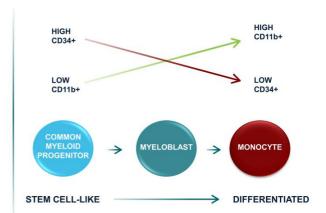


Bone marrow from sacrificed animals transplanted into new, nontumor bearing animals; monitored for relapse

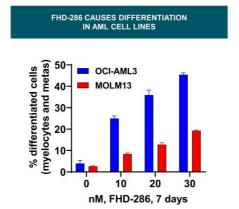


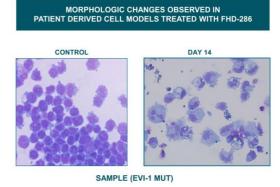
### INCREASES IN CD11b+ CELLS AND DECREASES IN CD34+ CELLS ARE **ASSOCIATED WITH DIFFERENTIATION AGENTS**

- · Mature differentiated cells are functionally specialized and compose the majority of cells in the body
- · Cancer cells often revert to a more stem-like state in order to gain self-renewal and resistance phenotypes
- CD34 is a marker of hematopoietic stem cells that can differentiate into CD11b+ mature myeloid cells
- During the differentiation process, CD11b+ cells increase and CD34+ cells decrease



## ROBUST DIFFERENTIATION EFFECT OBSERVED IN AML PRE-CLINICAL MODELS







## 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





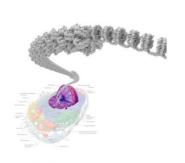


## THE CHROMATIN REGULATORY SYSTEM

**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

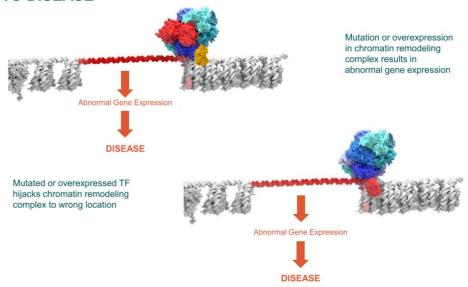


Once chromatin is unpacked, gene expression can occur





## BREAKDOWNS IN THE CHROMATIN REGULATORY SYSTEM CAN LEAD TO DISEASE

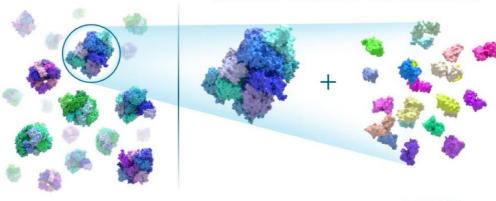


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### **CHROMATIN REGULATORY SYSTEM**

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

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# PLATFORM & DRUGGING CAPABILITIES

## PLATFORM IS POWERED BY ABILITY TO PRODUCE COMPONENTS AT SCALE

Drives Drug Discovery Pipeline with Cutting Edge Technology

PRODUCTION OF		FEATURES	BENEFITS
CHROMATIN REGULATORY SYSTEM COMPONENTS		Surface Mapping	Characterize TF / BAF Binding Sites
<b>*</b>		Assembly	Synthesize subcomplexes to enable drug discovery
20	Compare part  AM will  AM or commonle.  BRO proof upon unity  busher	Affinity Screening & Validation	ASMS on full complex to yield novel degraders
56 72 50		HTS	Multiple screening options with full complex
*	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	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

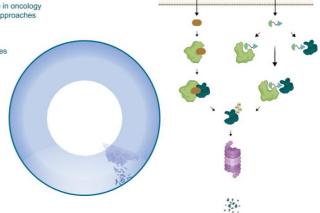
### ADVANCED MECHANISTIC CHARACTERIZATION

- 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



Molecular Glue 

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PROTAC



## Leadership Team, Board & Advisors

EXPERTISE ACROSS DRUG DISCOVERY, CLINICAL DEVELOPMENT AND COMMERCIALIZATION

### PROVEN LEADERSHIP TEAM



ADRIAN GOTTSCHALK



SAM AGRESTA, M.D., M.P.H & TM



STEVE BELLON, PH.D.













JACQUELINE CINICOLA DANETTE L. DANIELS, PH.D.



DAN DINU



ANDREW GERMAIN, PH.D. CHONG-HUI GU, PH.D.





KARIN HELLSVIK



MURPHY HENTEMANN, PH.D.















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