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): June 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 02139

(Address of principal executive offices)

 $Pre-commencement\ communications\ pursuant\ to\ Rule\ 13e-4(c)\ under\ the\ Exchange\ Act\ (17\ CFR\ 240.13e-4(c))$

(Zip Code)

(Registrant's telephone number, including area code): (617) 245-0399

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))

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 defichapter).	ined in Rule 405 of the Securities Act of 1933 (§230.405 of this chapte	er) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this
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 1.01 Entry into a Material Definitive Agreement.

As previously disclosed, on November 19, 2020, Foghorn Therapeutics Inc. (the "Company") entered into a Loan and Security Agreement (the "Loan Agreement") with Oxford Finance LLC, a Delaware limited liability company ("Oxford"), in its capacity as a Lender (as defined in the Loan Agreement) and as collateral agent (the "Collateral Agent").

On June 14, 2021, the Company and Oxford entered into a First Amendment to Loan and Security Agreement (the "Amendment"). Pursuant to the Amendment, the definition of "Second Draw Period" has been amended to mean the period commencing on the Second Draw Period Commencement Date (as defined in the Loan Agreement) and ending on the earlier of (i) August 31, 2021 and (ii) the occurrence of an Event of Default (as defined in the Loan Agreement). In consideration of such amendment, the Company agreed, among other things, to pay an amendment fee of \$15,000 to the Collateral Agent.

The foregoing is only a summary of the material terms of the Amendment and does not purport to be complete and is qualified in its entirety by reference to the full text of the Amendment (a copy of which is filed as Exhibit 10.1 attached hereto).

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 June 15, 2021, which the Company intends to use at the Company's Virtual R&D Day and from time to time thereafter 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.

10.1 First Amendment to Loan and Security Agreement dated as of June 14, 2021, among Oxford Finance LLC and Foghorn Therapeutics Inc.

99.1 Investor Presentation, dated June 15, 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: June 15, 2021

FIRST AMENDMENT TO LOAN AND SECURITY AGREEMENT

THIS FIRST AMENDMENT to Loan and Security Agreement (this "Amendment") is entered into as of June 14, 2021 (the "First Amendment Date"), by and among OXFORD FINANCE LLC, a Delaware limited liability company with an office located at 115 South Union Street, Suite 300, Alexandria, Virginia 22314 ("Oxford"), as collateral agent (in such capacity, "Collateral Agent"), the Lenders listed on Schedule 1.1 to the Loan Agreement (as defined below) or otherwise a party thereto from time to time including Oxford in its capacity as a Lender (each a "Lender" and collectively, the "Lenders"), and FOGHORN THERAPEUTICS INC., a Delaware corporation with offices located at 500 Technology Square, Suite 700, Cambridge, MA 02139 ("Borrower").

WHEREAS, Collateral Agent, Borrower and Lenders have entered into that certain Loan and Security Agreement, dated as of November 19, 2020 (as amended, supplemented or otherwise modified from time to time, the "Loan Agreement") pursuant to which Lenders have provided to Borrower certain loans in accordance with the terms and conditions thereof; and

WHEREAS, Borrower, Lenders and Collateral Agent desire to amend certain provisions of the Loan Agreement entered into pursuant to the Loan Agreement as provided herein and subject to the terms and conditions set forth

NOW, THEREFORE, in consideration of the promises, covenants and agreements contained herein, and other good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, Borrower, Lenders and Collateral Agent hereby agree as follows:

- 1. Capitalized terms used herein but not otherwise defined shall have the respective meanings given to them in the Loan Agreement.
- 2. Section 10 of the Loan Agreement is hereby amended by amending the address for Collateral Agent therein as follows:

OXFORD FINANCE LLC If to Collateral Agent:

115 South Union Street

Suite 300

Alexandria, Virginia 22314

Attention: Legal Department Fax: (703) 519-5225

Email: LegalDepartment@oxfordfinance.com

with a copy (which shall not constitute notice) to:

Greenberg Traurig, LLP One International Place Boston, MA 02110 Attn: Abdullah Malik Fax: (617) 897-0983 Email: malikab@gtlaw.com

- 3. Section 13.1 of the Loan Agreement is hereby amended by amending and restating the following definitions therein as follows:
 - "Second Draw Period" is the period commencing on the Second Draw Period Commencement Date and ending on the earlier of (i) August 31, 2021 and (ii) the occurrence of an Event of Default; provided, however, that the Second Draw Period shall not commence if on the Second Draw Period Commencement Date, an Event of Default has occurred and is continuing.
- 4. Limitation of Amendment.
 - a. The amendment set forth above is effective for the purposes set forth herein and shall be limited precisely as written and shall not be deemed to (a) be a consent to any amendment, waiver or modification of any other term or condition of any Loan Document, or (b) otherwise prejudice any right, remedy or obligation which Lenders or Borrower may now have or may have in the future under or in connection with any Loan Document, as amended hereby.
 - b. This Amendment shall be construed in connection with and as part of the Loan Documents and all terms, conditions, representations, warranties, covenants and agreements set forth in the Loan Documents, are hereby ratified and confirmed and shall remain in full force and effect.
- 5. To induce Collateral Agent and Lenders to enter into this Amendment, Borrower hereby represents and warrants to Collateral Agent and Lenders as follows:
 - a. Immediately after giving effect to this Amendment (a) the representations and warranties contained in the Loan Documents are true, accurate and complete in all material respects as of the date hereof (except to the extent such representations and warranties relate to an earlier date, in which case they are true and correct as of such date), and (b) no Event of Default has occurred and is continuing;
 - b. The execution, delivery and performance by Borrower of this Amendment and the Loan Agreement as amended by this Amendment have been duly authorized;
 - c. The organizational documents of Borrower delivered to Collateral Agent on the Effective Date, and updated pursuant to subsequent deliveries by or on behalf of the Borrower to the Collateral Agent, remain true, accurate and complete and have not been amended, supplemented or restated and are and continue to be in full force and effect;
 - d. The execution, delivery and performance by Borrower of this Amendment have been duly authorized, and do not (i) conflict with any of Borrower's organizational documents, including its respective Operating Documents, (ii) contravene, conflict with, constitute a default under or violate any material Requirement of Law applicable thereto, (iii) contravene, conflict or violate any applicable order, writ, judgment, injunction, decree, determination or award of any Governmental Authority by which Borrower, or any of its property, is bound;
 - e. The execution and delivery by Borrower of this Amendment and the performance by Borrower of its obligations under the Loan Agreement, as amended by this Amendment, do not require any action by, filing, registration, or qualification with, or Governmental Approval from, any Governmental Authority (except such Governmental Approvals which have already been obtained and are in full force and effect) or are being obtained pursuant to Section 6.1(b) of the Loan Agreement; and

- f. This Amendment has been duly executed and delivered by Borrower and is the binding obligation of Borrower, enforceable against Borrower in accordance with its terms, except as such enforceability may be limited by bankruptcy, insolvency, reorganization, liquidation, moratorium or other similar laws of general application and equitable principles relating to or affecting creditors' rights.
- 6. Except as expressly set forth herein, the Loan Agreement shall continue in full force and effect without alteration or amendment. This Amendment and the Loan Documents represent the entire agreement about this subject matter and supersede prior negotiations or agreements.
- 7. The Borrower hereby remises, releases, acquits, satisfies and forever discharges the Lenders and Collateral Agent, their agents, employees, officers, directors, predecessors, attorneys and all others acting or purporting to act on behalf of or at the direction of the Lenders and Collateral Agent ("Releasees"), of and from any and all manner of actions, causes of action, suit, debts, accounts, covenants, contracts, controversies, agreements, variances, damages, judgments, claims and demands whatsoever, in law or in equity (other than claims relating to fraud), which any of such parties ever had, now has or, to the extent arising from or in connection with any act, or state of facts taken or existing on or prior to the date hereof, may have after the date hereof against the Releasees, for, upon or by reason of any matter, cause or thing whatsoever relating to or arising out of the Loan Agreement or the other Loan Documents on or prior to the date hereof and through the date hereof. Without limiting the generality of the foregoing, the Borrower waives and affirmatively agrees not to allege or otherwise pursue any defenses, affirmative defenses, counterclaims, claims, causes of action, setoffs or other rights they do, shall or may have as of the date hereof, including the rights to contest: (a) the right of Collateral Agent and each Lender to exercise its rights and remedies described in the Loan Documents; (b) any provision of this Amendment or the Loan Documents; or (c) any conduct of the Lenders or other Releasees relating to or arising out of the Loan Documents on or prior to the date hereof.
- 8. This Amendment shall be deemed effective as of the First Amendment Date upon (a) the due execution and delivery to Collateral Agent of this Amendment by each party hereto, (b) Borrower's payment to Collateral Agent, on or before the First Amendment Date, of an amendment fee of Fifteen Thousand Dollars (\$15,000.00) and (c) Borrower's payment of all Lenders' Expenses incurred through the date hereof, which may be debited (or ACH'd) from the Designated Deposit Account in accordance with Section 2.3(d) of the Loan Agreement.
- 9. This Amendment may be executed in any number of counterparts, each of which shall be deemed an original, and all of which, taken together, shall constitute one and the same instrument.
- 10. This Amendment and the rights and obligations of the parties hereto shall be governed by and construed in accordance with the laws of the State of New York.

[Balance of Page Intentionally Left Blank]

IN WITNESS WHEREOF, the parties hereto have caused this First Amendment to the Loan Agreement to be executed as of the date first set forth above.

BORROWER:

FOGHORN THERAPEUTICS INC.

By /s/ Allan Reine
Name: Allan Reine
Title: CFO

COLLATERAL AGENT AND LENDER:

OXFORD FINANCE LLC

By <u>/s/ Colette H. Featherly</u>
Name: <u>Colette H. Featherly</u>
Title: <u>Senior Vice President</u>

Targeting the Chromatin Regulatory System

Broadening the Impact of Precision Medicines for Oncology and Other Diseases



June 15th, 2021

Agenda

9:00 – 9:10 a.m.	Welcome and Introduction Adrian Gottschalk, President and CEO, Foghorn Therapeutics
9:10 – 9:25 a.m.	Chromatin Regulatory System – Disease Relevance Cigall Kadoch, Ph.D., Broad Institute, DFCI, Scientific Co-founder Foghorn Therapeutics
9:25 – 9:45 a.m.	Gene Traffic Control Platform Steve Bellon, Ph.D, SVP, Head of Drug Discovery, Foghorn Therapeutics
9:45 – 10:05 a.m.	FHD-286 – Clinical Applications of Dual BRM/BRG1 Inhibition Sam Agresta, MP, MPH & TM, CMO, Foghorn Therapeutics
10:05 – 10:20 a.m.	Acute Myeloid Leukemia Eytan Stein, M.D., Memorial Sloan Kettering Cancer Center
10:20 – 10:30 a.m.	Synovial Sarcoma – FHD-609 Sam Agresta, MP, MPH & TM, CMO, Foghorn Therapeutics
10:30 – 10:45 a.m.	Targeting the Chromatin Regulatory System in Cancer Howard "Skip" Burris III, MD, FASCO, FACP, Sara Cannon Research Institute
10:45 – 11:00 a.m.	Q&A
FOGHORN* THERAPEUTICS	



Welcome and Introduction

Adrian Gottschalk
Chief Executive Officer, Foghorn Therapeutics

Forward-Looking Statements

This presentation contains forward-looking statements. All statements other than statements of historical facts contained in presentation are forward-looking statements. In some cases, you can identify forward-looking statements by terms such as "m "will," "should," "expect," "plan," "anticipate," "could," "intend," "target," "project," "contemplate," "believe," "estimate," "pred "potential" or "continue" or the negative of these terms or other similar expressions, although not all forward-looking statems contain these words. Forward-looking statements include, but are not limited to, statements concerning: the initiation, timing, progr and results of our research and development programs and preclinical and clinical trials, our ability to advance product candida that we may develop and successfully complete preclinical and clinical studies; our ability to leverage our initial programs to deve additional product candidates using our Gene Traffic Control Platform; the impact of the COVID-19 pandemic in our and collaborators' business operations, including our research and development programs and preclinical studies; developments rela to our competitors and our industry; our ability to expand the target populations of our programs and the availability of patients clinical testing; our ability to obtain regulatory approval for FHD-286, FHD-609 and any future product candidates from the FDA; other regulatory authorities; our ability to identify and enter into future license agreements and collaborations; our ability to continue rely on our CDMOs and CROs for our manufacturing and research needs; regulatory developments in the United States and fore countries; our ability to attract and retain key scientific and management personnel; the scope of protection we are able to establ maintain and enforce for intellectual property rights covering FHD-286 and FHD-609, our future products and our Gene Traffic Con Platform; and our use of proceeds from our initial public offering, estimates of our expenses, capital requirements and needs additional financing. Any forward-looking statements represent the Company's views only as of today and should not be relied up as representing its views as of any subsequent date. The Company explicitly disclaims any obligation to update any forward-look statements. The Company's business is subject to substantial risks and uncertainties which are described under the heading "F Factors" in our Annual Report on Form 10-K filed with the U.S. Securities and Exchange Commission and are accessible on SEC's website at www.sec.gov.



The Foghorn Commitment

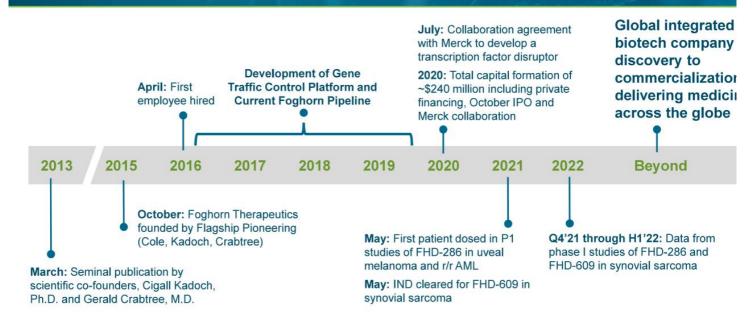
OUR PLEDGE

At Foghorn, we pledge to partner with patients as we work to discover and develop new, effective therapies for a wide spectrum of diseases, including many types of cancer. Every member of our team is committed to making a difference in the lives of others.



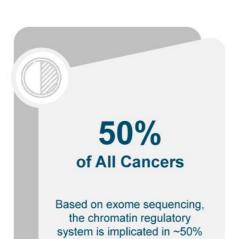


Broadening the Impact of Precision Medicines for Oncology and Other Diseases: Targeting the Chromatin Regulatory System



FCGHORN'

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



of all cancers







First Two Programs in the Clinic, Broad Pipeline Advancing

Precision Oncology / Breadth and Depth



Agenda

9:00 – 9:10 a.m.	Welcome and Introduction Adrian Gottschalk, President and CEO, Foghorn Therapeutics
9:10 – 9:25 a.m.	Chromatin Regulatory System – Disease Relevance Cigall Kadoch, Ph.D., Broad Institute, DFCI, Scientific Co-founder Foghorn Therapeutics
9:25 – 9:45 a.m.	Gene Traffic Control Platform Steve Bellon, Ph.D, SVP, Head of Drug Discovery, Foghorn Therapeutics
9:45 – 10:05 a.m.	FHD-286 – Clinical Applications of Dual BRM/BRG1 Inhibition Sam Agresta, MP, MPH & TM, CMO, Foghorn Therapeutics
10:05 – 10:20 a.m.	Acute Myeloid Leukemia Eytan Stein, M.D., Memorial Sloan Kettering Cancer Center
10:20 – 10:30 a.m.	Synovial Sarcoma – FHD-609 Sam Agresta, MP, MPH & TM, CMO, Foghorn Therapeutics
10:30 – 10:45 a.m.	Targeting the Chromatin Regulatory System in Cancer Howard "Skip" Burris III, MD, FASCO, FACP, Sara Cannon Research Institute
10:45 – 11:00 a.m.	Q&A
FCGHORN'	

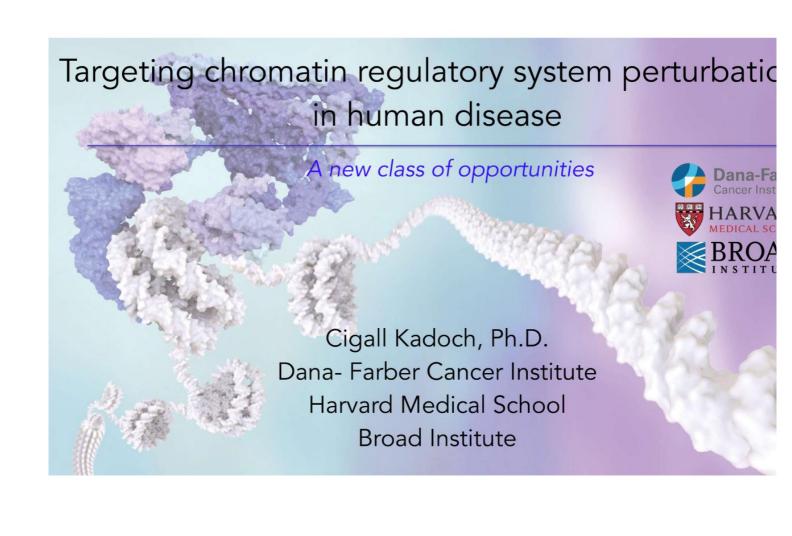
FCGHORN THERAPEUTICS



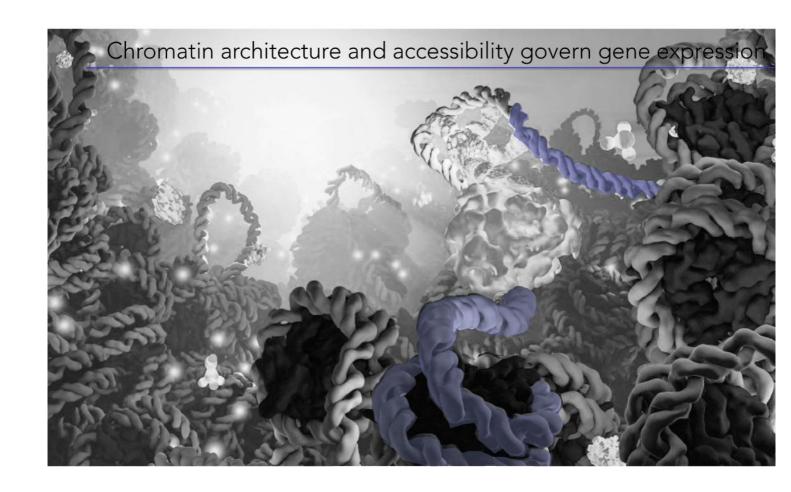
Chromatin Regulatory System – Disease Relevance

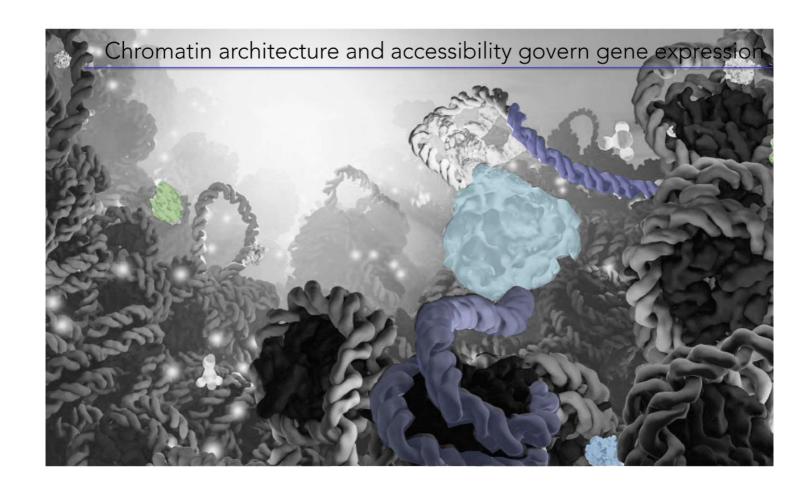
Cigall Kadoch, Ph.D.

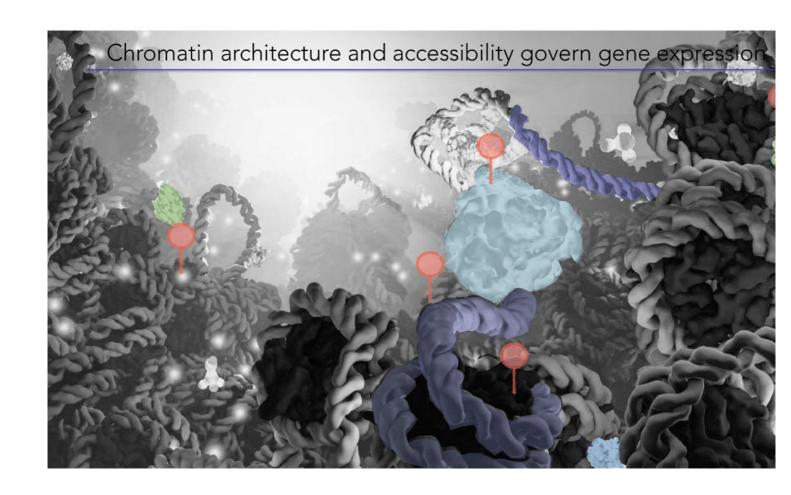
Broad Institute, DFCI, Scientific Co-founder of Foghorn Therapeutics



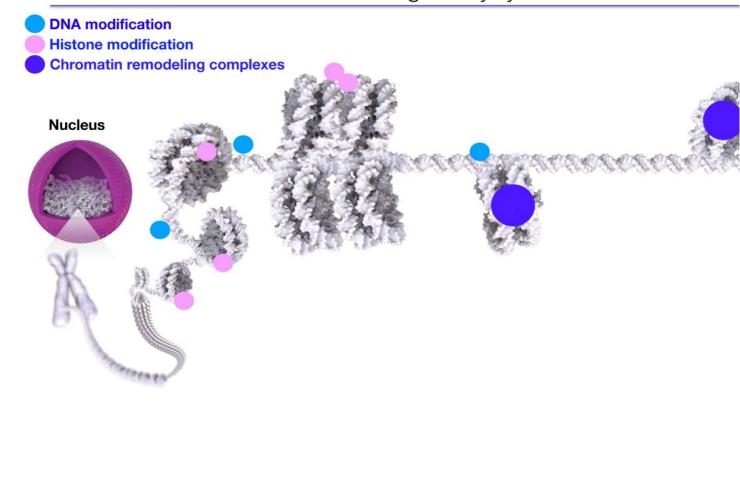


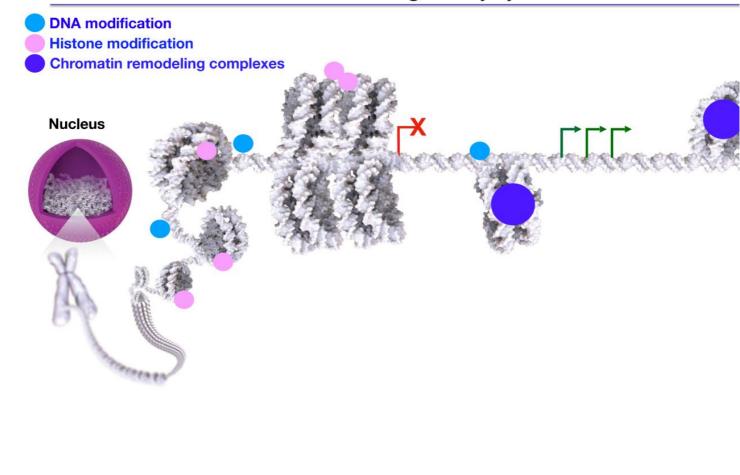


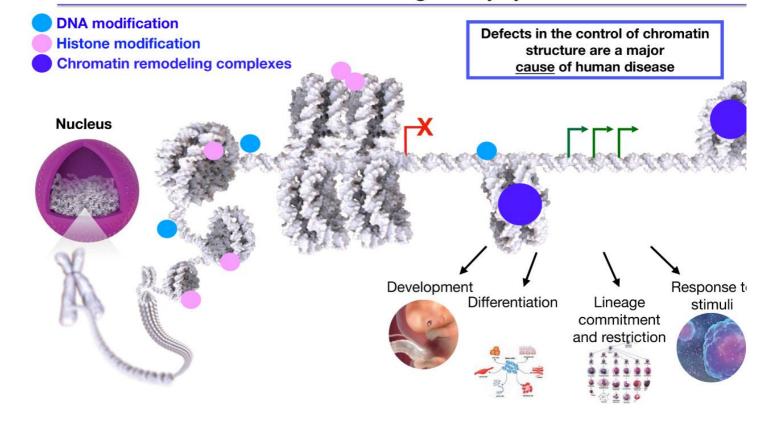




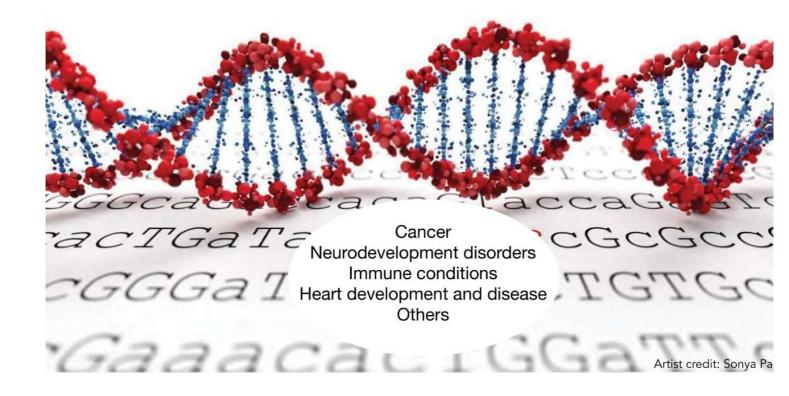




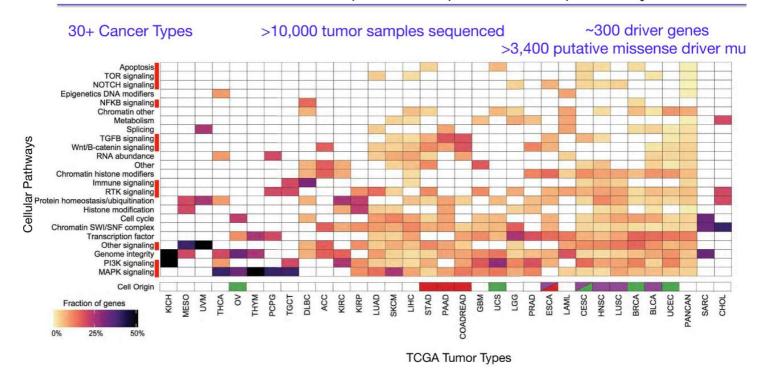




Human genetic studies unlock new biology

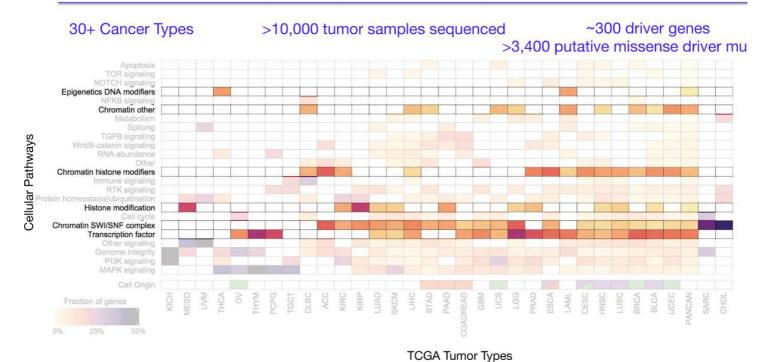


Cancer mutations span multiple cellular pathways



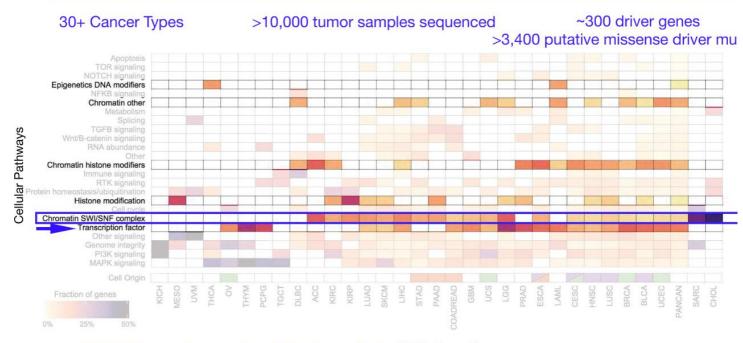
Adapted from Bailey et al., C

Chromatin regulatory system disruptions are extensive



Adapted from Bailey et al., C

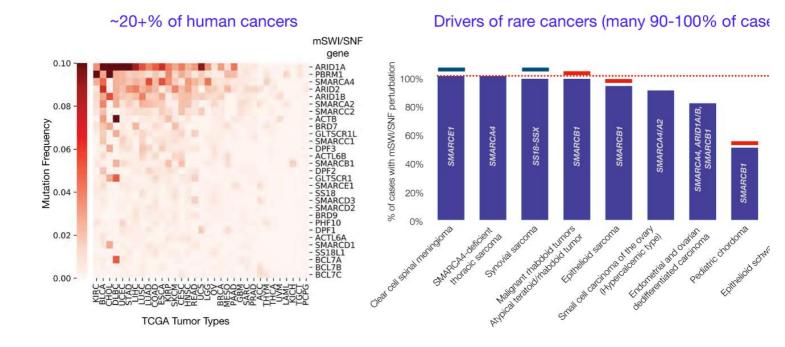
Chromatin regulatory system disruptions are extensive



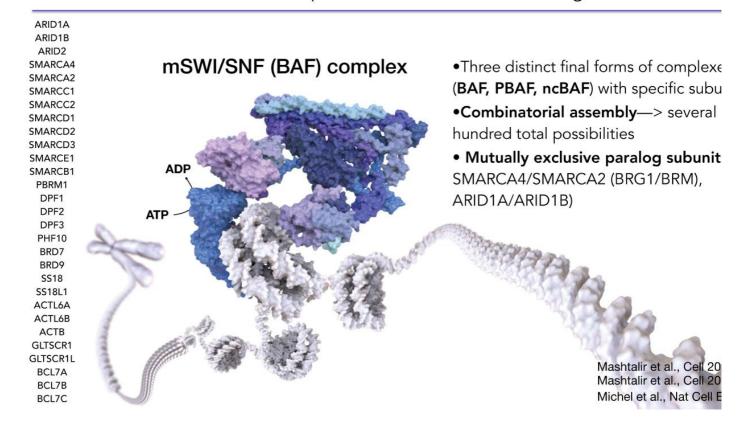
SWI/SNF complexes, other ATP-dependent remodelers, helicases, etc.

TCGA Tumor Types

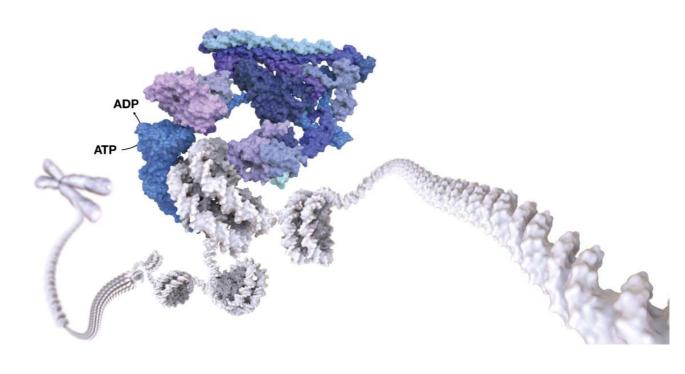
Adapted from Bailey et al., C



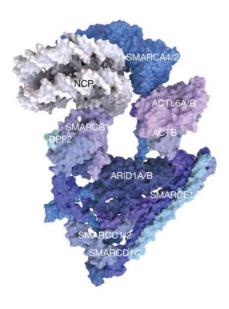
Mammalian SWI/SNF complexes: chromatin remodeling machines



Mammalian SWI/SNF complexes: chromatin remodeling machines

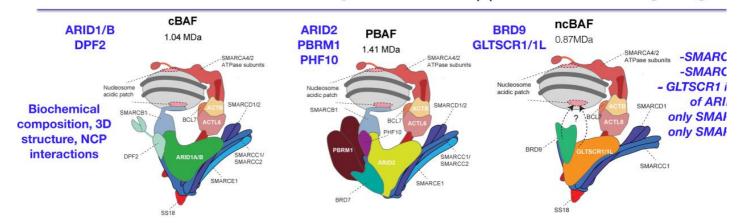


mSWI/SNF family complexes: cBAF, PBAF, and ncBAF types



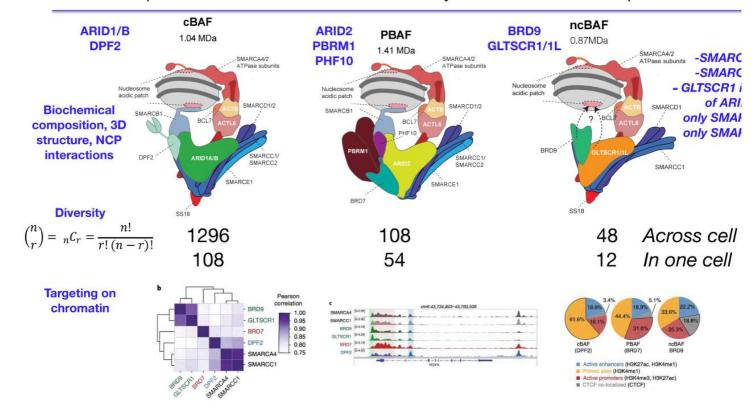
Mashtalir et al., Cell 2018 Michel et al., Nat Cell Bio

mSWI/SNF: diverse assemblies yield diverse opportunities for targeting

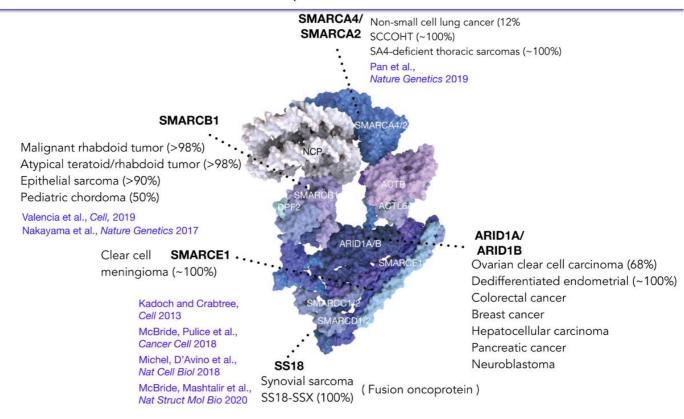


Mashtalir et al., *Cell* 2013 Michel et al., *Nat Cell Bio*

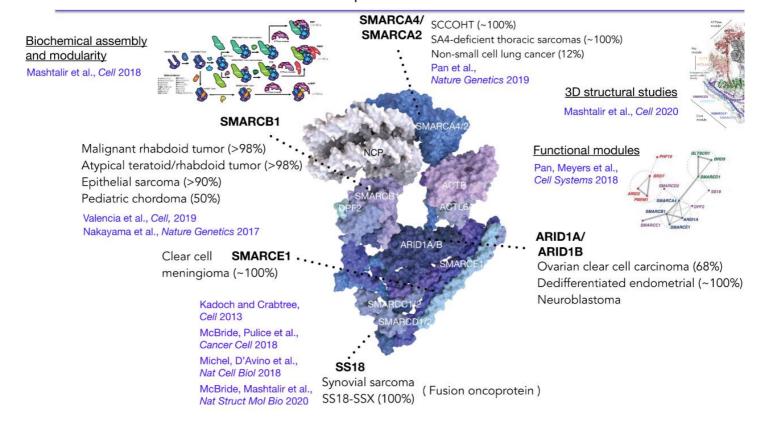
Compositional and functional diversity of mSWI/SNF complexes



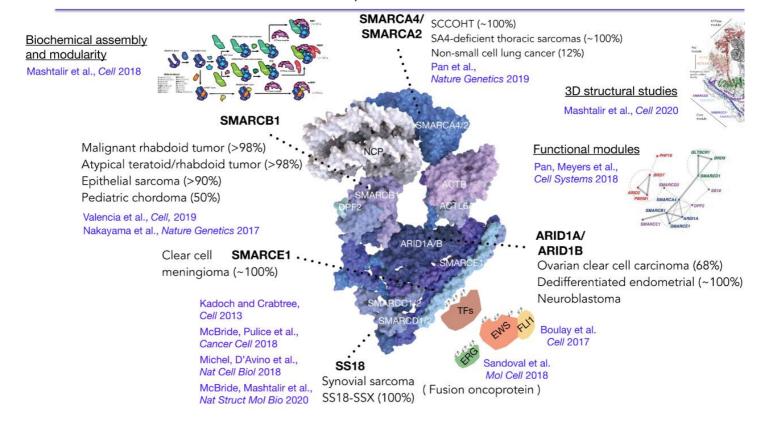
Multi-subunit/multi-cancer studies potentiate identification of new mechanisn



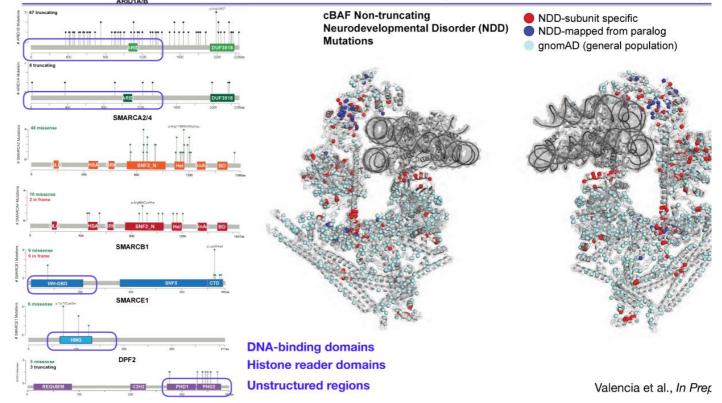
Multi-subunit/multi-cancer studies potentiate identification of new mechanisn



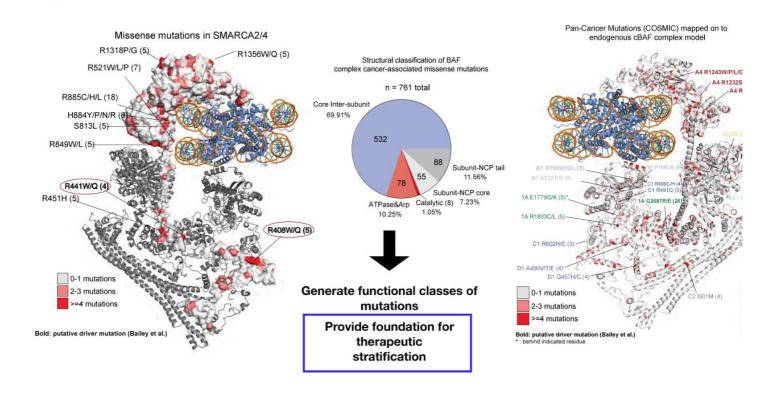
Multi-subunit/multi-cancer studies potentiate identification of new mechanisn



Much more to do: chromatin remodeler complex mutations are widesp



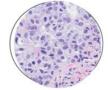
Recurrent cancer-associated mutations highlight broad opportunity for precision med



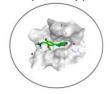
Chromatin remodeling complexes are *major determinants* of chromatin architecture and gene expres

- Actionable dependencies arise from:
 - Paralog deletions/mutations
 - SMARCA4/SMARCA2, ARID1A/B, others
 - Shifted assembly and activities of complexes
 - cBAF-perturbed cancers—> BRD9/ncBAF
 - Transcription factor network across cancers
 - SMARCA4/2 dual ATPase inhibition
 - Locus-specific/process-specific activity
 - Additional targets in development (see pipeline)
 - Chromatin remodelers with other functions (DNA repair, DNA damage, loop architecture, others)

Tissue-specific context



Therapeutic approaches



Cell extrinsic sequelae





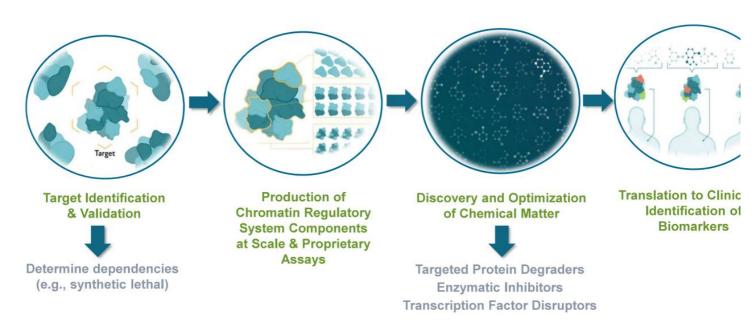
Gene Traffic Control Platform

Steve Bellon, Ph.D.

SVP of Drug Discovery, Foghorn Therapeutics

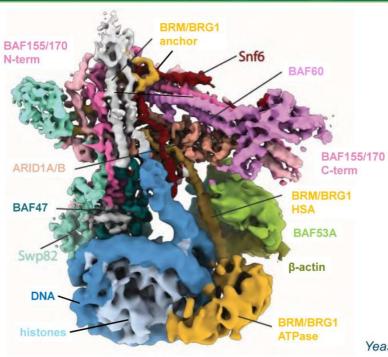
Our Gene Traffic Control Platform Makes It Possible to Understand and Drug Genetic Dependencies within the Chromatin Regulatory System

Integrated, Scalable, Efficient – Repeatable Paradigm



FCGHORN'
THERAPEUTICS

Rational for BAF Targets: BRM/BRG1 Threads Through Entire Complex



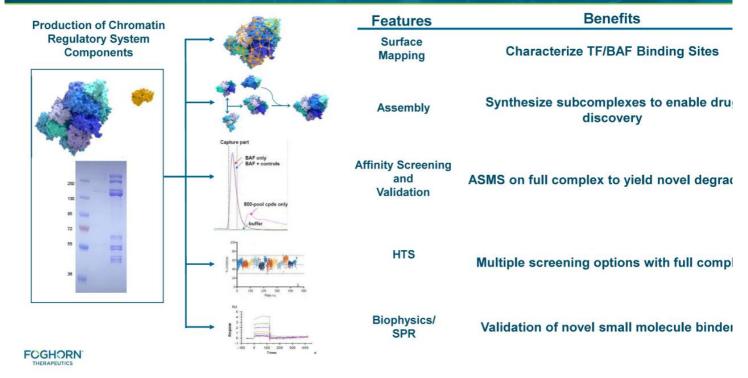
Allostery!

FCGHORN'
THERAPEUTICS

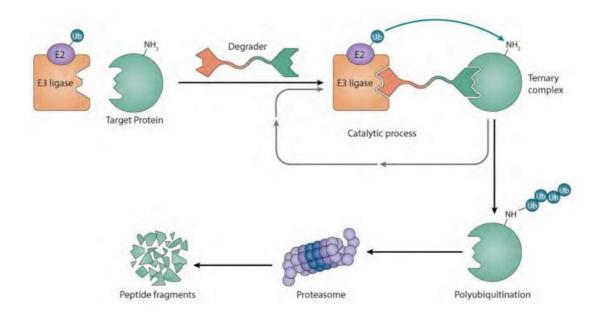
Yeast Swi/Snf cryo EM structure

Platform is Powered by Ability to Produce Components at Scale

Drives Drug Discovery Pipeline with Cutting Edge Technology



Protein Degradation – Evolving Therapeutic Modality





Heterobifunctional Degrader Platform Foghorn Pursuing >8 Targeted Protein Degraders

Bioinformatics	Optimal E3 ligase target pairingProteomics
Screening and Characterization	 Proprietary chromatin remodeling assays Protein degradation kinetics
Chemical Toolbox	 Proprietary library of drug-like linkers and E3 ligase binders Chemistry to rapidly identify and optimize degraders
Structural and Computational Approaches to Degrader Design	 Structure based optimization of binders Ternary complex crystal structures and modeling approaches for degrader optimization
Optimization of Degrader Drug Properties	 Guidelines for both of oral and IV administered degraders PKPD/efficacy and safety modeling to optimize dosing and scheduling

FCGHORN'

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

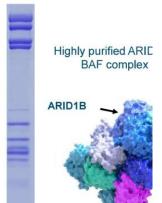
Protein Degrader Capabilities

 Utilize protein degrader toolbox to create ARID1B hetero-bifunctional degraders

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





First Two Programs in the Clinic, Broad Pipeline Advancing Precision Oncology / Breadth and Depth

Program / Target	Modality	Discovery	IND-enabling	Phase 1	Phase 2	Phase 3	Global Righ
FHD-286 (BRG1 / BRM) Enzyme inhibitor	Enguno inhibitor	AML		Early	Clinical Data (Q4 2021)		FOGHORN
	Enzyme illilibitor	Uveal melanoma		Early	Clinical Data (Q4 2021)		FOGHORN
FHD-609 (BRD9)	Protein degrader	Synovial sarcoma		Early	Clinical Data (H1 2022)		FOGHORN
Selective BRM	I) Enzyme inhibitor	BRG1 mutated cancers					FOGHORN Helitableutica
	II) Protein degrader	BRG1 mutated cancers	IND 2022				
Selective ARID1B	Protein degrader	ARID1A mutated cancers					FOGHORN
Synthetic Lethal Targets (multiple)	I) Enzyme inhibitors						ECCHODA
	II) Protein degraders						FOGHORN
Transcription	I) Transcription factor disruptors						FOGHORN
Factors (multiple)	II) Protein degraders						THERAPEUTICS
Partnered program (undisclosed)	Transcription factor disruptor						€ MERCH
(unuiscioseu)		Gene Tra	affic Contro	ol® Platfori	m		

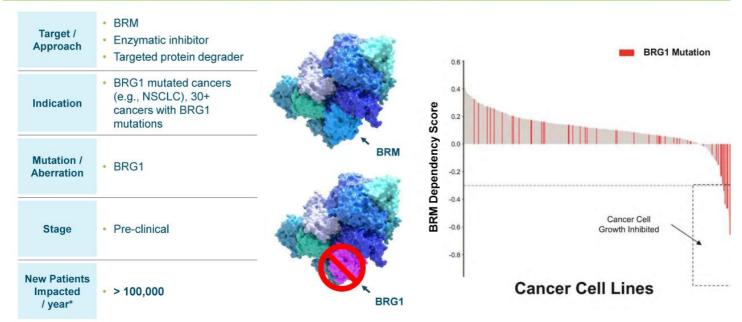


Selective BRM Modulators for BRG1 Mutated Cancers

Enzymatic Inhibitor and Protein Degrader Programs

BRG1 Mutations Create a Genetic Dependency on BRM

Selective BRM Modulators Overview

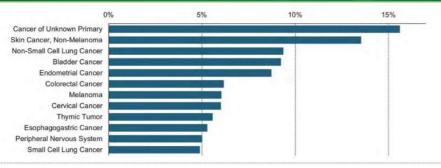


* US, EU5, Japan

FCGHORN'

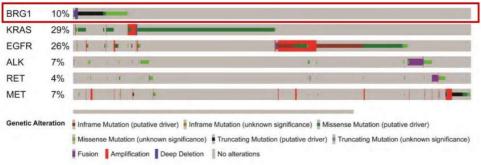
BRG1 Mutated in ~5% of All Tumors

Broad Addressable Patient Population



BRG1 mutated across range of tumors

Accounts for ~5% of all tumors

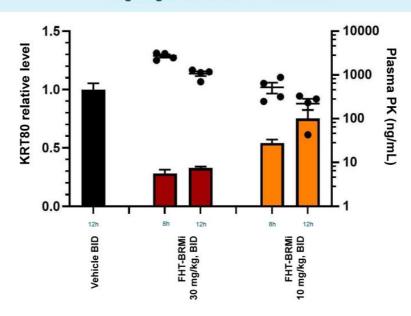


BRG1 mutated in up to 10% of NSCLC tumors, minimal overlap with other mutations



In Vivo Target Engagement With ~20X Selective BRM Selective Inhibitor PD Modulation in the H1299 BRG1-Null NSCLC PD Model Establishing a Direct Exposure-Response Relationship

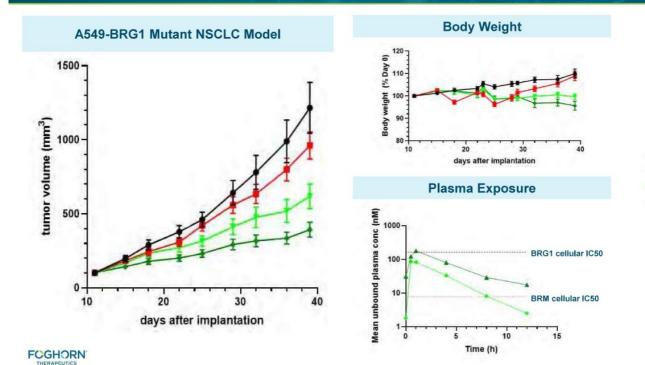
Targeting BRM: KRT80 PD Biomarker



FOGHORN'

BRM Selective Inhibitor In vivo Efficacy

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

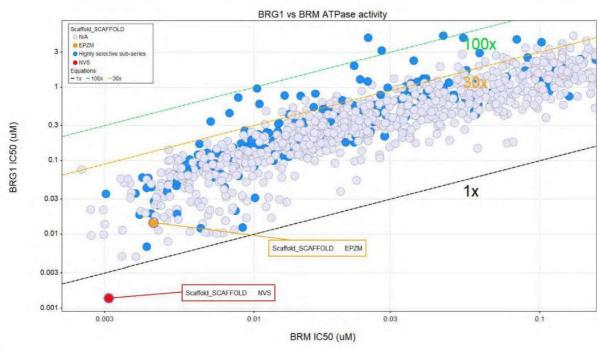


Vehicle Control (BID

Cisplatin 4 mg/kg (IP FHT-BRMi 15 mg/kg

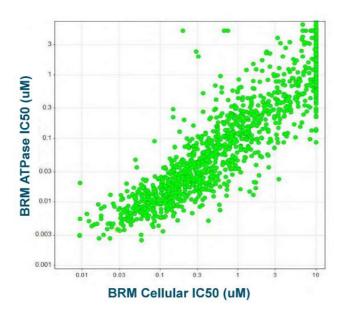
FHT-BRMi 30 mg/kg

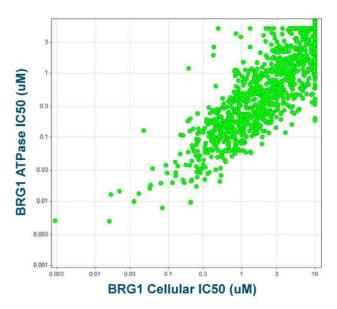
Scaffolds With Enzymatic Selectivity > 100X



FOGHORN

Strong Correlation from Enzyme to Cellular Reporter Assays







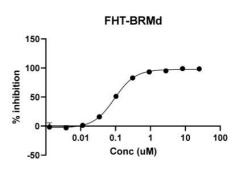
Advancing BRM Selective Degraders

Achieving Complete BRM Degradation

BRM/BRG1 HiBit Data

100 % 75 50 25 0 1E-3 0.01 0.1 1 10 concentration (uM)

A549 Ten-Day Proliferation Assay



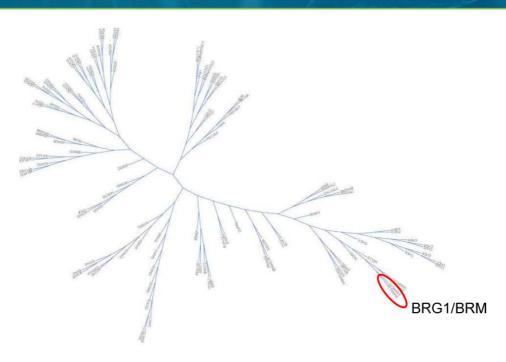
Degraders cause time- and dose-dependent BRM degradation, antiproliferative effects in A549 BRG1 mutant NSCLC lung model





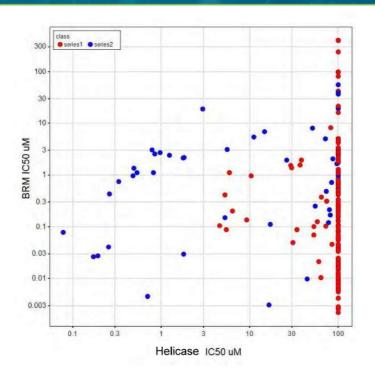
Target Hopping to Related Helicase Targets

ATP Dependent Helicases
Potential to Broaden Pipeline and Further Validate Platform Breadth



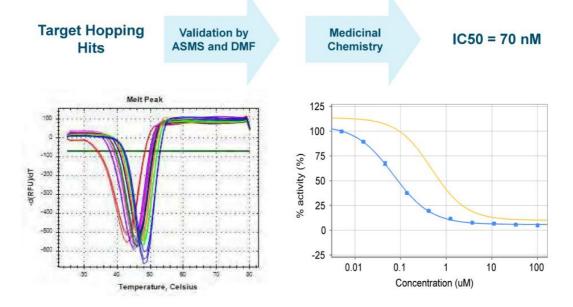
FCGHORN'

Target Hopping to Related Helicase Targets



FCGHORN'

Potency Improved to Sub 100 nM







Novel Approach to Targeting Transcription Factors

Disrupting Transcription Factor - Chromatin Remodeling Complex Interactions

A New Approach to Drugging Transcription Factors

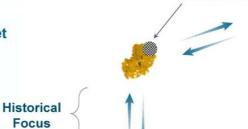
Enabled by Proprietary Ability to Purify and Synthesize Chromatin Regulatory System Components

TFs are compelling drug targets...

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

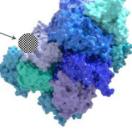
...but historically difficult to target

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







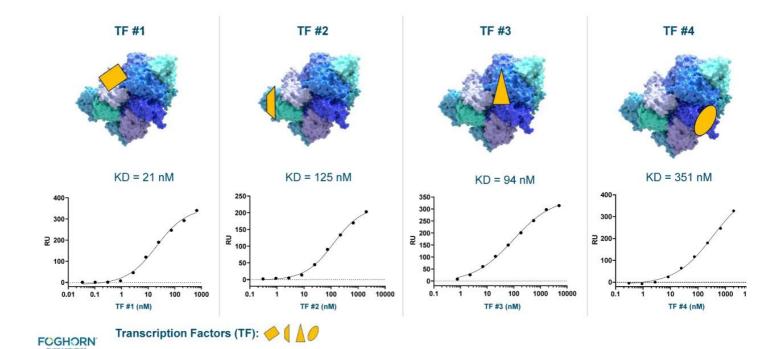


Foghorn has a new approach focusing on interaction with BA

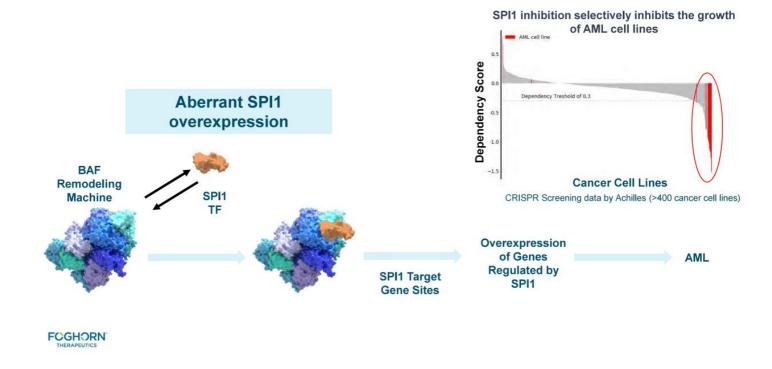
- Druggable binding pockets
- Druggable affinities



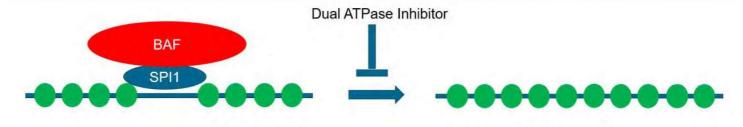
Transcription Factor-Chromatin Remodeling Complex Interactions Unique Insights in Where and How Transcription Factors Bind



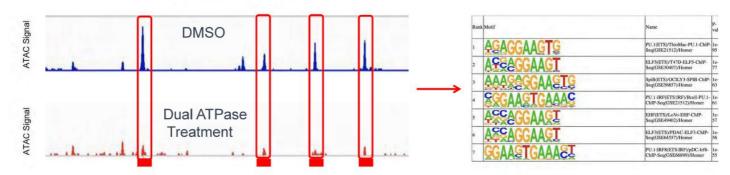
SPI1: Transcription Factor SPI1 Dependency in AML



ATAC-seq Shows SPI1 Regulatory Elements are BAF Dependent



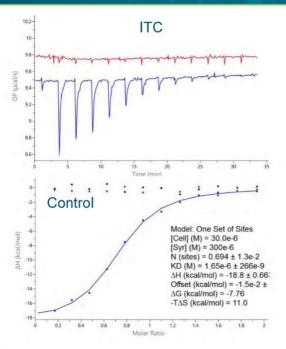
ATAC-Seq measures open regions of genome

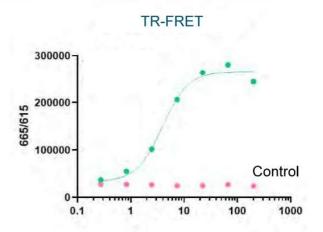


What motifs exist at newly closed chromatin?

All SPI1 Binding Signature

Full BAF Mapping Identifies Key Interactions With SPI1 TR-FRET Based Screening Assays Constructed





Control curves have key interaction residues deleted from BAF subunit

FOGHORN'

Highly Scalable Approach and Significant Unmet Medical Need

Potential to Drug > 100 TFs Associated with BAF

- >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

FOGHORN'



FHD-286: Clinical Entry Point - AML and Uveal Melanon

Sam Agresta, MP, MPH & TM
Chief Medical Officer, Foghorn Therapeutics

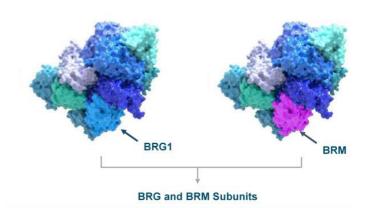
FHD-286 Targets Abnormal Dependencies on BAF in Cancer

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

* US, EU5, Japan

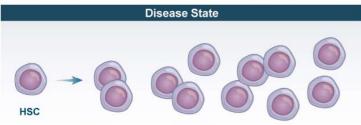


BAF Chromatin Remodeling Complex

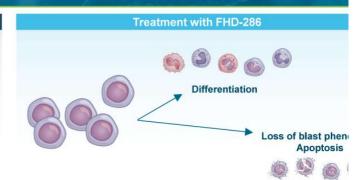


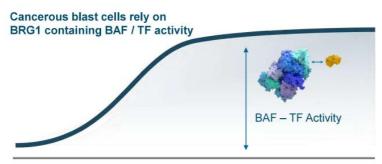
- BRM/BRG1 is the engine (ATPase) of the BAF chromatin remodeling complex
- BRG1 & BRM are highly similar proteins

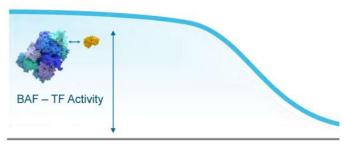
AML & Dependency on BRG1 / Lineage Dependent TF Interactions



AML blasts stuck in BAF / TF dependent proliferative phase



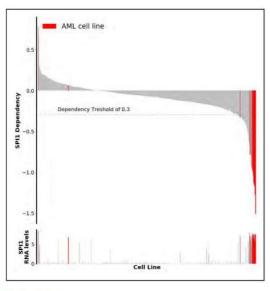




FOGHORN'

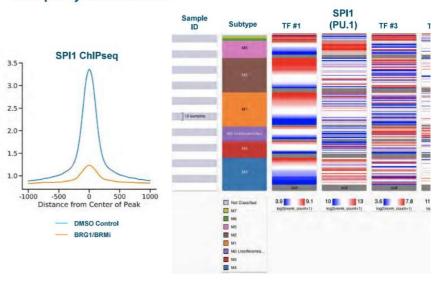
AML Dependent on BRG1 / Lineage TF Interaction

SPI1 (PU.1) / BAF Dependency



BRG1 Inhibition Leads to Loss of SPI1 (PU.1) Occupancy on Chromatin

Four TF's Associated With 70% of AM

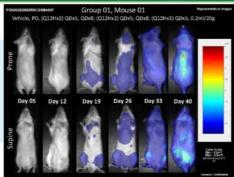


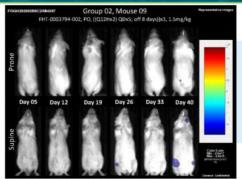
FOGHORN'

Tumor Growth Inhibition with FHD-286 Treatment Observed by Bioluminescence

Imaging in a Disseminated AML model

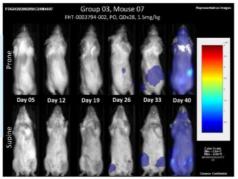
Vehicle

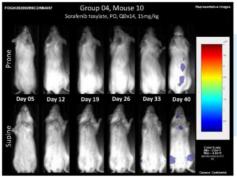




FHD-286 1.5 mg/kg, BID (5on / 8off) x3

FHD-286 1.5 mg/kg QDx28

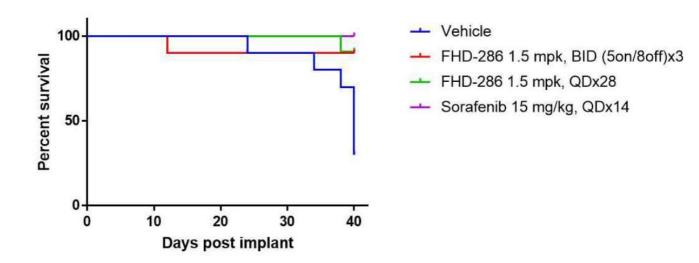




Sorafenib 15 mg/kg, QDx14

FOGHORN'

FHD-286 Survival Advantage in Disseminated AML Model



FCGHORN'

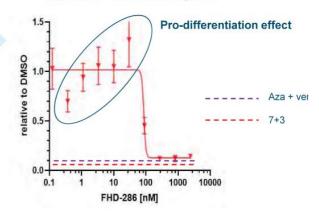
FHD-286 Shows Broad Efficacy Across AML Patient Derived Samples

Notable Patient ID	Deep Response	Pathology Review	Disease Status	
1690AML1	Y	AML	Secondary	
1695AML1	Υ	AML/MDS	Secondary	
1696AML1	Υ	AML	Secondary	
1701AML1	Y	AML	Secondary	
1893AML1	Y	AML	R/R	
1899AML1	Υ	AML	R/R	
1990pAML1	Y	AML	R/R	
1991pAML1	Υ	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

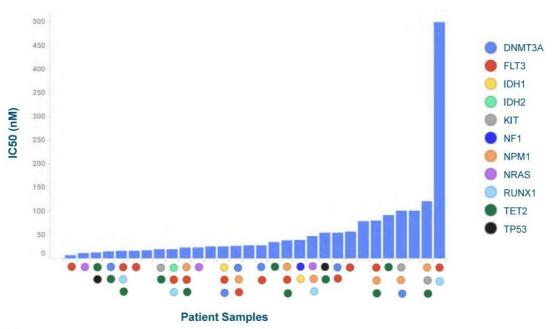


1695AML1 - BM-secondary AML



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

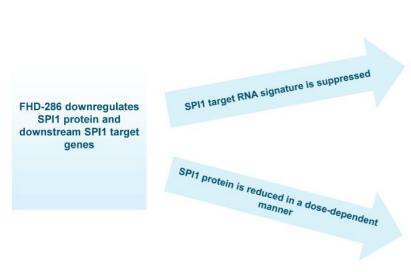
FHD-286 Shows Effect Across a Range of Mutations in AML Patient-Derived Samples

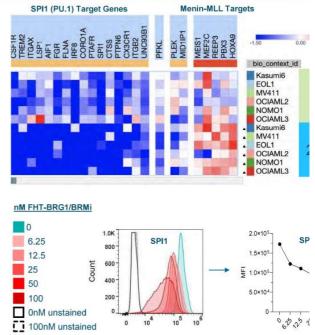


FOGHORN'

Potential PD Marker: AML TFs and Gene Signatures

BAF Regulates SPI1, A Key Transcription Factor in AML Subsets







Uveal Melanoma

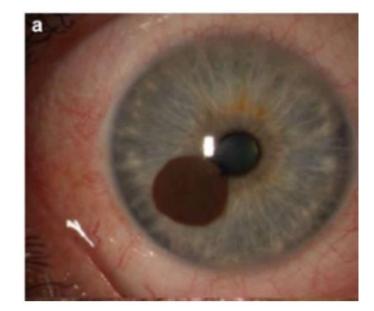
Disease Overview

Primary Disease:

- ~1,500 cases diagnosed each year, US
- Age at diagnosis: early 60s-median, 70s-peak
- ~30% asymptomatic
 - Lesion found on routine eye exam
- · Mild symptoms such as blurry vision in one eye
- 95+% are primary disease at diagnosis

Metastatic Disease:

 Over 50% of patients develop metastatic disease, typically in the liver.



FOGHORN'

Metastatic Uveal Melanoma

Disease Overview

- Treatment: No approved treatments
 - Liver Directed: Chemoembolization, radioablation, immunotherapy
 - Systemic: Ipilimumab + nivolumab, dacarbazine, temozolomide
- Majority (~80%) of patients die within 1 year of detection of metastasis
- Median survival is ~6-9 months

100 CIT - CHT 80 Overall survival (%) 60 40 20 P=0.80 0 -2 Time (years) Number at risk CHT 272 39 CIT 107

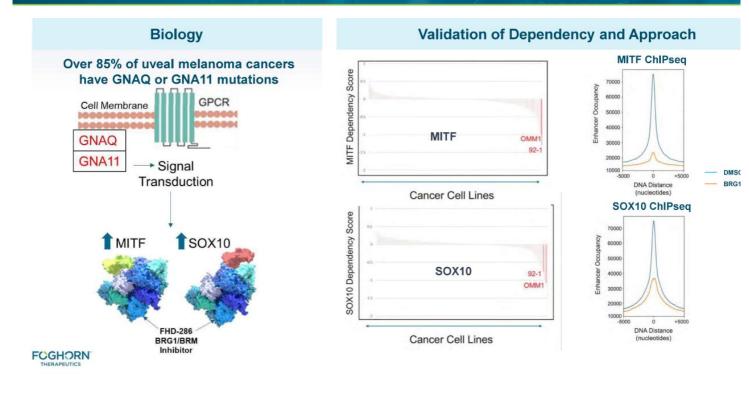
Rantala, et. al, Melanoma Research, 2019, Vol 29 No 6

High Unmet Need



Therapeutic Rationale for Uveal Melanoma: Dependency on MITF / SOX10 TF's and BAF Complex Interaction

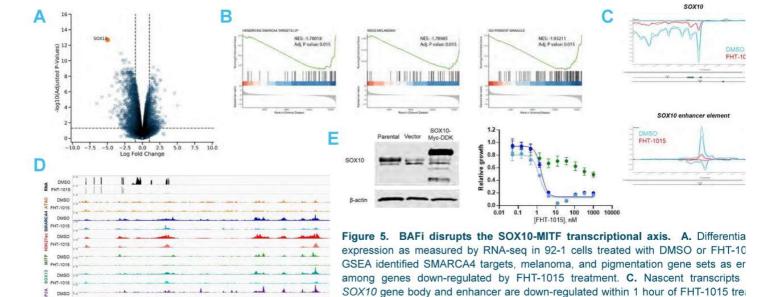
Inhibiting BRG1/BRM to Shut Down the Abnormal TF Interaction with the BAF Complex



Dual BRG1/BRM Inhibition

FCGHORN'

Disrupts the SOX10-MITF Transcriptional Axis in Uveal Melanoma



in MP46 UM cells. **D.** Genome browser view of the *SOX10* locus, showing the I accessibility, SMARCA4, and TF occupancy at the SOX10 enhancers following FH treatment in 92-1 cells. **E.** Forced expression of *SOX10* from a BAF-independent procession of the source of th

can rescue the growth inhibition phenotype elicited by FHT-1015.

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

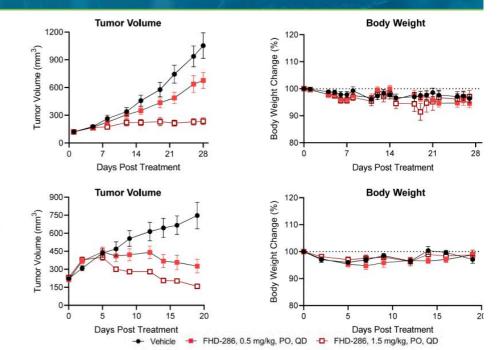
MP-46 uveal melanoma CDX model

- Dose-dependent tumor growth inhibition
- Well tolerated

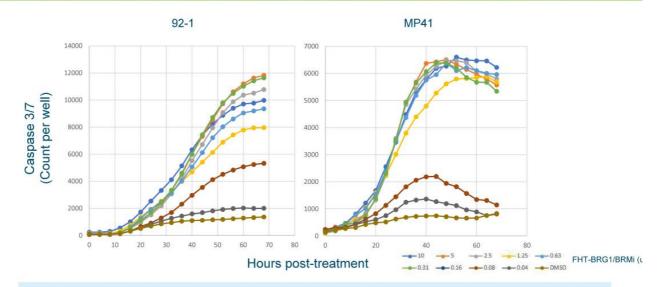
92-1 uveal melanoma CDX model

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

FCGHORN THERAPEUTICS



BRG1/BRM Inhibition Induces Apoptosis in UM Cell lines



Significantly faster onset (3 days) and potent growth inhibition with apoptosis in UM cell lines



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

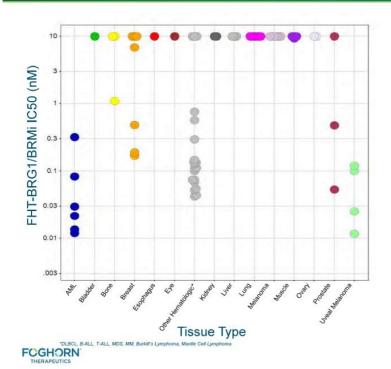
Potential for entry into definitive efficacy trials in metastatic uveal melanoma

Potential for Indication Expansion Beyond AML and UM

Clinical data as early as Q4 2021

FCGHORN'

Indication Expansion Opportunities for FHD-286





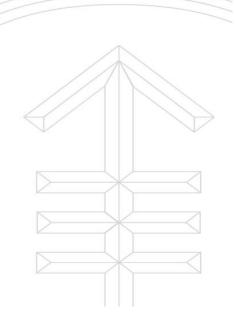
SMARCA2-deficiency confers sensitivity to targeted inhibition of SMARCA4 in esophageal squamous cell carcinoma cell lines

NationNine Entlemoter - worder or received - volumer's comment of the comment of

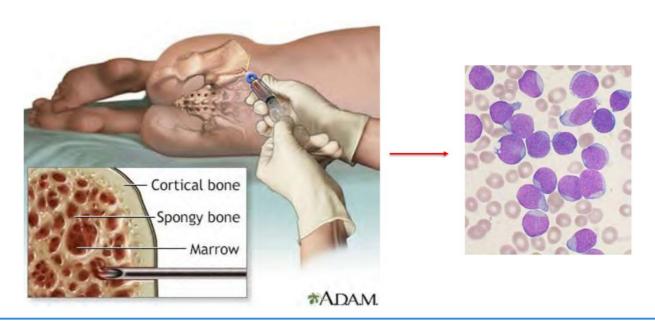


Acute Myeloid Leukemia in 2021

Eytan M. Stein, MD
Director, Program for Drug Development in Leukemia
Leukemia Service
Memorial Sloan Kettering Cancer Center
New York, New York



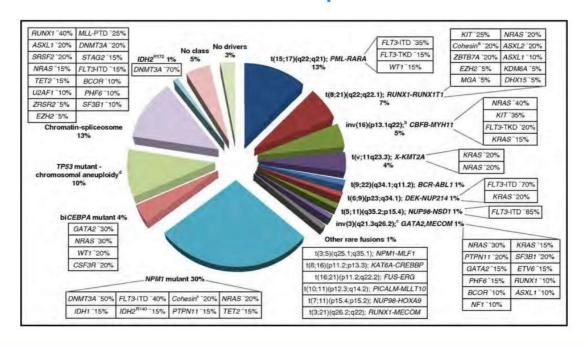
Acute Myeloid Leukemia





Memorial Sloan Kettering Cancer Center

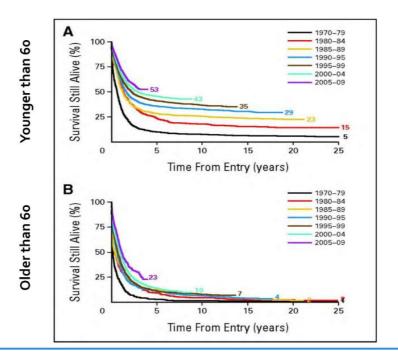
AML is Complicated



Memorial Sloan Kettering Cancer Center

Dohner H, et. al, Blood, :

Overall Survival in AML

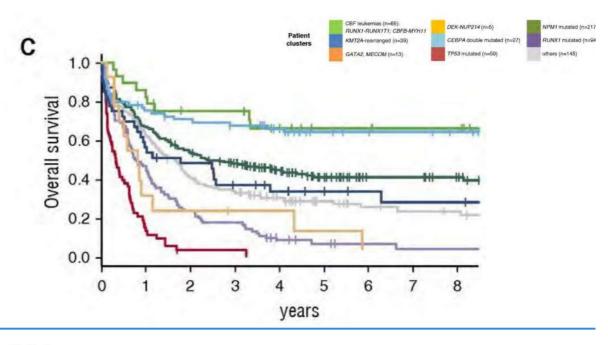


1884

Memorial Sloan Kettering Cancer Center

Burnett A et al. JCO 2011;29:487-494

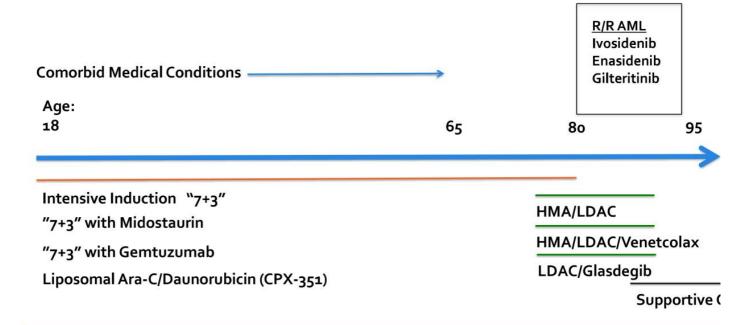
Survival Can be Stratified Based on Genetics



Memorial Sloan Kettering Cancer Center

Metzeler, Blood 20

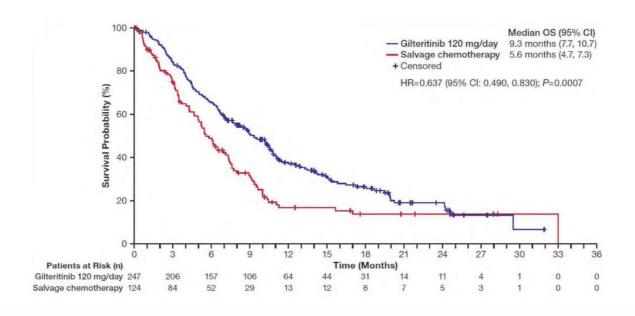
Paradigms for Treating Newly Diagnosed AML





Memorial Sloan Kettering Cancer Center

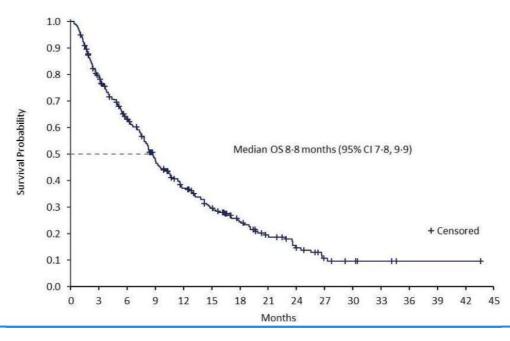
Gilteritinib for Relapsed/Refractory AML with FLT₃ Mutation



Memorial Sloan Kettering Cancer Center

Perl A, et. al, NEJM 20

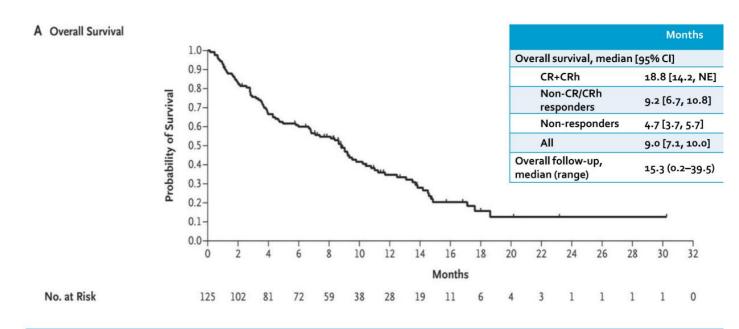
Enasidenib (IDH2) Overall Survival – All R/R Patients



Memorial Sloan Kettering Cancer Center

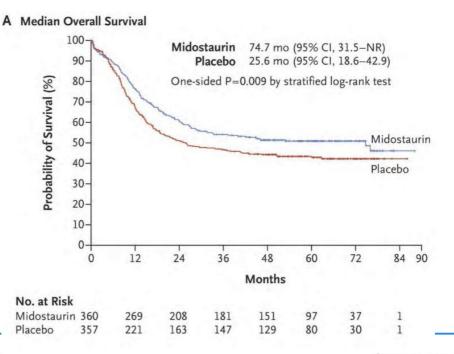
Stein EM, Dinardo CD, et al, Blood 2017

Ivosidenib (IDH1) Overall Survival – All R/R Patients



Memorial Sloan Kettering Cancer Center

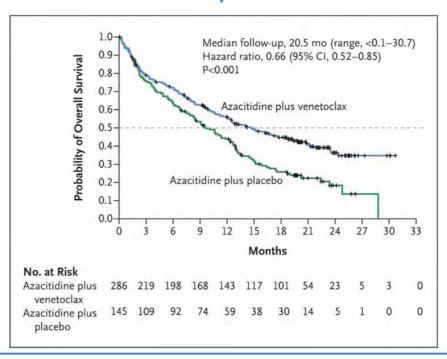
Combining Midostaurin with Chemotherapy



Memorial Sloan Kettering Cancer Center

Stone R, et. al, NEJM 2017

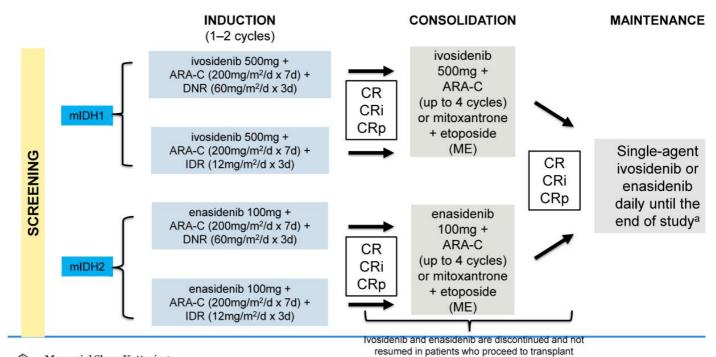
Aza/Ven



Memorial Sloan Kettering Cancer Center

Dinardo C, NEJM 2020

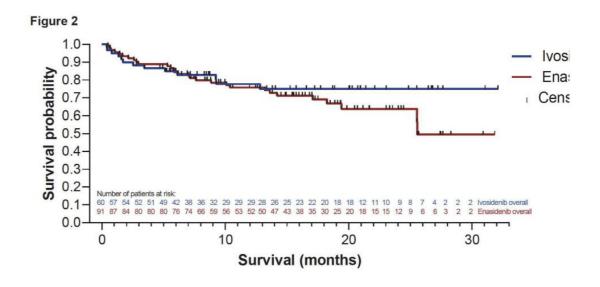
Enasidenib/Ivosidenib with Induction Chemotherapy



Memorial Sloan Kettering Cancer Center

ARA-C = cytarabine; DNR = daunorubicin; IDR = idarubicin

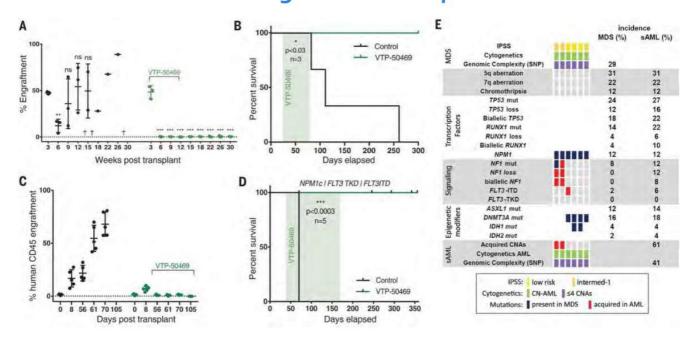
Enasidenib/Ivosidenib with Induction Chemotherapy





Stein E, et. al Blood 20:

Novel Investigational Therapies are Effective



Memorial Sloan Kettering Cancer Center

Hannah J. Uckelmann et al. Science 2020;367:58€

Transcription Factor Modifiers in Action - Menin Inhibitors

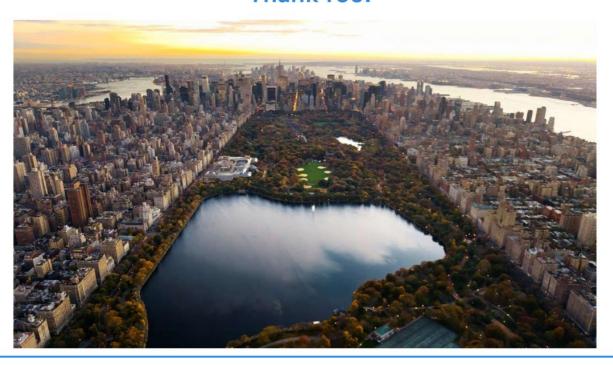
Best Response at data cutoff	Response Evaluable n = 31 (%)		
Overall Response Rate*	15/31 (48%)		
CR/CRh	5		
CRp	5		
CRi/MLFS	5		
MRD negative^ ORR	10/15 (67%)		
MLLr overall response rate	13/24 (54%)		
mNPM1 overall response rate	2/7 (29%)		

Conclusions

- Molecular studies are now part of the routine assessment of patients with newly diagnosed and relapsed acute myeloid leukemia
- Despite the approval of novel agents, the median and two year overall survival with these agents leaves many opportunities for the use of novel agents
 - Overall survival at two years with aza-ven is 40%
- Moving effective agents into combinations earlier in the course of therapy, are crucial for deriving the maximum benefit from novel agents
- Foghorn is exploring a novel approach to altering gene expression through dual inhibition of BRG1/BRM, and subsequent transcription factor modulation, such a SPI1 and others.



Thank You!



1

Memorial Sloan Kettering Cancer Center steine@mskcc.org



FHD-609: Clinical Entry Point – Synovial Sarcoma

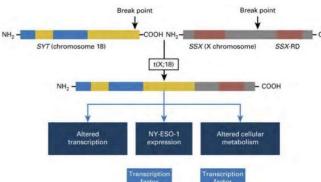
Sam Agresta, MP, MPH & TM
Chief Medical Officer, Foghorn Therapeutics

Synovial Sarcoma

Disease Overview

- 5-10% of all soft tissue sarcomas
- Most common presentation: Soft tissue tumor of the extremities in young adults
- Characterized by the translocation t(X;18)(p11.2;q11.2)
- SS18 gene product:
 - Encodes for a protein subunit of the mSWI/SNF (BAF) chromatin remodeling complex
 - SS18-SSX gene competes with the endogenous SS18 protein, forming an altered complex lacking the tumor suppressor BAF4





FCGHORN'

Metastatic Synovial Sarcoma

Disease Overview

- Surgical resection of metastatic disease
 - Can provide long-term relapse-free survival in selected patients.
- Chemotherapy
 - Administered with palliative intent, with the goals of decreasing tumor bulk, diminishing symptoms, improving quality of life, and prolonging survival.
- Advanced unresectable
 - Candidates for clinical trials
- Prognosis:
 - Localized disease: 5-year PFS range from 26% 80.7% and 5-year OS from 40% - 90.7%
 - Metastatic disease: 5-year OS is very low, 0-10%





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

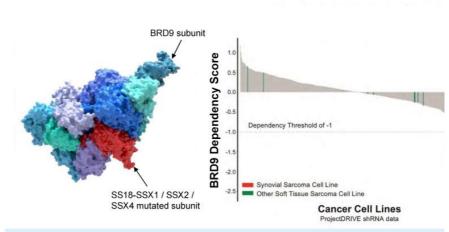
Selective, Potent BRD9 Targeted Protein Degrader





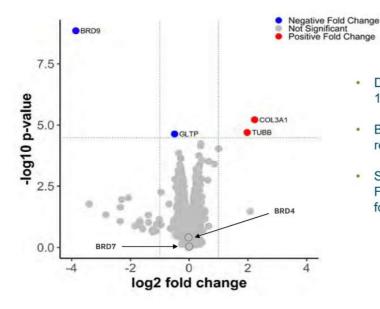
* US, EU5, Japan





BRD9 is required for the survival of synovial sarcoma cells

FHD-609 Selectively Degrades BRD9: Global Proteomic Assessment



- Data shown for SYO1 synovial sarcoma cells treated with 16nM of FHD-609 (~200x DC50) for 4h.
- BRD9 is the only protein significantly degraded, with 16-fi reduction, by quantitative MS analysis.
- Similar selectivity observed for 24h treatment of 16nM FHD-609, or higher concentration of 78nM (~1000x DCt for 4h, data not shown

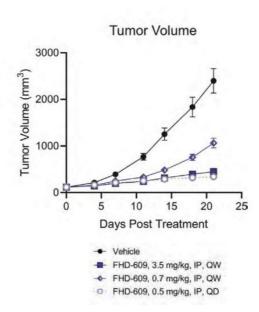
FCGHORN'

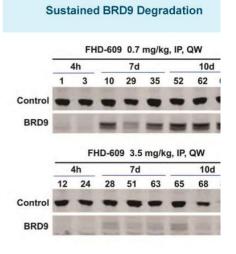
Robust *in vivo* Activity Observed in Synovial Sarcoma Model and BRD9 Degradation Associated with FHD-609 Treatment

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



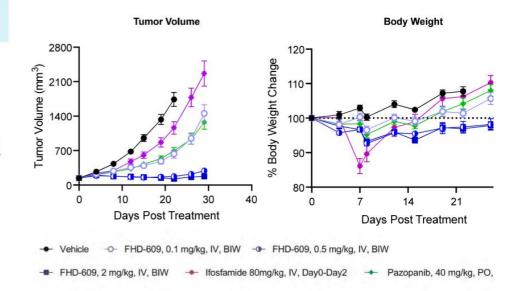




Superior Tumor Growth Inhibition of FHD-609 in a Synovial Sarcoma Model as Compared to Ifosfamide and Pazopanib

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





FHD-609 Clinical Development Plan

CLINICAL PLAN

Synovial Sarcoma FIH Phase 1

Metastatic Synovial Sarcoma

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







Sarah Cannon Research Sites



Phase I Drug Development Program

50+

Phase 1 Studies in Presentations at ASCO 2020

200+

Unique Agents per Year

500+

First-in-Human Trials Conducted

1,200+

Patients Treated on

Phase 1 Trials in 2020

over the Last 10 Years

Physicians who Engage in P1 Research

Clinical Trial Leader in the **Majority** of Approved Cancer Therapies



Tennessee Oncology Nashville Franklin



Florida Cancer Specialists Sarasota Lake Mary Lake Nona



Oklahoma Univ. Medical Center Oklahoma City



Sarah Cannon UK London



Sarah Cannon HealthONE Denver



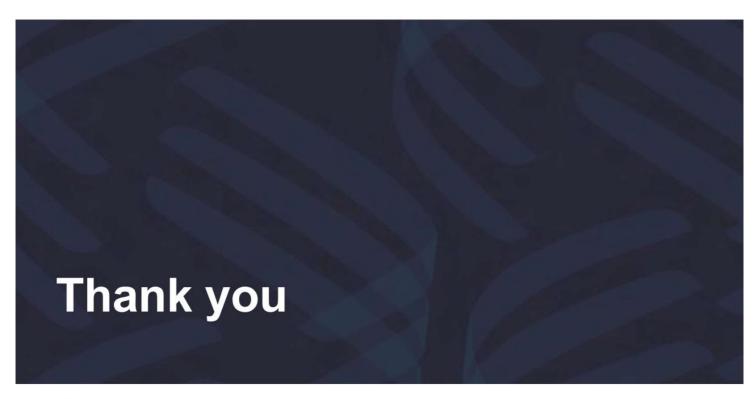
Health Philadelphia



First Two Programs in the Clinic, Broad Pipeline Advancing

Precision Oncology / Breadth and Depth









Concluding Remarks Q&A

Adrian Gottschalk
Chief Executive Officer, Foghorn Therapeutics