

Corporate Presentation



NASDAQ: CRIS

Forward Looking Statements



This presentation contains certain forward-looking statements about Curis, Inc. (“we,” “us,” or the “Company”) within the meaning of the Private Securities Litigation Reform Act of 1995, as amended. Words such as “expect(s),” “believe(s),” “will,” “may,” “anticipate(s),” “focus(es),” “plans,” “mission,” “strategy,” “potential,” and similar expressions are intended to identify forward-looking statements. Forward-looking statements are statements that are not historical facts, reflect management’s expectations as of the date of this presentation, and involve important risks and uncertainties. Forward-looking statements herein include, but are not limited to, statements with respect to the timing and results of future clinical and pre-clinical milestones; the timing of future preclinical studies and clinical trials and results of these studies and trials; the clinical and therapeutic potential of our drug candidates; and management’s ability to successfully achieve its goals. These forward-looking statements are based on our current expectations and may differ materially from actual results due to a variety of important factors including, without limitation, risks relating to: whether any of our drug candidates will advance further in the clinical development process and whether and when, if at all, they will receive approval from the U.S. Food and Drug Administration or equivalent foreign regulatory agencies; whether historical preclinical results will be predictive of future clinical trial results; whether historical clinical trial results will be predictive of future trial results; whether any of our drug candidate discovery and development efforts will be successful; whether any of our drug candidates will be successfully marketed if approved; our ability to achieve the benefits contemplated by our collaboration agreements; management’s ability to successfully achieve its goals; the sufficiency of our cash resources; our ability to raise additional capital to fund our operations on terms acceptable to us or the use of proceeds of any offering of securities or other financing; general economic conditions; competition; and the other risk factors contained in our periodic and interim reports filed with the Securities and Exchange Commission which are available on the SEC website at www.sec.gov. You are cautioned not to place undue reliance on these forward-looking statements that speak only as of the date hereof, and we do not undertake any obligation to revise and disseminate forward-looking statements to reflect events or circumstances after the date hereof, or to reflect the occurrence of or non-occurrence of any events, except as required by law.

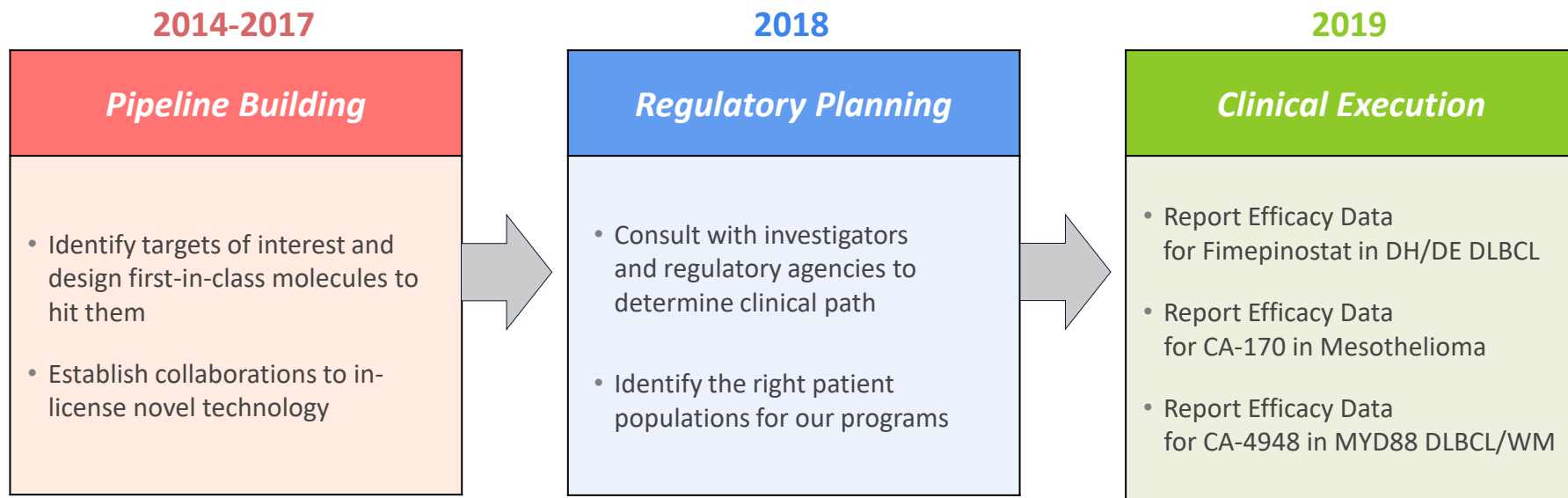
Evolution of Curis

Progressing from Pipeline Building to Clinical Execution



Curis has built a novel pipeline with three first-in-class programs.

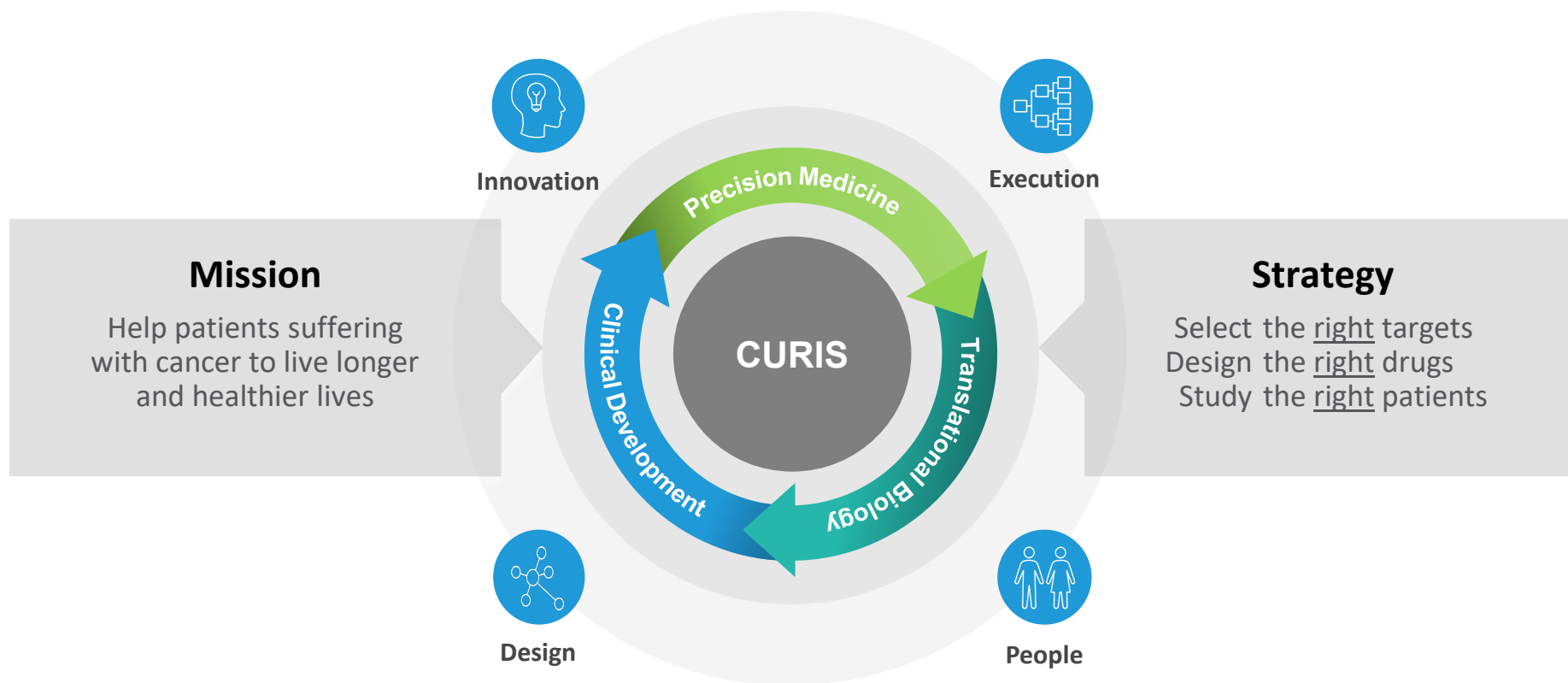
In 2019, our focus shifts to efficient clinical execution and the reporting of efficacy data.



Note: This slide contains forward-looking statements about Curis's potential 2019 data catalysts within the meaning of the Private Securities Litigation Reform Act of 1995, as amended. The potential 2019 data catalysts are based on our current expectations and may differ materially from actual results due to a variety of important factors including, without limitation, risks relating to whether any of our drug candidates will advance further in the clinical development process and whether and when, if at all, they will receive approval from the U.S. Food and Drug Administration or equivalent foreign regulatory agencies..

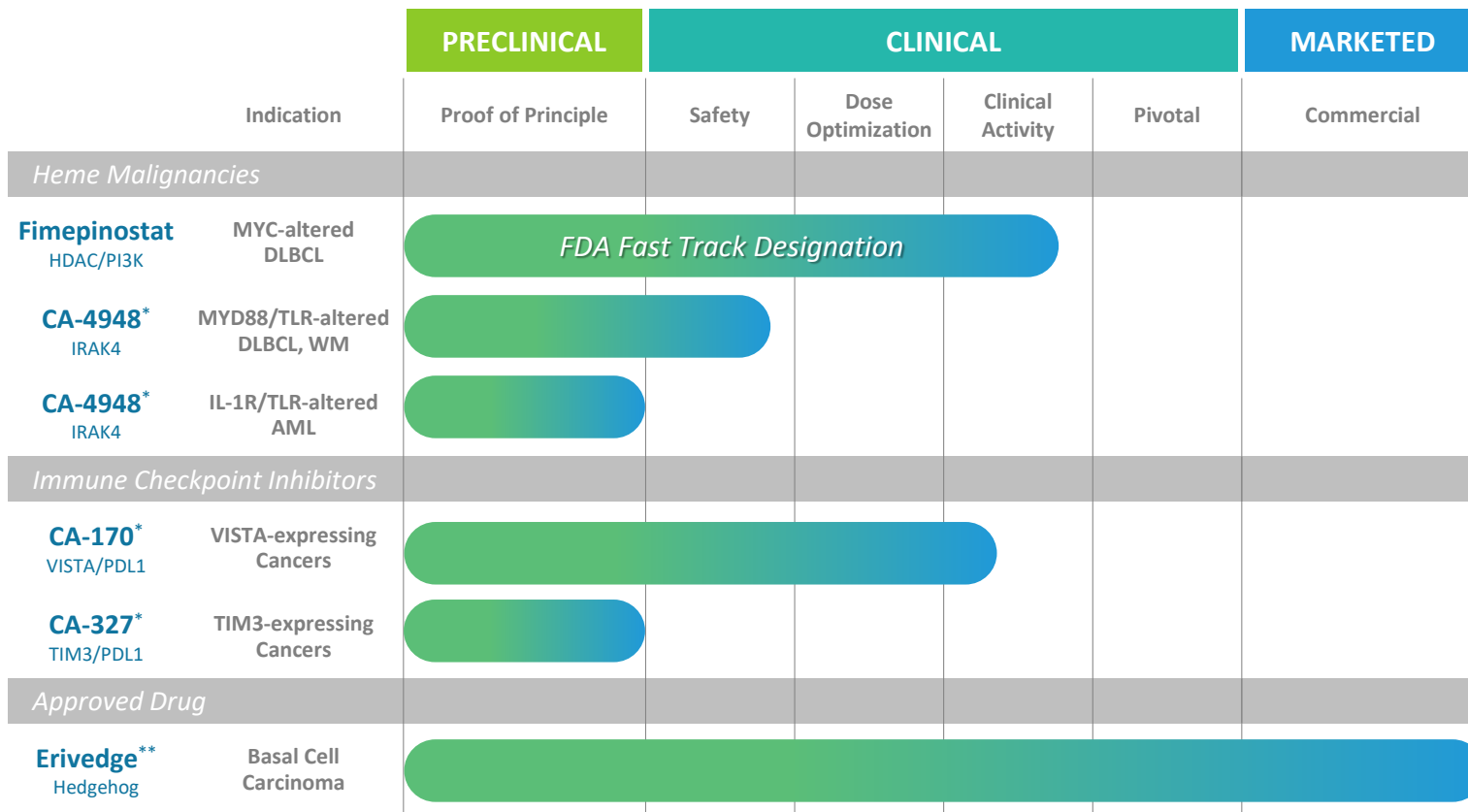
Curis Mission & Strategy

Developing the New Generation of Targeted Cancer Drugs



Pipeline of Oncology Drug Candidates

First-in-Class, orally available, targeted small molecules



Expected 2019 Catalysts

Initial data in 2H '19
DH/DE DLBCL Combo

Initial data in Mid '19
MYD88 DLBCL/WM

Initial data in 2H '19
Mesothelioma

Targeted Drugs in Heme Malignancies

Fimepinostat: For treatment of MYC-altered DLBCL

Diffuse Large B-Cell Lymphoma (DLBCL)

Most common form of NHL accounting for ~30% of cases¹

- Population

~ 100,000 DLBCL patients diagnosed per year^{2,3,4}
(~35% of DLBCL patients are MYC-altered)⁵

- Current Treatment

1st Line Treatment: CHOP/EPOCH ± Rituximab⁶

2nd Line Treatment: ICE/Benda ± Rituximab⁶

Relapsed/Refractory: SCT/CAR-T^{5,6}

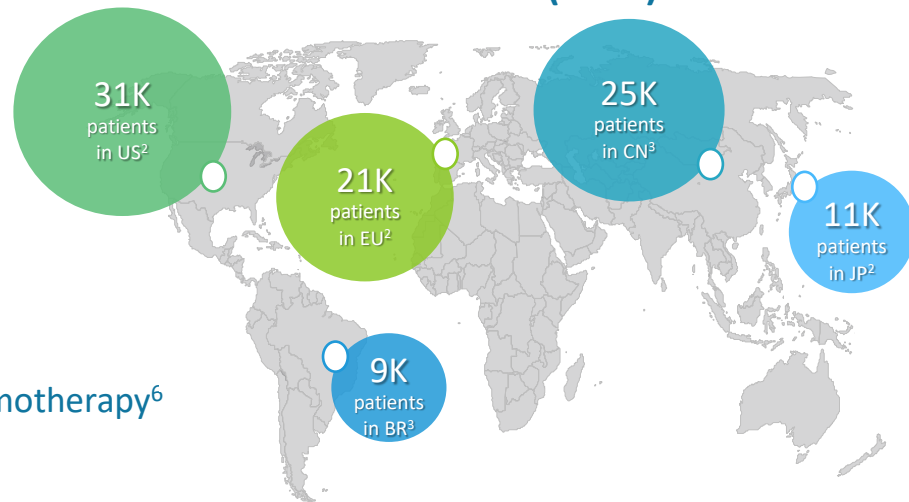
or

Single/Multiple Agent Chemotherapy⁶

- Unmet Need

- Majority of R/R DLBCL patients are ineligible for or do not receive SCT/CAR-T^{6,7,8}
- Poorest prognosis for patients with Double-hit (DH) and Double-expressor (DE) lymphoma⁵
- No current treatments target the molecular genetics of disease (e.g., MYC, BCL2, MYD88) that contribute to its chemo-resistance^{9,10}

DLBCL Incidence (2017)



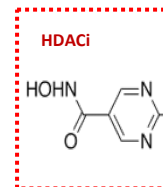
Fimepinostat Overview

In development for patients with MYC-altered disease

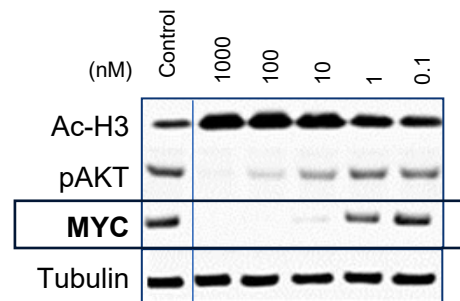
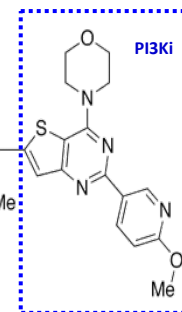
Profile

Value Proposition	- First-in-class drug with demonstrated anti-tumor activity in DLBCL patients with high unmet need - Composition-of-matter IP extends into 2032
Population	MYC-altered DLBCL, including Double-Hit / Double-Expressor Lymphoma
Product Description	- Potent and orally bioavailable dual inhibitor of HDAC and PI3K enzymes¹ - HDAC component inhibits transcription of MYC and MYC-regulated genes² - PI3K component results in ubiquitin mediated MYC protein degradation² - Favorable safety profile in over 200 patients

The HDAC component inhibits MYC transcription



The PI3K component decreases MYC protein levels



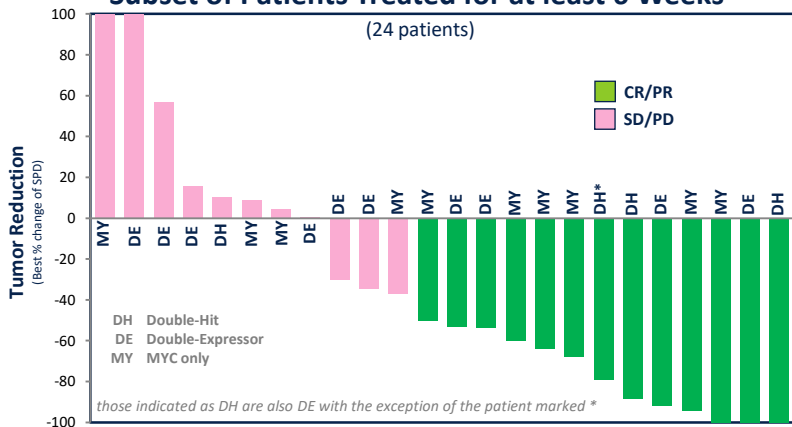
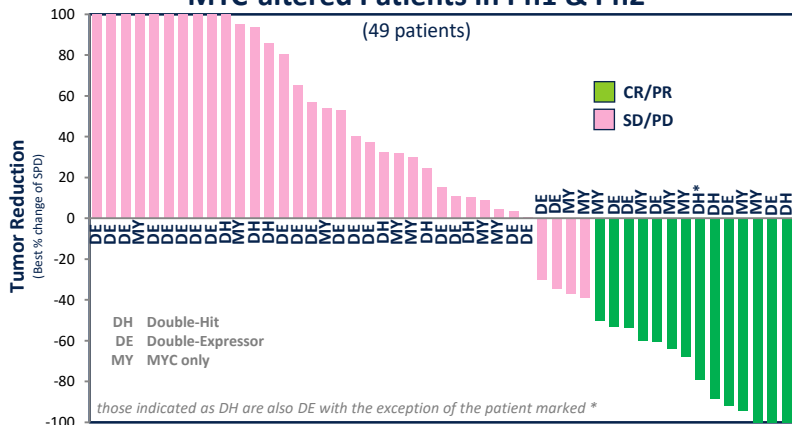
Potent and dose-dependent downregulation of MYC protein

Protein levels in DLBCL cells after treatment with Fimepinostat (Curis Preclinical Study)

1) Qian et.al. Clin Cancer Res. 2012. 18: 4104

2) Sun et.al. Mol Cancer Ther. 2017. 6: 285

Durable responses (median duration of response is 13.6 months)



subset of patients

- 8 CR and 6 PR, including 8 patients that are DH and/or DE
- Responses are durable (mDoR is 13.6 months)

- Fimepinostat efficacy improves with multi-cycle exposure
- Combination with another therapy may result in quicker responses and enable patients to remain on fimepinostat for ≥ 6 weeks

Combining fimepinostat with an anti-lymphoma agent could allow more patients to see the strong and delayed benefit of fimepinostat treatment

Note:
Tumor Reduction Data from Ph1 (NCT01742988) and Ph2 (NCT02674750) studies

Combination Therapy Strategy

Fimepinostat + venetoclax as a potential treatment for DH/DE Lymphoma



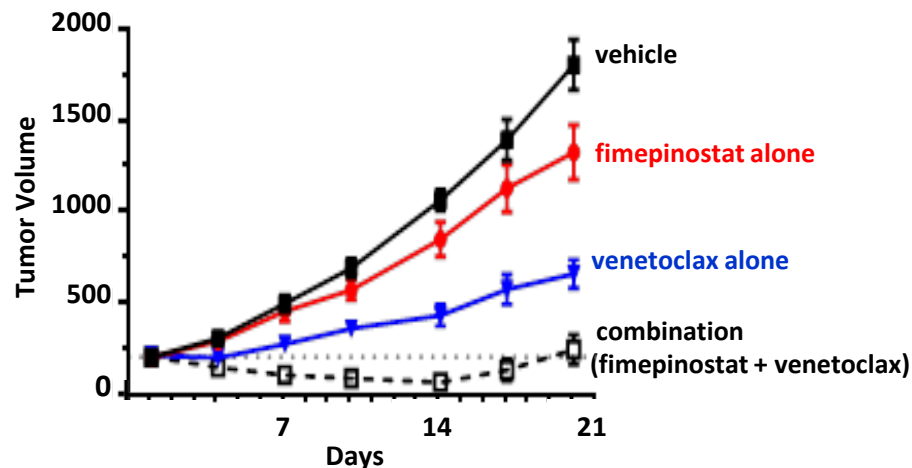
*DLBCL with alterations in both the MYC gene and the BCL2 gene
is defined as Double-Hit Lymphoma*

MYC is targeted by fimepinostat
BCL2 is targeted by venetoclax

- As a monotherapy, fimepinostat resulted in a 23% ORR in patients with MYC-altered R/R DLBCL¹
- As a monotherapy, venetoclax resulted in an 18% ORR in patients with R/R DLBCL²
- In non-clinical studies, fimepinostat and venetoclax are highly synergistic³
- NCCN Guidelines explicitly identify lymphoma that has MYC and BCL2 alteration as a discrete entity with poorer prognosis, where clinical trial is indicated

In Preclinical Studies
Fimepinostat + Venetoclax are Highly Synergistic

(DH DOHH-2 DLBCL model)⁴



1) 14 PR/CR out of 60 patients in Ph1 & Ph2 (23% ORR)

2) Davids et al. JCO. 2017. 35:826

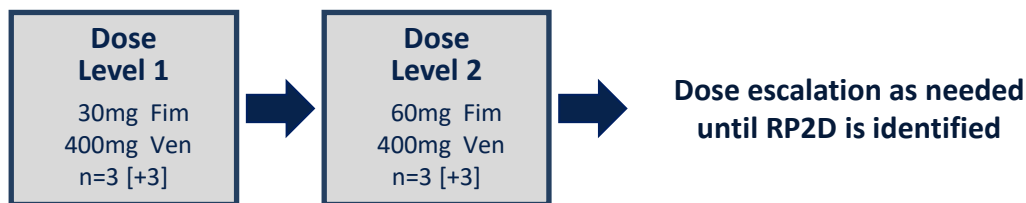
3) Sun et al. Blood. 2016. 128:4184

4) Data from Curis preclinical study

Fimepinostat

Clinical Plan for Combination Study with Venetoclax

Expected 2019 Catalyst
Initial Data in 2H '19



Patient Population

- Patients with R/R DLBCL, including DH/DE Lymphoma
- 8 Study Sites (US only)

Objective

- Safety/Tolerability, PK, PD, Recommended Phase 2 Dose (RP2D), anti-cancer activity

Treatment

Fimepinostat: Oral daily (5 days on, 2-days off)
Venetoclax: Oral daily (with dose ramp-up)

Targeted Programs in Heme Malignancies

*CA-4948: For treatment of MYD88/TLR-altered DLBCL
and IL-1R/TLR-altered AML*

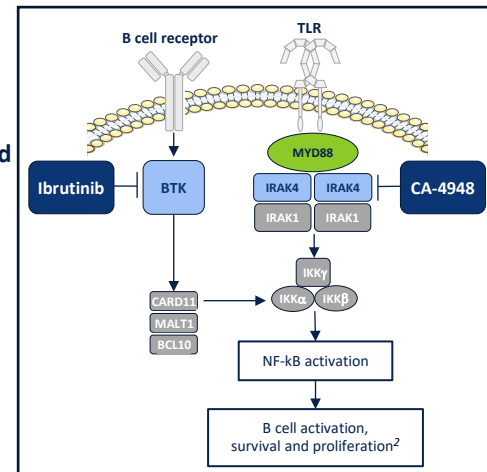
CA-4948 Overview

In development for patients with MYD88/TLR-altered disease

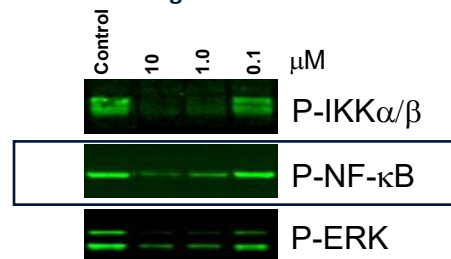
Profile

Value Proposition	- First-in-class IRAK4 inhibitor in cancer - A defined subset of malignancies are driven by overactivity of the TLR/IL-1R pathway, which is dependent on IRAK4 - Composition-of-matter IP extends into 2035
Population	- Lymphoma: MYD88-altered DLBCL, MYD88-altered Waldenström's macroglobulinemia - Leukemia: IL-1R/TLR-altered AML
Product Description	Potent and orally bioavailable inhibitor of IRAK4 for treatment of MYD88-altered tumors

Inhibition of this pathway was validated in Waldenström's macroglobulinemia with ibrutinib¹



Potent and direct inhibitor of NF-κB signal transduction³



Phospho-protein levels in AML cells after treatment with CA-4948

Potent and selective inhibitor of IRAK4 enzyme⁴

Affinity	
Kinase	K _d (nM)
IRAK4	23
IRAK1	12,000
IRAK2	>20,000
IRAK3	8,500

1) IMBRUVICA Package Insert. Rev 08/2018

2) Küppers et al. J Exp Med. 2015. 212(13): 2184.

3) Booher et al. AACR 2017 (poster #1168)

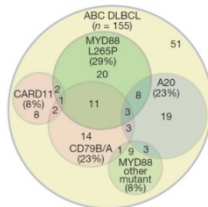
4) Data from Curis preclinical study

CA-4948 is Active in DLBCL

Potent anti-tumor activity in MYD88-altered DLBCL in Preclinical Studies

Overlap of Gene Mutations in ABC-DLBCL

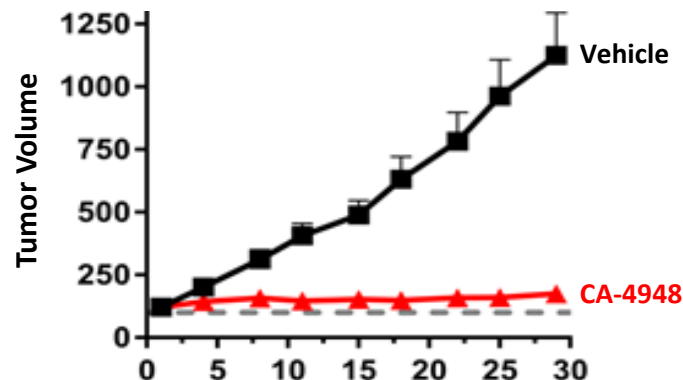
(Image adapted from Ngo et al. Nature. 2011.)



MYD88 alterations prevalent in 29% of ABC-DLBCL¹

- CA-4948 exhibits potent anti-tumor activity in MYD88-altered ABC-DLBCL in preclinical studies
 - MYD88 mutation is associated with constitutive activation of NF-κB signaling¹
 - NF-κB and JAK kinase signaling promotes malignant cell survival in ABC-DLBCL¹
 - ABC subtype of DLBCL is the most difficult subtype to treat, despite recent advances in therapy¹
- Ongoing Ph1 clinical trial designed to demonstrate anti-tumor activity in lymphoma and leukemia

Anti-tumor Activity in MYD88-altered DLBCL in preclinical studies³ (OCI-Ly10)



1) Ngo et al. Nature. 2011 Feb 3;470(7332):115-9

2) Caner et al. Genet Test Mol Biomarkers 19, 372–378

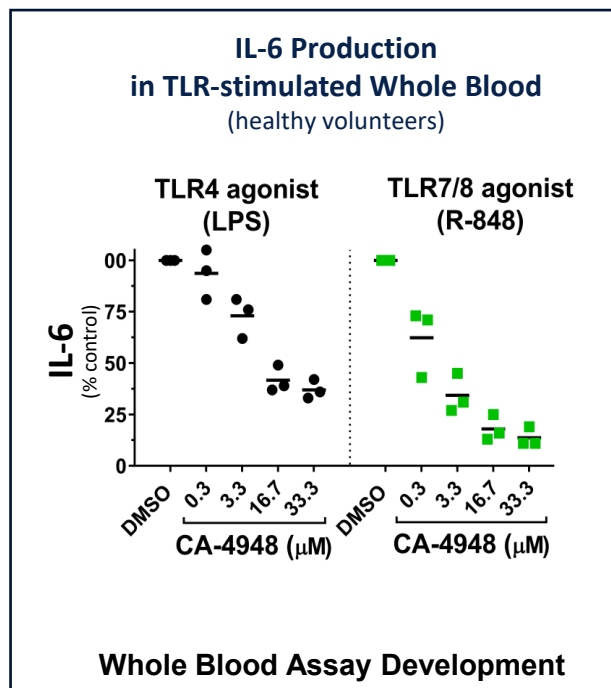
3) Data from Curis preclinical study; Booher, et al. CA-4948 IWWM 2018 Poster

CA-4948 Early Clinical Data

Cytokine production dropped with exposure to CA-4948

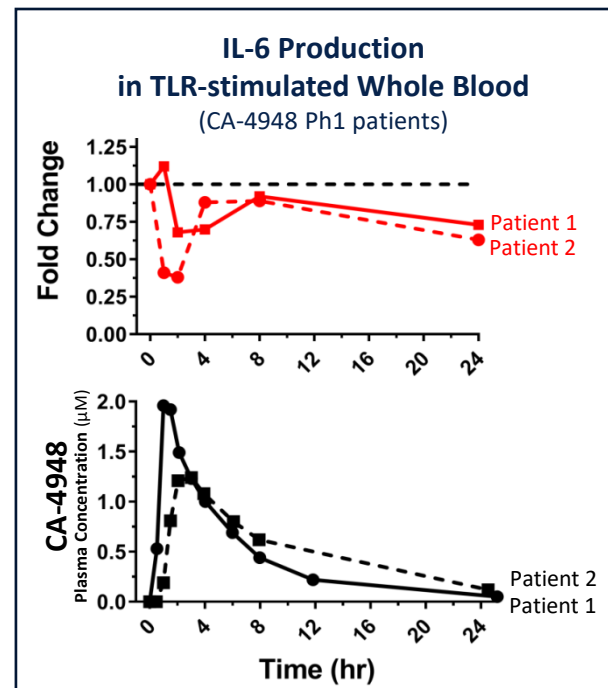


In whole blood from healthy volunteers, cytokine production dropped when incubated with CA-4948



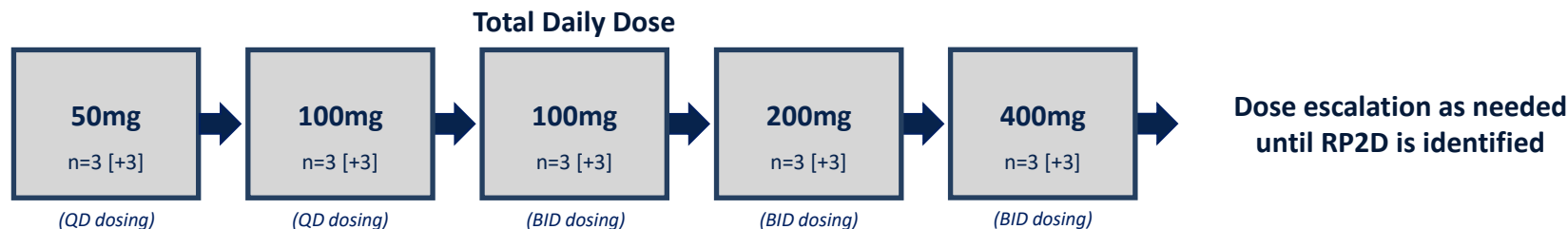
(Curis internal analysis performed ex-vivo, n=3)

In whole blood from patients treated with CA-4948, cytokine production dropped, mirroring drug exposure



(Curis internal analysis performed ex-vivo, n=2)

Expected 2019 Catalyst
Initial Data in Mid '19



Patient Population

- Patients with R/R DLBCL and WM, including patients with MYD88-altered disease
- 9 Study Sites (US only)

Objective

- Safety/Tolerability, PK, PD, Recommended Phase 2 Dose (RP2D), anti-cancer activity

Treatment

- Oral, once daily (QD) or twice daily (BID), dosing in continuous 21-day cycles

Small Molecule Immune Checkpoint Inhibitor

Curis is the first company to advance an oral small molecule checkpoint inhibitor into the clinic

- *CA-170 is the first oral small molecule targeting VISTA (and also only anti-VISTA drug in the clinic)*
- *CA-170 is the first oral small molecule targeting PD-L1 in the clinic*

CA-170 Overview

In development for patients with VISTA/PDL1-expressing cancers

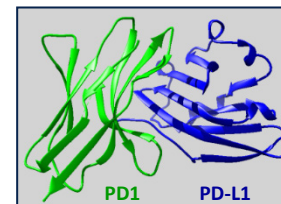
Profile

Value Proposition	- First-in-class oral inhibitor of VISTA - First-in-class oral inhibitor of PD-L1 - Composition-of-matter IP through 2034
Population	- Patients with VISTA-expressing cancers - Patients with tumors not addressable by anti-PD1 /PD-L1 treatment alone
Product Description	- Orally available, small molecule targeting VISTA and PD-L1 immune checkpoints - Favorable safety profile demonstrated in 59 patients²

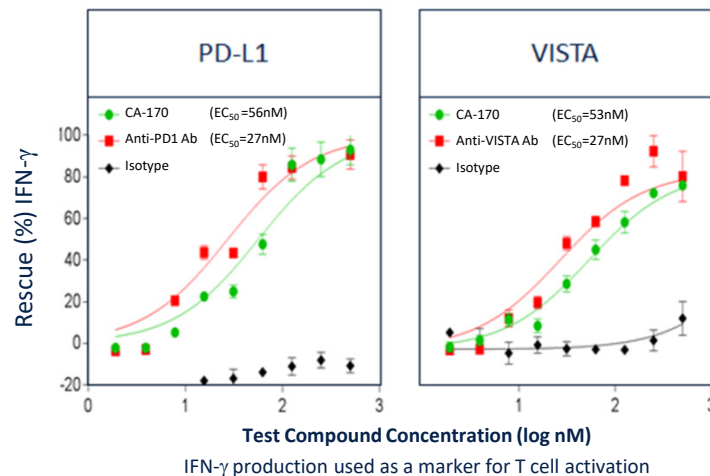
1) Lazorchak et al. AACR 2016

2) Data from Ph1 (NCT02812875) study

CA-170 Binds to the Receptor-Ligand Interaction Site



Dose dependent activation of PD-L1 or VISTA-inhibited human T cells *ex-vivo*¹

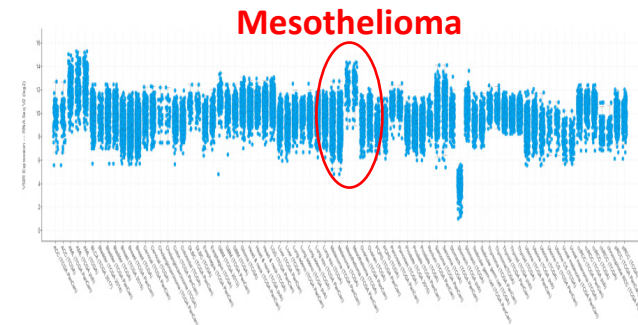


VISTA Targeting Strategy

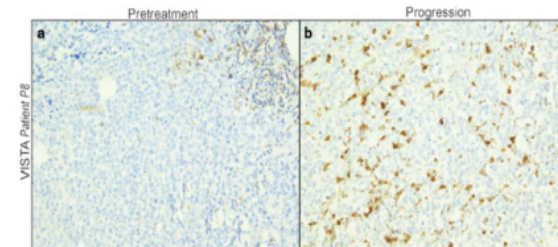
VISTA is highly expressed on tumor cells and infiltrating immune cells

- In addition to T cells, VISTA is expressed on tumor cells in subpopulations of certain cancers
 - ~ 90% of Mesothelioma cells¹
 - ~ 20% of NSCLC cells²
 - ~ 14% of TNBC cells³
 - ~ 8% of gastric cancer cells⁴
- VISTA expression on immune cells is up-regulated after checkpoint inhibitor therapy
 - VISTA expression is induced on T Cells and macrophages in response to ipilimumab treatment⁵
 - ~ 60% of melanoma patients show increased VISTA expression at progression⁶

VISTA Gene Expression Analysis (TCGA)⁷



Melanoma⁶



**Expected 2019 Catalyst
Initial Data in 2H '19**

Patient Population

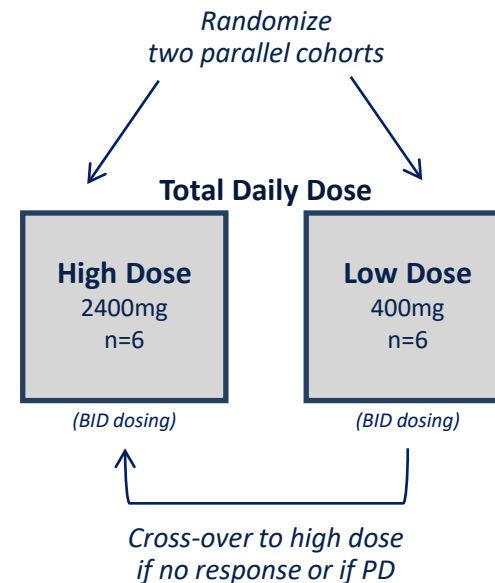
- Patients with Mesothelioma (High VISTA), that is incurable and previously treated
- 6 Study Sites (US and UK)

Objective

- Anti-cancer efficacy

Treatment

- Randomize to High Dose or Low Dose
- Crossover to High Dose, if no response or if disease progresses (PD)



Financial Data as of March 31, 2019

\$42.8M Cash & Marketable Securities

33.2M Basic Shares Outstanding

38.4M Fully Diluted Shares Outstanding

Expected 2019 Catalysts

Fimepinostat
Combination Therapy 2H '19
Initial efficacy data in DH/DE DLBCL

CA-4948 Mid '19
Initial efficacy data in MYD88-Altered
DLBCL, WM

CA-170 2H '19
Initial efficacy data in Mesothelioma

Fully Diluted Shares = 33.2M Basic Shares + 5.2M Options



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