

## **Corporate Presentation**

NASDAQ: CRIS



# Cautionary Note Regarding Forward Looking Statements

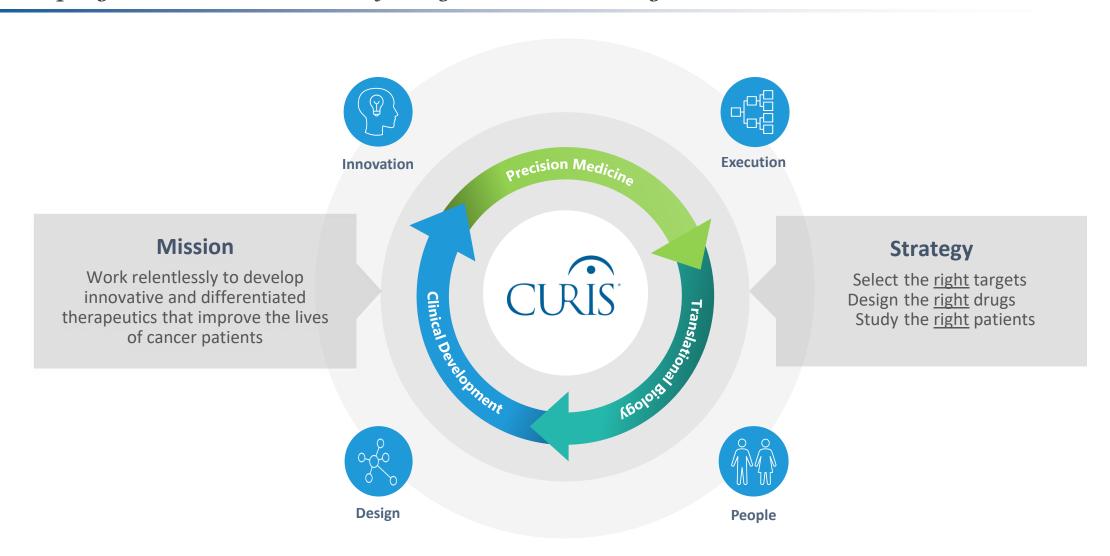


This presentation contains certain forward-looking statements about Curis, Inc. ("we," "us," or the "Company") within the meaning of the Private Securities Litigation Reform Act of 1995, as amended. Words such as "expect(s)," "believe(s)," "may," "anticipate(s)," "focus(es)," "plans," "mission," "strategy," "potential," "estimate(s)", "intend," "project," "seek," "should," "would" 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 forwardlooking 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.

# **Curis Mission & Strategy**



Developing the New Generation of Targeted Cancer Drugs



# Company



# Overview

Investment Thesis	Curis seeks to develop novel, first-in-class, cancer therapeutics that we believe have significant potential in areas of unmet patient need	
Robust Pipeline	Fimepinostat: first-in-class suppressor of MYC  There are no drugs currently approved for MYC inhibition  CA-4948: first-in-class suppressor of the TLR Pathway  There are no drugs currently approved that block the entire TLR pathway  CI-8993: first-in-class antagonist of the VISTA pathway  There are no drugs currently approved for VISTA inhibition	
Corporate	<ul> <li>Experienced management team with proven capabilities</li> <li>Curis R&amp;D pioneered the first-in-class inhibitor of the Hedgehog pathway (Erivedge®) partnered with and commercialized by Genentech/Roche for advanced basal cell carcinoma</li> <li>Cash, cash equivalents and investments of approximately \$28M as of Sept 30, 2019</li> </ul>	

### **Evolution of Curis**



Progressing through Clinical Studies on the Path to Potential Registration

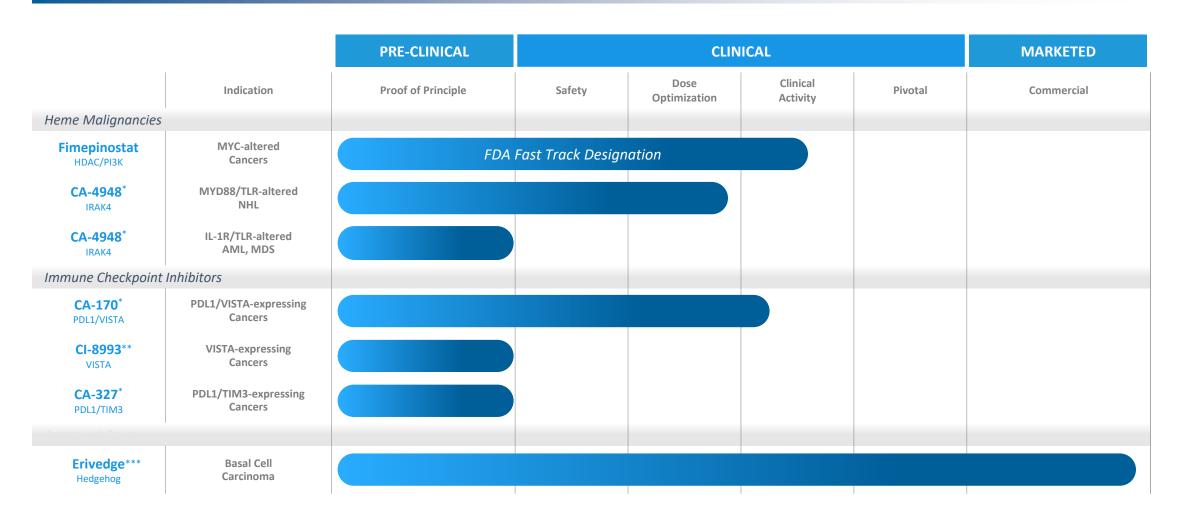
2020 2018 2019 **Dose Escalation Expansion Regulatory Planning**  Report efficacy data for combination study ✓ Report safety/tolerability data for Work with investigators and FDA to of fimepinostat w/ venetoclax fimepinostat combination w/ venetoclax determine optimal clinical path Continue dose escalation study of CA-4948 ✓ Report preliminary efficacy data for Identify patient populations and initiate to determine MTD or RP2D CA-170 Ph1 study in Mesothelioma\* clinical studies Initiate two new studies of CA-4948: Report preliminary efficacy data for 1) Single-agent study in AML/MDS CA-4948 Ph1 study in NHL patients w/ spliceosome mutations 2) Combination study w/ BTKi in NHL Initiate dose escalation study of CI-8993

<sup>\*</sup>Based on results from preliminary efficacy data, no further patients will be enrolled in this study. We are currently evaluating future studies for CA-170.

# Pipeline



### Of Oncology Drug Candidates



ImmuNext \*\* Option to license IP from ImmuNext

Genentech \*\*\* IP licensed to Genentech (Curis receives royalty income)





# Targeted Programs in Heme Malignancies

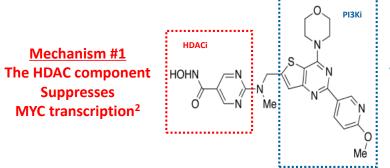
Fimepinostat: In development for treatment of MYC-altered cancers

## Fimepinostat Overview



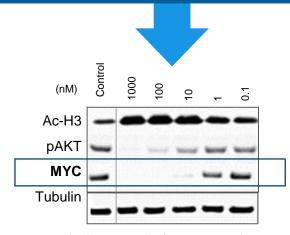
### In Development for Patients with MYC-Altered Cancers

Profile		
Value Proposition	<ul> <li>First-in-class drug candidate with demonstrated anti-cancer activity as a single agent in MYC-altered patients in Ph1 and Ph2 trials</li> <li>Composition-of-matter IP extends into 2032</li> </ul>	
Population	• Patients with MYC-altered cancer (>50% of all cancers are effected by MYC) <sup>3</sup>	
Product Candidate Description	<ul> <li>Potent and orally bioavailable dual inhibitor of HDAC and PI3K enzymes<sup>1</sup></li> <li>Favorable safety profile in over 200 patients</li> </ul>	



Mechanism #2
The PI3K component
Enhances
MYC destruction<sup>2</sup>

Dual Mechanism leads to potent and dose-dependent downregulation of MYC protein



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

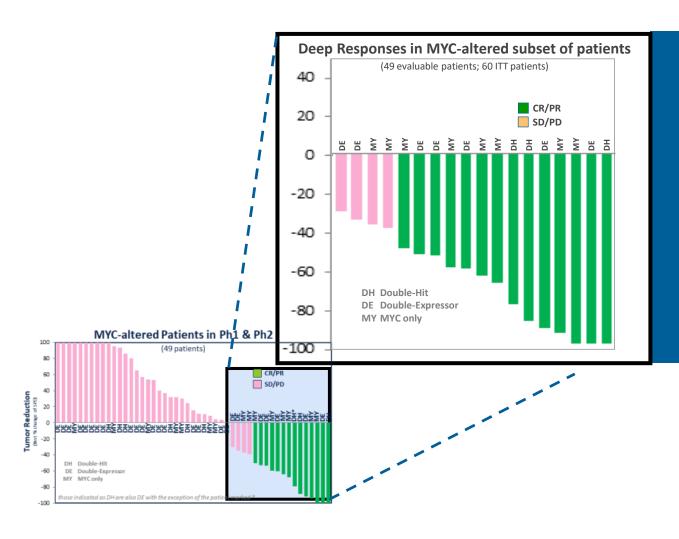
<sup>1)</sup> Qian et.al. Clin Cancer Res. 2012. 18: 4104

<sup>2)</sup> Sun et.al. Mol Cancer Ther. 2017. 6: 285

<sup>3)</sup> Chen et al. Nature. 2018 Feb 23. 3:5

# Fimepinostat Clinical Data Provides Strong Rationale For Development in MYC-Altered Lymphoma





#### **Monotherapy Anti-Cancer Activity**

#### **Deep responses**

- 8 complete responses (CR); 6 partial responses (PR)
- 2 patients able to proceed to transplant

#### **Durable responses**

• Median duration = 13.6 months

#### **Fast Track designation received**

Following FDA review of clinical data

# Fimepinostat + Venetoclax Appear Highly Synergistic in Preclinical Models



#### Fimepinostat + Venetoclax

#### **As Combination Therapy Partners**

#### Both drugs are active as single-agents in DLBCL

Fimepinostat = 23% ORR (with 13.6 month DOR<sup>1</sup>) Venetoclax = 18% ORR<sup>2</sup>

#### **Highly synergistic combination**

Combination index of < 0.1 at multiple doses<sup>3</sup>

#### Initial target indication has high unmet need

NCCN: Double-hit lymphoma (HGBL) is poor outcome group FDA: Double-hit lymphoma (HGBL) is high unmet need

#### Potential for accelerated regulatory path

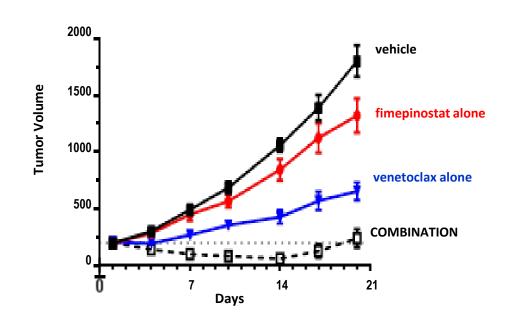
No drugs are currently approved for HGBL

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

Fimepinostat + Venetoclax

Appear Highly Synergistic in Preclinical Models

(DH DOHH-2 DLBCL model)<sup>4</sup>



<sup>2)</sup> Davids et al. JCO. 2017. 35:826

<sup>3)</sup> Booher et al. ASH 2016 (poster #4184)

<sup>4)</sup> Data from Curis preclinical study

# Fimepinostat Phase 1 Combination Study Designed to Demonstrate Safety of Combination



#### **Patient Population**

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

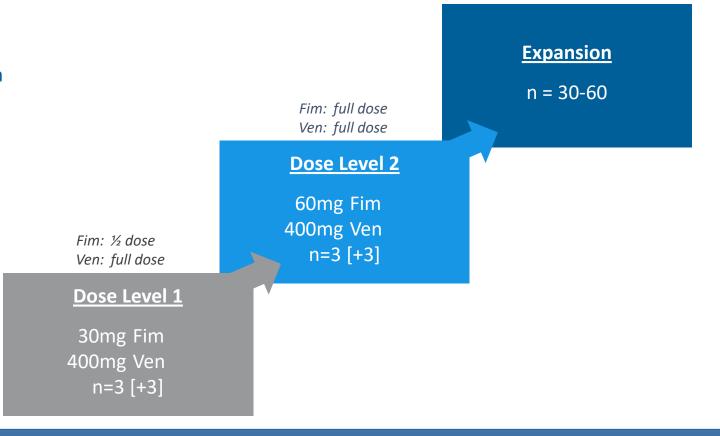
#### **Treatment**

Fimepinostat: Oral daily (5 days on, 2-days off)

Venetoclax: Oral daily (with rapid dose ramp-up)

#### **Objective**

- Safety/tolerability during dose escalation
- Efficacy during expansion



#### **Preliminary Phase 1 Tolerability Data Readout**

- 11 patients enrolled as of December 6, 2019
  - Generally well tolerated
- No drug-drug interaction that required dose modification of either agent





# Targeted Programs in Heme Malignancies

CA-4948: In development for treatment of TLR-altered cancers

### CA-4948 Overview



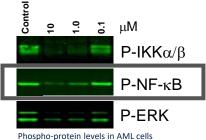
### In Development for Patients with MYD88/TLR-Altered Disease

Profile		
Value Proposition	<ul> <li>First-in-class IRAK4 inhibitor in cancer</li> <li>Specific malignancies have overactivity of the myddosome/TLR pathway (which is dependent upon IRAK4)</li> <li>Composition-of-matter IP extends into 2035</li> </ul>	
Population	Lymphoma: Patients w/ over-activated myddosome/TLR pathway; Patients treated w/ ibrutinib (IRAK4i has strong synergy with BTKi) Leukemia: Patients whose tumors have splicing mutations that overexpress IRAK4	
Product Candidate Description	<ul> <li>Potent and orally bioavailable inhibitor of IRAK4 for treatment of MYD88-altered tumors and augmentation of BTK inhibition</li> </ul>	

Designed to be best-in-class IRAK4 inhibitor<sup>1</sup>

		Ailling	
	Kinase	K <sub>d</sub> (nM)	
	IRAK4	23	
	IRAK1	12,000	
	IRAK2	>20,000	
	IRAK3	8,500	

Potent suppressor of signal transduction<sup>2</sup>



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

<sup>1)</sup> Data from Curis preclinical study

<sup>2)</sup> Booher et al. AACR 2017 (poster #1168)

### CA-4948 Mechanism of Action



### In Development for Patients with MYD88/TLR-Altered Disease

Inhibiting either of these two pathways should provide benefit to patients with B cell lymphoma, CA-4948 targets oncogenic activity in the TLR pathway by blocking IRAK4

#### Oncogenic

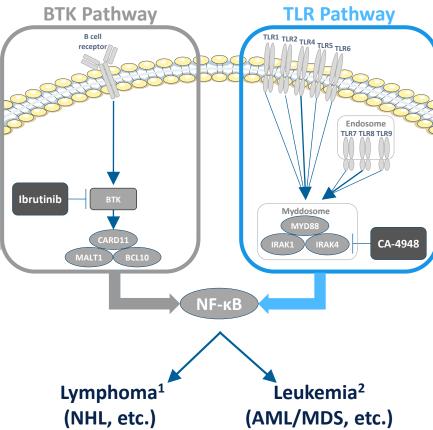
Dysregulation drives excessive B Cell proliferation

#### **Pathway validated**

MCL, MZL, CLL, Waldenström's macroglobulinemia<sup>1</sup>

#### BTK inhibition effective

Ibrutinib is FDA approved



#### Oncogenic

Dysregulation drives excessive B cell proliferation<sup>2,3</sup>

#### **Dependent upon IRAK4**

Signaling requires myddosome, which requires IRAK4

#### **Strong Synergy**

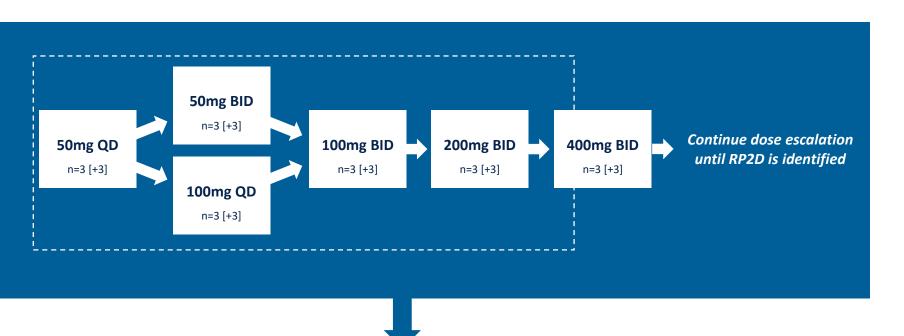
Inhibition highly synergistic with BTK inhibition

- 1) IMBRUVICA Package Insert. Rev 08/2018
- 2) Ngo et al. Nature. 2011 Feb 3;470(7332):115-9
- 3) Küppers et al. J Exp Med. 2015. 212(13): 2184
- 4) Smith et al. Nat Cell Biol 2019

# CA-4948 Phase 1 Study in R/R Lymphoma



Preliminary Clinical Data Demonstrate Tolerability, PK, PD, and Anti-Cancer Activity



#### **Patient Population**

 Patients with R/R Lymphoma (incl DLBCL, WM, and patients with MYD88-altered disease)

#### **Treatment**

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

#### **Objective**

- Safety/tolerability during dose escalation
- Efficacy during expansion

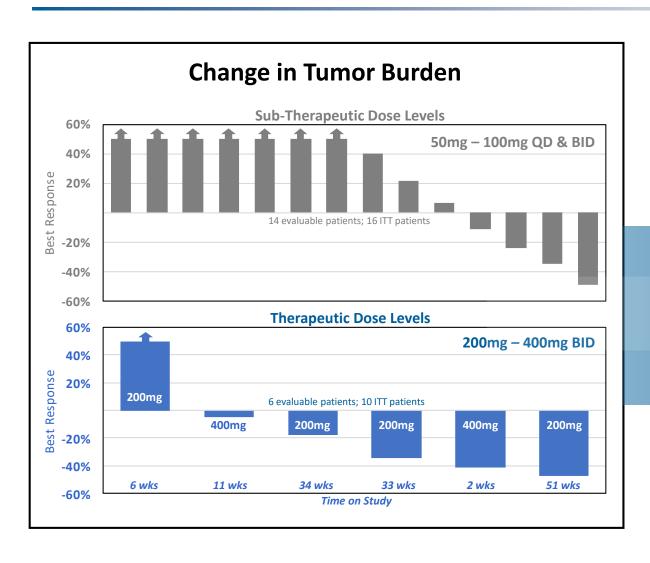
#### **Preliminary Phase 1 Data Readout**

- Generally well tolerated
- Favorable PK profile, PD, and anti-cancer activity
- 5 of 6 patients at 200mg-400mg cohorts have seen reduction

# CA-4948 Phase 1 Study in R/R Lymphoma



Dose Response Observed as Study Enrolls at Therapeutic Dose Levels



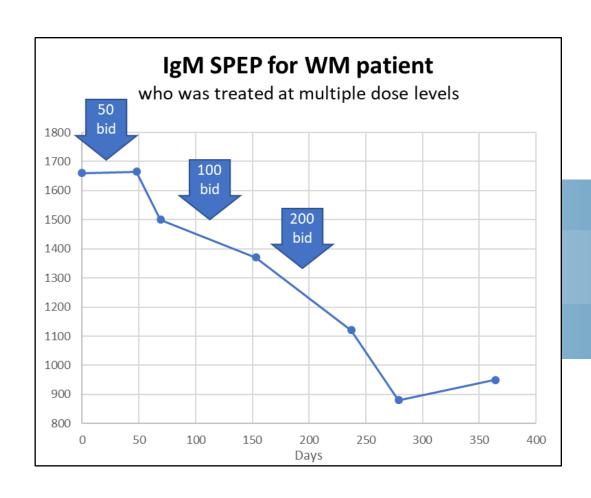
Dose Response Observed

5 of 6 patients experienced tumor reduction
as dose increased to therapeutic levels
(200mg-400mg)

# CA-4948 Phase 1 Study in R/R Lymphoma



Dose Response Observed as Study Enrolls at Therapeutic Dose Levels



Dose Response Observed Increased tumor reduction observed as patient increased dose

### Two CA-4948 Ph1 Studies in NHL



### Potent Preclinical Anti-Cancer Activity in MYD88-altered DLBCL

### **Preclinical Anti-Cancer Activity**

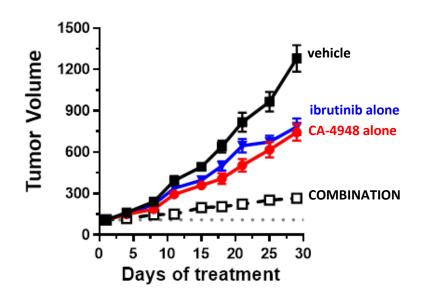
#### **Potent as Single Agent**

- Anti-cancer activity demonstrated in MYD88-altered DLBCL
- Interim readout in dose escalation study shows clear dose response
- We intend to continue dose escalation to further enhance efficacy until MTD / R2PD

#### **Strong Synergy in Combination**

- Anti-cancer activity demonstrated to be highly synergistic with BTK inhibition
- Now that our single-agent study has reached therapeutic dose levels, we are initiating a combination study with BTKi to assess anti-cancer activity

# Anti-cancer activity in MYD88-altered DLBCL<sup>1</sup> (OCI-Ly10)



1) Data from Curis preclinical study; Booher, et al. 4th Waldenstrom Roadmap Symposium

# Additional CA-4948 Ph1 Study in AML/MDS



Potential Path to Accelerated Approval

### Specific Genetic Mutations Lead to Expression of the Long Isoform of IRAK4 (IRAK4-L)

Spliceosome mutations (incl. SF3B1 and U2AF1) drive expression of IRAK4-L in >50% of AML/MDS

# **IRAK4-L** is Oncogenic IRAK4-L provides a genetic link to oncogenic immune signaling in AML/MDS Number of colonies Blocking IRAK4-L reduces the formation of leukemia colonies in preclinical studies shControl

Smith et al. Nat Cell Biol. 2019

# Direct inhibition of the protein associated with disease (IRAK4); we believe may offer a path to accelerated approval Vehicle CA-4948 treatment reduces leukemic blasts in patient-derived xenografts 4948

**CA-4948 Directly Targets IRAK4** 





# Monoclonal Antibody Immune Checkpoint Inhibitor

CI-8993: In development for treatment of VISTA-expressing cancers

### CI-8993 Overview



### In Development for Patients with VISTA Expressing Cancers

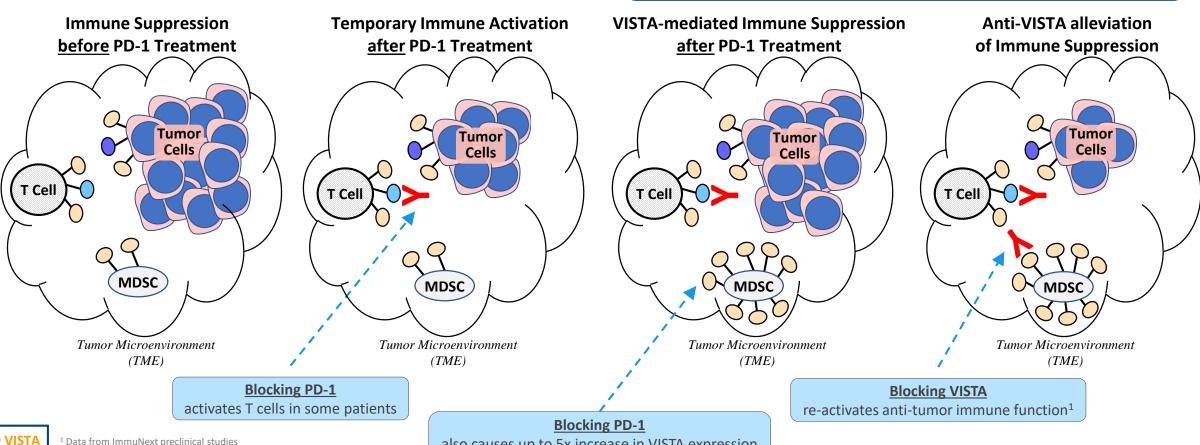
Profile		
Value Proposition	<ul> <li>First-in-class monoclonal antibody antagonist of VISTA</li> <li>No anti-VISTA antibodies currently in the clinic</li> <li>Composition-of-matter IP extends into 2034</li> </ul>	
Population	<ul> <li>Patients with VISTA-expressing cancers, including Mesothelioma, NSCLC, and TNBC</li> <li>All patients who will receive PD1/PDL1 or CTLA4 antibody therapy</li> <li>Patients who have developed resistance to PD1/PDL1 or CTLA4 antibody therapy</li> </ul>	
Product Description	<ul> <li>Option for license entered into in January 2020</li> <li>Monoclonal antibody developed by ImmuNext/Janssen in partnership with Randy Noelle's lab at Dartmouth (the co-discoverer of VISTA)</li> </ul>	



### Illustrative Example of VISTA's Role in Immune Suppression

#### In Pre-Clinical Testing<sup>1</sup>, Blocking VISTA Results in:

Reduced suppressive mediators and enhanced antigen presentation of MDSCs Altered chemotaxis (reduced traffic of MDSCs into the TME)



PD-1

<sup>2</sup> Gao et al. Nature. 2017. 23: 551-555

also causes up to 5x increase in VISTA expression and re-suppression of T cell activity<sup>2</sup>



# Summary

Investment Thesis	Curis seeks to develop novel, first-in-class, cancer therapeutics that we believe have significant potential in areas of unmet patient need	
Robust Pipeline	Fimepinostat: first-in-class suppressor of MYC  There are no drugs currently approved for MYC inhibition  CA-4948: first-in-class suppressor of the TLR Pathway  There are no drugs currently approved that block the entire TLR pathway  CI-8993: first-in-class antagonist of the VISTA pathway  There are no drugs currently approved for VISTA inhibition	
Potential 2020 Catalysts	<ul> <li>Efficacy data for fimepinostat Phase 1 study in combination with venetoclax</li> <li>Efficacy data for CA-4948 Phase 1 study in combination with BTK inhibitor</li> <li>Efficacy data for CA-4948 Phase 1 study in AML/MDS patients with spliceosome mutations</li> <li>Initiation of CI-8993 dose escalation Phase 1 study</li> </ul>	

# Curis

### CURIS

## Leadership Team





















# **End of Corporate Presentation**

NASDAQ: CRIS

