

Determined to realize a future in which people with cancer live longer and better than ever before



CORPORATE PRESENTATION | MAY 2019

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# Syndax Current Pipeline

Entinostat						
	Preclin.	Phase I	Phase II	Phase III	Indication(s)	Sponsor
E2112: Entinostat + exemestane					HR+, HER2- mBC	NCI/Syndax
Entinostat + pembrolizumab*					NSCLC	Syndax
Entinostat + pembrolizumab*					Melanoma	Syndax
SNDX-6352						
	Preclin.	Phase I	Phase II	Phase III	Indication(s)	Sponsor
SNDX-6352 monotherapy					Chronic GVHD	Syndax
SNDX-5613						
	Preclin.	Phase I	Phase II	Phase III	Indication(s)	Sponsor
SNDX-5613 monotherapy					MLLr leukemias, NPM1c AML	Syndax

\* Development on hold pending positive E2112 OS trial results

# 2019: Portfolio prioritization to drive value

A blue pill-shaped logo with the text 'FDA BT D' in white, slanted to the right.

## Entinostat + exemestane

Oral, Class I HDAC in HR+ mBC

- Positive OS data possible 2H19
- NDA filing anticipated in 2021
- Efficacy in CDK4,6 treated patients
- Blockbuster potential

**Would-be first combo to demonstrate survival benefit**

## SNDX-5613

Oral, Menin inhibitor

- Blocks activity of MLL-fusion proteins
- IND filing est. 2Q, clinical data '19/'20
- Benefit expected in high need AML, ALL populations
- Blockbuster potential

**Targeted therapy provides fast to market opportunity**

HR+ mBC - hormone receptor positive metastatic breast cancer; MLL - mixed lineage leukemia; AML - acute myeloid leukemia; ALL - acute lymphoblastic leukemia

**Entinostat**

**Breast  
Cancer**

Immuno-  
oncology

**SNDX-5613  
Menin inhibitor**

Leukemias

**SNDX-6352  
anti-CSF1R Ab**

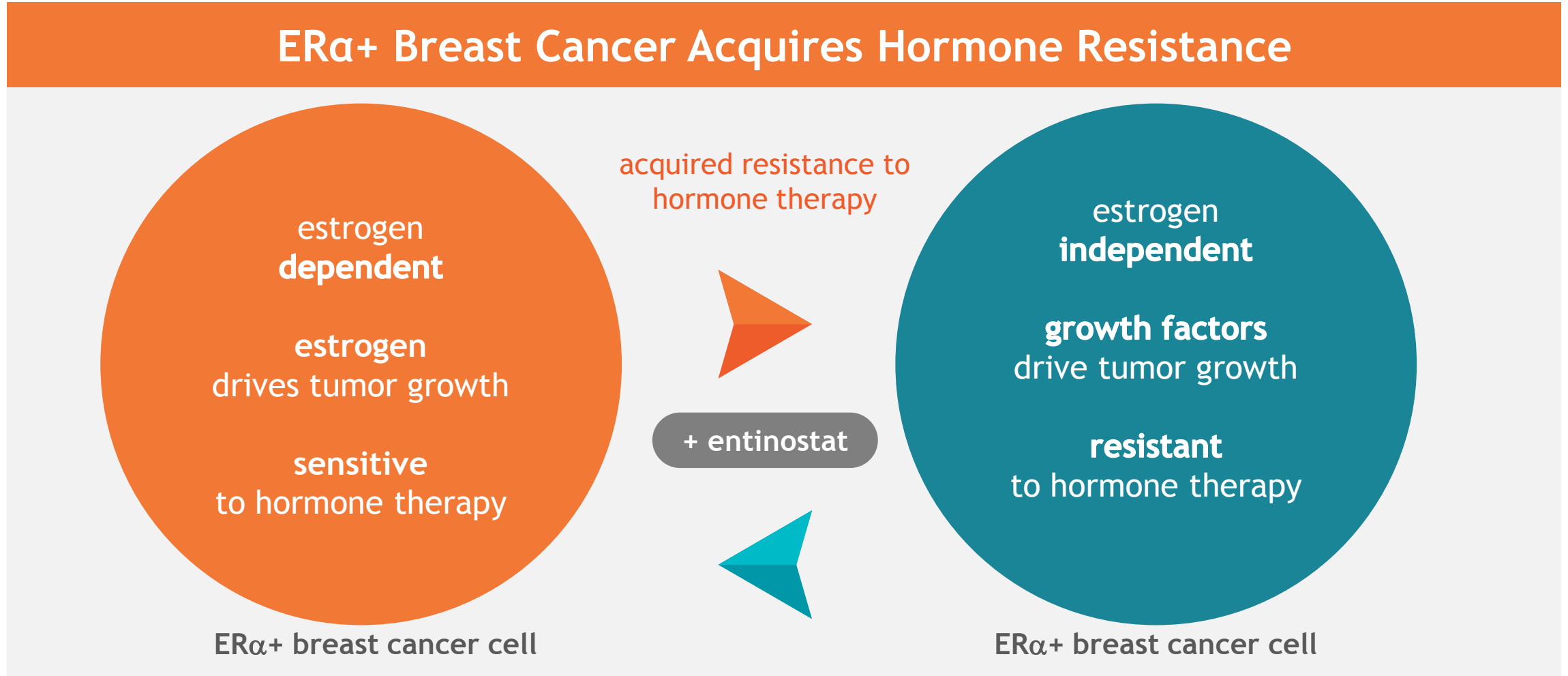
Immuno-  
oncology

GvHD

**New  
molecules**

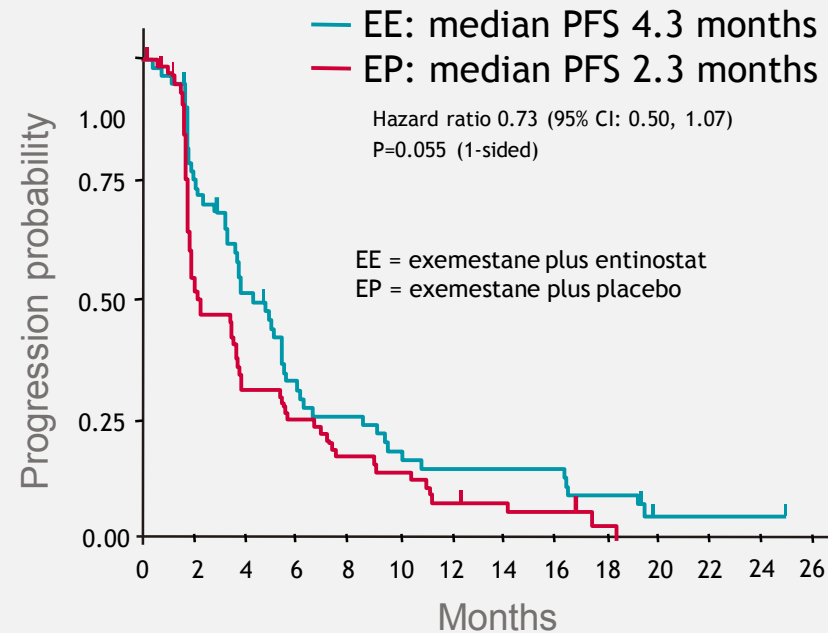
Oncology

# Entinostat re-sensitizes cancer cells



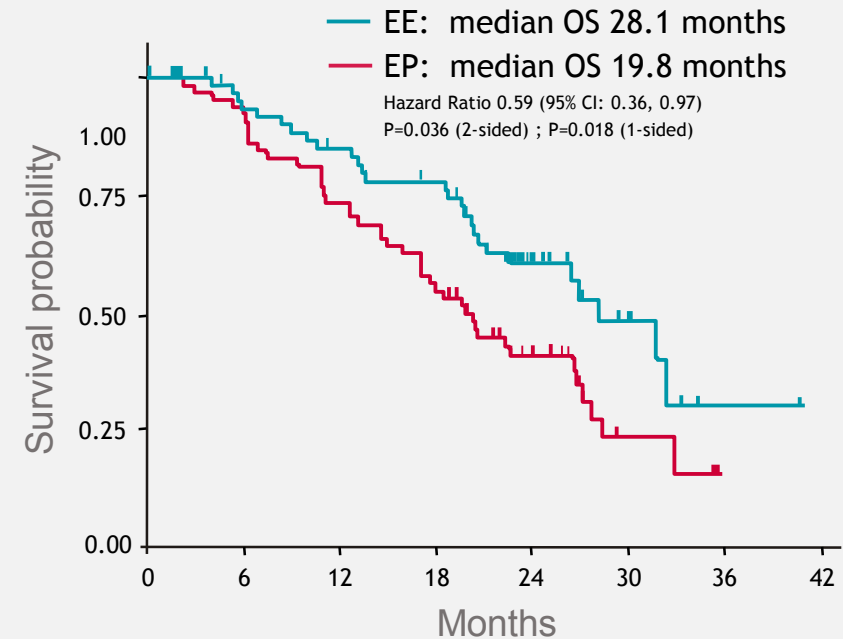
# Phase 2 trial resulted in breakthrough therapy designation

## Progression-free Survival



Placebo	31/66	13/33	4/20	5/16	2/11	4/9	0/5	1/4	1/3	1/1	0/0	0/0	0/0
Entinostat	15/64	14/45	11/29	3/17	4/14	2/10	0/8	0/8	3/8	2/5	0/1	0/1	0/1
(#events / #at risk)													

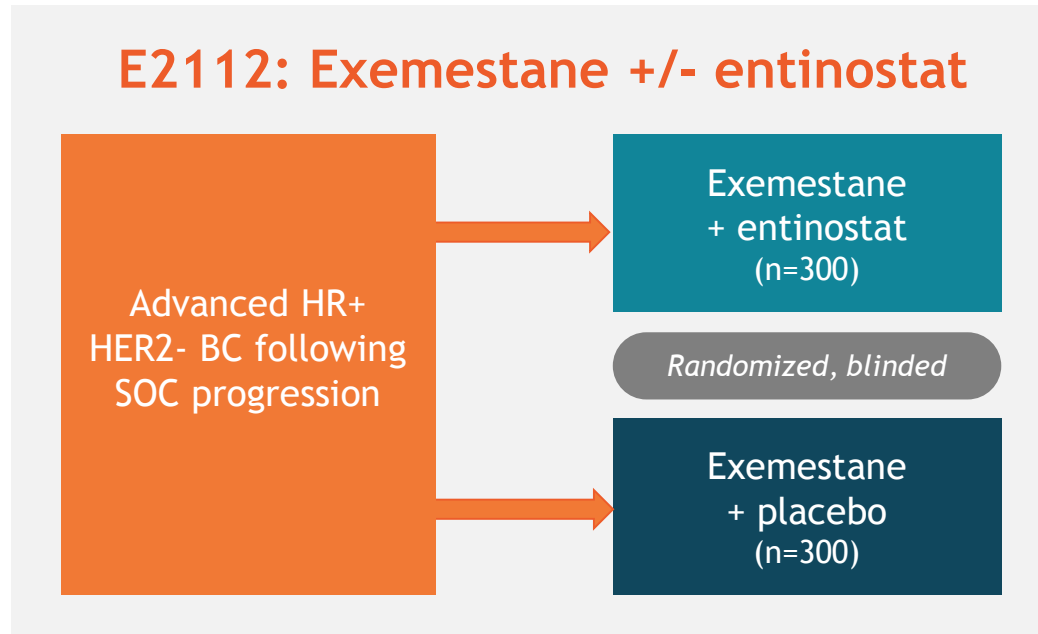
## Overall Survival



Placebo	4/66	13/60	12/47	8/35	5/18	1/3	0/0
Entinostat	4/64	5/55	4/49	9/43	3/21	2/9	0/1
(#events / #at risk)							

Source: Yardley, Denise A., et al. *Journal of Clinical Oncology* 31.17 (2013): 2128-2135

# Phase 3 E2112: Focused on overall survival



**Primary endpoint: OS**



## E2112 Trial Milestones

- ✓ **4Q18:** Accrual completed (n=608), PFS and interim OS analyses shared
- ✓ **2Q19:** Passed interim OS futility
  - **4Q19:** Next interim OS analysis
  - **2Q20:** Final OS analysis (if needed)

**Expect to file NDA ~6 months after positive OS data**

***A positive OS result allows filing for full regulatory approval***



# Blockbuster potential as 2<sup>nd</sup>/3<sup>rd</sup> line agent

## Leading treatment options - HR+, HER2- advanced breast cancer

### 1<sup>st</sup> line hormone Tx

Anastrozole or  
letrozole +/-  
CDK4,6 inhibitor

### 2<sup>nd</sup>/3<sup>rd</sup>/4<sup>th</sup> line hormone Tx

Anastrozole, Fulvestrant +/-  
CDK4,6 inhibitor or  
Afinitor-exemestane

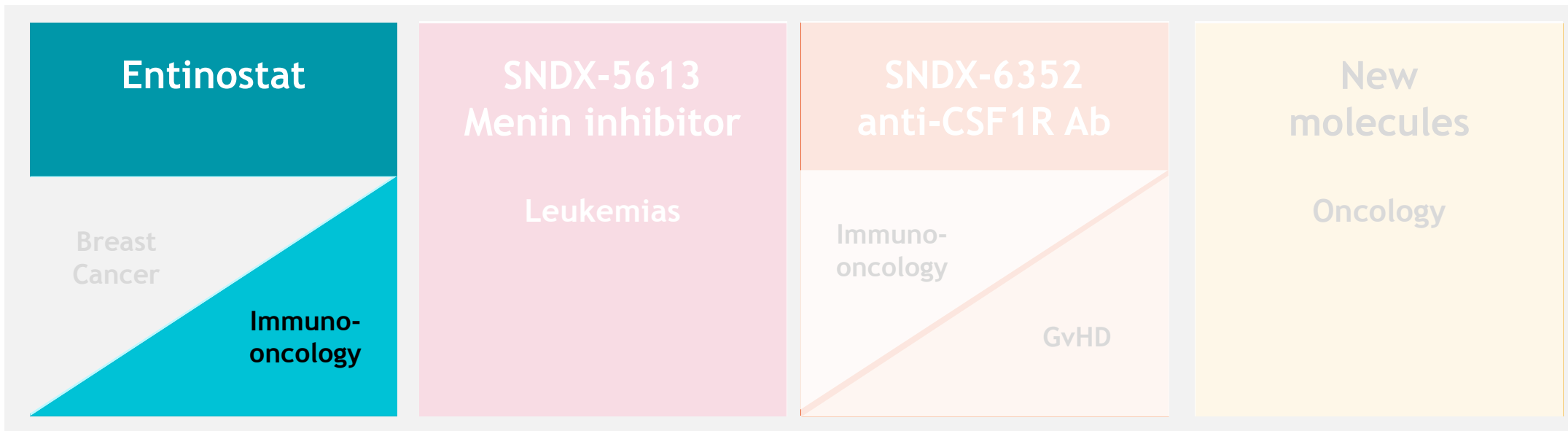
**34,000 pts**

Entinostat-exemestane  
target population

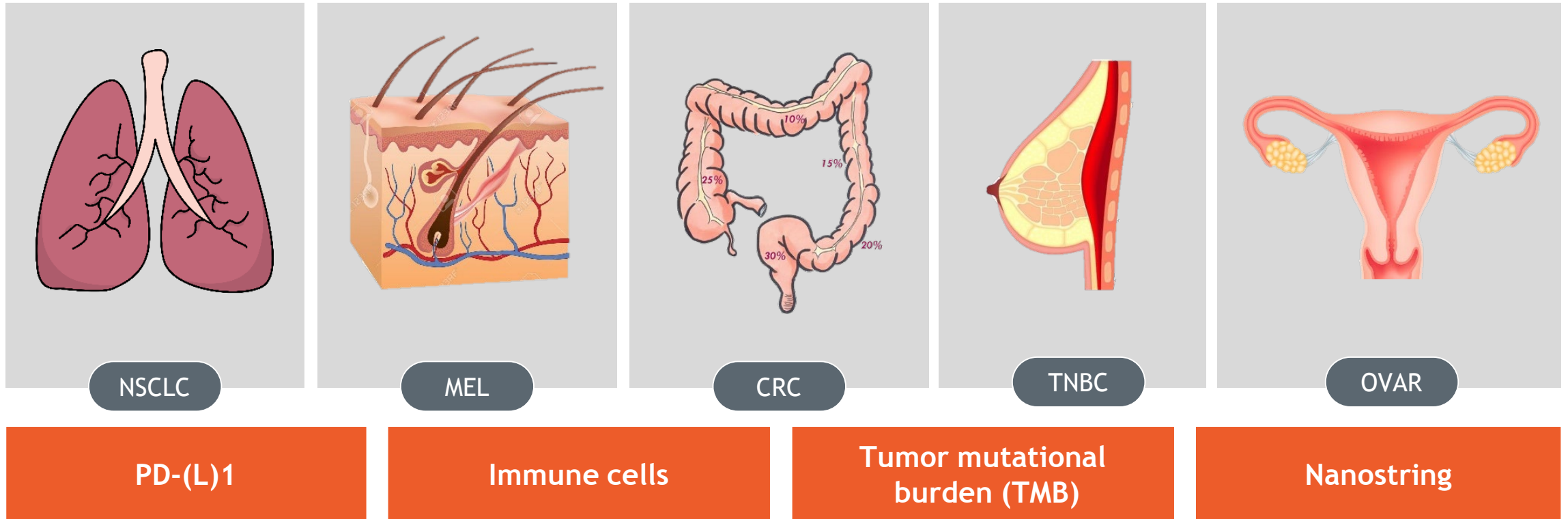
### Chemo-Tx

Capecitabine, gemcitabine,  
eribulin

Source: DataMonitor 2016 Breast cancer: HR+/HER2- Disease Coverage Report



# ENCORE Clinical Trial Program: Entinostat demonstrates potential to enhance PD1 efficacy

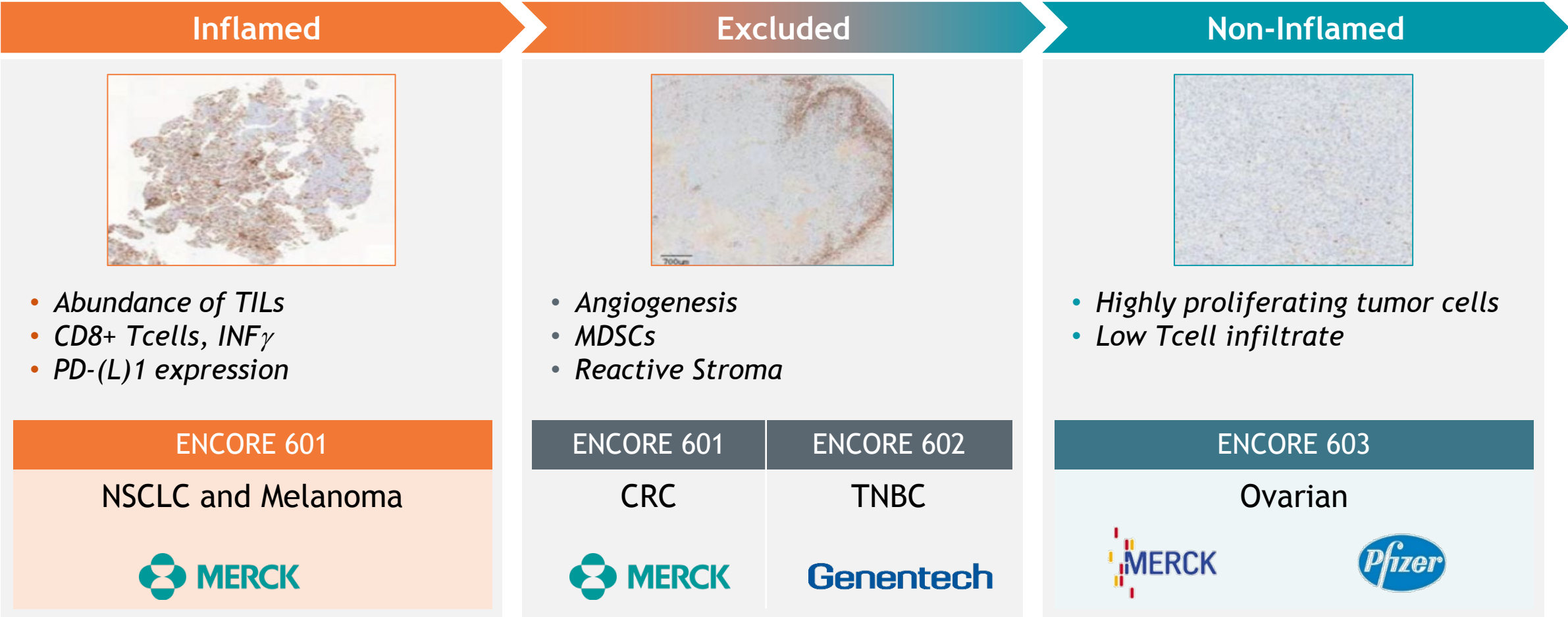


Focused on early signs of efficacy and biomarkers that predict clinical benefit

# ENCORE program testing combos across immune phenotypes

Responds to PD-(L)1

Convert to “inflamed” with combinations

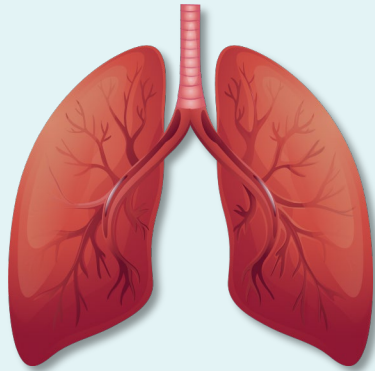


Source: Hedge, et al. *Clin Cancer Res*; 22.8 (2016): 1865-1874.

# ENT-Keytruda shown to reverse resistance to anti-PD-1 Tx in NSCLC and MEL

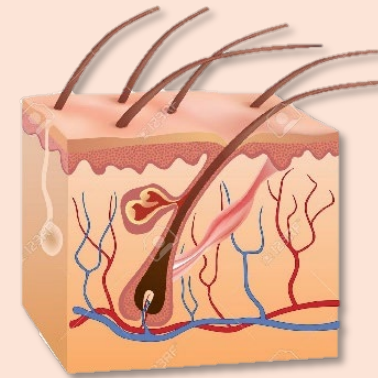
Trial cohorts enrolled patients whose disease had progressed on/after anti-PD-1 therapy

## Biomarker selected NSCLC



*ENT shown to down regulate myc activity;  
re-sensitizing pts to PD1 w/8 months mDoR*

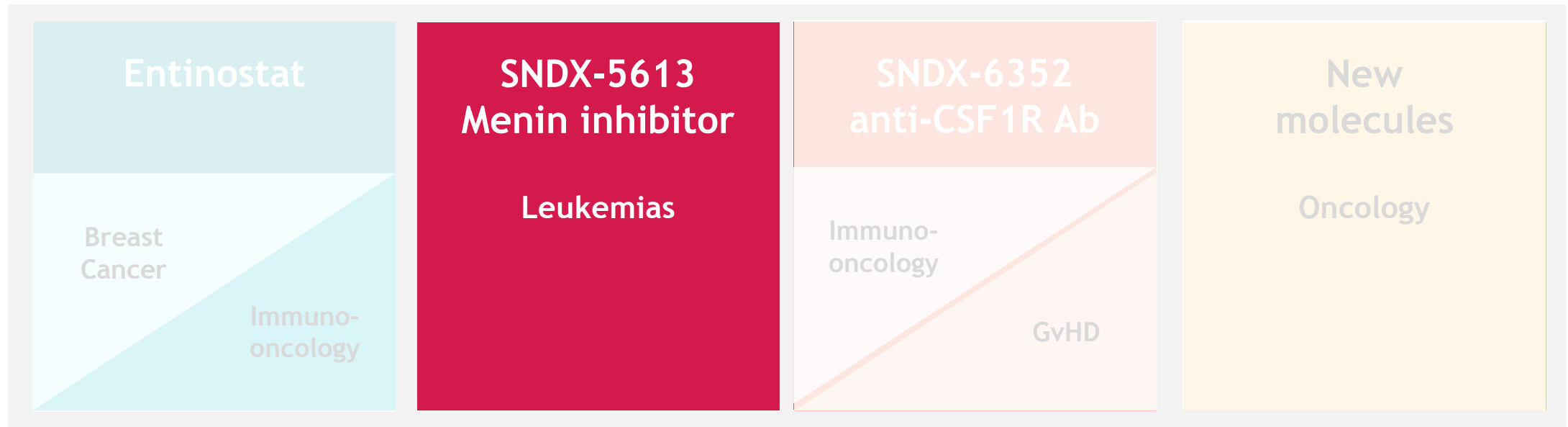
## Melanoma



*19% ORR, 36% CBR\*; 13mo mDOR, 4.2mo mPFS  
similar results in pts who had prior CTLA4*

*“The overall medical benefit is impressive, the study is very positive for seeing the potential role for epigenetic therapy in the setting of immunotherapy.” - Dr. S. Baylin  
(AACR 2019 oral presentation discussant)*

CBR - Clinical Benefit Rate includes patients with CR, PR or SD >6 months; Source: Ramalingam, S, et al; AACR Annual meeting 2019; Sullivan, R, et al; AACR Annual meeting 2019



# SNDX-5613 targets novel fusion protein: Fusion proteins proven to be good candidates for targeted therapies

## Advantages

- Strong target validation
- Precise patient selection
- Big effect in small studies
- Molecular markers of disease status
- Rapid regulatory path

## Therapies targeting fusion proteins

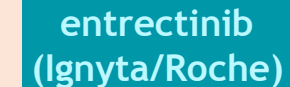
### BCR-ABL



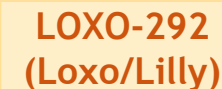
### EML4-ALK



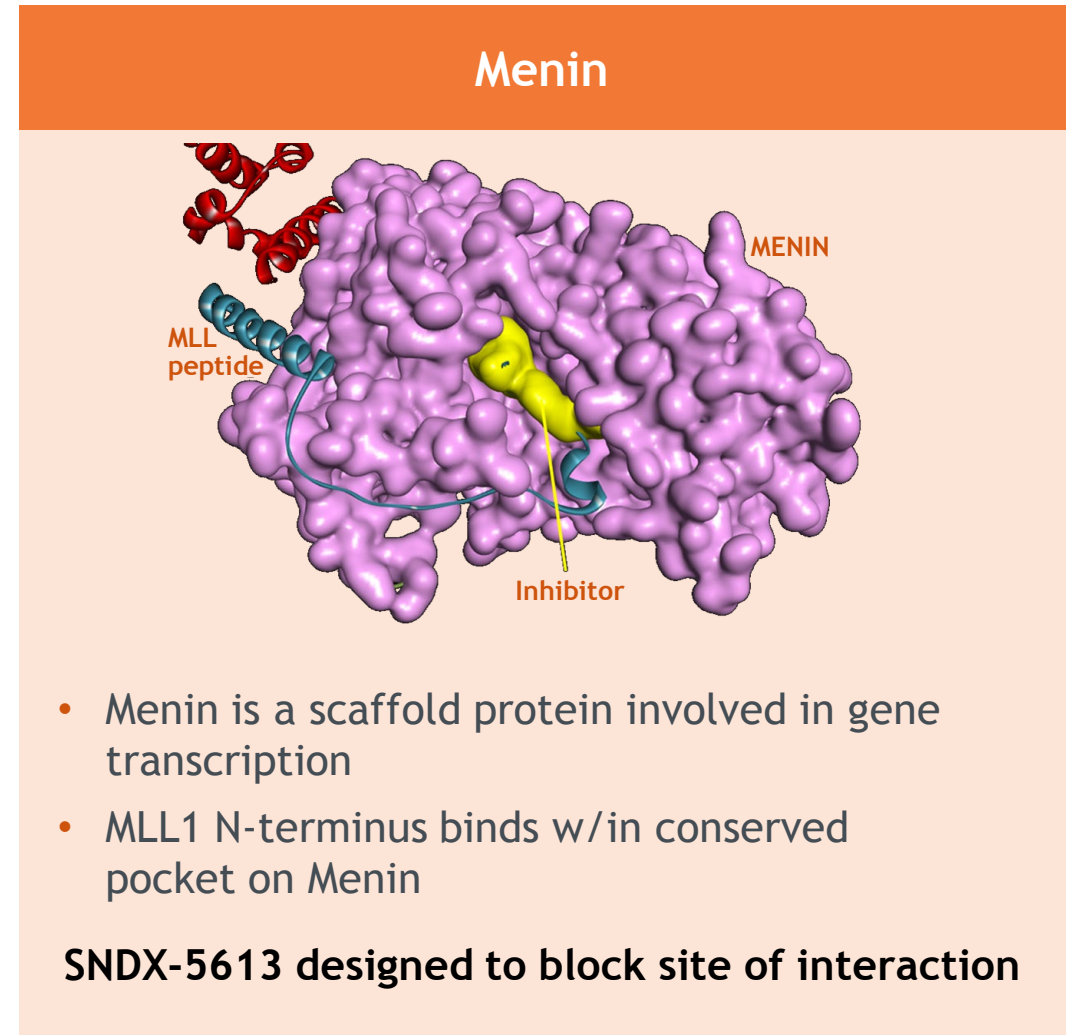
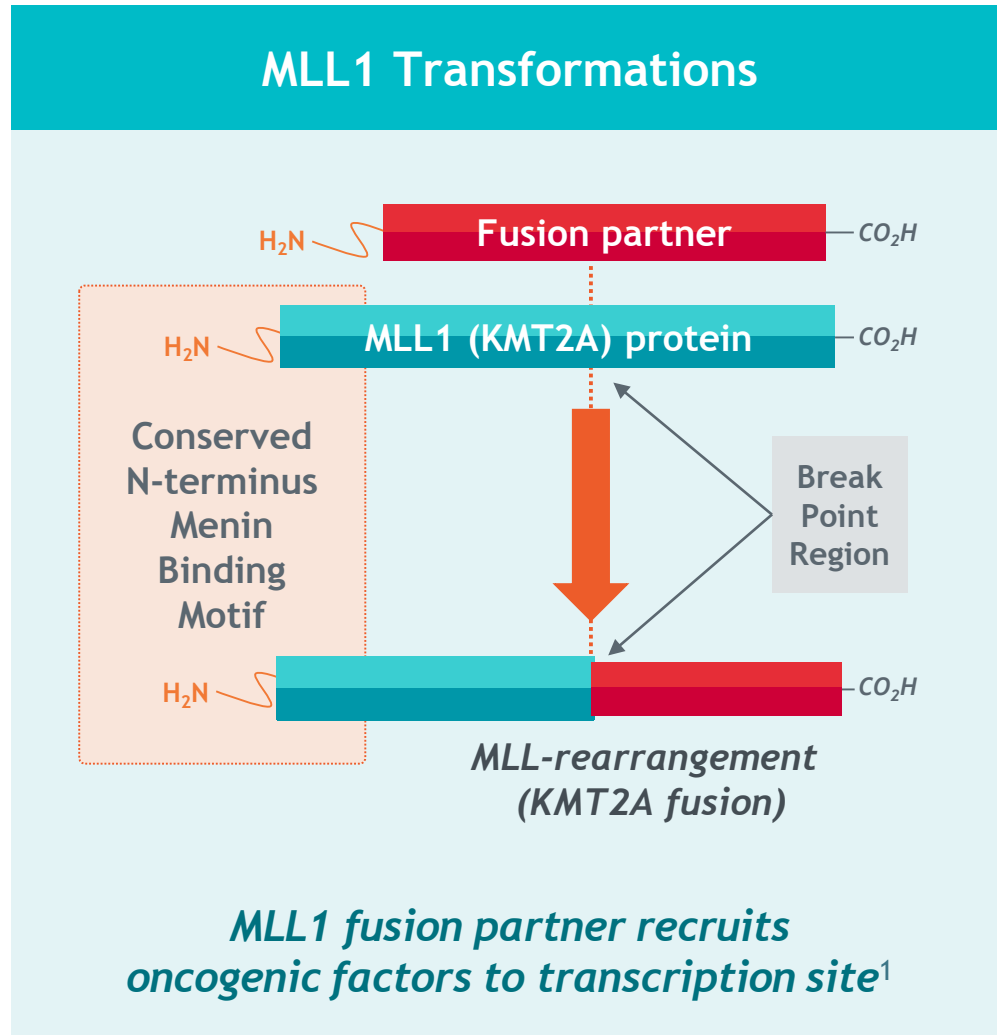
### NTRK Fusions



### RET Fusions



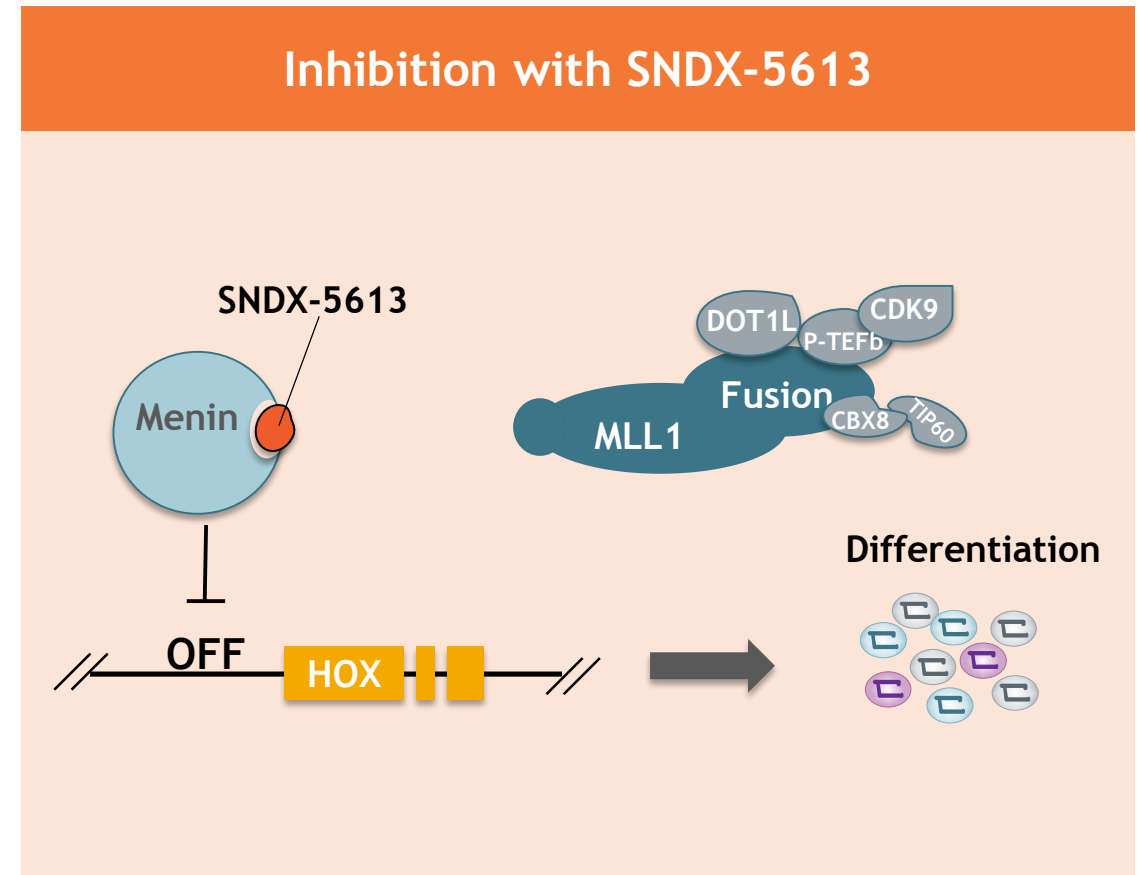
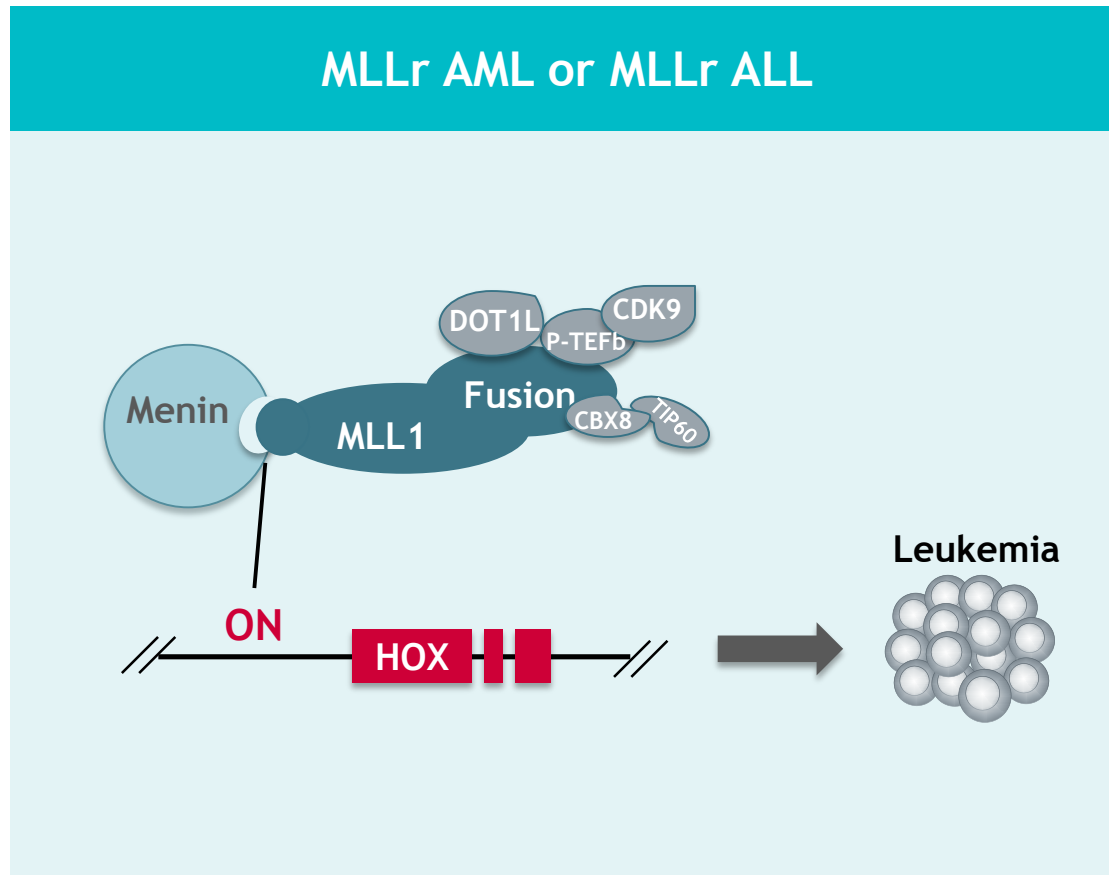
# In MLLr, leukemic transformation is highly dependent on the Menin-MLL interaction



Source: Yokoyama A, Cell. 2005 Oct 21;123(2):207-18; Caslini C, Cancer Res. 2007 Aug 1;67(15):7275-83.



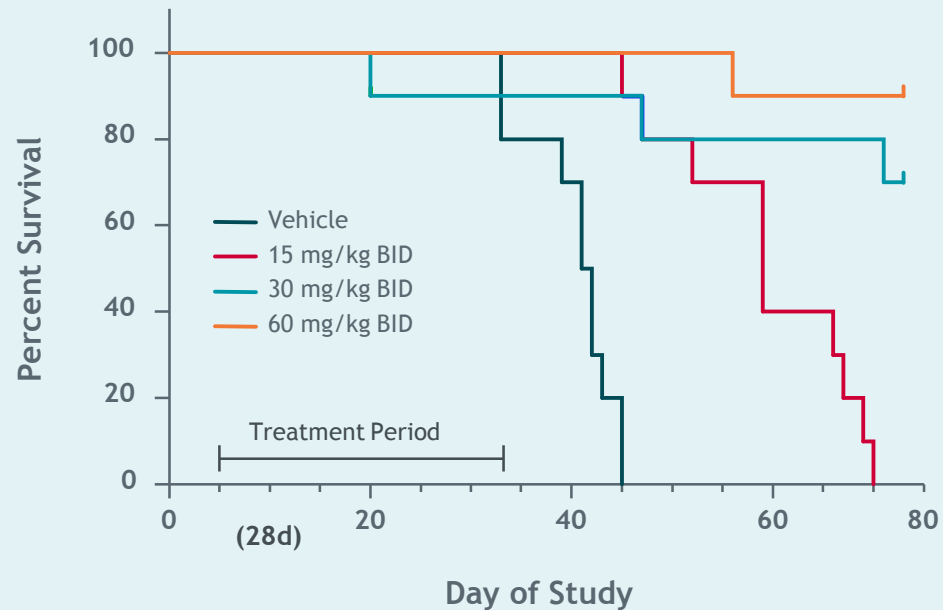
# Binding of Menin to MLL1 leads to upregulation of HOX gene transcription and leukemia in MLLr AML and MLLr ALL



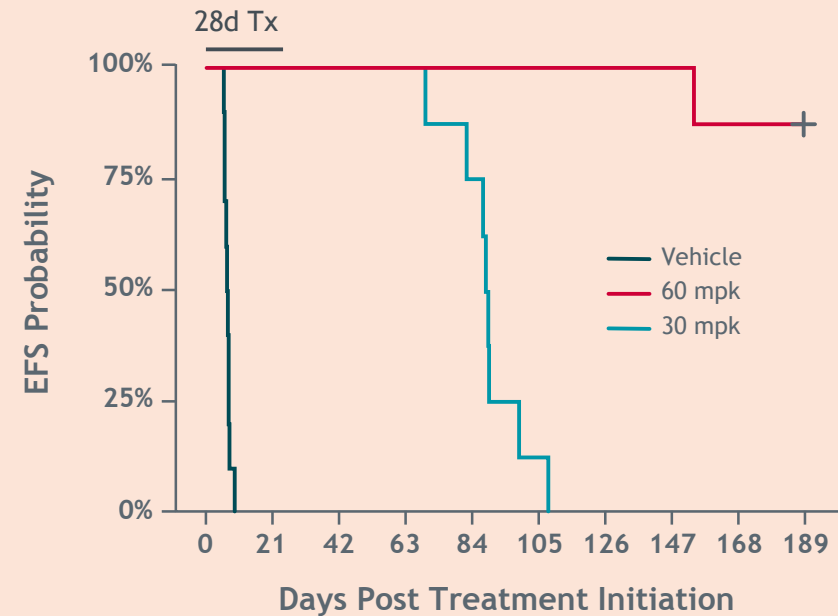
Adopted from: Uckelmann HJ, et al. Presented at ASH Annual Meeting, 2018.

# Menin-MLL inhibition significantly prolongs survival in MLLr xenograft models

MLLr Cell Line Xenograft (MV4;11)  
(SNDX-469)



Patient Derived Xenograft (PDX) MLL-AF4  
(SNDX-469)

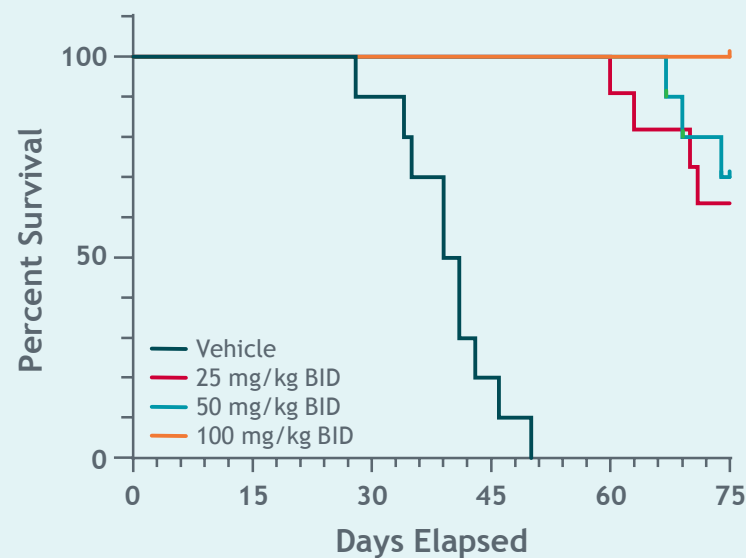


*SNDX-469 shows profound, single agent treatment benefit in multiple models*

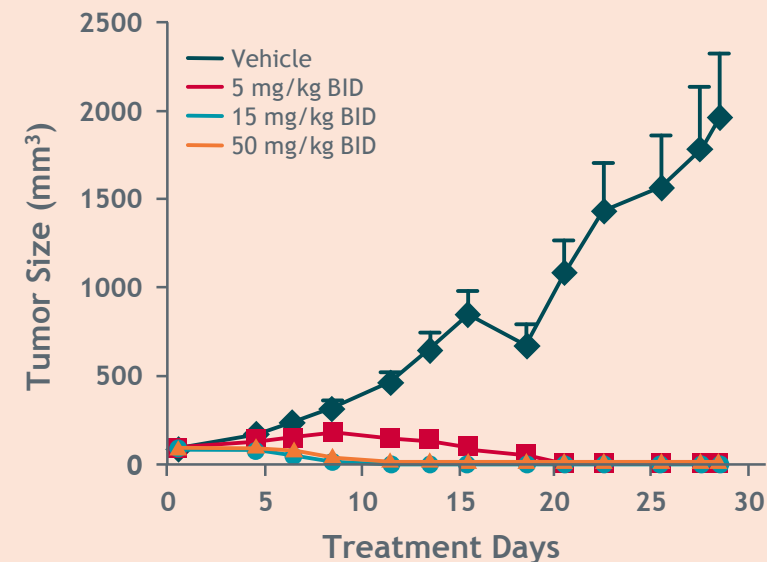
Source: Kristov, A., 2018 American Association for Cancer Research annual meeting

# SNDX-5613 selected from Menin-MLL portfolio

MV4;11 Leukemia, NSG mice  
(SNDX-5613)



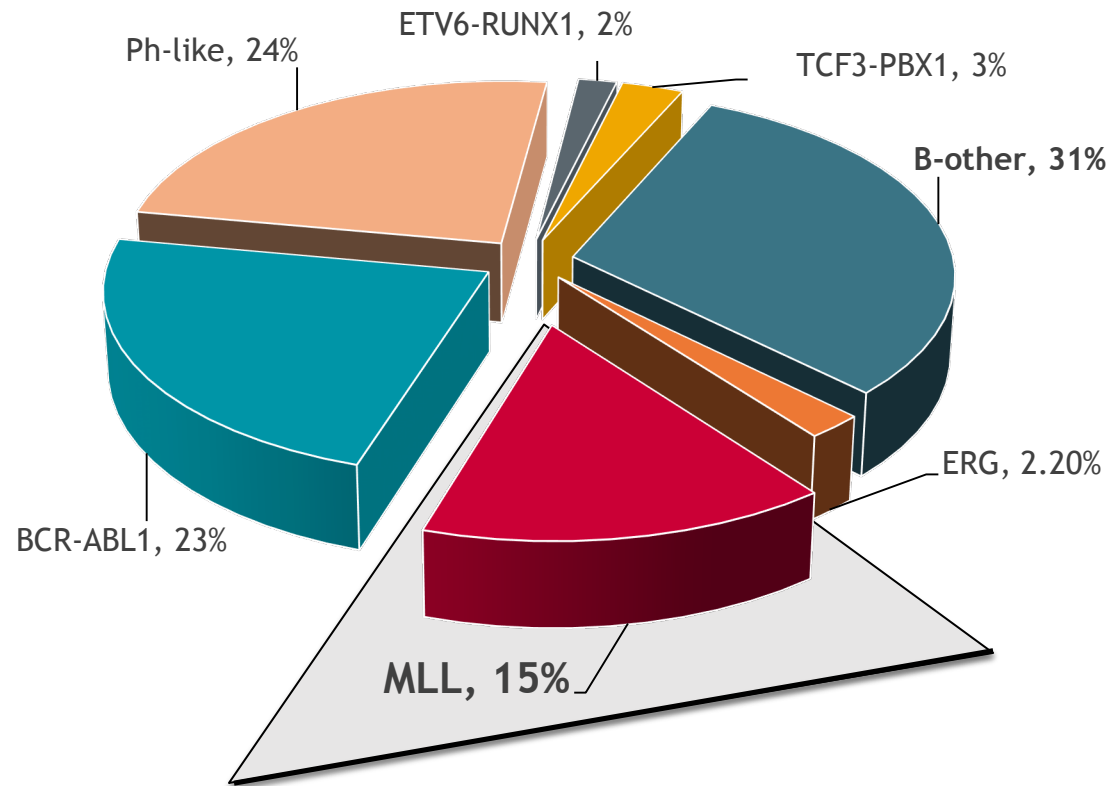
MV4;11 s.c. Xenograph, nude rat  
(SNDX-5613)



*SNDX-5613 shows dose dependent effect on tumor growth and survival across a range of xenografts harboring MLL-r fusions and has the most potent anti-tumor activity among tested inhibitors*

Source: Syndax data on file

# SNDX-5613 potentially effective in MLLr - ALL; distinct molecular subtype of ALL conferring a worse prognosis



## 5-year survival

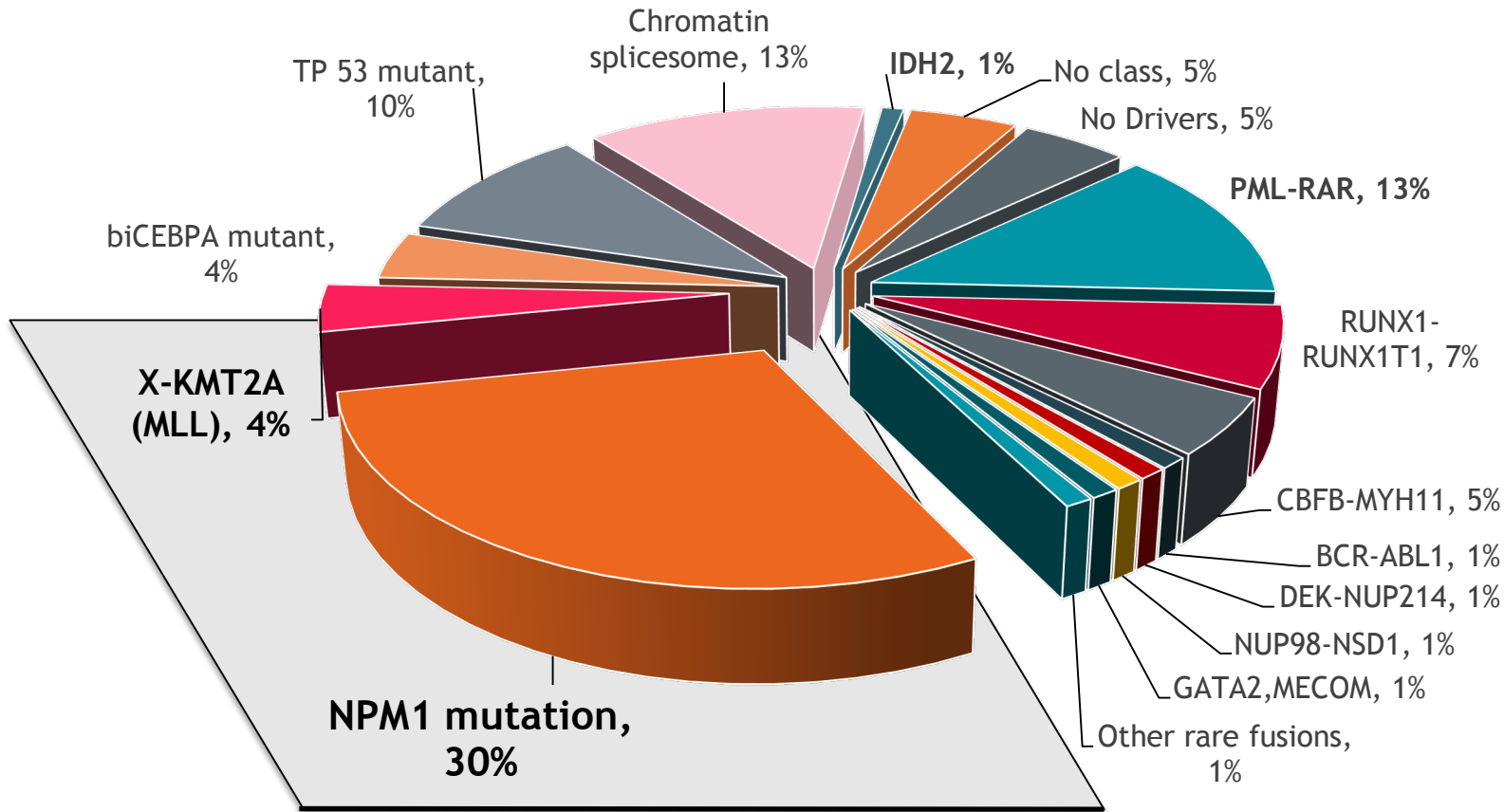
**Pediatric ALL:** 75%-90%

**MLLr ALL:** ~50% for infants  
and ~60% >1 yr

**WW incidence ~1,000/yr**  
**10-15% ALL, 80% infant ALL**

Adopted from: Shah, B. and Nasello, D. Jan 2019; NCCN conference and meetings: Update on Management of Acute Lymphoblastic Leukemia.

# SNDX-5613 poised to target MLLr and NPM1 classes of AML; distinct subsets representing ~34% of AML



## WW Incidence

**MLLr AML (4 - 10% AML)**  
~3,000 patients / year

**NPM1 AML (30% AML)**  
~20,000 patients / year

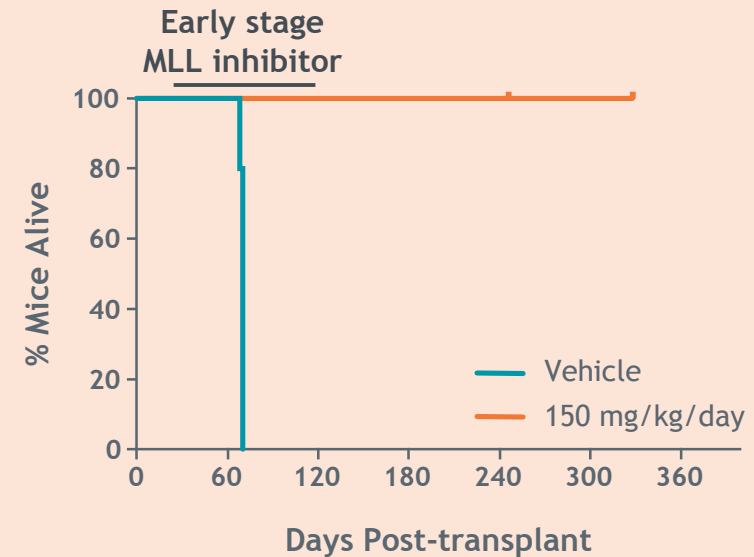
**AML 5 yr survival 5% - 55%**

Adopted from: Dohner, H. et al. Blood, 2017; 129(4):424-447

# Preclinical models of NPM1 AML reveal profound single agent activity of Menin inhibition

- NPM1 mutation is the most frequent molecular alteration in AML
- Like MLLr, NPM1 AML depends on genes known to be sensitive to Menin-MLL interaction
- Standard AML screening identifies NPM1 mutation today

NPM1c; FLT3 ITD; PHF6 mice  
(treated with SNDX-469 or vehicle)

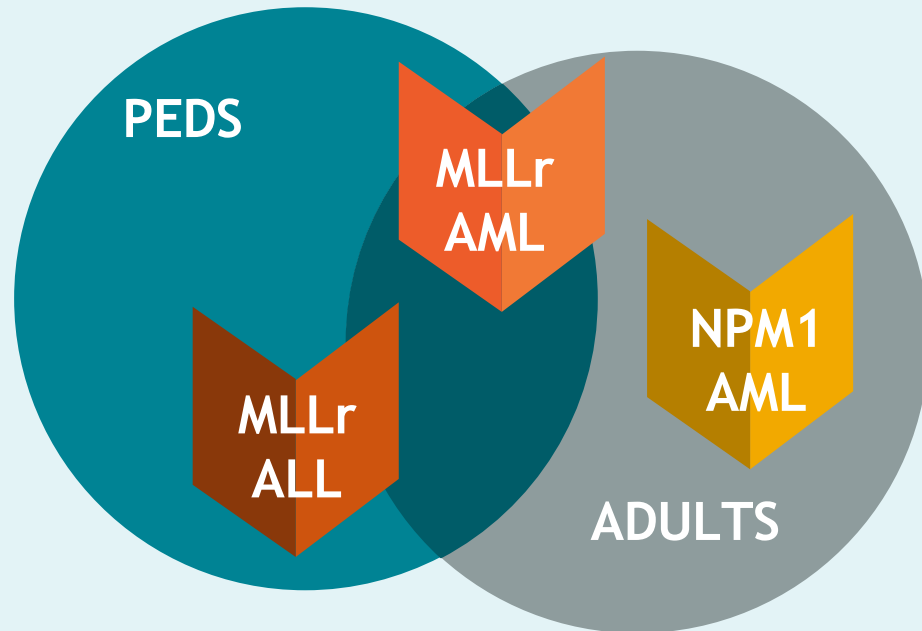


*NPM1 transfected mice showed profound single agent survival benefit with SNDX-469 in multiple PDX models*

Source: Kühn MW, *Cancer Discov.* 2016 Oct;6(10):1166-1181; Kristov, A., 2018 American Association for Cancer Research annual meeting

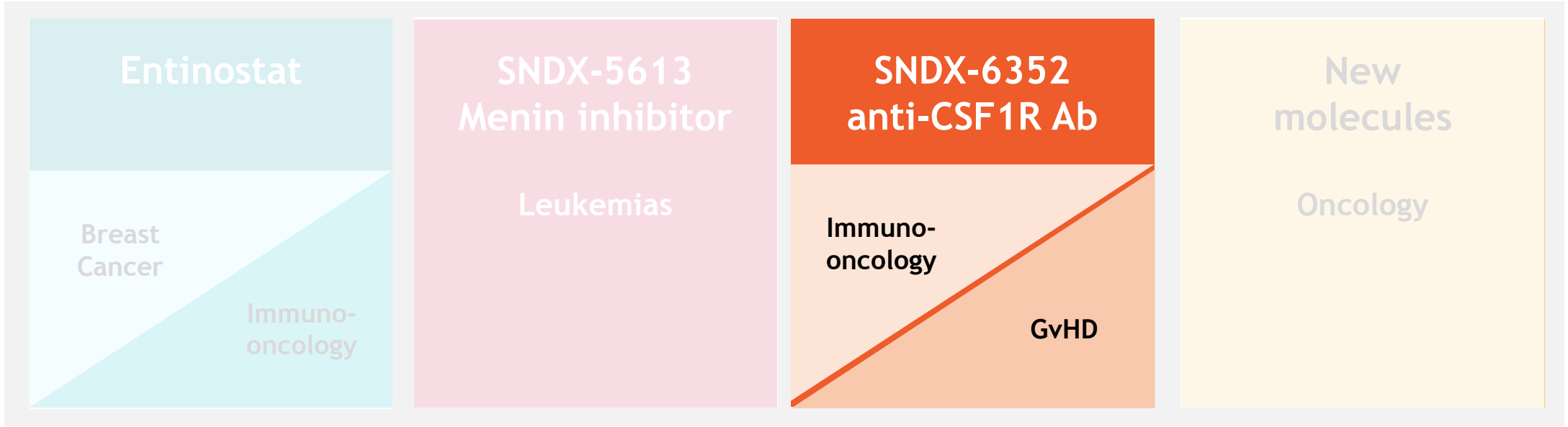
# SNDX-5613: potential best-in-class, targeted, oral agent with single agent activity and fast to market potential

Phase 1/2 trial population:  
MLLr adult, MLLr peds, NPM1 mut AML



## Defined fast to market pathway

- IND filing est. 2Q19; Phase 1 to follow
  - Early efficacy possible as early as year-end 2019
- MLLr and NPM1 identified today with standard screening protocols
- No approved therapies targeting MLLr or NPM1 acute leukemias
  - \$\$B commercial opportunity

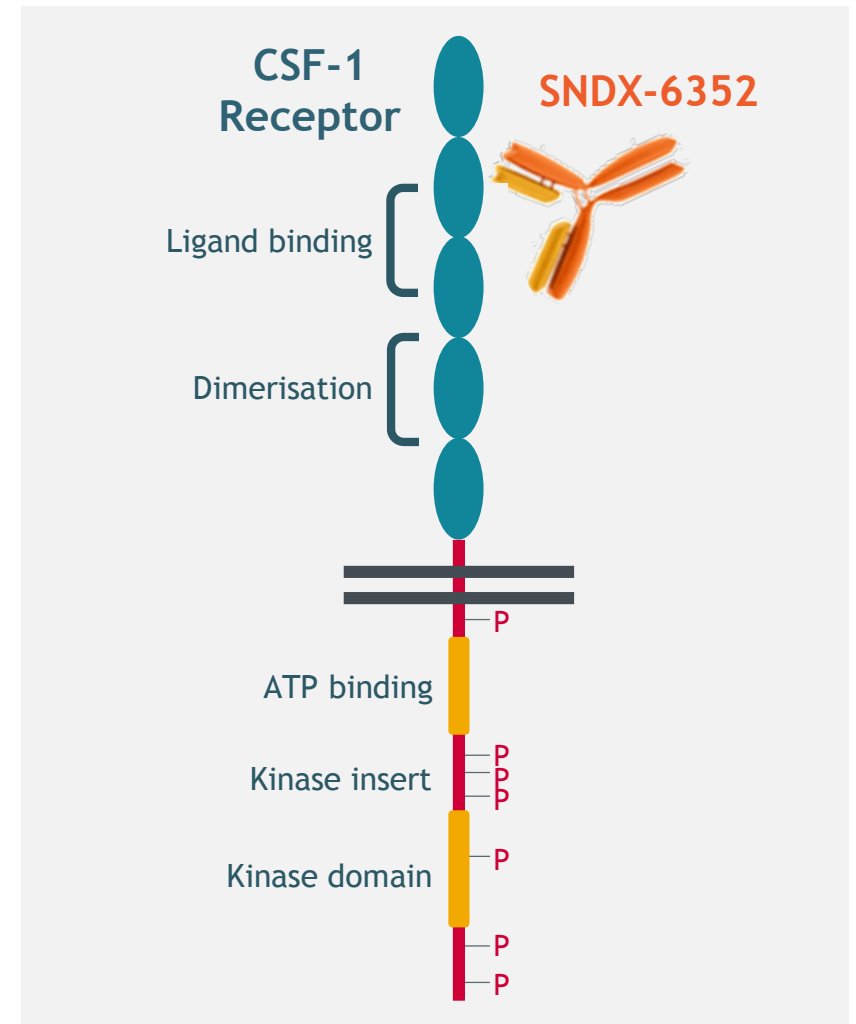




# Update on SNDX-6352: pursuing novel indication

High affinity, IgG4 ( $K_D = 4-8$  pM)

- ✓ Chronic graft versus host disease (cGVHD) study initiated
  - RP2D expected in 2H19
- ✓ Multiple ascending dose studies ongoing
  - Monotherapy (solid tumors) and IMFINZI (durvalumab, AZ) combo
  - RP2D expected in 2Q19

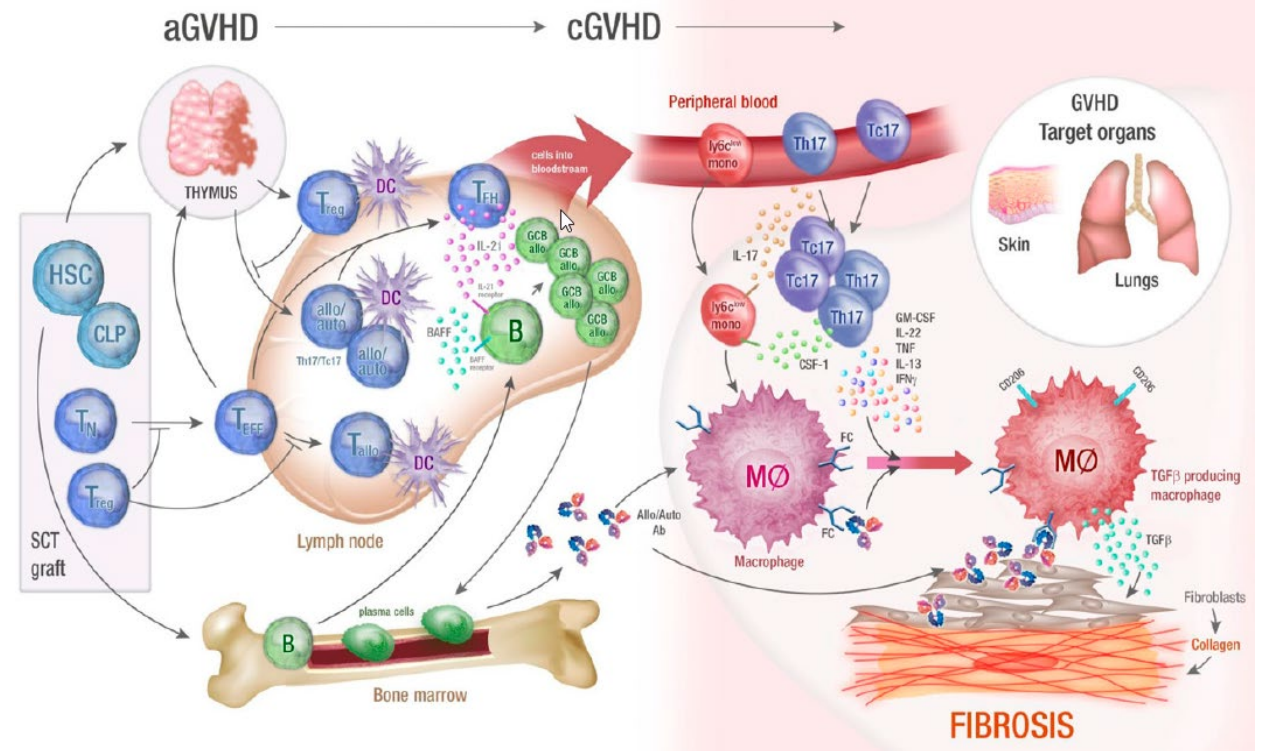


CSF-1R - colony stimulating factor -1 receptor; RP2D recommended Phase 2 dose.  
Source : Ordentlich, P. et al SITC 2016.

# CSF-1 pathway may play a meaningful role in cGVHD

- Preclinical data implicates CSF-1 in cGVHD
- cGVHD develops in 30-70% of HCST<sup>1</sup>
  - US 5,000
  - Global 12,500
- Phase 1 data expected 3Q19
  - Primary outcome measures:
    - Progression (2014 NIH GVHD criteria)
    - Optimal biologic dose (OBD)
    - RP2D

## Cellular and molecular mediators of GVHD pathology<sup>2</sup>



1. <https://www.fda.gov/newsevents/newsroom/pressannouncements/ucm569710.htm>.

2. MacDonald, K.P.A. et al., *BLOOD*, 5 (129) 13-21.

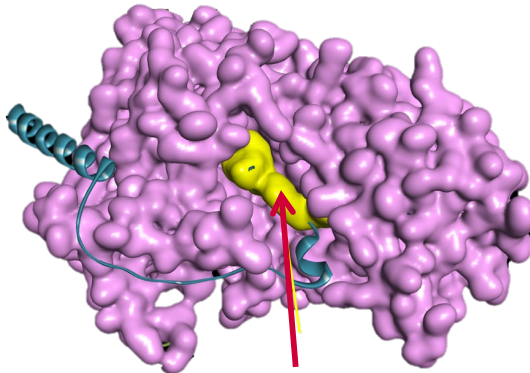
# Proven ability to build the pipeline

3Q16: UCB



SNDX-6352

4Q17: Allergan/Vitae



Menin-MLLr  
inhibitors

- Established relationships enhance identification and access to quality assets
- Clinical development leadership enables competitive advantage
- Business development continues to be a core strength of our business

## March 2019 financing: \$27.4 million net proceeds extends cash runway



- Completed deal with key investors, led by BVF
- Issued 4.6M shares and prefunded warrants @ \$6.00 (premium to market) and 4.6 M series warrants priced at \$12 and \$18
  - Warrants expire on the earlier of E2112 positive OS data + 3 months or Dec 31, 2020
- 31.6 million total shares outstanding post financing

# Q1 2019 financial highlights and 2Q, full-year 2019 guidance

Ticker	SNDX (NASDAQ)	
As of March 31, 2019		
Cash and short-term investments	\$92.7 million	
Shares Outstanding*	31.6 million	
2019 2Q and full year Operating Expense Guidance		
	2Q 2019	2019
Research and Development	\$9 - 10 M	\$46 - 50 M
Total Operating Expenses^	\$13 - 14 M	\$60 - 64 M

\* Includes 27.1 million common shares and pre-funded warrants to purchase 4.5 million common shares

^ Includes \$1.5 and \$6 million non-cash stock compensation expense for 2Q 2019 and for 2019, respectively

# Upcoming milestones

ENTINOSTAT (Class 1 specific HDAC inhibitor)	2Q19	3Q19	4Q19	1H20
E2112 - upcoming OS analyses*			●	●

\* Final 1H20 OS analysis will only be conducted if needed

SNDX-5613 (Menin inhibitor)	2Q19	3Q19	4Q19	1H20
Investigational New Drug (IND) application	●			
Potential for early efficacy in relapsed refractory AML			▬	

SNDX-6352 (anti-CSF-1R mAB)	2Q19	3Q19	4Q19	1H20
Identify recommended Phase 2 dose and schedule	●			
Preliminary efficacy in chronic GVHD		●		

# Significant value drivers in 2019



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Thank you. Questions?

Syndax 