

#### **Forward-Looking Statements**

To the extent that statements contained in this presentation are not descriptions of historical facts, they may be deemed to be forward-looking statements under the Private Securities Litigation Reform Act of 1995. Words such as "may," "will," "expect," "anticipate," "estimate," "intend," "next," "near-term," "future" and similar expressions, as well as other words and expressions referencing future events, conditions, or circumstances, are intended to identify forward-looking statements. Examples of forward-looking statements in this presentation may include, among others, statements regarding: (i) the timing, progress and results of our preclinical and clinical trials; (ii) the impact of the COVID-19 pandemic on the initiation, progress or expected timing of those trials and the timing of related data, as well as our efforts to adjust trial-related activities to address the impact of the COVID-19 pandemic; (iii) the timing or likelihood of regulatory filings for our product candidates; (iv) our manufacturing capabilities and strategy; (v) the potential benefits and activity of our product candidates; (vi) our expectations regarding the nature of the biological pathways we are studying; (vii) our expectations regarding our FIND-IO platform; and (viii) the potential benefits of our relationships with Dr. Lieping Chen and Yale University.

Various factors could cause actual results to differ materially from those projected in any forward-looking statement. Such risks and uncertainties include, among others: the impact of the ongoing COVID-19 pandemic on our business, including our clinical trials, third parties on which we rely and our operations; our limited operating history and no products approved for commercial sale; our history of significant losses; our need to obtain additional financing; risks related to clinical development, marketing approval and commercialization; and the unproven approach to the discovery and development of product candidates based on our FIND-IO platform. No forward-looking statement is a guarantee of future results or events, and one should avoid placing undue reliance on such statements. For further discussion of these and other factors that could affect the outcome of our forward-looking statements, see our filings with the Securities and Exchange Commission, including in "Risk Factors" and "Special Note Regarding Forward-looking Statements" in the Risk Factors section and throughout NextCure's Form 10-K filed with the SEC on March 12, 2020. Except as otherwise indicated, this presentation speaks as of the date indicated herein. Except as required by law, we assume no obligation to update any forward-looking statements, or to update the reasons why actual results could differ materially from those anticipated in the forward-looking statements, even if new information becomes available in the future. The information in this presentation is not complete and may be changed.



## NextCure Highlights

#### **PIPELINE**

- NC318 (S15): Phase 2
- NC410 (LAIR-1): IND filed and received FDA clearance Q1 2020
- Manufacturing: dedicated, state-of-the-art facility

#### **PLATFORM**

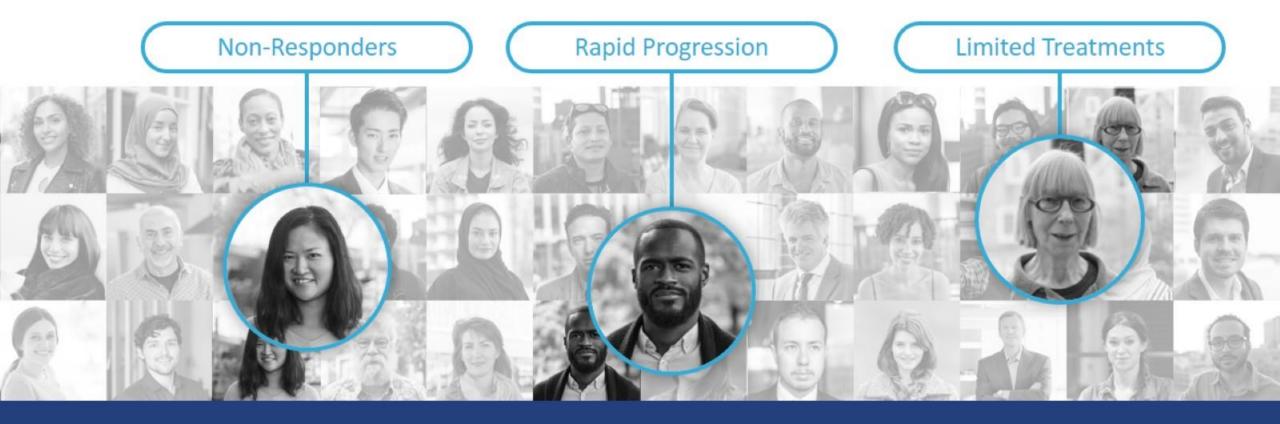
- FIND-IO functional screening discovery engine
- Validation of novel cancer targets
- Expanding into autoimmune diseases

#### **PEOPLE**

- Experienced management team
- Founder Dr. Lieping Chen: discovered PD-L1
- Strong immunology capabilities



#### **Unmet Medical Needs of Cancer Patients**



We Need New Solutions



#### **Product Development Pipeline**

PROGRAMS	CELLS	DISCOVERY	PRECLINICAL	PHASE 1	PHASE 2	PHASE 3	MILESTONE	RIGHTS
PRODUCT CANDIDATES (U						JPDATED GUIDANCE*	)	
NC318 (S15) Monotherapy	Tumors and macrophages	ONCOLOGY	(				Phase 2 data by end of Q4 2020 (Expect delay)	<b>Next©</b> ure
NC318 (S15) Chemo Combo	Tumors and macrophages	ONCOLOGY					Initiate Phase 1 mid-2020 (Temporary delay)	<b>Next</b> ©ure
NC410 (LAIR-1)	Dendritic and T cells	ONCOLOGY					Initiate Phase 1 Q2 2020 (Temporary delay)	<b>Next</b> ©ure
DISCOVERY AND RESE	ARCH PROGRAMS							
Multiple Programs	Immune cells						First IND filing in early 2021	<b>Next</b> ©ure
FIND-IO Platform	Multiple cell types						First IND filing in late 2022	<b>Next</b> ©ure

<sup>\*</sup>Updated guidance noted in parentheses indicates delays or expected delays due to the ongoing COVID-19 pandemic. Where delays are indicated or expected, the original milestone should be disregarded.



WODIDWIDE

ODICINIAL

## NC318 Humanized Monoclonal Antibody



#### **TARGET**

Siglec-15 ("S15")

#### **CELL TYPES**

Tumors & macrophages

#### MOA

Blocks S15-induced immunosuppression

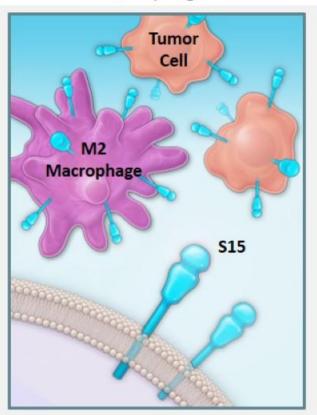
#### **INDICATIONS**

NSCLC, ovarian, head & neck and triple negative breast cancers

#### S15 as a Target

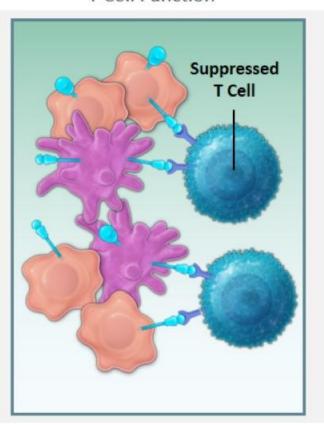
#### **EXPRESSION**

Tumors and Macrophages



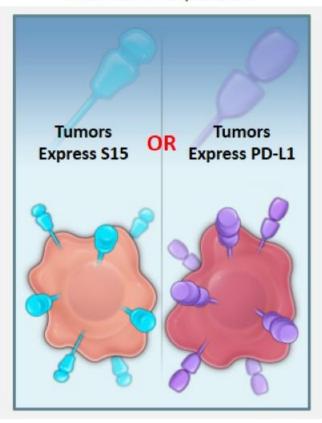
#### **FUNCTION**

Potently Suppresses T Cell Function



#### **NON-RESPONDERS**

Generally Non-Overlapping with PD-L1 Expression



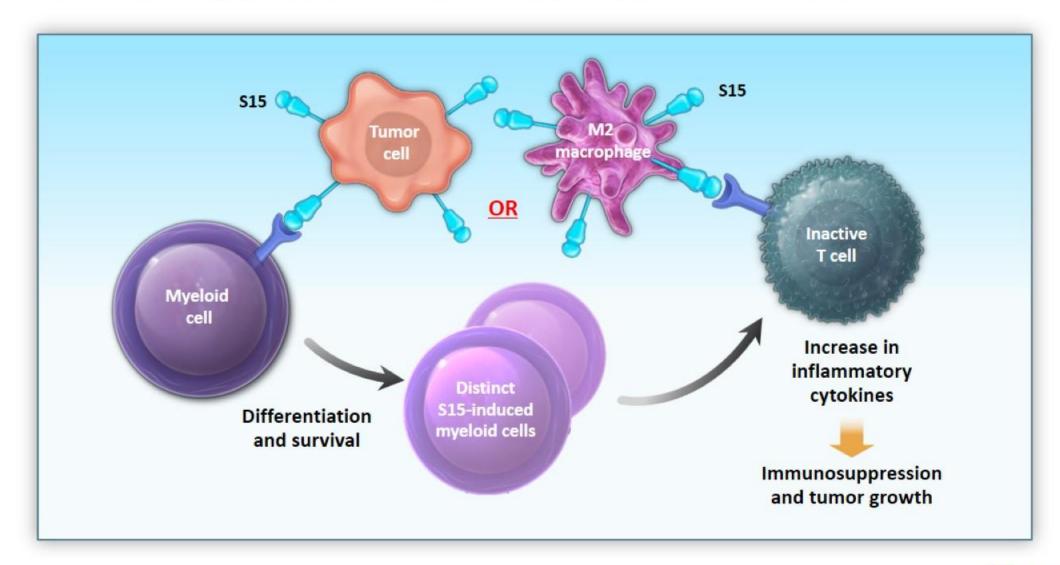
Wang et al., 2019



Siglec-15 as an immune suppressor and potential target for normalization cancer immunotherapy

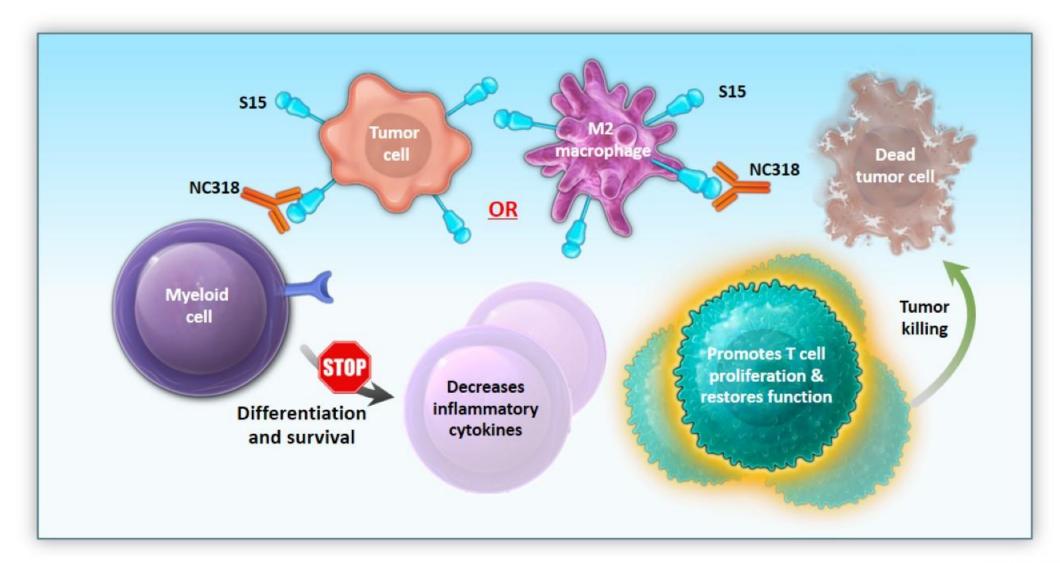


#### S15 is Immunosuppressive in the Tumor Microenvironment





#### NC318 Blocks Immunosuppressive Activity Induced by S15

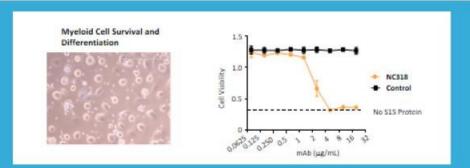




#### NC318 Mechanism of Action Restores Immune Function In Vitro

**INHIBITS** 

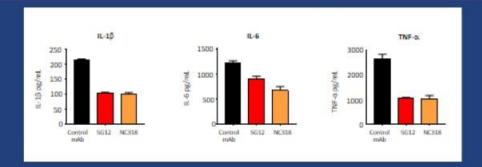
Myeloid Cell
Differentiation and Survival



Blocks survival of myeloid cells

**DECREASES** 

Pro-Inflammatory and Pro-Tumorigenic Cytokines



Decreases IL-1β, IL-6 & TNF-α

**PROMOTES** 

T Cell Function



Increases T cell proliferation & IFN-γ production





#### NC318 Phase 1 Trial Status as of November 9, 2019 (SITC Presentation)

#### DOSE ESCALATION AND SAFETY AND TOLERABILITY

#### Completed

#### **ENROLLMENT**

- 49 patients
- 15 tumor types
- Median of 3 prior therapies
- All comers regardless of PD-L1 or S15 expression status

#### **SAFETY**

- No DLTs through 800 mg
- 1 DLT at 1600 mg: Grade 3 pneumonitis
- Common irAEs observed, including diarrhea, rashes, vitiligo, arthralgias

#### RESPONSES

- Evaluations every 8 weeks
- 1 confirmed CR (55+ weeks)
- 1 confirmed PR (28+ weeks)
- 14 durable SD (≥16 weeks)







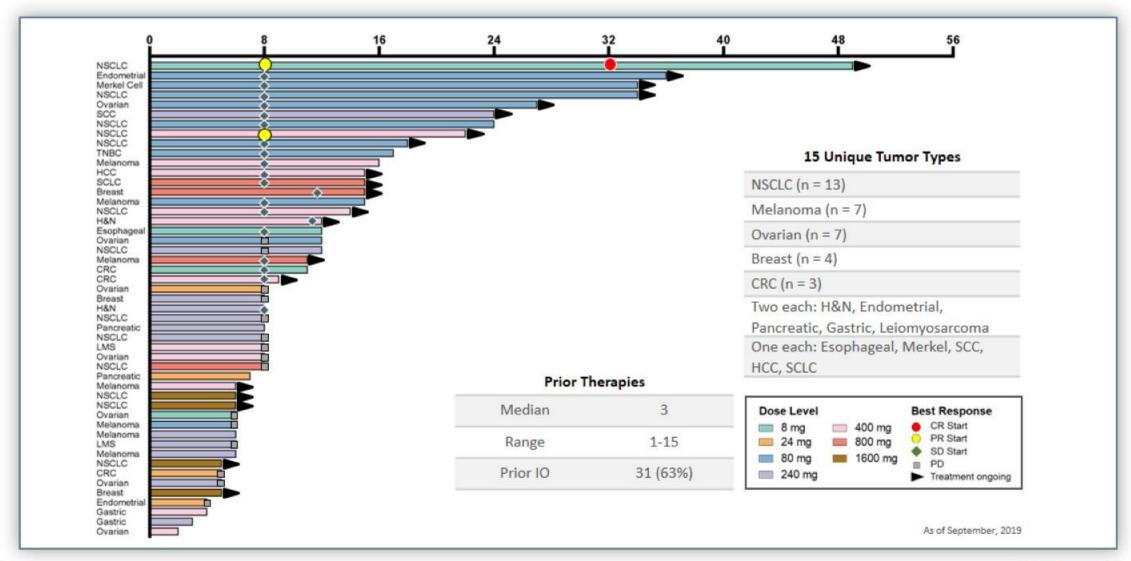


Yale University



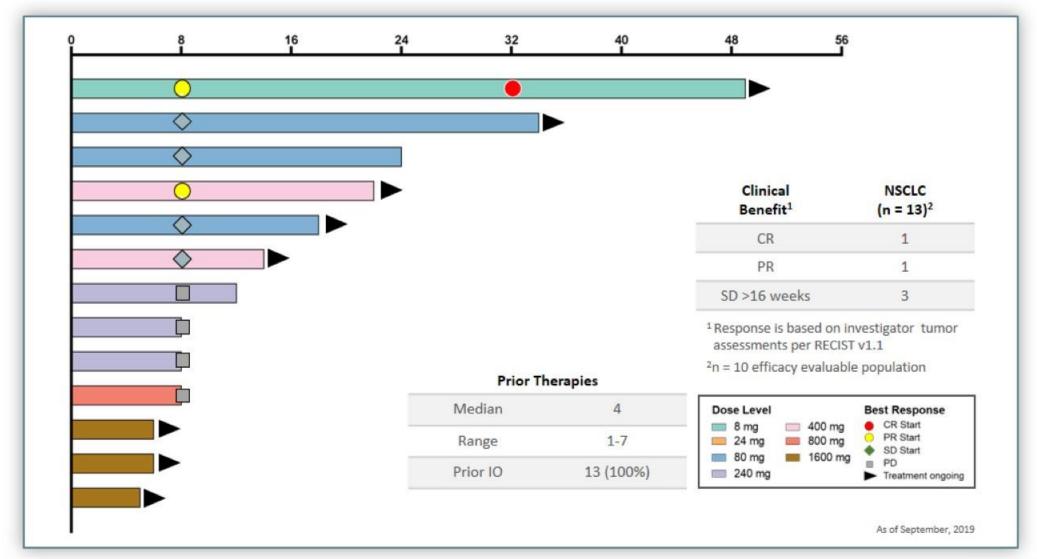


#### Treatment Duration in Weeks for All Phase 1 Patients





#### Durable Clinical Benefit for PD-1 Refractory NSCLC Patients





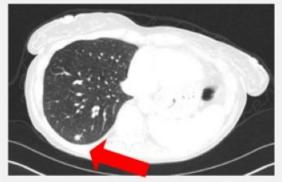
#### NC318: Single-Agent Activity in PD-1 Refractory NSCLC

#### BASELINE

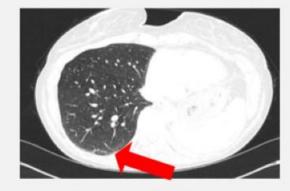
#### **WEEK 16**

Confirmed

**COMPLETE RESPONSE** 



Target lesion



Target lesion gone

56 y/o NSCLC with multiple lesions (PD-L1 TPS <50%) 8 mg every 2 weeks

#### PRIOR THERAPIES:

Chemotherapy (x3)
Nivolumab (best response stable disease then progression)

Confirmed

PARTIAL RESPONSE





Target lesions -71%

74 y/o NSCLC (PD-L1 TPS <50%) 400 mg every 2 weeks

#### LAST PRIOR THERAPY:

Immunotherapy: LAG3/PD-1 (best response stable disease then progression)



#### NC318 Phase 2 Trial Status as of November 9, 2019

#### **DOSE EXPANSION - ENROLLING**

#### **TUMOR TYPES**

**NSCLC** 

H&N

Ovarian

**TNBC** 

#### DESIGN

- Biopsies required
- PD-L1 TPS <50%
- S15 evaluated retrospectively
- Biomarker evaluation
- Monotherapy
- 400 mg every 2 weeks

#### **DELIVERABLES**

 Initial Phase 2 data (expect delay due to COVID-19)









Yale University





# NC410 Decoy Human Fusion Protein Targeting the TME



#### **TARGET**

Leukocyte-Associated Immunoglobulin-like Receptor-1 (LAIR-1)

#### **CELL TYPES**

Dendritic cells and T cells

#### MOA

Promotes T cell function & dendritic cell activity

#### **INDICATIONS**

Advanced or metastatic solid tumors

#### LAIR-1 & LAIR-2 Functional Relationship

#### LAIR & LIGANDS

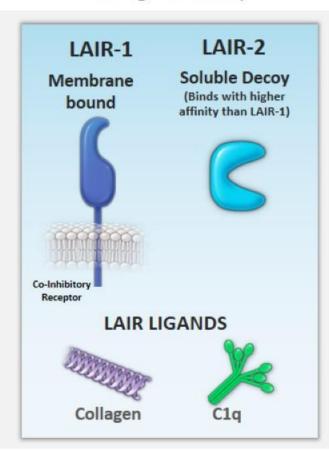
LAIR-1 and LAIR-2 Bind Collagen and C1q

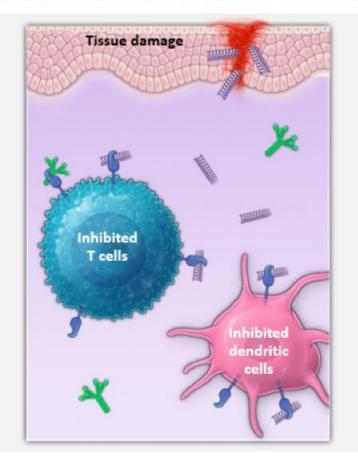
#### LAIR-1

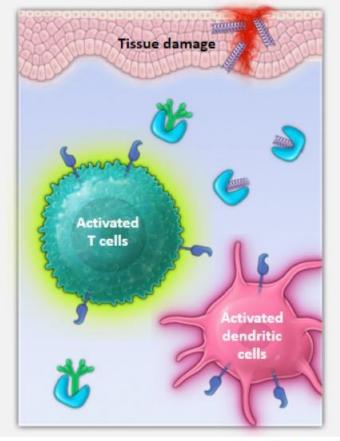
Ligands Expressed in Response to Inflammation & Inhibit Immune Function

#### LAIR-2

LAIR-2 Modulates LAIR-1 Mediated Inhibition



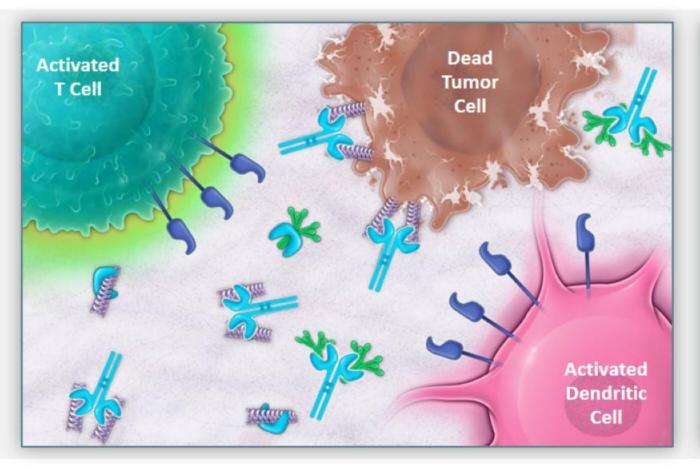


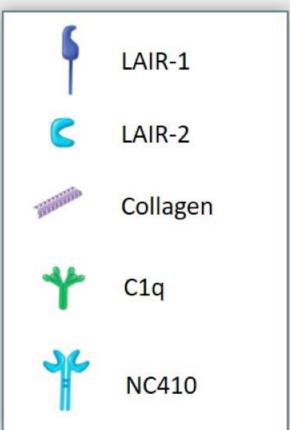




#### NC410 Prevents Immune Suppression

## NC410 IS A FUSION PROTEIN OF LAIR-2 AND A DECOY FOR LAIR-1 AND PROMOTES T CELL FUNCTION AND DC ACTIVATION



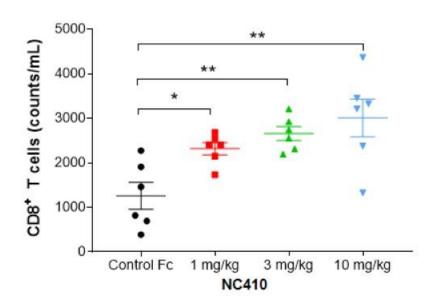




#### NC410 Enhanced T Cell Expansion and Relieved Immunosuppression

#### **Blocked**

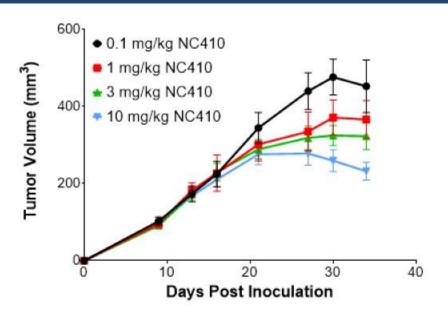
#### **SUPPRESSION**



Human CD8+ T cell expansion in vivo

#### Decreased

#### TUMOR VOLUME



Human PBMCs in mice: CD8+ T cell activity decreased tumor volume in HT29 model





NC410

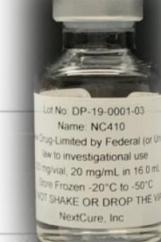
Summary



Promotes T cell function and dendritic cell activity in preclinical studies



IND-enabling tox studies complete





cGMP manufacturing complete



IND filed & received FDA clearance Q1 2020

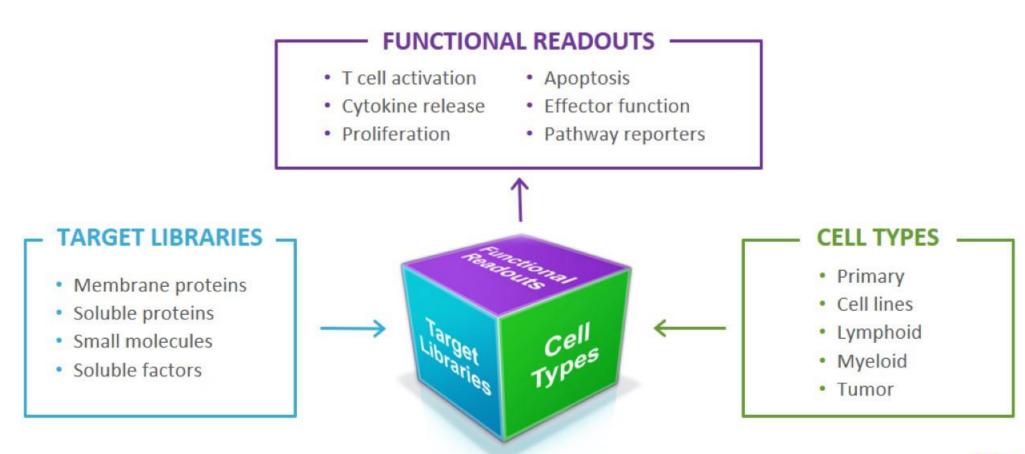


Initiate Phase 1 (temporarily delayed due to COVID-19)



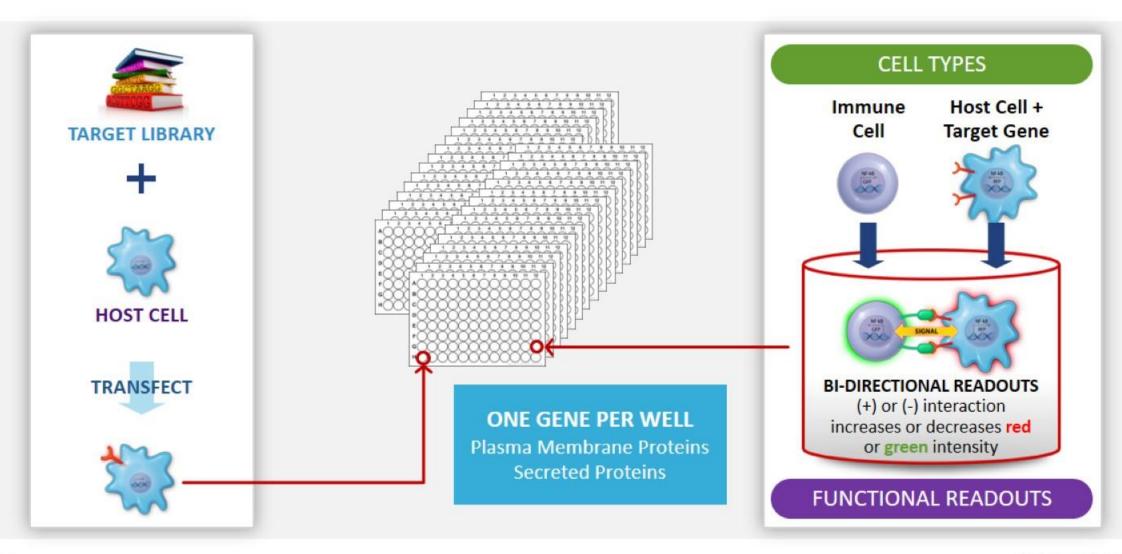
#### Finding Solutions with a Powerful Discovery Engine

#### Functional, Integrated, NextCure Discovery in Immuno-Oncology



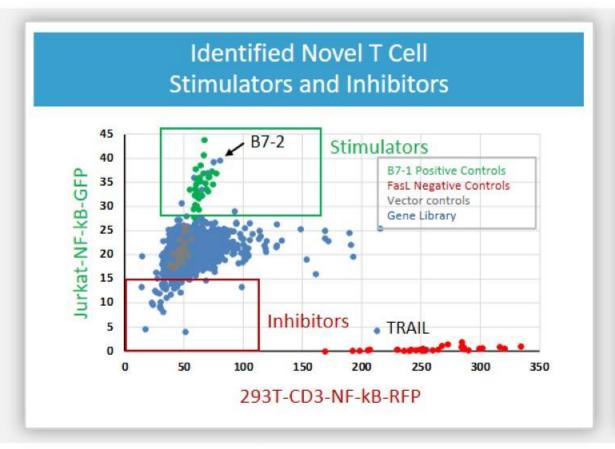


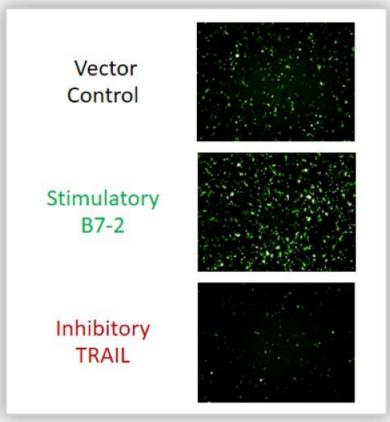
#### FIND-IO Screening Methodology





#### Jurkat "T Cell Line" Screening and Validating FIND-IO Hits





REPRODUCIBILITY

**ROBUSTNESS** 

**RELEVANCY** 



## Anticipated Near-Term Milestones



#### NC318

- Initiate Phase 2 combination trial with standard of care chemotherapies (temporarily delayed due to COVID-19)
- Report initial Phase 2 data (expected delay due to COVID-19)



#### NC410

Initiate Phase 1 (temporarily delayed due to COVID-19)



#### **DISCOVERY**

Identify novel targets and initiate validation



## **Next**@ure



Committed to Addressing the Unmet Needs of Patients with New Solutions

**FOCUSED** 

Approach

**PROVEN** 

Momentum

**INNOVATIVE** 

Platform

**EXPERIENCED** 

Team

**FUTURE** 

**Deliverables**