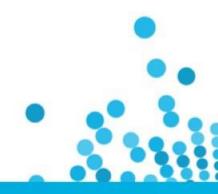
## **Next©ure**

Treating Cancer by Restoring Immune Function

OCTOBER 2023



### 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. These statements are based on current expectations, forecasts, assumptions and other information available to NextCure as of the date hereof. Forward-looking statements include statements regarding NextCure's expectations, beliefs, intentions or strategies regarding the future and can be identified by forward-looking words such as "may," "will," "potential," "expects," "believes," "intends," "hope," "towards," "forward," "later" and similar expressions. Examples of forward-looking statements in this press release include, among others, statements about the development plans for our immunomedicines, statements about the progress and evaluation and expected timing of results of NextCure's ongoing clinical trials of NC410, NC762 and NC525, expectations regarding the potential benefits, activity, effectiveness and safety of NC410, NC762 and NC525, NextCure's financial guidance, expected upcoming milestones, and NextCure's plans, objectives and intentions with respect to the discovery and development of immunomedicines. Forward-looking statements involve substantial risks and uncertainties that could cause actual results to differ materially from those projected in any forward-looking statement. Such risks and uncertainties include, among others: the impacts of the COVID-19 pandemic on NextCure's business, including NextCure's clinical trials, third parties on which NextCure relies and NextCure's operations; positive results in preclinical studies may not be predictive of the results of clinical trials; NextCure's limited operating history and no products approved for commercial sale; NextCure's history of significant losses; NextCure's need to obtain additional financing; risks related to clinical development, marketing approval and commercialization; the unproven approach to the discovery and development of product candidates based on NextCure's FIND-IO<sup>™</sup> platform; and dependence on key personnel. More detailed information on these and additional factors that could affect NextCure's actual results are described in NextCure's filings with the Securities and Exchange Commission (the "SEC"), including in Item 1A of NextCure's most recent Form 10-K, subsequent Form 10-Q and elsewhere in the Company's filings with the SEC. You should not place undue reliance on any forward-looking statements. Forward-looking statements speak only as of the date of this press release, and NextCure assumes no obligation to update any forward-looking statements, except as required by law, even if expectations change.



## The NextCure Opportunity

### **DIFFERENTIATED PIPELINE**

Multiple clinical programs, novel targets and diverse indications

#### **NEAR TERM VALUE CREATION**

Multiple milestones in 2023

#### **CAPITAL EFFICIENCY**

\$130.6M balance sheet, runway into mid-2025

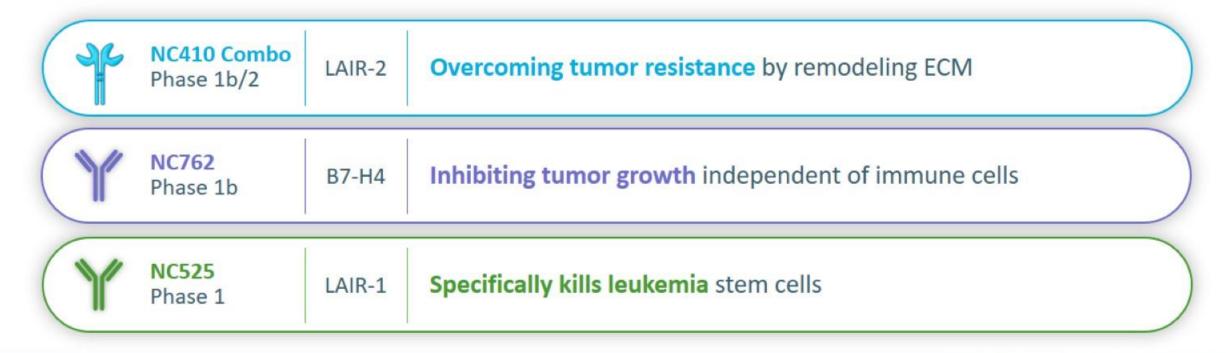
#### QUALITY PRODUCT DEVELOPMENT

Fully integrated operations drive innovation, internal manufacturing and capital efficiency



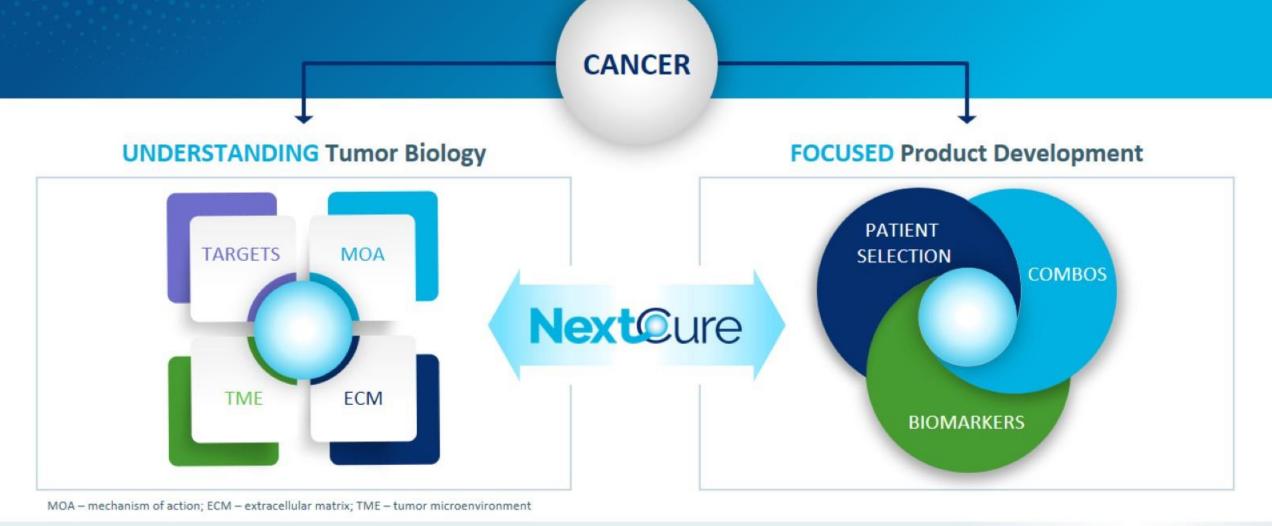
## Developing First-in-Class Immunomedicines to Treat Cancer

## CLINICAL STAGE COMPANY Strong Pipeline With Differentiated Mechanism of Actions





## How Are We Improving Cancer Treatment?





## Advancing Product Development Pipeline

PROGRAMS	TARGET	CELLS	DISCOVERY	PRECLINICAL	PHASE 1	PHASE 2	PHASE 3	NEXT MILESTONE
PRODUCT CAN	DIDATES							
NC410 COMBO	LAIR-2	Extracellular Matrix	CRC, ESOPHAGEA	AL, ENDOMETRIAL, H	&N, OVARIAN			Phase 1b Data Q4 2023
NC762	B7-H4	Tumor Cells	OVARIAN, BREAST, NSCLC					Phase 1b Update Q4 2023
NC525	LAIR-1	Leukemia	ACUTE MYELOID	LEUKEMIA				Phase 1a Update Q4 2023
RESEARCH PRO	OGRAMS							
Multiple Programs	Multiple Targets	Multiple Cell Types						
		Par	tnering Opt	tionality and	l Value Cre	ation		



Q4 2023

PHASE 1b DATA



### NC410

Overcoming tumor resistance by remodeling the extracellular matrix (ECM) to enhance T cell infiltration and tumor killing



#### Phase 1a Dose Escalation & Safety

- Monotherapy
- ✓ Safe and well tolerated
- ✓ No anti-drug antibodies
- ✓ No dose-limiting toxicity



#### Phase 1b/2 NC410 + Pembro

- Combo therapy
- Immune checkpoint refractory or naïve solid tumors



CRC

Esophageal

Endometrial

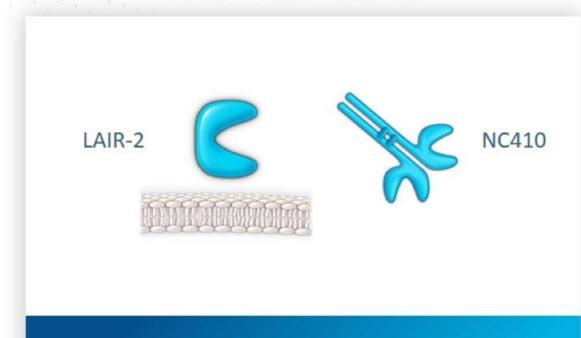
Head and Neck

Ovarian



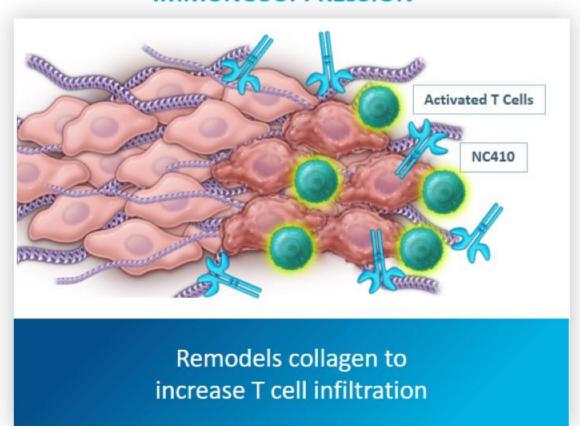
### NC410: Fusion Protein and Biomimic for LAIR-2

## NC410 RECOGNIZES COLLAGEN



Natural decoy and immune modulator

## NC410 ALLEVIATES IMMUNOSUPPRESSION



## NC410 Phase 1a Monotherapy Dose Escalation and Safety Study

#### PHASE 1A – COMPLETE

#### DESIGN

- 3+3
- Solid tumors
- 7 dose cohorts (3 mg 200 mg)
- Dosing every 2 weeks

#### **METRICS**

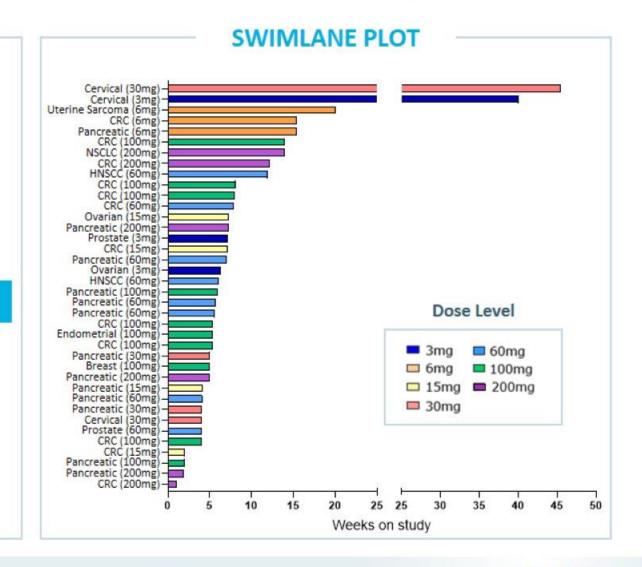
- Treated 41 patients
- 10 tumor types

#### SAFETY

- Safe and well tolerated
- No dose-limiting toxicity
- · No anti-drug antibodies

#### RESULTS

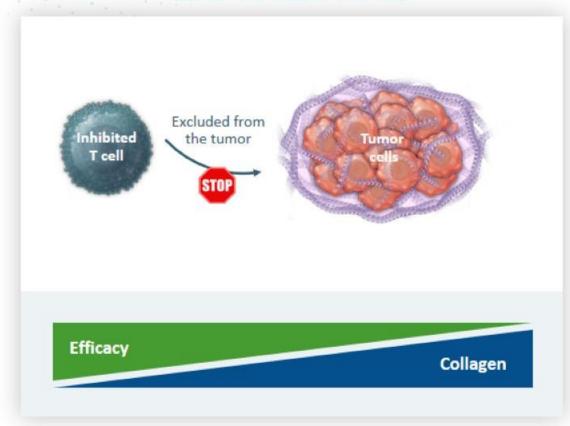
- Best responses stable disease (22%) >12 weeks
- Collagen derived products supporting mechanism of ECM remodeling
- · Expansion of T cells demonstrating immune activation
- Selected Phase 2 doses (30 & 60 mg)





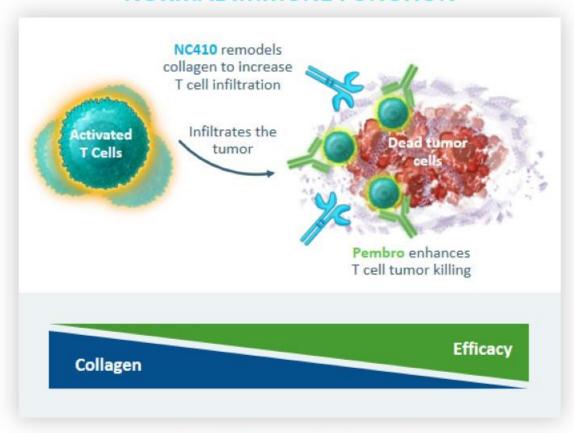
## NC410 + Pembro Combo: A Synergistic Approach to Breaking the Collagen Barrier and Restoring Anti-Tumor Activity

## COLLAGEN BUILDUP AND DENSITY LEAD TO RESISTANCE



Tumor cells proliferate and become resistant

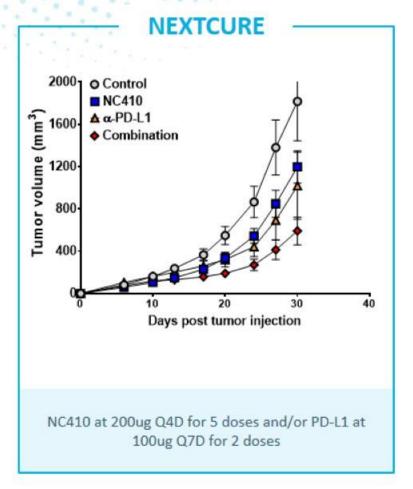
## NC410 COMBO REMODELING RESTORES NORMAL IMMUNE FUNCTION

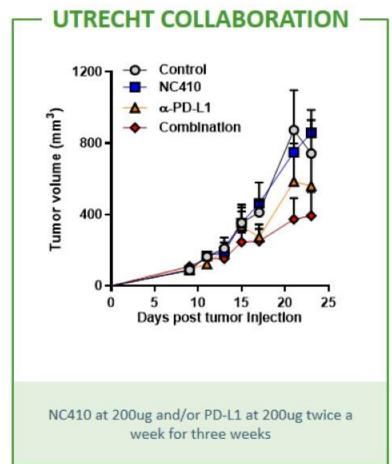


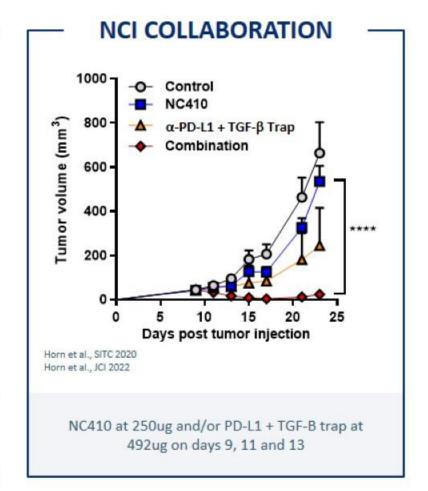
T cells infiltrate and kill the tumor



## NC410 + Anti-PD-L1 Results in Reproducible Tumor Killing in Murine Models

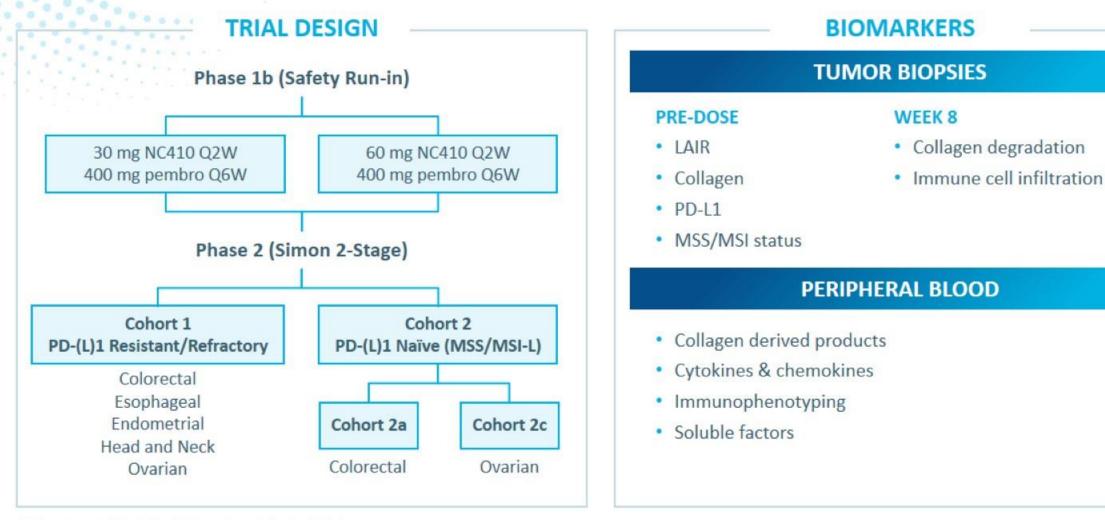








## Phase 1b/2 NC410 + Pembro Combo Study - Ongoing



MSS - microsatellite stable; MSI-L - microsatellite instable, low



## Significant Momentum, Continued Progress

## **NC410 Summary**



- ✓ Phase 1a monotherapy dose escalation & safety
- ✓ N = 41 patients; 10 tumor types;
  7 dose cohorts: 3 200 mg
- ✓ Safe & tolerated; Responses: 22% SD
- ✓ RP2D (30 & 60 mg)

## ONGOING & NEXT STEPS

COMPLETED

- Phase 1b/2 NC410 + pembro combo initiated
- ICI refractory and naïve
- Biomarkers
- Phase 1b data Q4 2023



Q4 2023 PHASE 1b UPDATE



## NC762

Monoclonal antibody that inhibits tumor cell growth independent of immune cell infiltration into tumor microenvironment (TME)

## COMPLETED

#### Phase 1a Dose Escalation & Safety

- √ Monotherapy
- ✓ Safe and well tolerated
- √ No anti-drug antibodies
- √ No dose-limiting toxicity



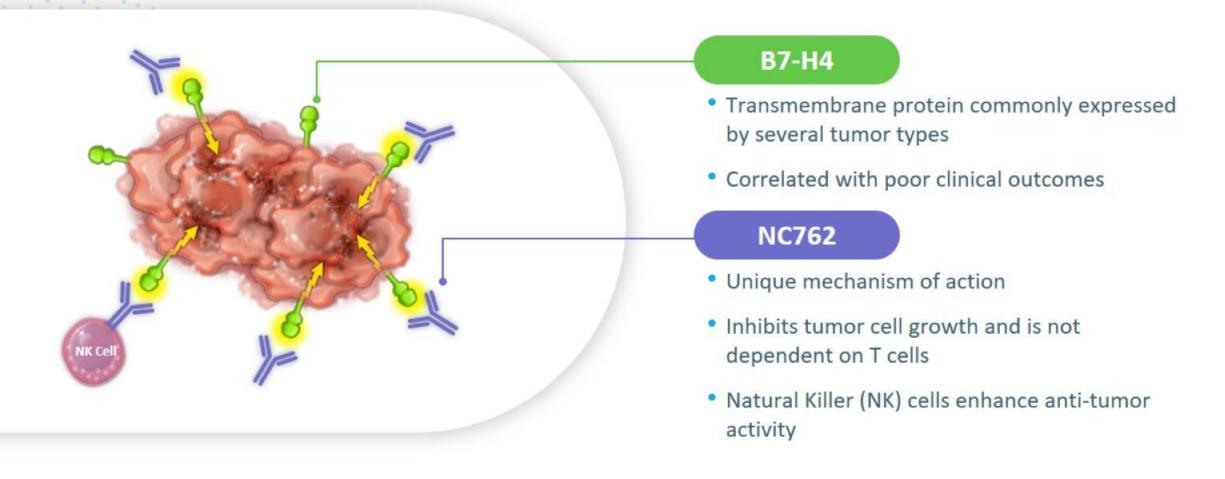
#### Phase 1b Dose Expansion

- Monotherapy
- Dose expansion cohorts at 10 and 20 mg/kg

Ovarian Breast NSCLC

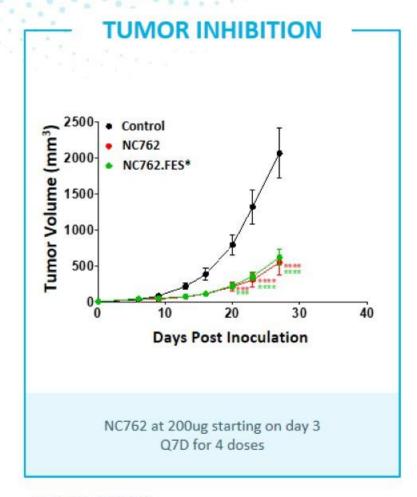


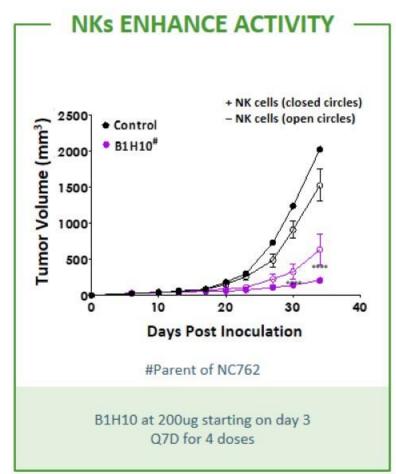
## NC762 Targets B7-H4 Positive Tumors

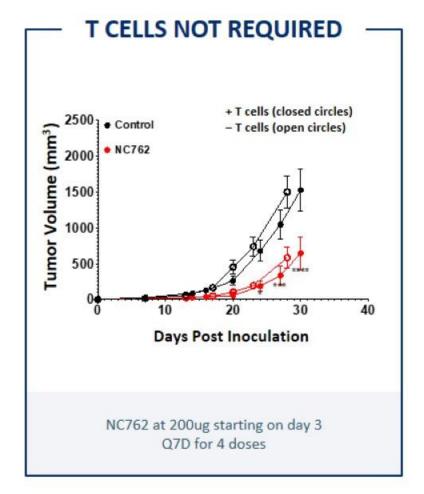




### NC762 Inhibits Human Tumor Growth In Vivo







Archer et al., AACR 2021



## NC762 Phase 1a Monotherapy Dose Escalation & Safety Study

#### PHASE 1A – COMPLETE

#### DESIGN

- 3+3
- Solid tumors
- 5 cohorts (0.5 20 mg/kg)
- Dosing every 2 weeks

#### METRICS

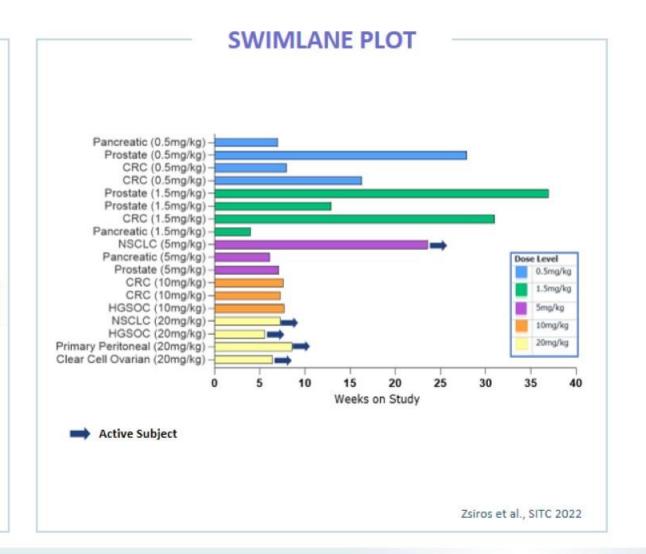
- Treated 18 patients
- 5 tumor types

#### SAFETY

- Safe and well tolerated
- No dose-limiting toxicity
- No anti-drug antibodies

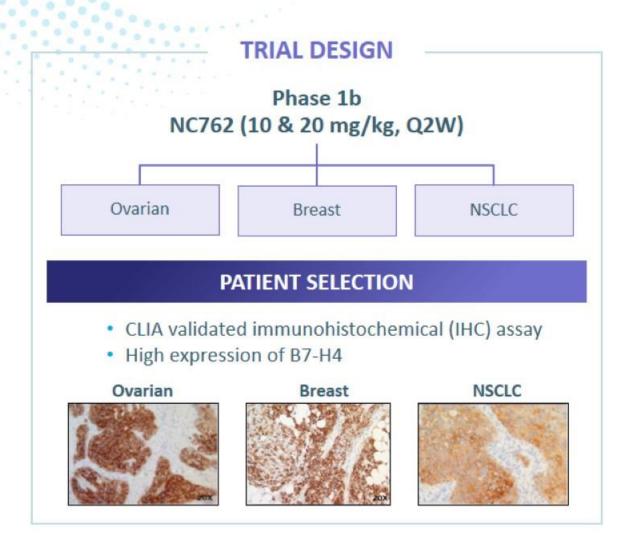
#### RESULTS

- Best responses stable disease (33%) >12 weeks
- Increases in cytokines and chemokines were observed 24 hours post treatment
- Early signs of immune activation and modulating NK cell activity
- · Selected Phase 2 doses (10 & 20 mg)





### NC762 Phase 1b Monotherapy Dose Expansion



#### **BIOMARKERS**

#### **TUMOR BIOPSIES**

#### PRE-DOSE

- B7-H4
- PD-L1

#### WEEK 8

- Immune cell infiltration
- B7-H4
- PD-L1

#### PERIPHERAL BLOOD

- Cytokines & chemokines
- Immunophenotyping
- Soluble factors (B7-H4, PD-L1, others)

## Significant Momentum, Continued Progress

## NC762 Summary



## COMPLETED

- ✓ Phase 1a monotherapy dose escalation & safety
- √ N = 18 patients; 5 tumor types
- √ 5 dose cohorts: 0.5 20 mg/kg
- ✓ Safe & tolerated; Responses: 33% SD
- ✓ RP2D (10 & 20 mg/kg)

## ONGOING & NEXT STEPS

- Phase 1b monotherapy dose expansion initiated
- B7-H4+ patient selection
- Biomarkers
- Phase 1b update Q4 2023



Q4 2023

PHASE 1a UPDATE



### NC525

Killing leukemic stem cells while preserving healthy immune cells

#### COMPLETED

## Investigational New Drug (IND) Application

- ✓ Clearance to proceed with Phase 1 trial
- ✓ Initiated clinical trial Q1 2023

# ONGOING

#### Phase 1a Dose Escalation & Safety

- Monotherapy
- AML; 5 cohorts: 2 30 mg/kg

**TARGETING LAIR-1** 

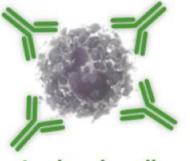
Leukemia (AML)





Targets LAIR-1, which is essential for AML development and cell survival

#### **ELIMINATES**



Leukemia cells and leukemia stem cells (LSC)

Prevents relapse due to chemotherapy resistant LSCs

#### **SPARES**



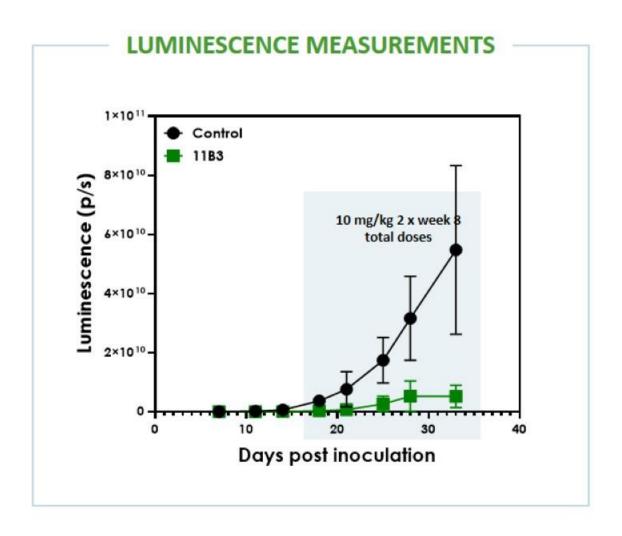
Normal hematopoietic stem and progenitor cells (HSPCs)

Potential for improved safety with lower incidence of neutropenia and thrombocytopenia



## LAIR-1 Antibody 11B3\* Reduces Tumor Burden in Murine Leukemia Model

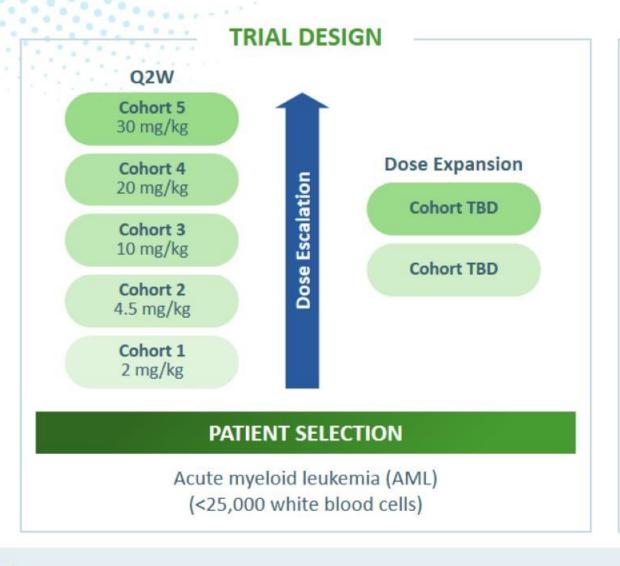






<sup>\*11</sup>B3: NC525 Murine Parent

## NC525 Phase 1 Monotherapy Dose Escalation and Safety Study Plans



#### **BIOMARKERS**

#### BIOPSIES

- · Bone marrow blast clearance
- LAIR-1 expression on blasts correlated with responses
- Effects on LSCs and HSPCs

#### PERIPHERAL BLOOD

- Blast clearance & normal blood cell recovery
- Cytokines & chemokines
- Immunophenotyping
- Soluble factors (LAIR-1)



## Significant Momentum, Continued Progress

## NC525 Summary



#### COMPLETED

- ✓ Pre-clinical research
- ✓ Submitted & cleared IND
- ✓ Initiated clinical trial

ONGOING & NEXT STEPS

- Phase 1 monotherapy dose escalation & safety
- AML; 5 cohorts: 2 30 mg/kg
- Biomarkers
- Phase 1a update Q4 2023

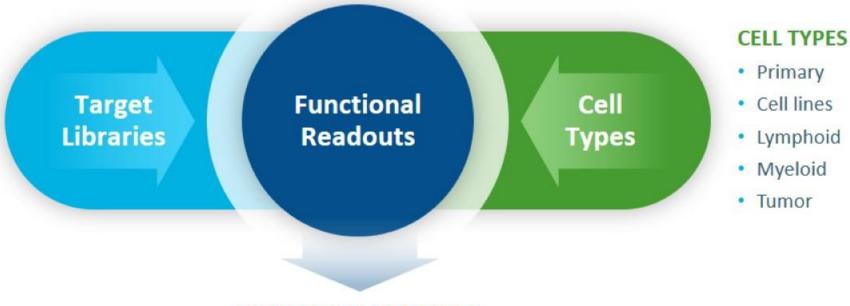


## Powerful, Proven, and Productive Discovery Engine Fuels Our Pipeline Growth

Functional, Integrated, NextCure Discovery in Immuno-Oncology FIND-IO

#### TARGET LIBRARIES

- Membrane proteins
- Soluble proteins
- Small molecules
- Soluble factors



#### FUNCTIONAL READOUTS

- T cell activation
- Cytokine release
- Proliferation

- Apoptosis
- Effector function
- Pathway reporters



## Integrated Development Capabilities Are Major Advantages



- R&D labs
- Vivarium
- Antibody generation
- GLP clinical testing lab
- Biomarker lab
- GMP manufacturing
- Environmental testing lab
- Supply chain warehouse





## 2,000L Capacity

Produces clinical material for all programs

## High Quality GMP Clinical Supply Manufacturing Provides Many Advantages

#### SPEED

Saves ~8 months on timelines vs. CDMO

#### **FLEXIBILITY**

Prioritization and scheduling

#### **EFFICIENCY**

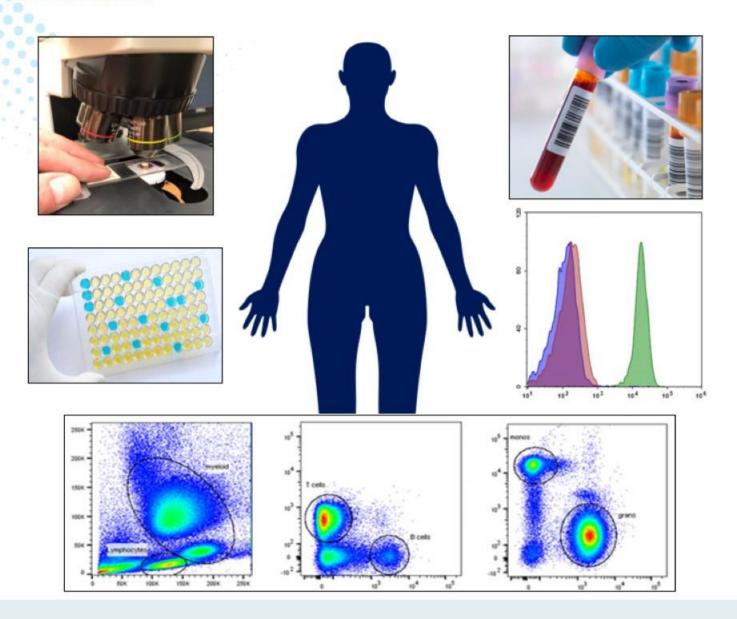
Operational and capital efficiency

#### QUALITY

Controlling quality with experienced team



### Biomarkers



### **VALUE**

- · Real-time feedback to clinicians
- MOA/POC
- Clinical response correlations
- Patient selection

### **CAPABILITIES**

- Critical reagents
- Assay development & validation
- Analytics
- GLP lab

## Multiple Collaborations Will Drive Continued Growth

#### **COLLABORATIONS**



- NC410 + pembro combo
- Supply arrangement



- B7-H4 ADC + additional target options
- Co-development and co-commercialization

#### **FUTURE PARTNERSHIPS**

3 clinical candidates

Multiple pre-clinical programs

Flexibility and optionality



## 3 Clinical Candidates and Strong Balance Sheet



BALANCE SHEET	RUNWAY	CAP STRUCTURE		
Strong Cash Position	Significant Momentum	No Debt or Warrants		
\$130.6M as of Q2 2023	Mid-2025	27.84M Outstanding		





#### 3 First-in-Class Clinical Candidates

DIFFERENTIATED

pipeline

CONTINUED

momentum

**NEAR TERM** 

value creation

CAPITAL

efficiency

**HIGH QUALITY** 

infrastructure

