



# NextCure

## Corporate Presentation

NASDAQ: NXTC

## Forward-Looking Statement

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 presentation include, among others, statements about the development plans for our products, statements about the progress and evaluation and expected timing of results of NextCure's ongoing or planned clinical trials, expectations regarding the potential benefits, activity, effectiveness and safety of our research stage, preclinical stage, and clinical stage therapeutic candidates, NextCure's financial guidance, expected upcoming milestones, and NextCure's plans, objectives and intentions with respect to the discovery and development of therapeutic products. 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 discovery 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.

## Value-Driven ADC Opportunity

### SIGNIFICANT OPPORTUNITY

- Antibody-drug conjugate targeting B7-H4
- Differentiated linker for improved safety and increased efficacy
- Completed GLP tox study and GMP manufacturing for Ph 1 trial

### 2024-2025 DELIVERABLES

- IND submitted Q4 2024
- Breast, endometrial and ovarian cancers
- FIH expected in Q1 2025

### RUNWAY

- Balance sheet, ~\$75 M, end of Q3
- Runway 2H 2026



## LNCB74

**LEVERAGING OUR DEEP EXPERTISE IN B7-H4 AND COLLABORATION WITH LCB TO DEVELOP A DIFFERENTIATED THERAPEUTIC**

## Focused on a Clinically Validated Target with High Unmet Need

PROGRAMS	TARGET	CELLS	DISCOVERY	PRECLINICAL	PHASE 1	PHASE 2	PHASE 3	ANTICIPATED MILESTONES
<b>LNCB74 (ADC)</b> Co-development with 	B7-H4	Tumor Cells	<b>Breast, Ovarian, Endometrial</b>					<b>FIH Q1 2025</b>

## NOVEL APPROACH

Unique antibody linker strategy

Co-development partnership  
with LCB

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## PATIENT SELECTION STRATEGY

CLIA validated IHC  
biomarker assays

B7-H4 ADC

NextCure

LNCB74

Differentiated ADC



## DEEP EXPERTISE

Significant B7-H4 experience  
LCB's substantial ADC know-how

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## THERAPEUTIC POSITIONING

Improved safety and efficacy

# B7-H4 is the Next Target of Interest in Women's Cancer



NextCure, LegoChem\* join big-league rivals in antibody-drug conjugate race

\*Currently known as LigaChemBio

Journal of  
Clinical  
Oncology\*

Phase 1 study of SGN-B7H4V, a novel, investigational vedotin antibody–drug conjugate directed to B7-H4, in patients with advanced solid tumors (SGNB7H4V-001, trial in progress).

ANNALS of  
ONCOLOGY  
Official journal of the American Society of  
Clinical Oncology

381O First-in-human/phase I trial of HS-20089, a B7-H4 ADC, in patients with advanced solid tumors

Journal of  
Clinical  
Oncology\*

XMT-1660: A phase 1b trial of a B7-H4 targeted antibody drug conjugate (ADC) in breast, endometrial, and ovarian cancers.

ApexOnco  
OncologyPipeline

Pfizer shuffles its deck post-Seagen

The group's B7-H4-targeting bispecific is out, in favour of Seagen's ADC.

AACR  
American Association  
for Cancer Research

Abstract 2947: Preclinical evaluation of a novel B7-H4 targeted antibody-drug conjugate AZD8205 as a single agent and in combination with novel PARP inhibitor and checkpoint blockade

FIERCE  
Biotech

In 2nd big deal of the day, GSK inks \$1.4B pacy for Hansoh gynecology cancer asset

## Deep Expertise in B7-H4

The logo for NextCure, featuring the word "Next" in blue and "Cure" in black, with a blue circle containing a white dot above the "C".

- Extensive publications
- Expertise in expression
- Repertoire of models
- Top-tier KOL collaborative network
- Validated patient selection assay

The logo for LCB LigaChemBio, featuring a stylized orange and grey geometric shape to the left of the letters "LCB" in orange, with "LigaChemBio" in black below it.

- Co-development & cost-sharing
- Significant success advancing ADCs
- Differentiated linker technology



# LNCB74

## Initiation of Phase 1



### COMPLETED

- ✓ Potent pre-clinical activity *in vitro* and *in vivo*
- ✓ DRF & GLP tox studies – favorable safety and tolerability profile
- ✓ Favorable pre-IND feedback from FDA
- ✓ GMP manufacturing
- ✓ IND filing

### ONGOING

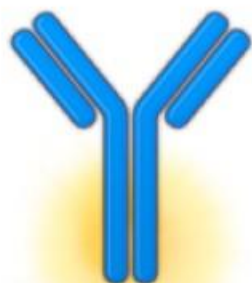
- Planning for Ph1 initiation



# LNCB74 Is an Anti-B7-H4 MMAE ADC

## STRUCTURAL DIFFERENTIATION

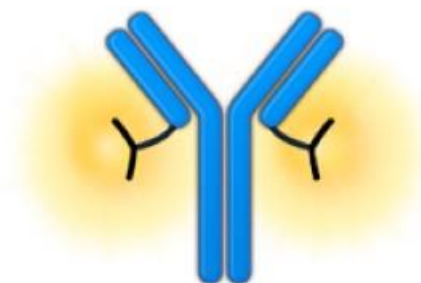
Antibody



### Fc Modification

Protects immune cells

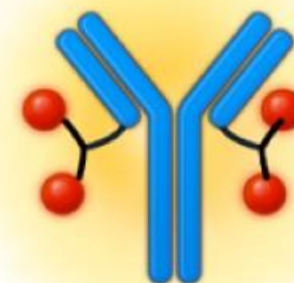
Linker



### Tumor Selectivity

Glucuronidase cleavable linker provides greater selectivity and specificity

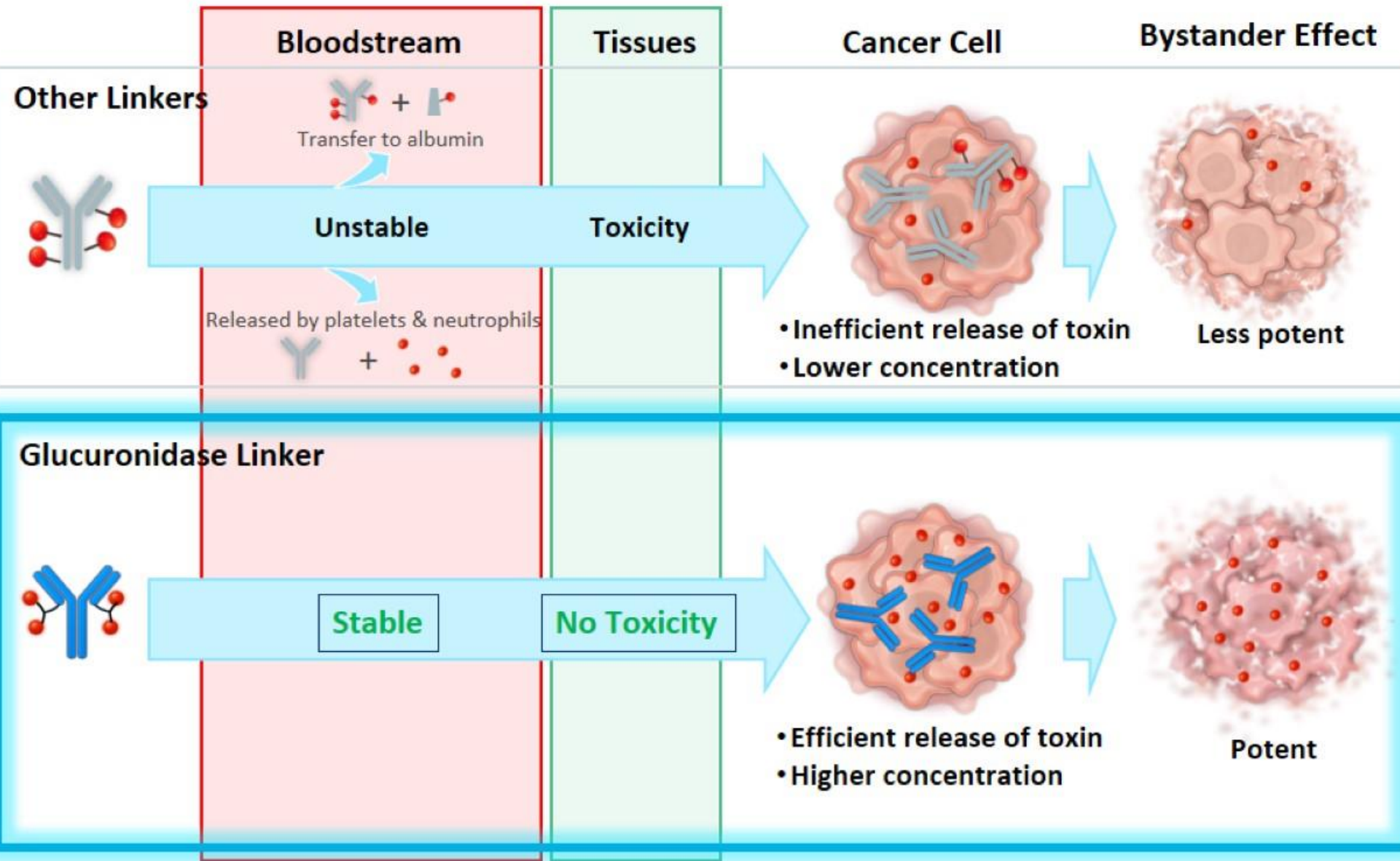
Payload



### MMAE DAR 4

Improves safety and control over how the payload is dispersed

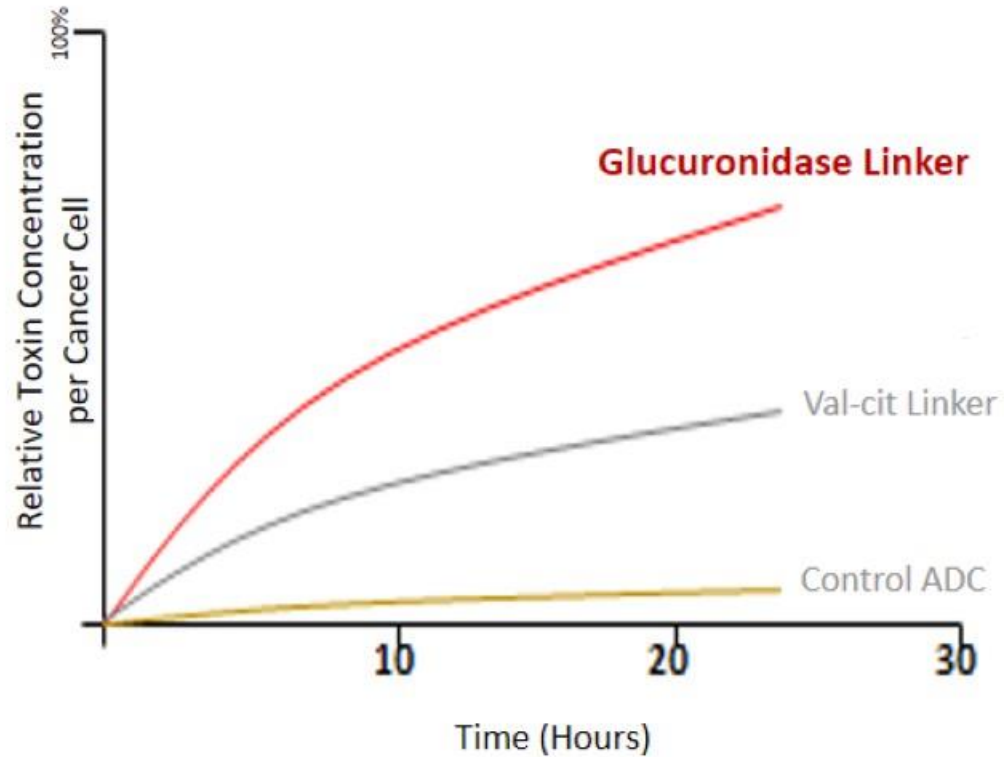
# LNCB74 Uses Differentiating Glucuronidase Linker for Potentially Improved Safety & Efficacy



Linker	Protease or esterase cleavable
Payload	Tubulin or Topo-1 inhibitors
Conjugation	Site Specific or cysteine
DAR	~4, 6, 8

Linker	Glucuronidase cleavable
Payload	Tubulin inhibitor
Conjugation	Site Specific
DAR	4

# Key Differentiating Features of Glucuronidase Linkers



## Glucuronidase Linker

- Site specific attachment to mAb
- Highly stable linkage
- Specifically cleaved in cancer cells
- Efficient release of payload
- Higher concentration of toxin per cancer cell

## Val-Cit Linker

- Non-specific attachment to mAb
- Unstable linkage
  - Prone to transferring to albumin
  - Increases toxicity
- Susceptible to cleavage by platelets and neutrophils, increasing toxicity
- Less efficient release of payload
- Lower concentration of toxin per cancer cell

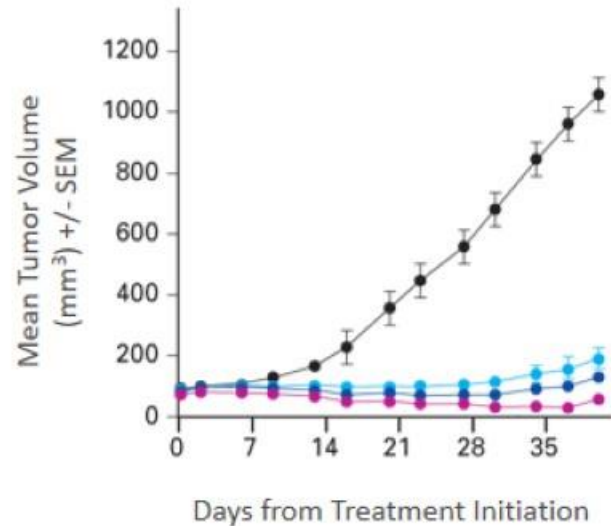
- Improved therapeutic index
- Higher efficacy
- Lower toxicity
- Less frequent dosing

# LNCB74 Shows Potent Anti-Tumor Activity in CDX and PDX Models

## CDX

### BREAST (ZR-75-1)

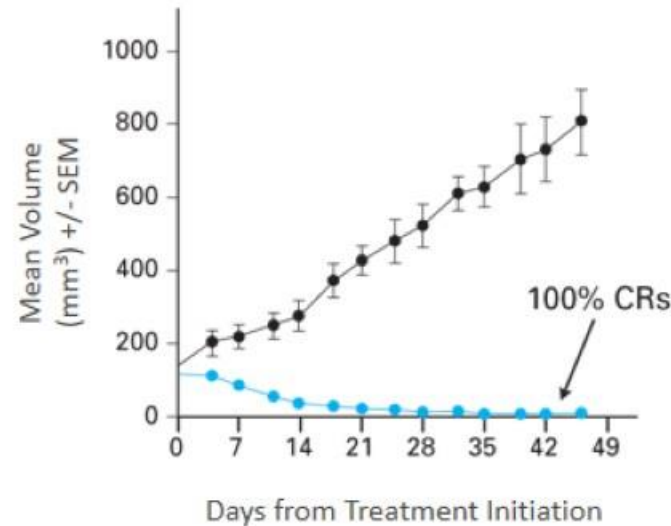
- Vehicle
- LNCB74 (3 mg/kg)
- LNCB74 (1 mg/kg)
- LNCB74 (6 mg/kg)



Q7D x 3

### OVARIAN (OVCAR-3-B7-H4-OE)

- No Treatment
- LNCB74 (6 mg/kg = 0.114 MMAE)

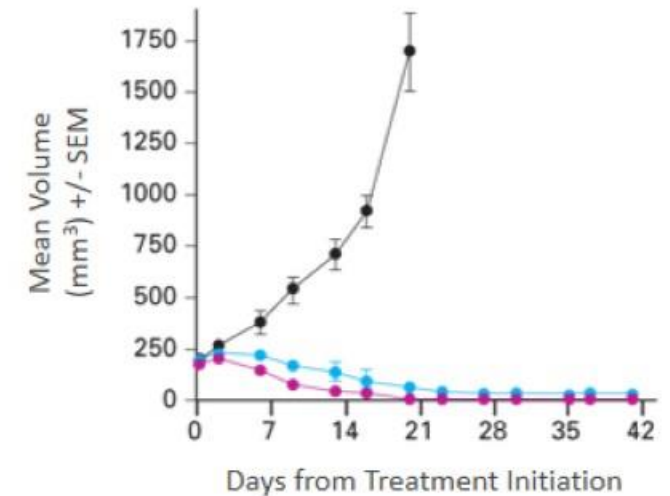


Single dose

## PDX

### TNBC (CTG-0012)

- No Treatment
- LNCB74 (1.5 mg/kg = 0.0275 MMAE)
- LNCB74 (4.5 mg/kg = 0.08 MMAE)

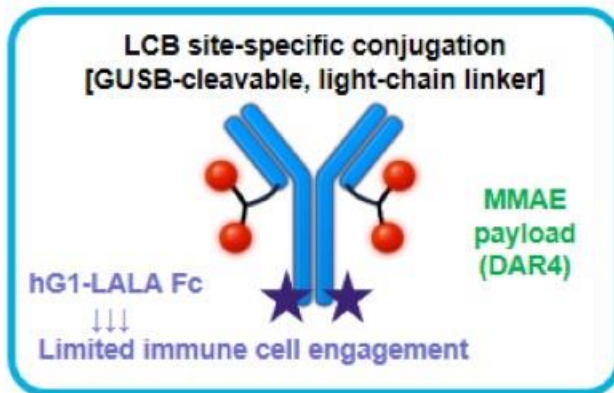


1.5 mg/kg: Q7D x 3  
4.5 mg/kg: single dose

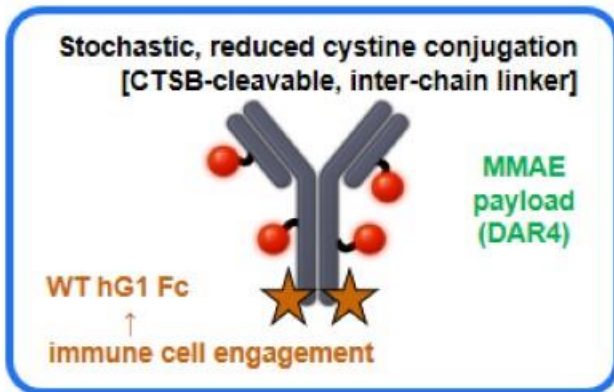
Dosing

# LNCB74 is More Effective than Comparator B7-H4-MMAE

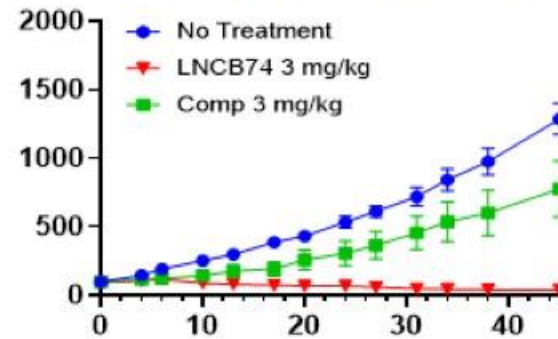
LNCB74  
(B7-H4 ADC)



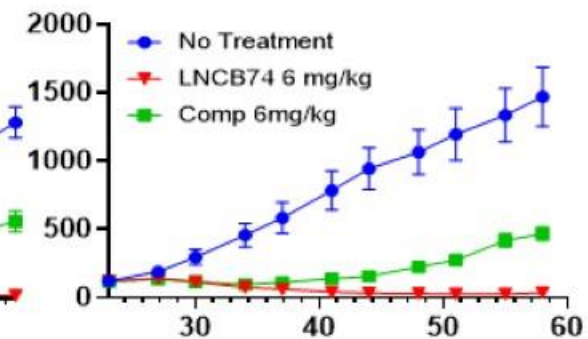
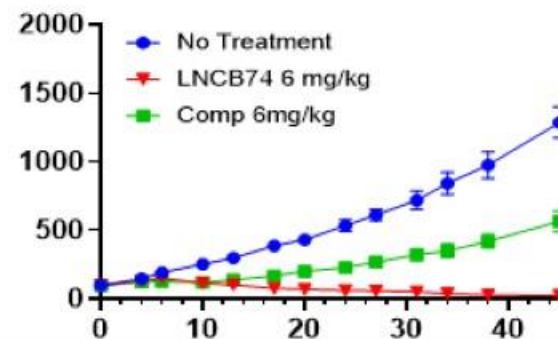
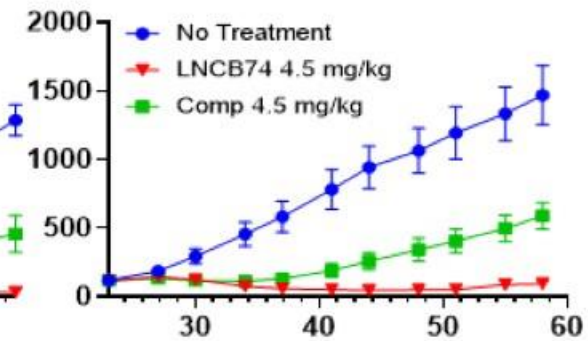
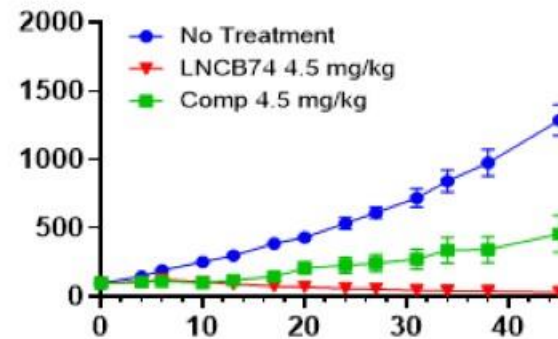
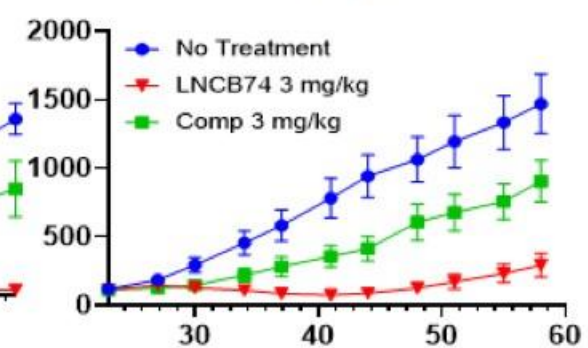
Comparator  
val-cit MMAE  
(B7-H4 ADC)









HCC1569 HER2+ BC



OVCAR3 OC



# B7-H4 is a Validated ADC Target

						
Key Features	LNCB74	SGN-B7H4V	XMT-1660	HS-20089	AZD8205	DB-1312 / BG-C9074
ADC Design	<ul style="list-style-type: none"> <li>B7-H4 mAb</li> <li>Glucuronidase cleavable linker</li> <li>Monomethyl Auristatin E (MMAE)</li> <li>DAR 4</li> </ul>	<ul style="list-style-type: none"> <li>B7-H4 mAb</li> <li>Val-Cit cleavable linker</li> <li>Monomethyl Auristatin E (MMAE)</li> <li>DAR ~4</li> </ul>	<ul style="list-style-type: none"> <li>B7-H4 mAb</li> <li>Protease cleavable linker</li> <li>Auristatin F-HPA (Dolasynthen)</li> <li>DAR 6</li> </ul>	<ul style="list-style-type: none"> <li>B7-H4 mAb</li> <li>Protease cleavable linker</li> <li>TOPO1 inhibitor (Exatecan)</li> <li>DAR 6</li> </ul>	<ul style="list-style-type: none"> <li>B7-H4 mAb</li> <li>Pegylated Val-Ala cleavable linker</li> <li>TOPO1 inhibitor (Proprietary)</li> <li>DAR 8</li> </ul>	<ul style="list-style-type: none"> <li>B7-H4 mAb</li> <li>GGFG cleavable linker</li> <li>Non-Pgp substrate payload</li> <li>DAR 6</li> </ul>
DLT	Safe and tolerable up to 10 mg/kg*	1.25 (N=1) or 1.5 mg/kg (N=2)	TBD	7.2 mg/kg (N=2)	3.2 mg/kg (N=2)	TBD
Common Aes	No major toxicity observed in NHPs	Neutropenia, Peripheral sensory neuropathy, Nausea, Fatigue, Anemia, Dyspnea, Hypotension, and Pneumonia	TBD	Leukopenia, Neutropenia, Nausea, Anemia, Vomiting, Fatigue, Thrombocytopenia, Increased ALT and AST, Anorexia, and Hyponatremia	Nausea, Neutropenia, Thrombocytopenia, Anemia and WBC decrease	TBD
RESPONSES	<ul style="list-style-type: none"> <li>IND Submitted Q4 2024</li> </ul>	<ul style="list-style-type: none"> <li>TNBC: 1 CR / 8 PR (N=42)*</li> <li>HR+/HER2- Breast: 5 PR (N=24)*</li> <li>Ovarian: 2 PR (N=15)</li> <li>Endometrial: 1 CR (N=16)</li> </ul>	<ul style="list-style-type: none"> <li>Dose escalation progressed to 115 mg/m<sup>2</sup> w/o MTD</li> <li>Anticipated Ph1 read out (safety, efficacy and biomarker analysis) – YE</li> <li>Expected initiation of TNBC expansion cohort in post topo-1 ADC patients – YE</li> </ul>	<ul style="list-style-type: none"> <li>TNBC: 6 PR (N=16)</li> <li>Ovarian: 2 PR (N=3)</li> </ul>	<ul style="list-style-type: none"> <li>Ovarian 3 PR (N=7)</li> <li>Breast 3 PR (N=17)</li> <li>Endometrial 3 PR (N=12)</li> </ul>	TBD

Data Source



\*Cyno tox study



\*Pfizer Oncology Innovation Day February 29, 2024



## GLP Tox and GMP Manufacturing Complete

### TOX STUDY

<b>Species</b>	Cynomolgus
<b>Dose Range</b>	4, 7 & 10 mg/kg Q3W, i.v.
<b>Evaluation</b>	Toxicology profiling, pathology, hematology, immunotoxicology
<b>Findings</b>	Favorable safety and tolerability profile

### GMP MANUFACTURING

- Master cell bank generated
- Process development complete
- Antibody manufactured
- Clinical supply ready



# LNCB74 Ph1 Monotherapy Study Plans



## DOSE ESCALATION

- 5 dose cohorts
- Regimen Q3W
- N=65 subjects



**Readout:** Scans every 6 weeks  
**Endpoint:** Safety

## DOSE EXPANSION

- 2 dose cohorts
- 2 tumor types
- N=80 subjects
- Pre-treatment & on study biopsies



**Readouts:** Scans every 6 weeks  
**Endpoints:** Safety and ORR



# Opportunity to Develop Differentiated B7-H4 ADC Therapeutic



**B7-H4 ADC**



**POTENTIAL FOR IMPROVED  
SAFETY & EFFICACY**

**UNMET NEED IN BREAST &  
GYNECOLOGICAL CANCERS**

**PATIENT SELECTION  
STRATEGY**

## Programs Available for Partnering

PROGRAMS	TARGET	CELLS	DISCOVERY	PRECLINICAL	PHASE 1	PHASE 2	PHASE 3
NC410 Combo	LAIR-2	Extracellular Matrix	Ovarian				
			Colorectal (CRC)				
NC525	LAIR-1	Leukemia	Acute Myeloid Leukemia				
NC605	S15	Osteoclasts	Osteogenesis Imperfecta				
NC181	APOE4	Microglia & Neurons	Alzheimer's Disease				

## Anticipated Milestones

### SIGNIFICANT OPPORTUNITY

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### 2024-2025 DELIVERABLES

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