



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
 - Favorable safety and tolerability profile in GLP tox study
-

DELIVERABLES

- Phase 1 dose escalation
 - Breast, endometrial and ovarian cancers
-

RUNWAY

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



 **Breast**
CANCER


 **Ovarian**
CANCER

 **Endometrial**
CANCER

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
LNCB74 (ADC) Co-development with  LCB LigachemBio	B7-H4	Tumor Cells	Breast, Ovarian, Endometrial				

NOVEL APPROACH

Unique antibody linker strategy
Co-development partnership
with LCB

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

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
the 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



NextCure

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



LCB
LigaChemBio

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

LNCB74 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

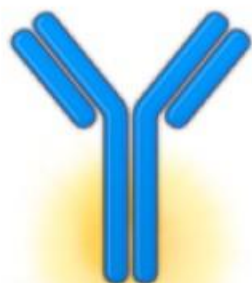
- Ph1 dose escalation



LNCB74 Is an Anti-B7-H4 MMAE ADC

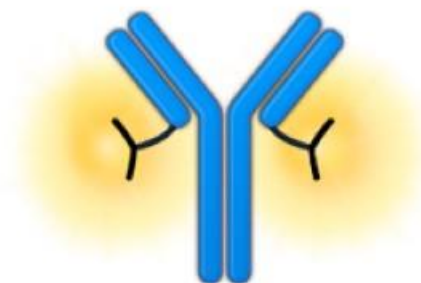
STRUCTURAL DIFFERENTIATION

Antibody



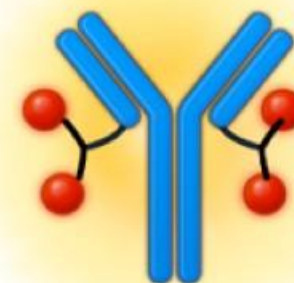
Fc Modification
Protects immune cells

Linker



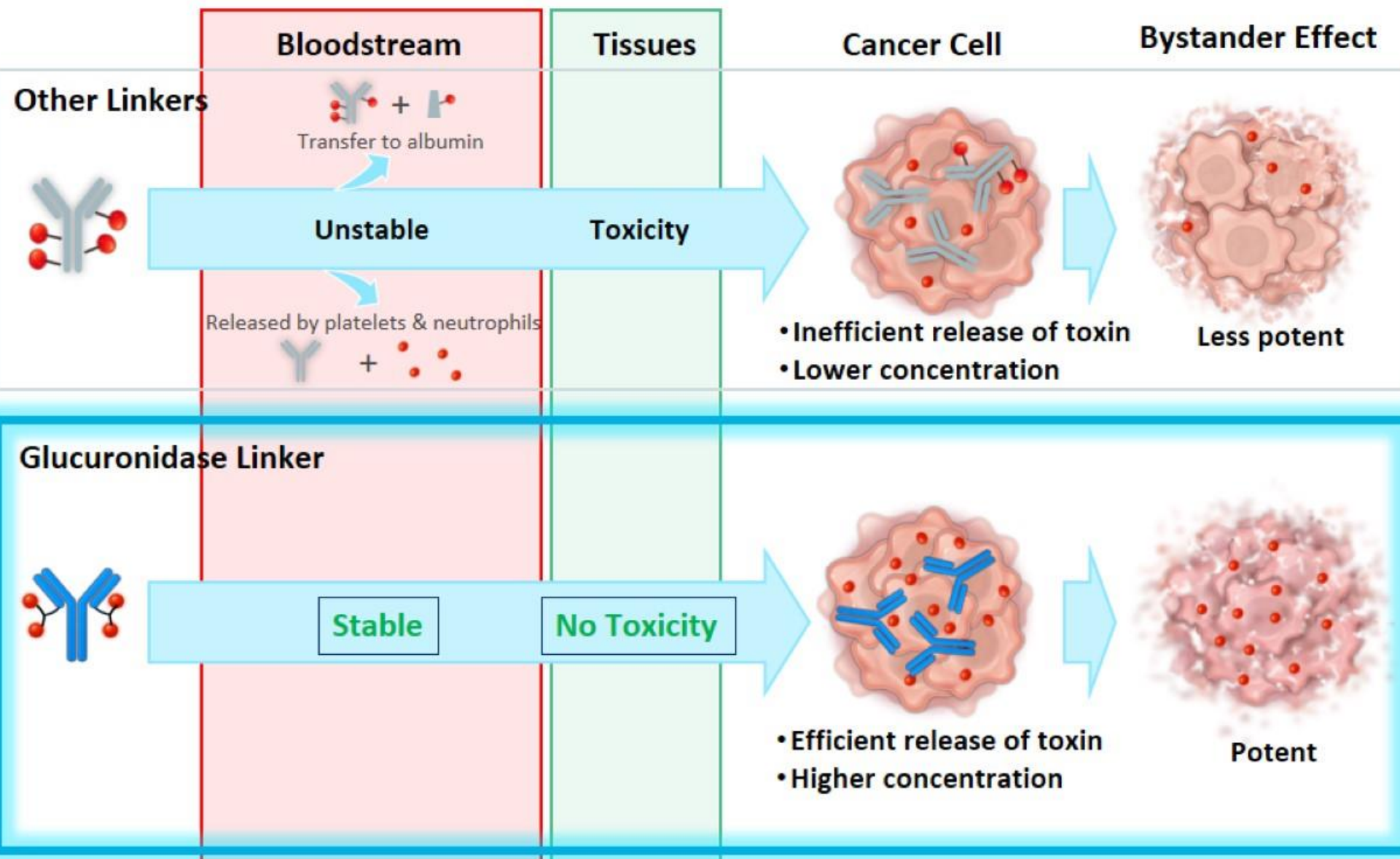
Tumor Selectivity
Glucuronidase cleavable linker
provides greater selectivity
and specificity

Payload



MMAE DAR 4
Improves safety and control
over how the payload
is dispersed

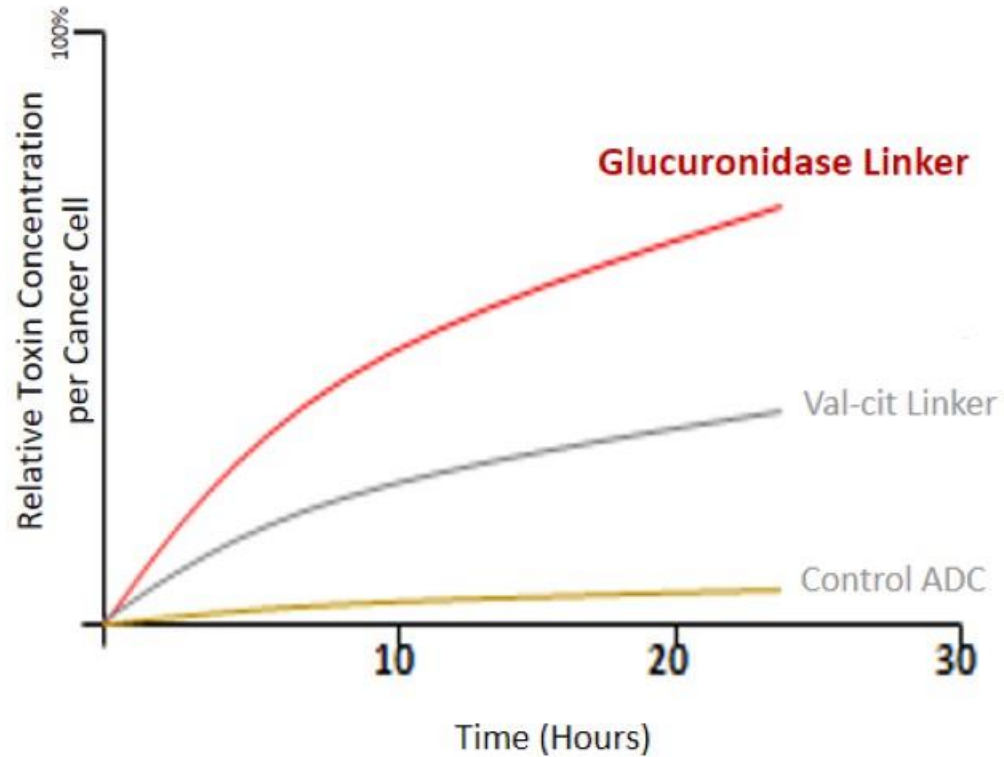
LNCB74 Uses Differentiating Glucuronidase Linker for Improved Safety & Increased Efficacy



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

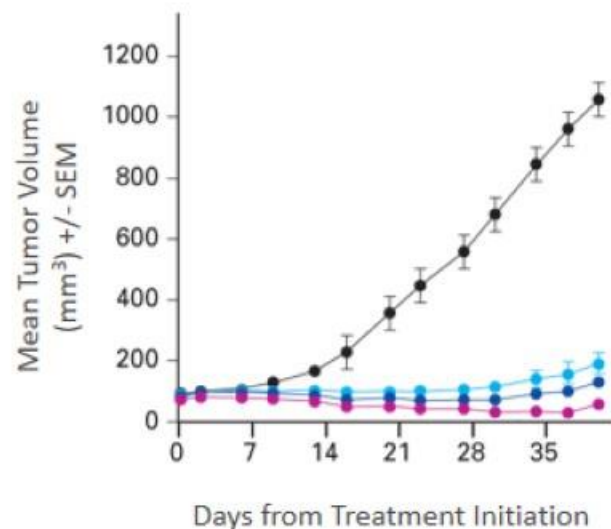
- Improved therapeutic index
- Increased efficacy
- Lower toxicity
- Less frequent dosing

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

CDX

BREAST (ZR-75-1)

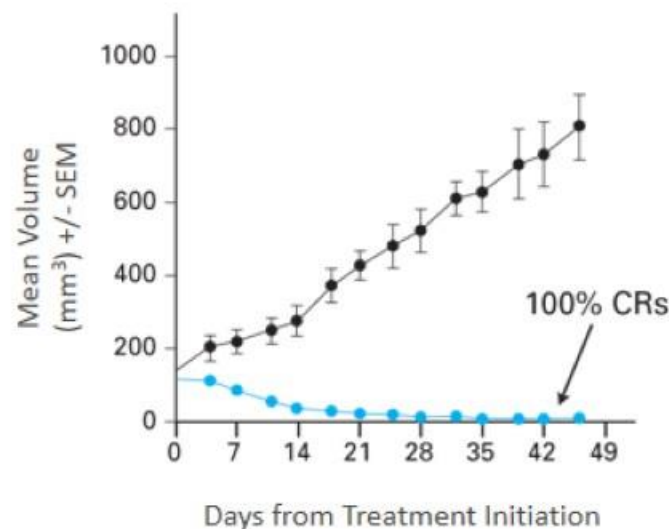
- Vehicle
- LNCB74 (3 mg/kg)
- LNCB74 (1 mg/kg)
- LNCB74 (6 mg/kg)



Q7D x 3

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

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

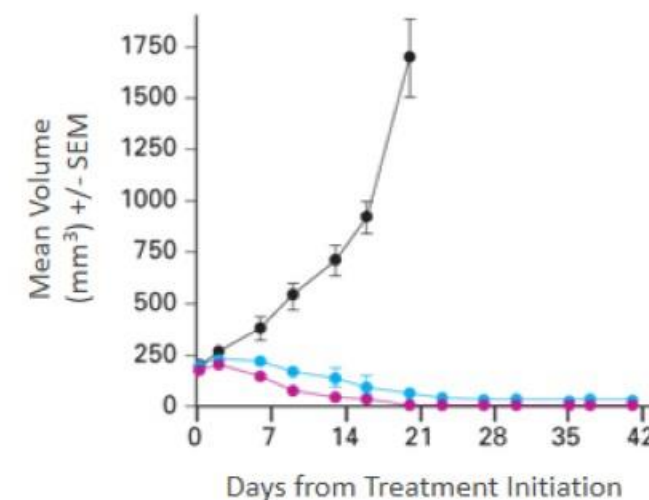


Single dose

PDX

TNBC (CTG-0012)

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

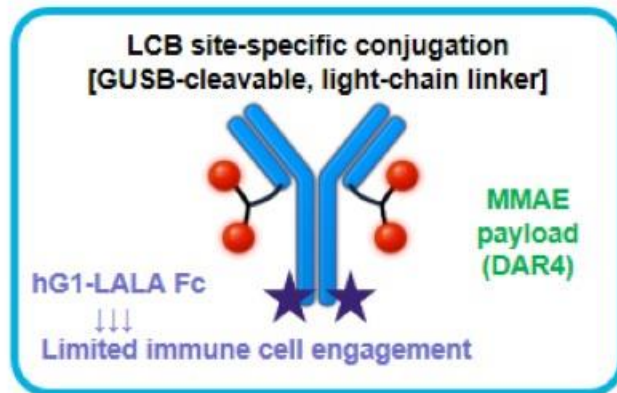


1.5 mg/kg: Q7D x 3
4.5 mg/kg: single dose

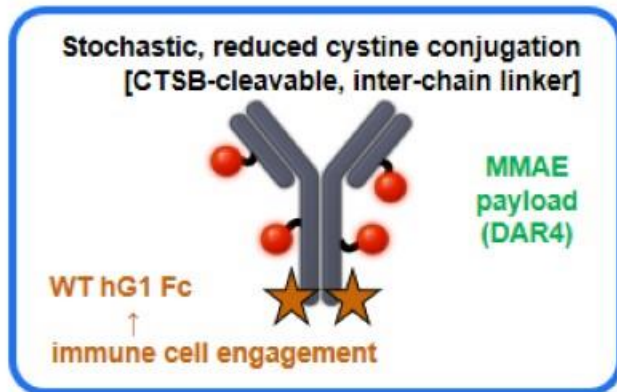
Dosing

LNCB74 is More Effective than Comparator B7-H4-MMAE

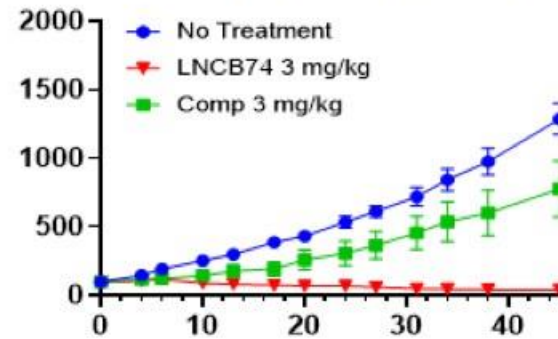
**LNCB74
(B7-H4 ADC)**



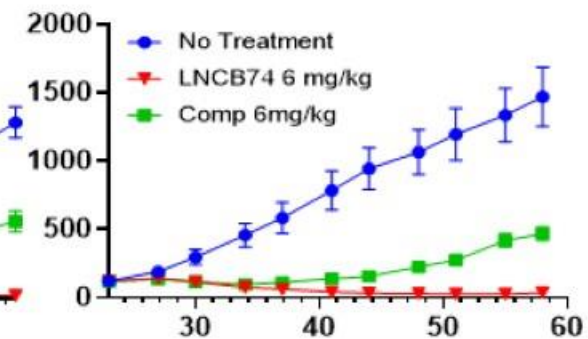
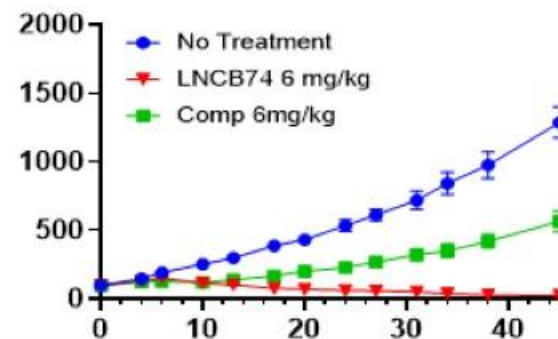
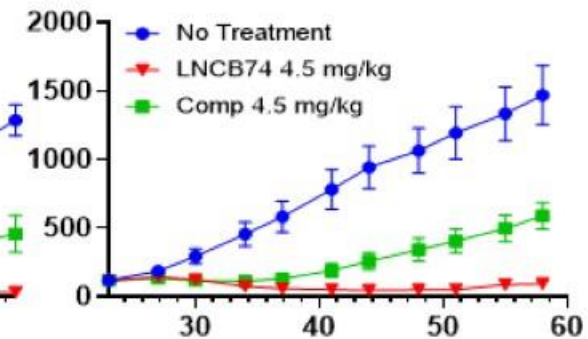
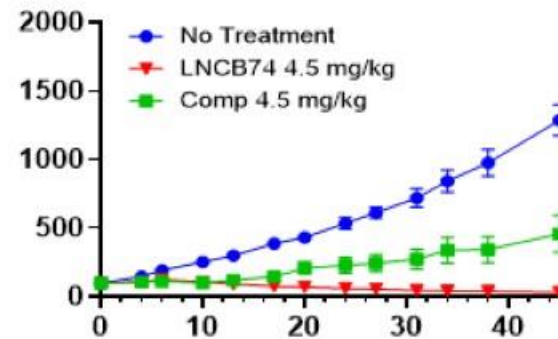
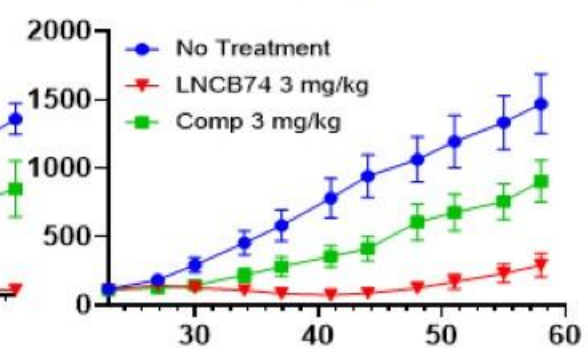
**Comparator
val-cit MMAE
(B7-H4 ADC)**









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"> B7-H4 mAb Glucuronidase cleavable linker Monomethyl Auristatin E (MMAE) DAR 4 	<ul style="list-style-type: none"> B7-H4 mAb Val-Cit cleavable linker Monomethyl Auristatin E (MMAE) DAR ~4 	<ul style="list-style-type: none"> B7-H4 mAb Protease cleavable linker Auristatin F-HPA (Dolasynthen) DAR 6 	<ul style="list-style-type: none"> B7-H4 mAb Protease cleavable linker TOPO1 inhibitor (Exatecan) DAR 6 	<ul style="list-style-type: none"> B7-H4 mAb Pegylated Val-Ala cleavable linker TOPO1 inhibitor (Proprietary) DAR 8 	<ul style="list-style-type: none"> B7-H4 mAb GGFG cleavable linker Non-Pgp substrate payload DAR 6
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"> Ph1 study initiated Q1 2025 	<ul style="list-style-type: none"> TNBC: 1 CR / 8 PR (N=42)* HR+/HER2- Breast: 5 PR (N=24)* Ovarian: 2 PR (N=15) Endometrial: 1 CR (N=16) 	<ul style="list-style-type: none"> Dose escalation progressed to 115 mg/m² w/o MTD Anticipated Ph1 read out (safety, efficacy and biomarker analysis) Expected initiation of TNBC expansion cohort in post topo-1 ADC patients 	<ul style="list-style-type: none"> TNBC: 6 PR (N=16) Ovarian: 2 PR (N=3) 	<ul style="list-style-type: none"> Ovarian 3 PR (N=7) Breast 3 PR (N=17) Endometrial 3 PR (N=12) 	TBD

Data Source 

*Cyno tox study



*Pfizer Oncology Innovation Day February 29, 2024





GLP Tox and GMP Manufacturing Complete

TOX STUDY

Species	Cynomolgus
Dose Range	4, 7 & 10 mg/kg Q3W, i.v.
Evaluation	Toxicology profiling, pathology, hematology, immunotoxicology
Findings	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

- 4 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



**IMPROVED SAFETY &
INCREASED 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				

B7-H4 ADC Opportunity

VALUE DRIVERS

- De-risked approach against a clinically validated target
 - Differentiated linker for improved safety and increased therapeutic index and efficacy
 - Breast, ovarian and endometrial cancers continue to have significant unmet need
-

DELIVERABLES

- Phase 1 dose escalation