Clinical Stage CAR-T for AL Amyloidosis and Select Immune-Mediated Diseases

February 2025



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Immix Biopharma Highlights



NXC-201: The only CAR-T in development for AL amyloidosis

- NXC-201 could transform the treatment of Relapsed/Refractory AL amyloidosis where no drugs are FDA approved today (~33,000 existing US patients, \$3bn market);
- Ex-US study: 75% (12/16) Complete response (CR) rate in Relapsed/Refractory AL Amyloidosis
- <u>US</u> study: potentially pivotal; initial data in four patients consistent with Ex-US results (announced Dec 2024)
- Current standard-of-care CR rates as low as 3-20% in Relapsed/Refractory AL Amyloidosis

Sterically-optimized, proprietary CAR-T construct

- N-GENIUS platform produced NXC-201, our lead, sterically-optimized CAR-T
- NXC-201 CART construct provides barrier to entry: 3 key CAR modifications drive unique clinical profile -CD3ζγ, CD8 hinge, COBRA binder
- NXC-201 engineered specifically to solve for CAR-T tolerability (cytokine release syndrome, neurotoxicity)

Clinical profile ideal for select immune-mediated diseases

- Established clinical profile across large 129 patient dataset dosed with NXC-201: well-suited to treat select immune-mediated diseases
- In low volume diseases: no neurotoxicity; ~1-2 day cytokine release syndrome (CRS) duration

Significant Near-Term Milestones



Upcoming Milestones	Anticipated Timing
Next NXC-201 Program Update	1H 2025
Report interim clinical data readout for NEXICART-2 trial in AL Amyloidosis	2Q/3Q 2025
Report NXC-201 interim clinical data in unaddressed immune-mediated diseases	4Q 2025
Report final topline clinical data readout for NEXICART-2 trial in AL Amyloidosis	2Q/3Q 2026



Completed							
NASDAQ IPO 2021		⊘					
Formed Cell Therapy R&D ta	askforce in 2022	⊘					
	Secured global commercial rights for NXC- 201 from Hadassah/Bar-Ilan in 2022						
Reported	ASGCT 2023	⊘					
NEXICART-1 AL Amyloidosis	ASH 2023	⊘					
interim clinical data at:	ASGCT 2024						
	2024 / ASH 2024						
Dosed first US patient in NE Amyloidosis clinical trial	Met mid '24 guidance						
Reported NEXICART-2 AL Ar clinical data	Met 4Q 2024 guidance						



Pipeline: Only CAR-T in AL Amyloidosis; Tailor-Made for select Immune-Mediated Diseases

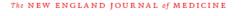


Lead Program: NXC-201, a next-generation BCMA-targeting CAR-T for AL Amyloidosis and select immune-mediated diseases

Indication	Therapy	Pre-clinical	Phase 1	Phase 2	Upcoming Milestones
Relapsed/Refractory AL Amyloidosis	NXC-201	US FDA and EU EC Orphan Drug Do	esignation (ODD)		2Q/3Q 2025: Report interim clinical data readout for NEXICART-2 trial in AL Amyloidosis 2Q/3Q 2026: Report final topline clinical data readout for NEXICART-2 trial in AL Amyloidosis
Undisclosed select Immune-Mediated Diseases	NXC-201	IND enabled			4Q 2025: Report NXC-201 interim clinical data in unaddressed immune-mediated diseases
Other Emerging Pip	eline				
Preclinical Candidates	Not yet announced				

NXC-201 Referenced in June 2024 New England Journal of Medicine Publication





REVIEW ARTICLE

Dan L. Longo, M.D., Editor

Systemic Light Chain Amyloidosis

Vaishali Sanchorawala, M.D.

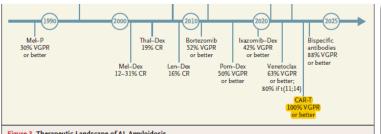


Figure 3. Therapeutic Landscape of AL Amyloidosis.

The therapeutic landscape of AL amyloidosis has seen substantial expansion in the past three decades. The majority of treatment regimens are adapted from myeloma therapies, with a focus on targeting the underlying plasma cell clone. Hematologic response has improved significantly with more effective and contemporary treatments, contributing to an overall increase in survival and a reduction in the rate of early death. CAR-T denotes chimeric antigen receptor T-cell therapy, CR complete hematologic response. CTD cyclophosphamide—thalidomide—dexamethasone, CyBorD cyclophosphamide-bortezomib-dexamethasone, HDM-SCT high-dose melphalan and stem-cell transplantation, Ixazomib—Dex ixazomib—dexamethasone, Len—Dex lenalidomide—dexamethasone, Mel—Dex melphalan dexamethasone, Mel-P melphalan-prednisone, Pom-Dex pomalidomide-dexamethasone, Thal-Dex thalidomidedexamethasone, and VGPR very good partial hematologic response.

tory AL amyloidosis; a multinational retrospective case series. Blood 2024:143: 734-7.

86. Kfir-Erenfeld S. Asherie N. Grisariu S. et al. Feasibility of a novel academic ECMA-CART (HBI0101) for the treatment of relapsed and refractory AL amyloidosis. Clin Cancer Res 2022;28:5156-66.

87. Nuvolone M, Nevone A, Merlini G. Targeting amyloid fibrils by passive immunotherapy in systemic amyloidosis.

Footer Sanchorawala et al. Systemic Light Chain Amyloidosis. New England Journal of Medicine. June 2024.

TREATMENT OF RELAPSE AND PROGRESSION AFTER

No consensus has been established on the crite-

ria for commencing second-line therapy in patients with progressive disease after initial therapy.73,74 Patients with relapsed disease can be treated by repeating first-line therapy if the re-

sponse lasted for more than a year, although

such patients have a shorter time to relapse with-

out a reduction in overall survival than patients

who are treated with a different therapy for re-

The potential options available for the treat-

ment of relapsed systemic AL amyloidosis include

proteasome inhibitors,75,76 anti-CD-38 monoclo-

nal antibodies,77,78 immunomodulatory agents,79

venetoclax for patients with t(11;14),80 bendamus-

tine,81 high-dose melphalan with autologous

SCT, 82,83 bispecific antibodies, 84,85 and even chime-

ric antigen receptor T-cell therapy.86 Although it is

not possible to be prescriptive regarding the se-

quencing of therapies, the two guiding consider-

ations are the depth and duration of the initial

response and the choice of a class of agents not

previously used. The limitations imposed by a

patient's reduced level of fitness or frailty and

end-organ damage must also be considered. En-

rollment in clinical trials is encouraged.

INITIAL THERAPY

lapsed disease.

World-Class Team



Management

Board of Directors

Scientific Advisory Board







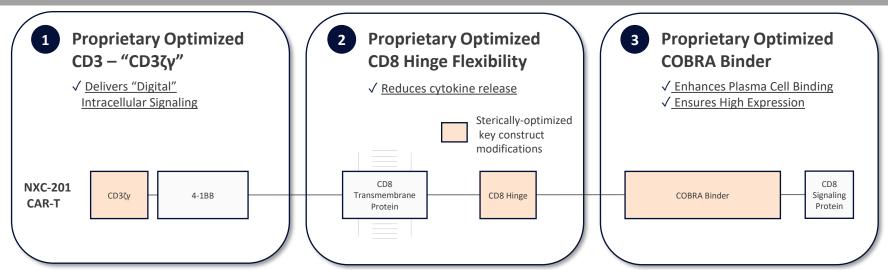
N-GENIUS Platform: Sterically-Optimized CAR-T Construct Drives Differentiated NXC-201 Clinical Profile



ALL BCMA CAR-TS ARE NOT CREATED EQUAL

N-GENIUS PLATFORM

Our CAR-T is differentiated based on 3 Key Construct Modifications



Immix's proprietary N-GENIUS Platform can overcome the inherent limitations of conventional CAR-T methodologies that lack the sterically-optimized CD3ζγ ("Digital" Signaling), CD8 hinge flexibility, and COBRA binder, which drive NXC-201's greatly reduced neurotoxicity, minimized CRS duration, and enhanced efficacy in heavily pretreated patients

"Single amino acid substitutions at key sites can affect CAR-T function over 200-fold range"



Proprietary Sterically-Optimized CD3ζ + CD8 Delivers "Digital" Intracellular Signaling, Eliminates Neurotoxicity, Reduces CRS Duration



CD3ζ

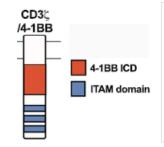
CARs rely on activation of CAR-T cells through CD3 ζ derived immunoreceptor tyrosine-based activation motifs (ITAMs), typically 3 ITAM motifs per CAR

NXC-201 adds a positively charged amino acid (lysine) next to a tyrosine phosphorylation site, therefore:

- ✓ Impeding phosphorylation of ITAM1 (by affecting protein folding dynamics which block the tyrosine site), thus reducing intracellular reactivity
- √ Adding an additional site for ubiquitination, allowing the CAR to be marked for degradation more rapidly that a traditional CAR

The combined effect of these modifications is to drive a "digital" signaling of extracellular activity, that is on when antigen is present and off when not

Modification of ITAMs is a common theme in third-generation CAR design, with publications in Nature Medicine and by Memorial Sloan Kettering on the topic



nature Signal Transduction and Targeted Therapy

"In activated T cells, the CD3ζ chain gets ubiquitinated by CBLB at its multiple lysine residues and induces degradation of surface TCRs"

doi: 10.1038/s41392-021-00823-w





Memorial Sloan Kettering Cancer Center

"We hypothesized that the redundancy of CD28 and CD3 ζ signaling in a chimeric antigen receptor (CAR) design incorporating all three CD3 ζ immunoreceptor tyrosine-based activation motifs (ITAMs)11,13 may foster counterproductive T cell differentiation and exhaustion. Therefore, we calibrated ITAM activity by mutating tyrosine residues to impede their phosphorylation and downstream signaling"

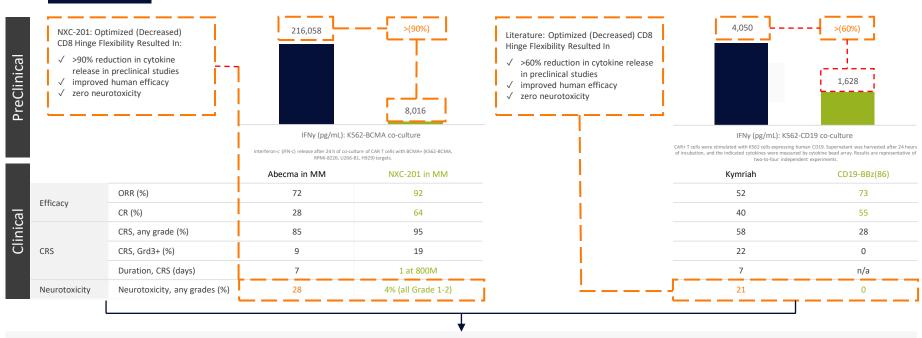
doi: 10.1038/s41591-018-0290-5

2

Proprietary Sterically-Optimized CD3ζ + CD8 Delivers "Digital" Intracellular Signaling, Eliminates Neurotoxicity, Reduces CRS Duration







Sterically-optimized (Decreased) CD8 Hinge Flexibility Results in Zero Neurotoxicity, Improved Human Efficacy, and reduction in CRS duration

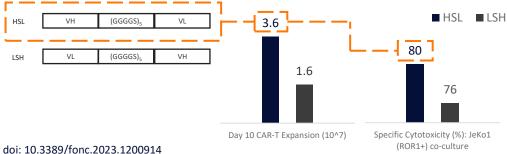


Sterically-Optimized COBRA Binder Ensures High Expression And Binding Affinity



COBRA Binder

COBRA Binder Leads with Heavy Chain



doi: 10.3389/10ftc.2023.1200914

Proven Linker of Heavy and Light Chain Employed

Biomarker Research

"Glycine (Gly) and serine (Ser) residues provide the flexibility necessary for antigen-binding sites to change conformation and maintain good stability in aqueous solutions... prevent[ing] formation of secondary structures and reduc[ing] likelihood of the linker interfering with the folding and function of the scFv"

September 19, 2022

doi: 10.1186/s40364-022-00417-w

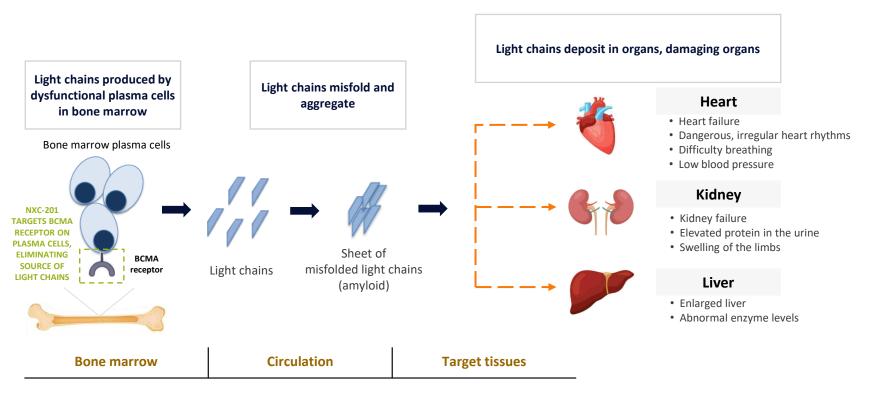
NXC-201 COBRA Binder: Heavy Chain – Proven Linker – Light Chain Configuration, enabling:

- ✓ Rapid, Sustained CAR-T Expansion
- ✓ Improved Cytotoxicity in the presence of antigen

AL Amyloidosis: ~33,000 Relapsed/Refractory U.S. Patients with No FDA Approved Drugs



NXC-201 TARGETS AL AMYLOIDOSIS PLASMA CELLS THAT EXPRESS BCMA ON CELL SURFACE



Source: Merlini, G., et al. Nat Rev Dis Primers. Ort 2018, Front. Cardiovasc. Med., Dec. 2022, Hemato 2022, 3(1), 47-82; https://doi.org/10.3390/hemato301005. Quock TP, Yan T, Chang E, Guthrie S, Broder MS. Epidemiology of AL amyloidosis: a real-world study using US claims data. Blood Adv. 2018 May 22;2(10):1046-1053. doi: 10.1182/bloodadvances.2018016402. PMID: 29748430; PMCID PMCID: 9748430; PMCID:

NXC-201 Addresses Sizable U.S. Relapsed/Refractory AL Amyloidosis Patient Population (1/2)

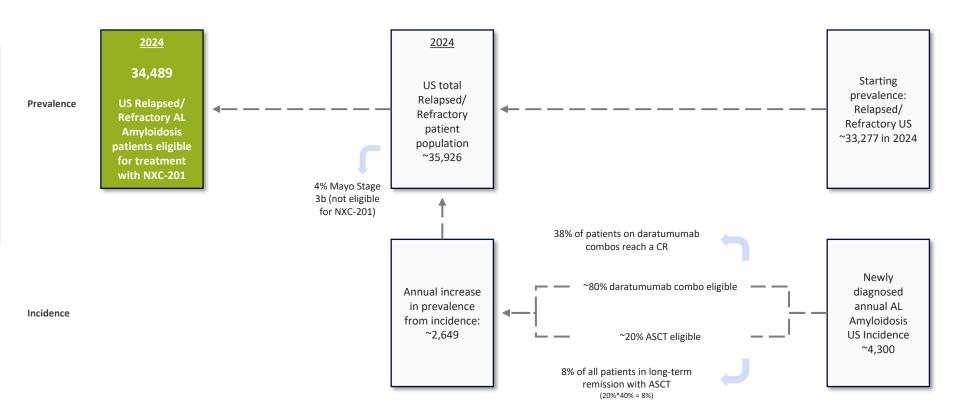




Note: Public information development plans as of 2023. Dara-CyPort: Daratumumab, Bortezomib + cytophosphamide - deamethasone. BMD: Daratumumab, Bortezomib + cytophosphamide - deamethasone. Source: Dima D, et al. Diagnostic and Treatment Strategies for AL Amyloidosis in an Era of Therapeutic Innovation. LOO Oncol Pract. 2023; Immenez-Zepeda VH, et al. Understanding real-world treatment and include discinsion in Lamyloidosis patents diagnosed in Lamyloidosis patents diagnosed in Lamyloidosis patents diagnosed in Lamyloidosis current approach and future direction. Oncoctagers, 2023; Kumar S, et al. Bevieted prognostics strate in Lamyloidosis in maximum risk elight chain amyloidosis in maximum risk elight risk el

NXC-201 Addresses Sizable U.S. Relapsed/Refractory AL Amyloidosis Patient Population (2/2)





Source: Incidence and prevalence: Quock T et al, Epidemiology of AL amyloidosis: a real-world study using US claims data. Blood 2018. Incidence growth rate: Laires P et al, Prevalence, Incidence, and Characterization of UGHT Chain Amyloidosis in the USA: A Real-World Analysis Utilizing Electronic Health Records (EHR). Blood 2023. Daratumumab: Bellofiore C, et al. A real-life study of daratumumab combinations in newly diagnosed patients with light chain (AL) amyloidosis: safety run-in results of ANDROMEDA. Blood. 2027. Bload in Cart. Bornszyl; et al, Record and amyloidosis safety run-in results of ANDROMEDA. Blood. 2027. Bload in Cart. Bornszyl; et al, Record and amyloidosis safety run-in results of ANDROMEDA. Blood. 2027. Algoration and amyloidosis safety run-in results of ANDROMEDA. Blood. 2027. Algoration and amyloidosis safety run-in results of ANDROMEDA. Blood. 2027. Algoration and amyloidosis safety run-in results of ANDROMEDA. Blood. 2027. Algoration and amyloidosis safety run-in results of ANDROMEDA. Blood. 2027. Algoration and amyloidosis safety run-in results of ANDROMEDA. Blood. 2027. Algoration and amyloidosis safety run-in results of ANDROMEDA. Blood. 2027. Algoration and amyloidosis safety run-in results of ANDROMEDA. Blood. 2027. Algoration and amyloidosis safety run-in results of ANDROMEDA. Blood. 2027. Algoration and amyloidosis safety run-in results of ANDROMEDA. Blood. 2027. Algoration and amyloidosis safety run-in results of ANDROMEDA. Blood. 2027. Algoration and amyloidosis safety run-in results of ANDROMEDA. Blood. 2027. Algoration and amyloidosis safety run-in results of ANDROMEDA. Blood. 2027. Algoration and amyloidosis safety run-in results of ANDROMEDA. Blood. 2027. Algoration and amyloidosis safety run-in results of ANDROMEDA. Blood. 2027. Algoration and amyloidosis safety run-in results of ANDROMEDA. Blood. 2027. Algoration and amyloidosis safety run-in results of ANDROMEDA. Blood. 2027. Algoration and amyloidosis safety run-in results of ANDROMEDA. Blood. 2027. Algoration and amyloid

NXC-201 May Be a Curative Treatment for AL Amyloidosis

ALL BCMA CAR-TS ARE NOT CREATED EQUAL

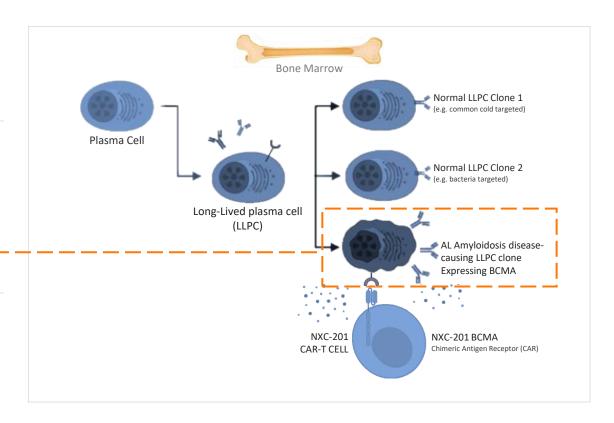


AL amyloidosis is caused by dysfunctional plasma cells that can live for years, continuously producing toxic, misfolded amyloid light chain antibody fragments

AL Amyloidosis disease-causing plasma cells:

- Are a minority of total plasma cells
- Are 1 of thousands of antibody-specific plasma cells, each of which produces 1 antibody, specific to 1 target (e.g. common flu, cold, a type of bacteria...)
- · Are eliminated by NXC-201 treatment

Then healthy plasma cells regenerate in the months after NXC-201 treatment, potentially preventing disease relapse



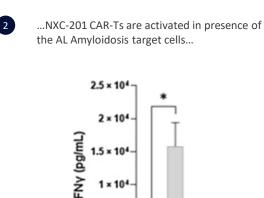
NXC-201 Designed for High Activity Against Disease-causing AL Amyloidosis Plasma Cells



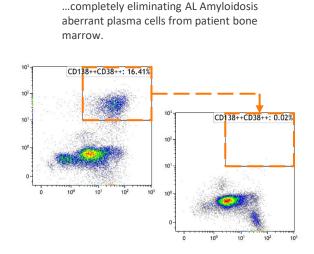


a) <u>Uneven</u> BCMA expression and b) <u>frail patient condition</u> has historically prevented conventional, approved CAR-T use in AL Amyloidosis NXC-201 was designed and tested for human AL Amyloidosis treatment, with preclinical testing revealing that:

BCMA is expressed in 18 AL Amyloidosis patients at a low-medium level...



5 x 103



NXC-201's uniquely favorable tolerability profile (no neurotoxicity + "Single-day CRS") combined with proven preclinical and clinical efficacy make NXC-201 uniquely suited to treat AL Amyloidosis.

NXC-201 N-GENIUS Platform "Single-Day CRS" Drives AL Amyloidosis Leadership

IMM X BIOPHARMA

ALL BCMA CAR-TS ARE NOT CREATED EQUAL

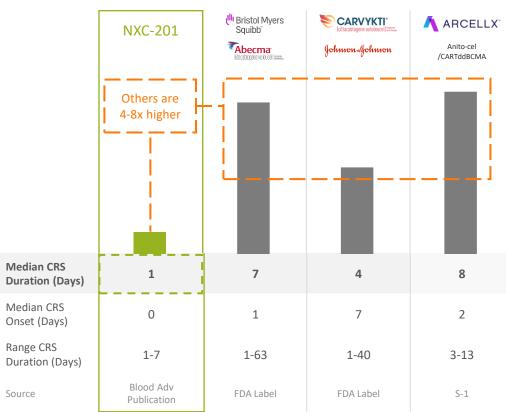
NXC-201's short CRS duration makes it **uniquely suitable to treat ALA patients** (in whom the #1 source of mortality is heart failure)

Cardiovascular stress is the key determinant for ability to treat relapsed/refractory ALA patients

- Long CRS duration causes extended cardiovascular stress
- Other CARTs have 4-8x longer CRS duration

"The biggest challenge ... has been applicability of these therapies in amyloidosis when the patients are particularly frail and have organ dysfunction ... where the key lies in the safety rather the efficacy in a low-volume disease setting is going to be key ... "

Dr. Susan Bal, MD
 Assistant Professor, Hematology
 University of Alabama at Birmingham



Source: M. Assayag, et al. Point-of-care CART manufacture and delivery for the treatment of multiple myeloma and AL amyloidosis; the experience of Hadassah Medical Center. European Society for Blood and Marrow Transplantation 49th Annual Meeting. Poster Presentation. April 2023. Nov 2023 KOL discussion https://lifescievents.com/event/immibbio/NXC-201 (formerly H8I0101) American Society of Hematology Presentation, Abecma FDA approval label, Carvykit FDA approval label, Carvyki

Data in Multiple Myeloma

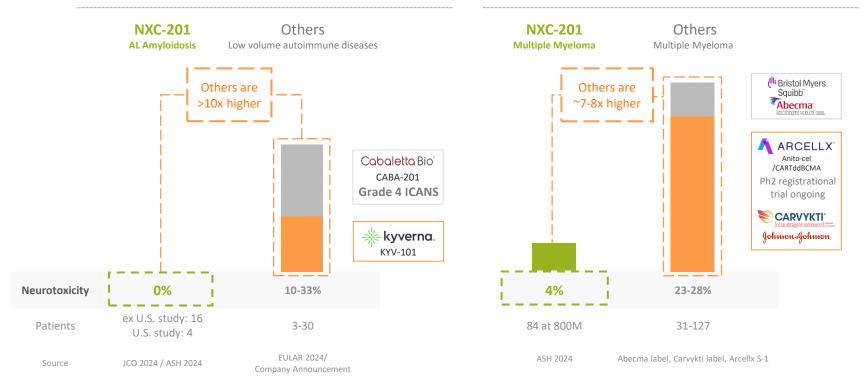
Overcoming Neurotoxicity

ALL BCMA CAR-TS ARE NOT CREATED EQUAL



LOW VOLUME DISEASE

HIGH VOLUME DISEASE



Source: Carrykti and Aberton FDA labels, Arreity S-1. Assayage, 14. Academic BCMA-CART cells (HBB1011), a promising approach for the treatment of LC Amyloidosis. 27th Annual Meeting, Cell Therapy (ASGCT). Late Breaking Cnal Presentation. Baltimore, MD. May, 2024 Assayage, N., et al. European Society for Blood and Marrow Transplantation 49th Annual Meeting, Lebel E, et al. Efficacy and Safety of a Locally Produced Novel Anti-BCMA Chimeric Antigen Receptor T-Cell (CART) (HB0101) for the Treatment of Relapzed and Refractory Multiple Nyeloma, International Myeloma Society 20th Annual Meeting, 2023. Differences exist between trivials and subject characteristics, and caution should be exercised when comparing data across studies and subject characteristics, and caution should be exercised when comparing data across studies and subject characteristics, and caution should be exercised when comparing data across studies and subject characteristics, and caution should be exercised when comparing data across studies and subject characteristics, and caution should be exercised when comparing data across studies, Representation lawy of the Cartific Amount of the Cart

U.S. NEXICART-2 Trial Designed Based on ex-US NEXICART-1 Trial Experience



NXC-201 clinical data indicate that R/R Amyloidosis patients with preserved heart function are more likely to benefit from treatment

Relapsed/Refractory AL Amyloidosis NXC-201 trial	Allows pre-existing severe cardiac patient enrollment?	Allows patients with prior BCMA-targeted therapy exposure?	Allows patients with concomitant Multiple Myeloma?
NEXICART-1: ongoing Israel trial	X Yes	X Yes	X Yes
NEXICART-2: ongoing US trial	√No	✓ No	√ No

NEXICART-2: 40 patient, single-arm, multi-site, US trial → submit data to FDA

NEXICART-2: <u>US</u>

CAR-T NXC-201 Clinical Trial



NEXICART-2 U.S. Relapsed/Refractory AL Amyloidosis Trial (NCT06097832)

NEXICART-2 NXC-201 TRIAL INITIATED IN MID-2024



Study design

- Open-label, single-arm Phase 1b/2 study
- n=40 patients (majority of which expected to be enrolled in Phase 2 portion)

Key criteria

Inclusion

 AL Amyloidosis patients exposed to at least 1 line of therapy including a CD38 monoclonal antibody

Evelucion

- Prior anti-BCMA directed therapy
- Cardiac: Mayo stage 3b, NYHA stage III/IV
- · Concomitant Multiple Myeloma

Outcome measures

- Phase 1b:
- Safety
- Efficacy: Complete Response according to consensus recommendations in AL amyloidosis
- Phase 2:
 - Efficacy: Complete Response according to consensus recommendations in AL amyloidosis
- Safety

Status

Lead site Memorial Sloan Kettering and other US sites started mid-2024



*Dosing informed by NEXICART-1 Israel trial in which Complete Responses in light chain Amyloidosis were observed at all dose levels: 150M, 450M

Relapsed/Refractory AL Amyloidosis NXC-201 trial	Allows pre-existing severe cardiac patient enrollment?	Allows patients with prior BCMA-targeted therapy exposure?	Allows patients with concomitant Multiple Myeloma?
NEXICART-1: ongoing Israel trial	XYes	XYes	X Yes
NEXICART-2: ongoing US trial	√No	✓ No	√ No

Company believes
NEXICART-2 patients
are most likely to
benefit from
NXC-201 therapy

NEXICART-2: Patient enrollment focused on patients with preserved heart function



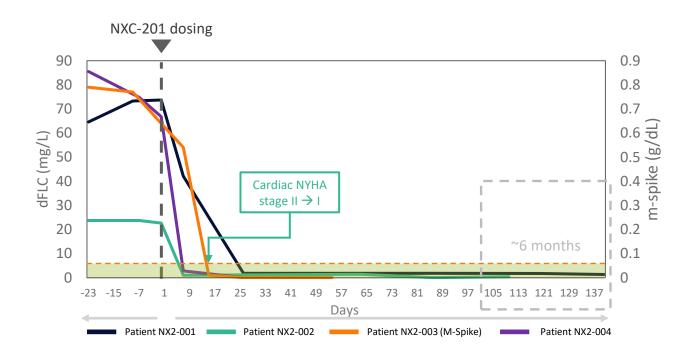


Preserved heart function

Patient #	Patient # NX2-001 NX2-002 NX2-0		NX2-003	NX2-004	Median (range)
Age	56	67	82	64	66 (56-82)
Gender	Female	Female	Male	Female	-
Prior lines of therapy	4	6	2	4	4 (2-6)
Follow up (days)	141	113	57	29	85 (29-141)
dFLC (mg/L)	65	24	-	86	65 (24-86)
M-Spike (g/dL, if dFLC not inclusion criteria)	-	-	0.79	-	-
FISH cytogenetics	1q21+	1q21+	1q21+	-	-
Organ involvement	Heart	Heart	Kidney	Heart	-
NYHA stage	I	II	I I		-
NT-ProBNP (pg/mL)	146	560	1,297	218	389 (146-1,297)
hs-Troponin-I (ng/L)	7	6	42	7	7 (6-42)
Creatinine (mg/dL)	0.7	1.1	2.2	1.8	1.5 (0.7-2.2)
Albuminuria (mg/24 hrs)	143	0	3,032	10	77 (0-3,032)
Alk Phos (U/L)	94	40	73	83	78 (40-94)
MAYO stage	Stage II	Stage II	Stage II	Stage IIIA	-

NEXICART-2 Efficacy: Rapid Normalization of Diseased Light Chains within First ~Month; Consistent with Ex-US Dataset







The NEW ENGLAND JOURNAL of MEDICINE

"An early and deep hematologic response has been found to lead to significantly prolonged survival"

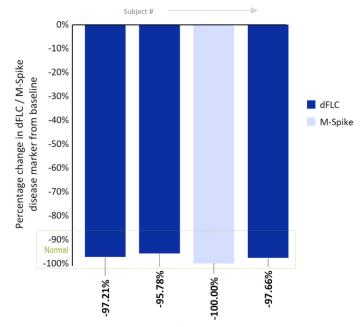
Vaishali Sanchorawala, M.D.
 Professor, Hematology and Oncology
 Director, Amyloidosis Center at Boston
 University School of Medicine
 Director, Stem Cell Transplantation at
 Boston Medical center

doi: 10.1056/NEJMra2304088

NEXICART-2 Efficacy: Rapid Normalization of Diseased Light Chains within First ~Month; Consistent with Ex-US Dataset

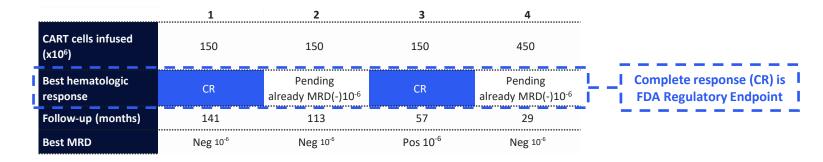


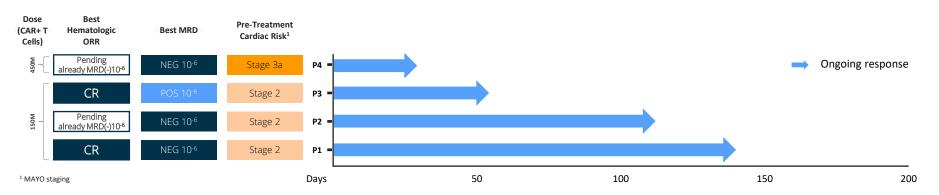
	Subject #	NX2-001	NX2-002	NX2-003	NX2-004
(1	NXC-201 Dose million CAR+T cells)	150	150	150	450
AL Amyloidosis	Status as of data cutoff	Normal	Normal	Normal	Normal
Disease Markers	Time to normalization (days)	26	7	15	7
	Response Status	CR	Pending (already MRD(-)10 ⁻⁶)	CR	Pending (already MRD(-)10 ⁻⁶)



NEXICART-2 Efficacy: Complete Responses in Two Patients and Remaining Two MRD- 10⁻⁶; All Patients in Ongoing Response as of Data Cut-off







Note: Data cut-off as of December 17, 2024. Prenkumar VI, et al. Venetodax induces deep hematologic remissions in (14) energy and a control of a con

NEXICART-2 Safety: Consistent or Improved Compared to Ex-US Dataset

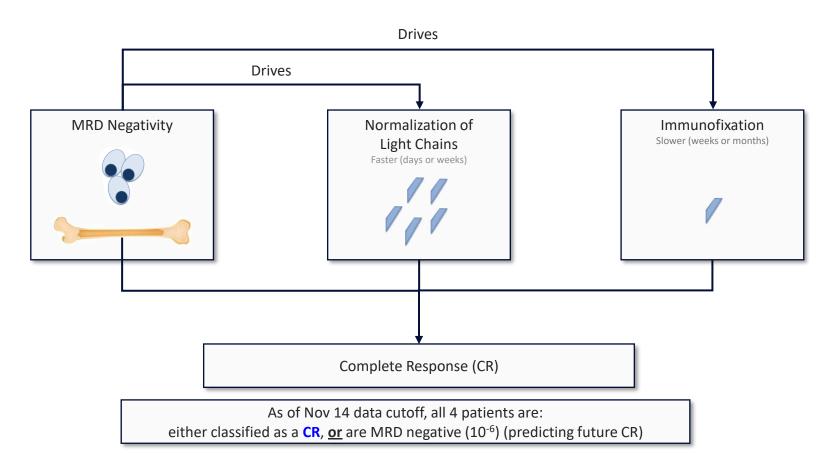


- · No ICANS neurotoxicity of any kind
- Grade 2 CRS in one patient, Grade 1 CRS in one patient, both with 1 day duration

Patient #	NX2-001	NX2-002	NX2-003	NX2-004
CART Cell Dose (x10 ⁶)	150	150	150	450
Neurotoxicity	None	None	None	None
Cytokine release syndrome (CRS)	None	None	Grade 2	Grade 1
CRS Onset (days)	-	-	3	3
CRS Duration (days)		-	1	1
Neutropenia	Grade 3	Grade 3	Grade 3	Grade 4
Febrile Neutropenia	None	None	None	None
Anemia	Grade 1	Grade 2	Grade 3	Grade 1
Thrombocytopenia	Grade 1	Grade 1	None	Grade 1
Acute kidney failure	None	None	None	None
Liver Function Test Abnormalities	ion Test Abnormalities Grade 2 None		None	None
Serious Infections	None	None	None	None
Fatigue	None	None	None	None

NEXICART-2: Drivers of Complete Response (CR) in relapsed/refractory AL Amyloidosis





Single-arm potentially pivotal NEXICART-2 trial designed considering NEXCIART-1 and precedents in AL



		2021 daratumumab (DARZALEX) FDA Approval	NXC-201 NEXICART-2
	Line of Therapy	Newly Diagnosed	Relapsed/Refractory
	Standard of Care (SoC) at time of trial	3-drug combination: Cyclophosphamide, bortezomib, dexamethasone	✓ None (no FDA approvals)
Patient Characteristics	Randomization vs. Standard of Care?	X Randomization vs. SoC	✓ No SoC to randomize against
	Lines of therapy prior to receiving study drug	x None	✓ At least 1 line of therapy including a CD38 monoclonal antibody
Study Design	Statistical Power	Based on the assumption that the percentage of patients with a hematologic complete response would be 15 percentage points higher in the daratumumab group than in the control group; approximately 360 patients were required to provide 85% power to detect this difference (two-sided alpha level of 0.05).	
	Primary Endpoint	✓ Hematologic complete resp	onse rate for both studies

Single-arm, open-label FDA approval precedents include: Abecma/BMS (single arm study 100 patients in efficacy results population, FDA approved 2021); Carvykti/J&J (single arm study 97 patients in efficacy results population, FDA approved 2022); Elrexfio/Pfizer (single arm study 97 patients in efficacy results population, FDA approved 2023)

NEXICART-1: <u>Ex-US</u>

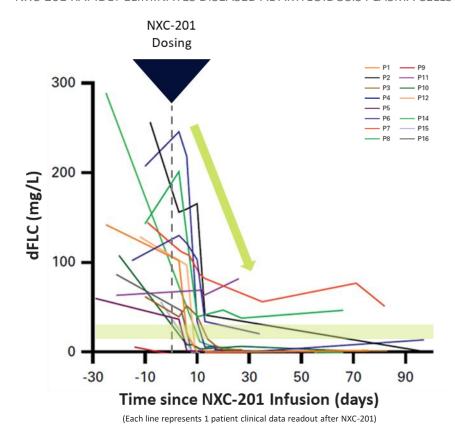
CAR-T NXC-201 Clinical Trial



NEXICART-1: Normalization of Diseased Free Light Chains 30 Days after Dosing

IMM X

NXC-201 RAPIDLY FLIMINATES DISEASED AL AMYLOIDOSIS PLASMA CELLS AND EXITS WITHIN ~30 DAYS



The NEW ENGLAND
JOURNAL of MEDICINE

"An early and deep hematologic response has been found to lead to significantly prolonged survival"

Vaishali Sanchorawala, M.D.
 Professor, Hematology and Oncology
 Director, Amyloidosis Center at Boston University School of Medicine
 Director, Stem Cell Transplantation at Boston Medical center

doi: 10.1056/NEJMra2304088

Note: Data cut-off as of December 9, 2024. E Lebel et al. Efficacy and Safety of Anti-BCMA Chimeric Antigen Receptor T-Cell (CART) for the Treatment of Relapsed and Refractory AL Amyloidosis. Presentation. ASH 2024.

NEXICART-1: 6 patients had pre-existing heart failure; 10 patients had preserved heart function I



PRE-EXISTING HEART FAILURE CAUSES PHYSICALLY IRREVERSIBLE DISTORTION OF HEART STRUCTURE, SHAPE AND SIZE

Preserved heart function



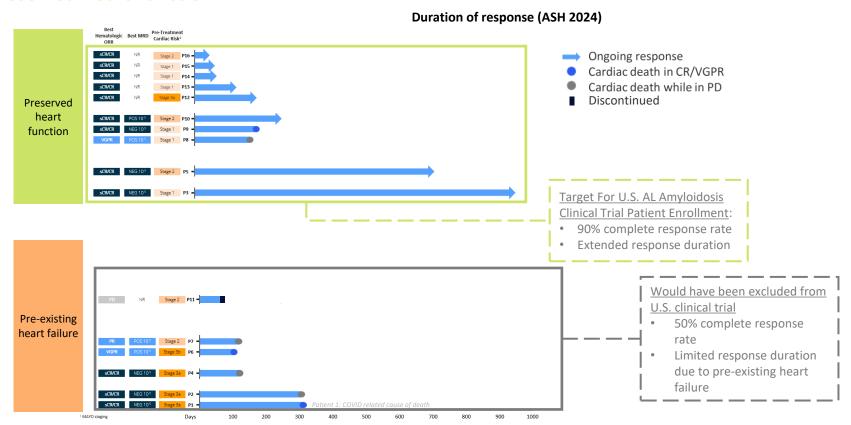
Pre-existing heart failure

Patient #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Median (range)	
Age	64	58	82	63	64	72	55	68	78	59	64	64	63	67	70	58	64 (55-82)	
Gender	Male	Female	Male	Male	Male	Female	Female	Male	Male	Male	Female	Male	Female	Male	Male	Male	11/16 M 5/16 F	
dFLC (mg/L)	143	177	50	550	51	103	196	408	41	108	64	129	83	275	49	86	106 (41-550)	
BMPCs (%)	3	15	1	15	0.1	1	1	10	15	1	1	1	0.5	1.5	0.5	0.3	1 (0.1-15)	
FISH cytogenetics	t(11:14)	t(14:16) 1Q+	14Q-	t(11:14)	t(11:14)	t(11:14) 1Q+	14Q-	17p-	Normal	17p-	t(4:14) 1Q+	t(11:14)	t(11:14)	Normal	t(11:14)	Normal	7/16 (44%) t(11:14)	
Organ involvement	Cardiac, Renal, PNS	Cardiac, Renal, Liver	Renal, GI	Cardiac, Liver, Lung, Soft tissue, PNS	Cardiac, Soft tissue, PNS	Cardiac, Renal, Liver	Cardiac, Soft tissue	Cardiac, Renal, Soft tissue	Renal	Cardiac, Renal, PNS	Cardiac, Renal, GI, Liver, Soft tissue, PNS	Cardiac, Renal	Cardiac, Renal, Soft tissue, GI	Liver	Cardiac, PNS, GI	Cardiac, Renal, GI, Liver	Heart: 13/16 (81%) Kidney: 11/16 (69%) Liver: 6/16 (38%)	
NYHA stage	3	4	1	3	2	4	4	2	1	2	2	1	2	3	2	2	1-2: 10/16 (38%) 3: 3/16 (19%) 4: 3/16 (19%)	
ProBNP (pg/ml)	7,500	2,008	119	2,773	731	28,000	6,600	220	930	669	211	3,158	281	191	107	964	831 (107-28,000)	
Frop T (ng/L)	60	40	8	78	18.3	110	30	12	9	8	20							
Creatinine (mmol\L)	80	72	110	100	82	108	83	69	220	227	79							
Albuminuria (g/24h)	0.3	0.3	2.4	0.1	0.1	1.0	0	0	0.3	1.4	0							
ALKP (u/L)	45	218	84	140	84	186	166	106	160	59	160							
MAYO stage	3a	3a	1	3a	2	3b	2	1	1	2	2	3a	1	1	1	2		
COG PS	0	2	0	0	1	2	4	0	1	1	1	1	1	2	0	1	1 (0-4)	
Concomitant MM	Yes	no	no	No	yes	no	No	no	no	no	no	no	no	no	no	no	2/16	
Compassionate use	No	no	no	yes	no	no	yes	no	no	no	no	no	no	no	no	no	2/16	

NEXICART-1 NXC-201 Produces Durable Complete Responses in Patients with



Preserved Heart Function



sCR: strict complete response, CR: complete response

NEXICART-1: 75% Complete Response Rate (is the FDA Regulatory Endpoint)





Patient #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
CART cells infused (v10 ⁶)	150	450	800	450	800	800	800	800	800	800	800	800	800	800	800	800
Best hematologic response	CR	CR	CR	CR	CR	VGPR	PR	VGPR	CR	CR	PD	CR	CR	CR	CR	CR
Follow-up (months)	10.3	10.2	31.5, ongoing	4.0	24.0, ongoing	3.3	3.8	5.5	6.0	8.7, ongoing	1.3	6.2, ongoing	4.2, ongoing	2.2, ongoing	2.0, ongoing	1.5, ongoing

Complete response CR) is FDA Regulatory Endpoint I

- **75% (12/16) Complete Response (CR) rate** (9 out of 16 were MRD- 10⁻⁵)
- Best responder: 31.5 months complete response ongoing as of December 9, 2024 cut-off
- Historical complete response rates for investigator's choice is ~3-20%

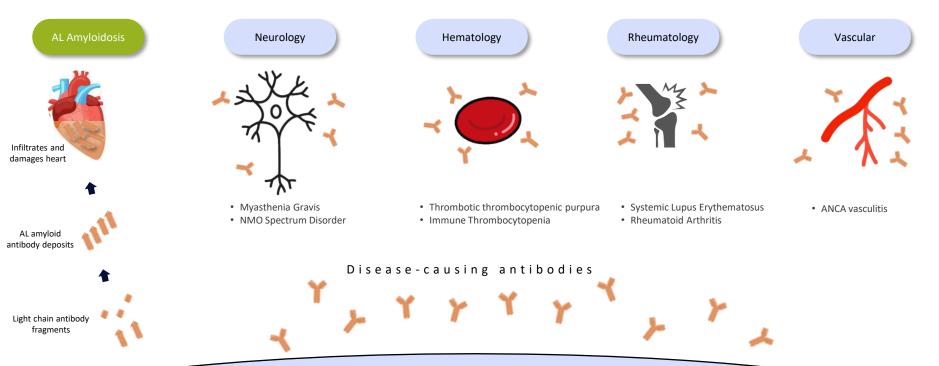
NXC-201: Potential to Expand to Select Immune-Mediated Diseases



CAR-T NXC-201 Targets Plasma Cells (antibody factories of the body)



ANTIBODY FACTORY PLASMA CELLS PRODUCE ANTIBODIES THAT DRIVE IMMUNE-MEDIATED DISEASES





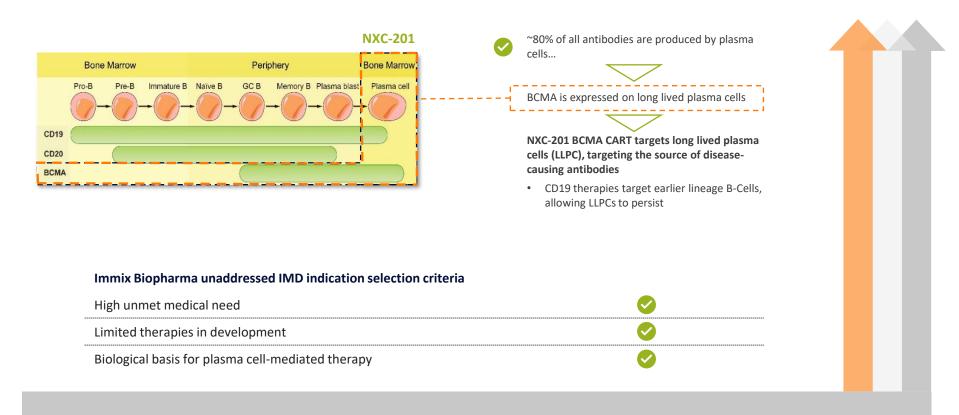
(NXC-201 therapeutic target)

Note: select indications noted above are for illustrative nurnoses only.

NXC-201 BCMA CAR-T targeting is uniquely suited to address Immune-Mediated Diseases



NXC-201 BCMA CAR-T TARGETS LONG-LIVED PLASMA CELLS, WHICH ARE OFF-TARGET FOR CD19 THERAPEUTICS



Appendix

February 2025



Advantages of CAR-T NXC-201 in Relapsed/Refractory AL Amyloidosis



		NXC-201	Antibody-drug conjugates	Bispecifics
1	One-time treatment	\bigcirc	×	8
2	High Complete Response Rates	⊘	×	×
3	Low rates of severe infection	\bigcirc	⊘	×
4	No ICANS/Neurotoxicity	⊘	⊘	8

Note: Inglication in the Suprison Active General Section (Feb. Section (

In AL Amyloidosis, NXC-201 Overcomes Limitations of Other Modalities in Performance and Tolerability

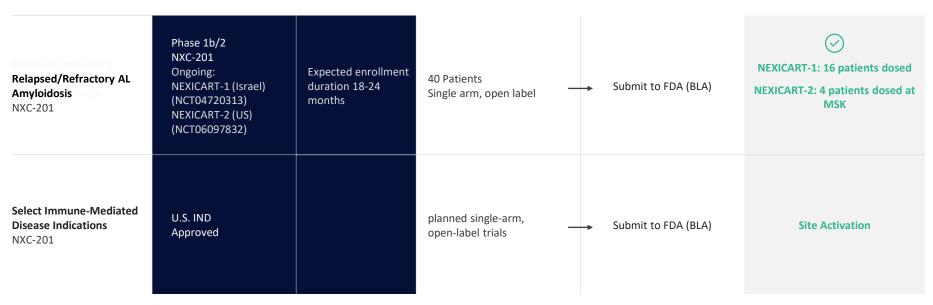


Challenges of bispecifics/ T-cell engagers **NXC-201** overcomes these challenges 75% CR in relapsed/refractory AL No clinical trials with clinical data amyloidosis available in relapsed/refractory AL amyloidosis 0 deaths from infection in relapsed/refractory AL amyloidosis Early data from select centers indicates bispecific responses and tolerability are Advantages of 0% neurotoxicity (0/16) in inferior to CAR-T (NXC-201) in NXC-201 CAR-T in relapsed/refractory AL amyloidosis relapsed/refractory AL amyloidosis patients **AL Amyloidosis** Retrospective study with 17 R/R One-time dosing with durable multiple myeloma + AL Amyloidosis patients: responses 41% CR 35% severe infections **Ongoing NEXCART-1** relapsed/refractory AL amyloidosis including death clinical trial with clinical data Grade 3 ICANS neurotoxicity presented at ASH 2024 reported Repeat/ongoing dosing with need for healthcare provider to administer

NXC-201 Clinical Development Plan Through FDA BLA Submissions



RELAPSED/REFRACTORY AL AMYLOIDOSIS CLINICAL TRIAL TO ENROLL 40 PATIENTS PRIOR TO FDA BLA SUBMISSION



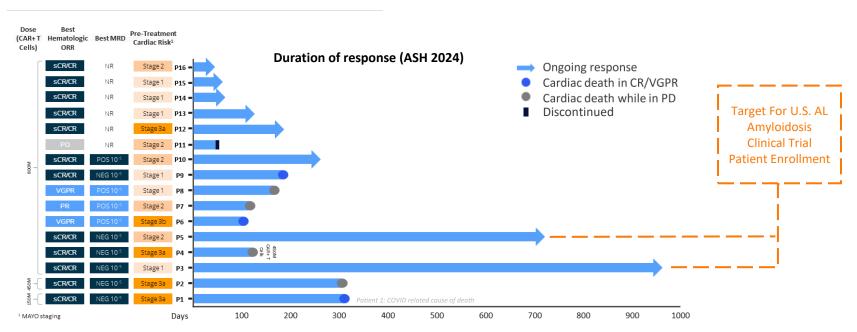
Note: 63 Relapsed/Refractory multiple myeloma patients have been dosed with NXC-201 in the ex-US NEXICART-1 clinical trial. Immix Biopharma is not actively pursuing US commercial approval in Relapsed/Refractory multiple myeloma at this time.

NEXICART-1: Durable Responses in NXC-201 AL Amyloidosis Clinical Trial



SWIMMER PLOT ORDER MATCHED TO ASH 2024 PRESENTATION

- Complete hematologic response (CR) of 75% (12/16), a precedent approval endpoint based on the only commercial treatment for AL
 amyloidosis
- Ongoing NEXICART-2 US trial targeting patients reflective of durable responders



sCR: strict complete response, CR: complete response

World-Class Team

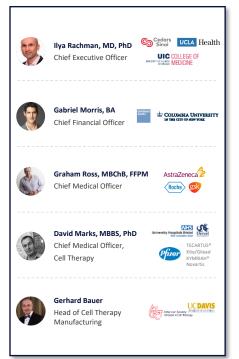


Management

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Business Advisors

Scientific Advisory Board









Principal Investigator for NEXICART-2: Heather Landau, MD





- Director of the Amyloidosis Program and a Bone Marrow Transplant Specialist & Cellular Therapist at Memorial Sloan-Kettering Cancer Center in New York.
- Authored more than 100 peer-reviewed publications.
- Dr. Landau received her medical degree from SUNY Upstate Medical University, completed her Internal Medicine residency at University of Colorado and her Hematology & Oncology fellowship at Memorial Sloan Kettering Cancer Center.

NXC-201 CAR-T cells penetrate tissues and repeat kill disease-causing cells in AL Amyloidosis



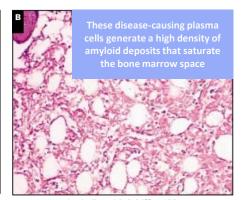
AL Amyloidosis pathologic light chains emerge from deep in the bone marrow where they are produced by pathologic antibody factory plasma cells

Traditional antibody-based therapies primarily address passively accessible target cells

NXC-201 is the only AL amyloidosis therapy in clinical development that actively penetrates deep into the bone marrow



Immunoperoxidase with hematoxylin counterstain, ×100



Periodic acid—Schiff, ×100

Antibody-based therapeutics have difficulty penetrating deep into organs where disease causing plasma cells reside

Inserm

"Plasma cells (PC) were detected in the [organs] of patients ... up to 6 months after rituximab treatment, and the PC population displayed a long-lived program"

doi:10.1172/JCI65689

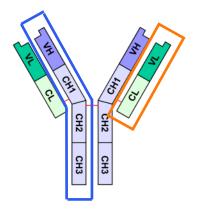
Pathologic Light Chains in AL Amyloidosis are an Antibody Building Block That Are Overproduced by Plasma Cells



A LIGHT CHAIN IS A PORTION OF AN ANTIBODY

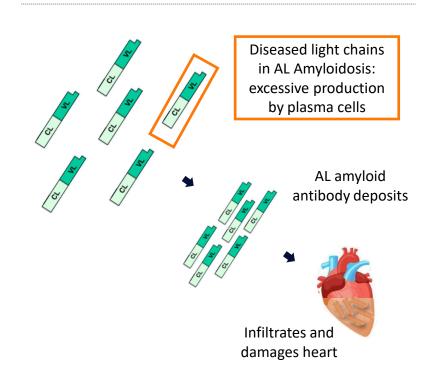
Light chain portion of antibody

Heavy chain portion of antibody



Normal antibody produced by plasma cell

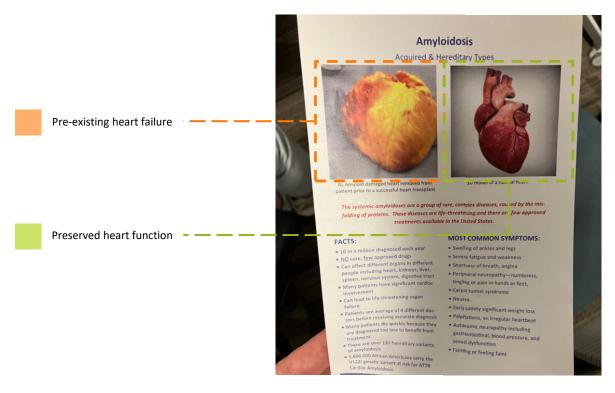
IN AL, PLASMA CELLS PRODUCE TOO MANY LIGHT CHAINS



This Is Pre-Existing Heart Failure in AL Amyloidosis



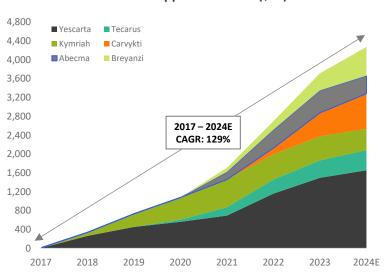




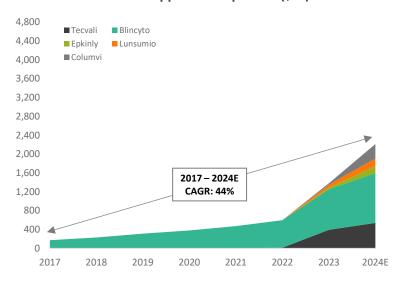
Robust Global Sales of CAR-T Continue



Sales of Approved CAR-T (\$M)



Sales of Approved Bispecifics (\$M)



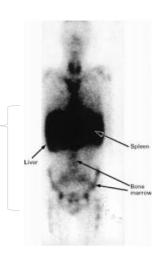
Amyloid deposits in AL Amyloidosis are cleared naturally after treatment



BEFORE TREATMENT

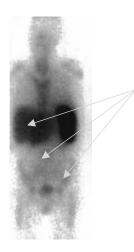
6-MONTHS AFTER TREATMENT

Pre-treatment imaging shows dense amyloid deposits in liver, bone marrow, and other organs in AL patient



Cytotoxic treatments (vincristine, adriamycin, and dexamethasone)





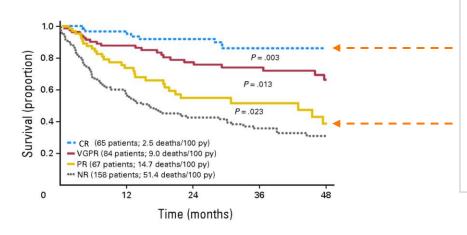
Post-treatment imaging shows clearance of amyloid in organs throughout the body

Complete Hematologic Response is correlated with longer survival

COMPLETE HEMATOLOGIC RESPONSE WAS PRIMARY ENDPOINT IN 2021 DARATUMUMAB APPROVAL STUDY AND ONGOING NEXICART-2 TRIAL



<u>Complete Hematologic Response (CR) associated with</u> <u>improved survival in AL</u>



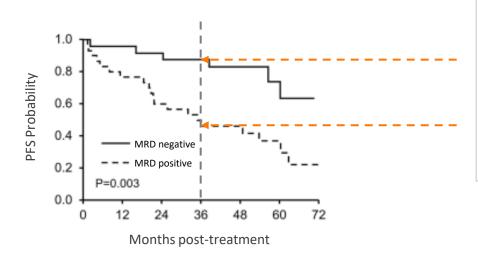
2x survival at 48 months for CR vs PR

- Complete Hematologic response patients have 85% survival at 48 months
- Partial hematologic response patients have 40% survival at 48 months

MRD- is Correlated with Improved PFS in AL Amyloidosis



MRD negativity is associated with improved Progression Free Survival in AL



2x PFS at 36 months for MRD- vs MRD+

(patients with CR or VGPR)

- MRD negative patients have 88% 36-month PFS
- MRD positive patients have 46% 36-month PFS

N-GENIUS Sterically-Optimized CARTs Drive Immix's Immune-Mediated Disease Leadership



N-GENIUS Platform

Through partnership Hadassah Medical Organization, Jerusalem and Bar-Ilan University, Immix is a pioneer in sterically-optimized CAR-T construct development, driving our next-generation industry-leading CAR-Ts in select immune-mediated diseases.

N-GENIUS developed sterically-optimized CAR-Ts allow for a differentiated safety and efficacy profile through modification of key regions of the CAR-T construct, driving a "digital" intracellular signal and overcoming limitations of current clinical stage and commercial CAR-Ts.

Portfolio of US patents, pending applications, and exclusive patent licenses, which cover our core technology platforms and product







N-GENIUS Platform has produced sterically-optimized BCMA CAR-T NXC-201 with COBRA binder and EXPAND technology



ALL BCMA CAR-TS ARE NOT CREATED EQUAL

N-GENIUS PLATFORM

3 Key Elements

Produced NXC-201



Purpose-Built Cell Therapy Evidence Capture Engine + Relational Database

Relating ImmixBio internal data to external to accelerate therapy design, manufacture, and preclinical



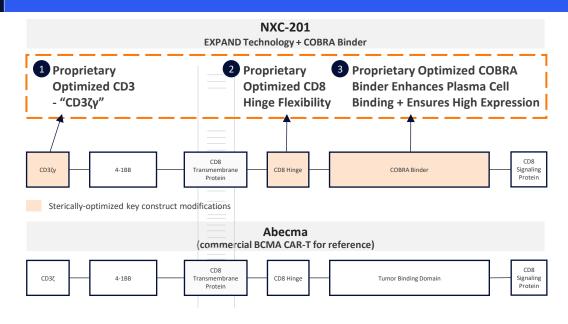
Proprietary EXPAND technology

Applied to multiple cell therapy indications, already utilized to create NXC-201, to potentially increase efficacy and tolerability



Atomized, Novel Binding Scaffold Generation Engine

Allows us to make the correct binding for every molecule



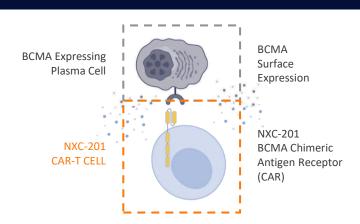
NXC-201 MoA: Sterically-Optimized BCMA-targeted CAR-T



NXC-201: STERICALLY-OPTIMIZED BCMA CAR-T GENERATED BY THE N-GENIUS PLATFORM

NXC-201

NXC-201 — Key Characteristics





High Transduction Efficiency (Ensuring efficient manufacturing)

*Carvykti data presented at ASH 2019; Abecma data presented at ASH 2017. CART-ddBCMA source Arcellx. Analysis based on cross-trial comparisons of publicly available data reported in ASH 2017 and 2019 and not a head-to-head clinical trial

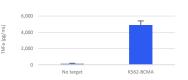




Low Tonic Signaling

(Lower off-target toxicity may lead to lower toxicity)

NXC-201 was co-cultured with the indicated target T cells and TNF α (B) and IL-2 (C) concentrations secreted in the culture supernatant were determined by ELISA.



NXC-201 is a next-generation chimeric antigen receptor (CAR) T-cell (CAR-T) produced by our N-GENIUS platform targeting B-cell maturation antigen (BCMA)

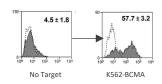
- High Overall Response Rates in AL Amyloidosis and Multiple Myeloma
- First Outpatient CAR-T: Short CRS duration (median 1 days) starting on day 1



Anti-Exhaustion Capability

(Increased Persistence may lead to efficacy over an extended period of time)

NXC-201 was co-cultured overnight then analyzed by flow cytometry for the expression of 4-1BB

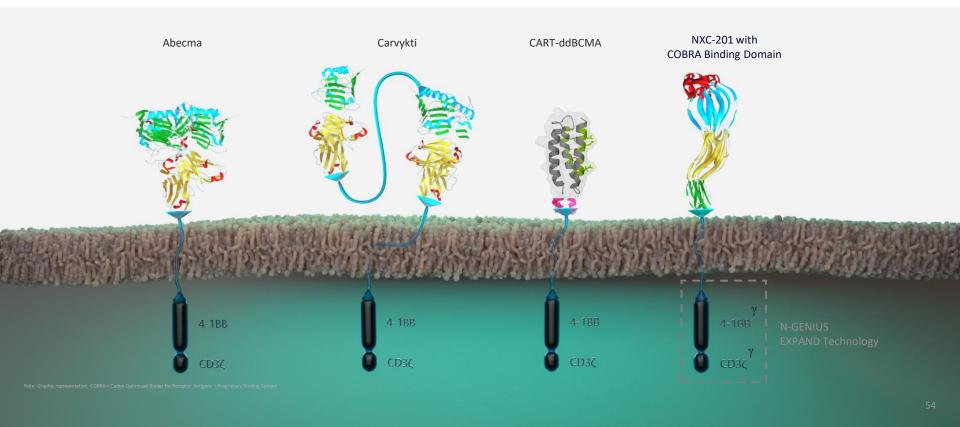


Source: Development and manufacturing of novel locally produced anti-BCMA CART cells for the treatment of relapsed/refractory multiple myeloma: phase I clinical results. Haematologica. 2022 Oct 6. doi: 10.3324/haematol.2022.281628. Epub ahead of print. PMID: 36200421.

Proprietary EXPAND Technology and COBRA Binding Domain Are Differentiated Innovations

N-GENIUS TECHNOLOGY PLATFORM: STERICALLY-OPTIMIZED BCMA CAR-T NXC-201





NXC-201 Best-in-Class AL Amyloidosis Clinical Results



Relapsed/Refractory Light chain (AL) Amyloidosis

	: IMMiX	Johnson-Johnson	AstraZeneca CAELUM	f prothena $^{\circ}$
	NXC-201 Monotherapy	Darzalex Combination (with cyclophosphamide, bortezomib, and/or dexamethasone)	CAEL-101	Birtamimab Combined with SOC CyBorD
Dosing frequency	1X	Weekly	Weekly	Weekly
Patient #s: n=	16	9	10 (renal), 24 (cardiac)	14 (cardiac), 15 (renal)
Hematologic Overall Response Rate	94%	22%	-	-
Hematologic Complete Response Rate	75%	0%	-	-
Hematologic CR + VGPR	88%	22%	-	-
Cardiac response – (NT-proBNP median reduction)	78%		39%	35%
Renal response (%)	33%		20%	60%
Median prior lines of therapy	4	1	2	2
% pretreated with CD38-targeted treatment (Darzalex/other)	100%	100%	?	0%

Birtamimab Source from ICO (Birtamimab development paused + restarted). CAEL-101 source: Edwards CV, et al. Phase 1a/b study of monoclonal antibody CAEL-101 (11-1F4) in patients with AL amyloidosis. Blood. 2021 Dec 23;138(25):2632-2641. doi: 10.1182/blood.2020009039. PMID: 34521113; PMCID: PMC8703360. Darzalex source from Blood. Point-of-care CART manufacture and delivery: Poster. Poster Presentation, ESMM 2023. Poster ASGCT 2023. figures reflect cross-trial comparison and not results from a head-to-head study. Differences exist between trial designs and subject characteristics, and caution should be exercised when comparing data across studies. Poster: IMS 2023. Poster ASGC 2023. Darzalex and investigator's Choice: Theodorakakou, et al, Blood 2022. Astra Zeneca: Blood 2021. 13 NK.-2.010 patients at ASCCT 2024 within nonine revocated bioserfice.

Differentiated NXC-201 safety profile validated in historical Multiple Myeloma data



NXC-201 tolerability data in Relapsed/Refractory Multiple Myeloma

Cytokine release syndrome						
	Cohort 1 (N=6)	Cohort 2 (N=7)	Cohort 3 (N=50)	Overall (n=63)		
Dose	150M	450M	800M			
CRS (n [%])						
Yes	5 (83%)	6 (86%)	48 (96%)	59 (94%)		
No	1 (17%)	1 (14%)	2 (4%)	4 (6%)		
CRS Start Day						
Median	6	0	0			
Min, Max	0, 21	0, 1	0, 4			
CRS Duration						
Median	3	2	1			
Min, Max	0,5	1,3	1,7			
CRS Grade (n [%])						
No CRS	1 (17%)	1 (14%)	2 (4%)	4 (6%)		
1	4 (67%)	2 (29%)	17 (34%)	23 (37%)		
2	1 (17%)	4 (57%)	24 (48%)	29 (46%)		
3	0 (0%)	0 (0%)	7 (14%)	7 (11%)		
4	0 (0%)	0 (0%)	0 (0%)	0 (0%)		
Tocilizumab (n [%])						
Yes	2 (33%)	4 (57%)	40 (80%)	46 (73%)		
No	4 (67%)	3 (43%)	10 (20%)	17 (27%)		
Steroids (n [%])						
Yes	0 (0%)	0 (0%)	8 (16%)	8 (13%)		
No	6 (100%)	7 (100%)	42 (84%)	55 (87%)		
Vasopressors (n [%])						
Yes	0 (0%)	0 (0%)	7 (14%)	7 (11%)		
No	6 (100%)	7 (100%)	43 (86%)	56 (89%)		

ICANS neurotoxicity						
	Cohort 1 (N=6)	Cohort 2 (N=7)	Cohort 3 (N=50)	Overall (n=63)		
Dose	150M	450M	800M			
ICANS (n [%])						
Yes	0 (0%)	0 (0%)	2 (4%)	2 (3%)		
No	6 (100%)	7 (100%)	48 (96%)	61 (97%)		
ICANS Grade (n [%])						
1-2	0 (0%)	0 (0%)	2 (4%)	2 (3%)		
3-4	0 (0%)	0 (0%)	0 (0%)	0 (0%)		

NXC-201 at 150M and 450M CAR+T cell dose (US AL Amyloidosis trial dosing):

- 0% Grade 3+ CRS
- 0% ICANS of any grade

Relapsed/Refractory Multiple Myeloma: Key Inclusion Criteria



	NXC-201 (NEXICART-1 NCT04720313)	Abecma (pivotal NCT03361748)	Carvykti (pivotal NCT03548207)	CART-ddBCMA (pivotal NCT05396885)
Prior lines of therapy	≥3 different prior lines of therapy including proteasome inhibitor, immunomodulatory therapy and ≥1 antibody therapy, refractory/ responsive to the last line of therapy	≥3 different prior lines of therapy including a proteasome inhibitor, an immunomodulatory agent and an anti-CD38 antibody, refractory to the last treatment regimen	≥3 different prior lines of therapy including a proteasome inhibitor, an immunomodulatory agent and an anti-CD38 antibody, refractory to the last treatment regimen, refractory or non-responsive to their most recent line of therapy	≥3 different prior lines of therapy including a proteasome inhibitor, an immunomodulatory agent and an anti-CD38 antibody, refractory to the last treatment regimen
Toxicity recovery	Recovery to SGrade 2 or baseline of any non- hematologic toxicities due to prior treatments, excluding alopecia and Grade 3 neuropathy	Recovery to Grade 1 or baseline of any non- hematologic toxicities due to prior treatments	-	Resolution of adverse events (AEs) from any prior systemic anticancer therapy, radiotherapy, or surgery to Grade 1 or baseline
ECOG	0-2	0-1	0-1	0-1
Measurable disease	Serum M-protein greater or equal to 0.5 g/dL Urine M-protein greater or equal to 200 mg/24 h Serum free light chain (FLC) assay: involved FLC level greater or equal to 5 mg/dL (50 mg/L) provided serum FLC ratio is abnormal	Serum M-protein greater or equal to 1.0 g/dL Urine M-protein greater or equal to 200 mg/24 h Serum free light chain (FLC) assay: involved FLC level greater or equal to 10 mg/dL (100 mg/L) provided serum FLC ratio is abnormal	Serum monoclonal paraprotein (M-protein) level more than or equal to (>=) 1.0 gram per deciliter(g/dL) Urine M-protein level >=200 milligram per 24 hours (mg/24hr) Light chain multiple myeloma without measurable disease in the serum or the urine: Serum immunoglobulin free light chain 10 mg/dL and abnormal serum immunoglobulin kappa lambda free light chain ratio	 Serum M-protein ≥1.0 g/dL Urine M-protein ≥200 mg/24 hours Involved serum free light chain ≥10 mg/dL with abnormal κ/λ ratio (i.e., >4:1 or <1:2)

Relapsed/Refractory Multiple Myeloma: Key Exclusion Criteria

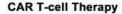


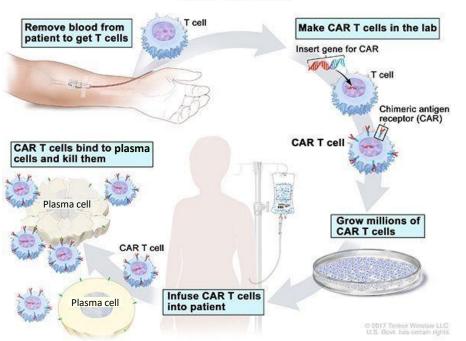
	NXC-201 (NEXICART-1 NCT04720313)	Abecma (pivotal NCT03361748)	Carvykti (pivotal NCT03548207)	CART-ddBCMA (pivotal NCT05396885)
Prior BCMA therapy	No exclusion	BCMA targeted therapy	Have received any therapy that is targeted to B-cell maturation antigen (BCMA)	Prior B-cell maturation antigen (BCMA) directed therapy
Prior cell therapy	Investigational cellular therapies within 8 weeks prior to the start of lymphodepletion	Investigational cellular therapy for cancer	Have received prior treatment with chimeric antigen receptor T (CAR-T) therapy directed at any target	Prior treatment with any gene therapy or gene- modified cellular immune-therapy

What is autologous chimeric antigen receptor (CAR)-T cell therapy?

NXC-201 IS A NEXT-GENERATION BCMA TARGETED AUTOLOGOUS CAR-T CELL THERAPY







Patient Specific

Personalized treatment using patient's own T cells

Genetic Modification

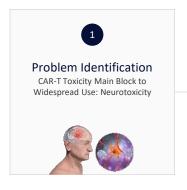
Genetically engineered CARs (chimeric antigen receptors) on T cell surface

Targeted Therapy

Target cells that express antigens recognized by CARs

N-GENIUS Platform Process



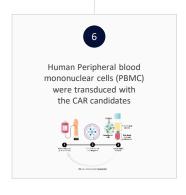


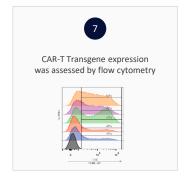


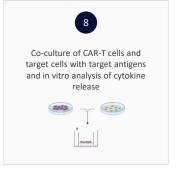


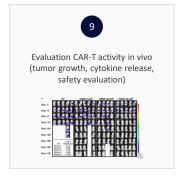














Clinical Stage CAR-T for AL Amyloidosis and Select Immune-Mediated Diseases

February 2025

