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

January 2025





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Immix Biopharma Highlights

NXC-201: The only CAR-T in	 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);
	 <u>Ex-US</u> study: 75% (12/16) Complete response (CR) rate in Relapsed/Refractory AL Amyloidosis
development for AL amyloidosis	• US 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

- 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

Sterically-optimized, proprietary

CAR-T construct

- 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

Source: E Lebel et al. Efficacy and Safety of Anth-BCMA Chimeric Antigen Receptor T-Cell [CART] for the Treatment of Relapsed and Refractory AL Amyloidosis. Presentation. ASH 2024. M. Assayag, et al. Asherie N, et al. Development and manufacture of novel locally produced anth-BCMA CAR Teclifs for the treatment of Relapsed/refractory multiple myeloma: results from a phase I clinical trial. Haematologica. 2023 Jul 1;108(7):1527-1539. doi: 10.3324/haematol.2022.251628. PMID: 36200421; PMID: VMC10316256. Guody sing US claims data. Blood Adv. 2018 Nay 22;2(10):1046-1053. doi: 10.11129/JUG0advances.2018016402. PMID: 29708430. Staron A, et al. Marked progress in AL amyloidosis unvival: a 40-year longitudinal natural history study. Blood Adv. 2018 Nay 22;2(10):1046-1053. doi: 10.11129/JUG0advances.2018016402. PMID: 29708430. Staron A, et al. Marked progress in AL amyloidosis unvival: a 40-year longitudinal natural history study. Blood Cancer. J. 2021;11(1):103.1994(MID: 3430198/MID: PM:VEA30398/47010: 10.1032);43(1408):0-120-0-2039. VID 29 alients Treated and ASV 2024. J M. Multiple Mevena patients at hird history study. Blood Staron A: 2018. J Multiple Mevena patients at hird history study. Blood Staron A: 2018. J Multiple Mevena patients at hird history study. Blood Staron A: 2018. J Multiple Mevena patients at hird history study. Blood Staron A: 2018. J Multiple Mevena patients at hird history study. Blood Staron A: 2018. J Multiple Mevena patients at hird history study. Blood Staron A: 2018. J Multiple Mevena patients at hird history study. Blood Staron B: 2018. J Multiple Mevena patients at hird history study. Blood Staron B: 2018. J Multiple Mevena patients at hird history study. Blood Staron B: 2018. J Multiple Mevena patients at hird history study. Blood Staron B: 2018. J Multiple Mevena patients at hird history study. Blood Staron B: 2018. J Multiple Mevena patients at hird hird history study. Blood Staron B: 2018. J Multiple Mevena patients at hird hird history study. Blood Staron B: 2018. J Multiple Mevena p

Significant Near-Term Milestones

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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	\mathbf{S}	
Formed Cell Therapy R&D tas	kforce in 2022	
Secured global commercial rig 201 from Hadassah/Bar-Ilan i		
Reported	ASGCT 2023	
NEXICART-1 AL Amyloidosis	ASH 2023	
interim clinical data at:	ASGCT 2024	
)24 / ASH 2024	
Dosed first US patient in NEXI Amyloidosis clinical trial	Met mid '24 guidance	
Reported NEXICART-2 AL Amy clinical data	loidosis initial	Met 4Q 2024 guidance



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 De	signation (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 Pipeline

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



REVIEW ARTICLE

The NEW ENGLAND JOURNAL of MEDICINE

Dan L. Longo, M.D., Editor

Systemic Light Chain Amyloidosis

Vaishali Sanchorawala, M.D.

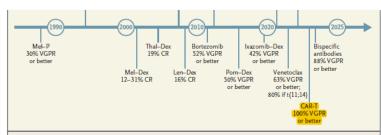


Figure 3. Therapeutic Landscape of AL Amyloidosis.

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. <u>CAR-T denotes chimeric antigen</u> 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 thalidomide– dexamethasone, 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.

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

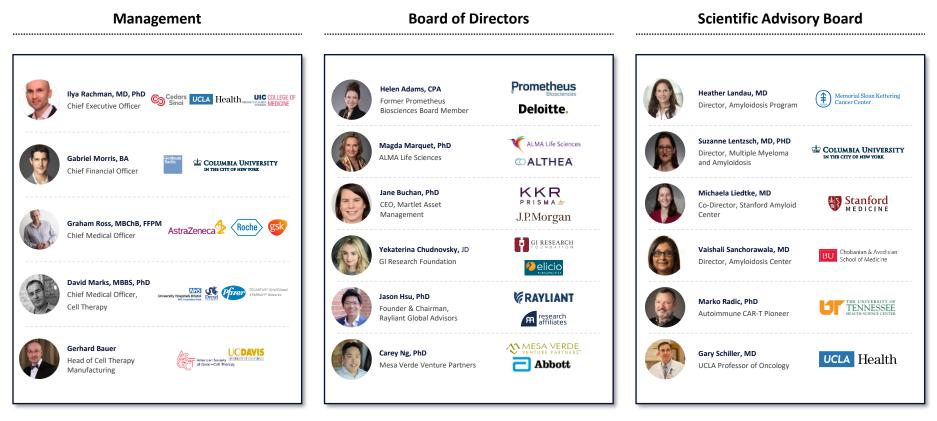
TREATMENT OF RELAPSE AND PROGRESSION AFTER INITIAL THERAPY

No consensus has been established on the criteria for commencing second-line therapy in patients with progressive disease after initial therapy^{73,4} Patients with relapsed disease can be treated by repeating first-line therapy if the response lasted for more than a year, although such patients have a shorter time to relapse without a reduction in overall survival than patients who are treated with a different therapy for relapsed disease.

The potential options available for the treatment of relapsed systemic AL amyloidosis include proteasome inhibitors,75,76 anti-CD-38 monoclonal antibodies,77,78 immunomodulatory agents,79 venetoclax for patients with t(11:14),80 bendamustine,81 high-dose melphalan with autologous SCT,82,83 bispecific antibodies,84,85 and even chimeric antigen receptor T-cell therapy.86 Although it is not possible to be prescriptive regarding the sequencing of therapies, the two guiding considerations 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. Enrollment in clinical trials is encouraged.

World-Class Team

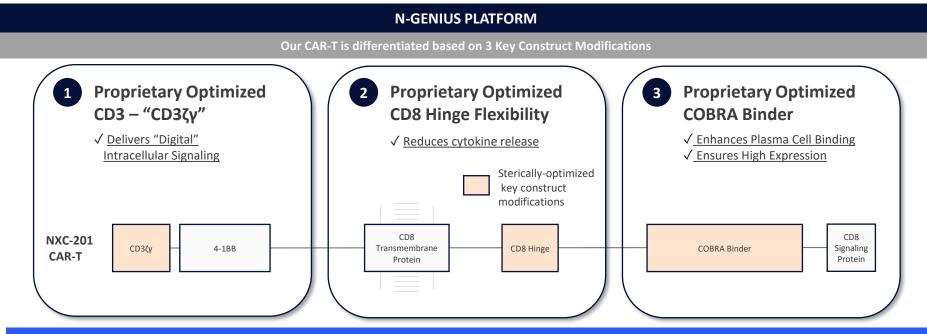




N-GENIUS Platform: Sterically-Optimized CAR-T Construct Drives Differentiated NXC-201 Clinical Profile



ALL BCMA CAR-TS ARE NOT CREATED EQUAL



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"

Source: M. Assayag, et al. Academic EGMA-504 Tesls [HBI0201] a promising approach for the treatment of LC Amylodoxis. rznh o. Londow Heeting of Therapy (ASCT). Late Breaking Oral Presentation. Baltimore, M. Sadedini, et al. Calibration of CMA in Calibration of CMA

CD3ζ

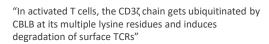
CARs rely on activation of CAR-T cells through CD3ζ derived immunoreceptor tyrosine-based activation motifs (ITAMs), typically 3 ITAM motifs per CAR

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
- $\checkmark\,$ 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



Signal Transduction and Targeted Therapy

doi: 10.1038/s41392-021-00823-w

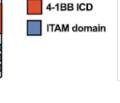
nature

Memorial Sloan Kettering Cancer Center

"We hypothesized that the redundancy of CD28 and CD3ζ signaling in a chimeric antigen receptor (CAR) design incorporating all three CD3ζ 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





medicine

CD32

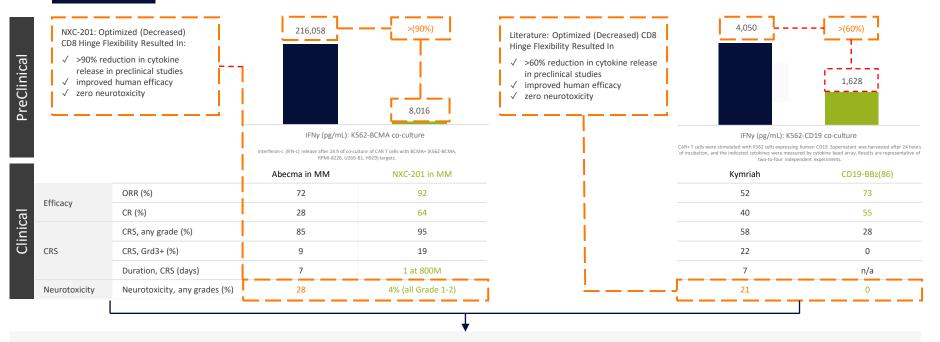
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Proprietary Sterically-Optimized CD3ζ + CD8 Delivers "Digital" Intracellular Signaling, Eliminates Neurotoxicity, Reduces CRS Duration



CD8 Hinge



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

MM: multiple myeloma

Source: E Lebel et al. Efficary of HBI0101, an Anti-BCMA Chimeric Antigen Receptor T-Cell (CART) for Relapsed/Refractory Multiple Myeloma. Abstract. ASH 2024.5 Klfn-Fenefeld et al. Clinical evaluation and determinants of response to HBI0101 (BCMA CART) therapy in relapsed/refractory multiple myeloma. Blood Adv. 2024 Aug 13;81(5):4077-4088. doi: 10.1182/bloods/bances.2024012957.Ying 2 et al. Nat Med. 2019; Schuster 5J, et al. Neng J Med. 2019, Assayag, M., et al EBMT 2023; Absterna FDA label; Harsh O, et al. Harm Gene Ther. 2015 Aug. 25(7):1278. PMID: 19384291; PMID: PMIC205264. High VAIC205254. High VAIC205254. Ref Vaice VAIC2052554. Ref Vaice VAIC2052554.

Sterically-Optimized COBRA Binder Ensures High Expression And Binding Affinity

COBRA Binder

3

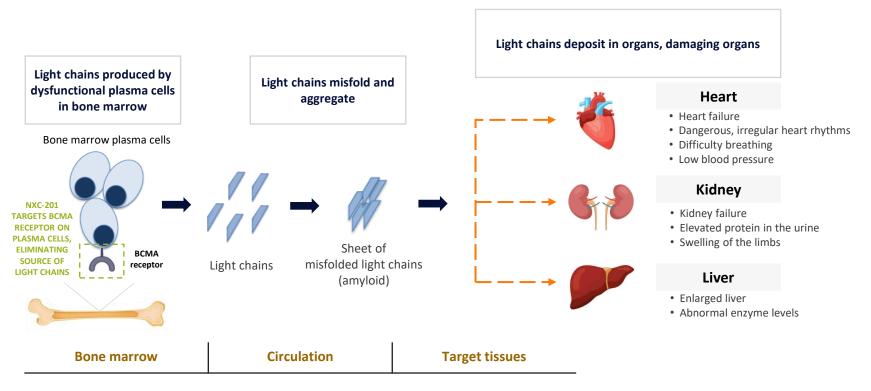
COBRA Binder Leads with Heavy Chain	HSL VH (GGGGS) ₅ VL] 3.6] 1.6	■ HSL ■ LSH 76	NXC-201 COBRA Binder: Heavy
	doi: 10.3389/fonc.2023.1200914	Day 10 CAR-T Expansion (10^7)	Specific Cytotoxicity (%): JeKo1 (ROR1+) co-culture	Chain – Proven Linker – Light Chain Configuration, enabling:
Proven Linker of Heavy and Light Chain Employed	Biomarker Research "Glycine (Gly) and serine (Ser) residues prichange conformation and maintain good sister secondary structures and reduc[ing] likelihethethethethethethethethethethethetheth	stability in aqueous solutions	prevent[ing] formation of	 ✓ 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



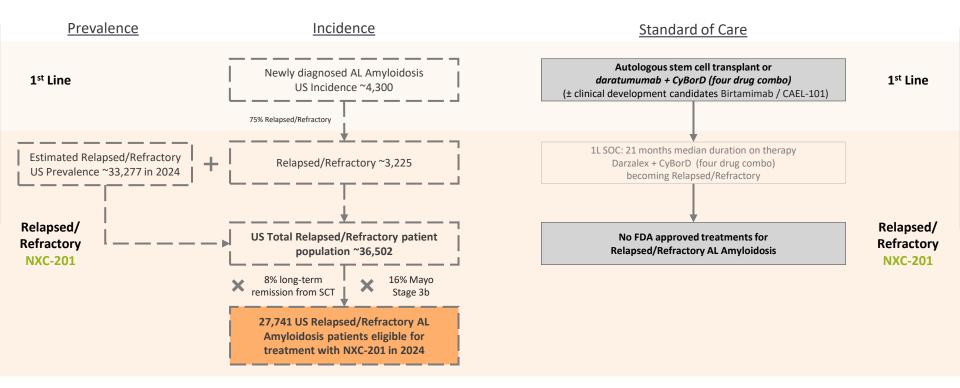
Source: Werlini, G., et al. Nat Rev Dis Primers. Oct 2018, Front. Cardiovasc. Med., Dec 2022, Henato 2022, Jenato 2023, Jin Ar-62, https://doi.org/10.3390/henato.2010.0005. Quock TP, Yan T, Chang E, Guthrie S, Broder MS, Epidemiology of AL amyloidosis: a real-world study using US claims data. Blood Adv. 2018 May 22;2(10):1046-1053. doi: 10.1182/bloodadvances.2018016402. PMID: 29748430; PMID: PM75960553: Statistica V PMP area Toxicultural Intraval history study. Blood Cancer. 2021;118(3):10.48; R. Horistics. Unreliance Science V PMID: 29748430; PMID: PM7596053: Statistica V PM74 TOX: Col.2019(1):1031914; R. R. Karlowisci. a real-world study using US claims data. Blood Adv. 2018 May 22;2(10):1046-1053. doi: 10.1182/bloodadvances.2018016402. PMID: 29748430; PMID: PM7596053: Statistica V PM74 TOX: Col.2019(1):1031914; R. S. Karlowisci. a real-world study using US claims data. Blood Adv. 2018 May 22;2(10):1046-1053. doi: 10.1182/bloodadvances.2018016402. PMID: 29748430; PMID: PM7596053: Statistica V PM74 TOX: Col.2019(1):1031914; R. S. Karlowisci. a real-world study using US claims data. Blood Adv. 2018 May 22;2(10):1046-1053. doi: 10.1182/bloodadvances.2018016402. PMID: 29748430; PMID: PM74 TOX: Col.2019(1):1031914; R. Karlowisci. a real-world study using US claims data. Blood Adv. 2018 May 22;2(10):1046-1053. doi: 10.1182/bloodadvances.2018016402. PMID: 29748430; PMID: PM74 TOX: Col.2019(1):1031914; R. Karlowisci. a real-world study using US claims data. Blood Adv. 2018 May 22;2(10):1046-1053. doi: 10.1182/bloodadvances.2018016402. PMID: 29748430; PMID: PM74 TOX: Col.2019(1):1031914; R. Karlowisci. a real-world study using US claims data. Blood Adv. 2018 May 22;2(10):1046-1053. doi: 10.1182/bloodadvances.2018016402. PMID: 29748430; PMID: 29748430;

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

Newly Diagnosed	Relapsed/Refractory
Newly diagnosed US Incidence ~4,300	Relapsed/RefractoryEstimated relapsed/refractory~3,225US Prevalence ~33,277 in 2024 (Previously Treated)
Johnson Johnson	Eligible R/R ALA Patients ~36,502
Darzalex Combination (combined with cyclophosphamide, bortezomib, and/or dexamethasone) Weekly treatments (PDA approved 2021]	NXC-201 – 75% (12/16) Complete Response rate at ASH 2024 (JCO 2024) One-time treatment Monotherapy Relapsed/Refractory ALA Patients 36,502 Eligible U.S. AL Amyloidosis Patients
IL SOC: 21 months median	Relapsed/Refractory
NASDAQ:PRTA Birtamimab (combined with Daralex, cyclophosphamide, bortezomib, and/or dexamethasone) [clinical trial]	<u>Blue Ocean Opportunity</u> No FDA Approved Drugs in Relapsed / Refractory AL Amyloidosis
AstraZeneca CAEL-101 Weekly Treatments Mayo Stage IIIb only (combined with Darzalex, cyclophosphamide, bortezomib, and/or dexamethasone) [clinical trial]	

Note: Public information development plans as of 2023. Dara-CyberD: Daratumumab, Bortezomib - cyclophosphamide + desamethasone. BMC: bortezomib, melphalan, and desamethasone. Source: Dima D, et al. Diagnostic and Treatment Strategies for AL Amyloidois surveit horeaution. ICO Oncol Pract. 2023, Immerse: Zepeda VH, et al. Understanding real-world treatment Strategies for AL Amyloidois surveit horeaution. ICO Oncol Pract. 2023, Immerse: Zet as Strategies for AL Amyloidois surveit horeaution. Incolored Pract. 2023, Immerse: Zet as Strategies for AL Amyloidois and their directions and for test directions and for test directions and for test directions. The Strategies for AL Amyloidois surveit horeaution. Incol Concel Pract. 2023, Immerse: Zet as Strategies for AL Amyloidois and their directions and for test directions and for test directions. Concerget 2: 023, 233, Immars 2: et al. Barried Testiment II A amyloidois surveit horeaution. Biol Concel Pract. 2023, Immerse: Zet as Strategies for AL Amyloidois surveit horeaution. Strategies for AL Amyloidois surveit here light chain and uncome with second-line treatment II A amyloidois surveit horeaution. Strategies for AL Amyloidois surveit here light chain and strategies for AL Amyloidois surveit here light chain and strategies for AL Amyloidois surveit here light chain and strategies for AL Amyloidois surveit here light chain and strategies for AL Amyloidois surveit here light chain and amyloidois surveit here light chai

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



Note: 8% long-term remission estimated based on 20% eligible for SCT x 40% achieving CR (associated with superior long survival)

Source Duck TP, Yan T, Chang E, Guthrie S, Broder MS. Epidemiology of AL amploidosis serveival endor duck 2018 May 222(10):1046-1053. doi: 10.1182/biodadwances.2018016402. PMID: 297484303 PMICI: PMC5956952. Staron A, et al. Amploidosis serveival endor duck 2018 May 222(10):1046-1053. doi: 10.1182/biodadwances.2018016402. PMID: 297484303 PMICI: PMC5956952. Staron A, et al. Amploidosis serveival endor the provide progress in the provide progress in the provide progress in the provide progress in the provide provide

NXC-201 May Be a Curative Treatment for AL Amyloidosis



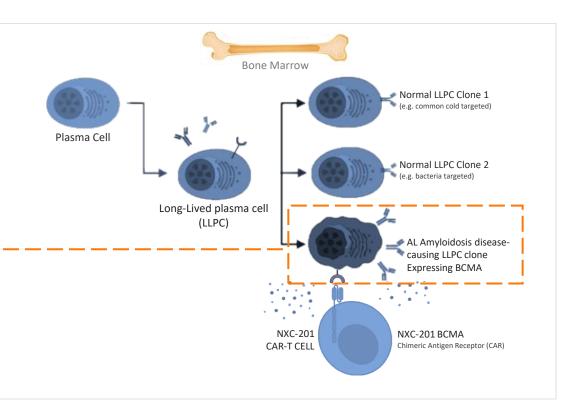
ALL BCMA CAR-TS ARE NOT CREATED EQUAL

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



Source: Molecta B, Johnson A, Lewis J, et al. Molecular Biology of the Cell. 4th edition. New York: Garland Science: 2002. The Generation of Antibody Disersity. Available forom: https://www.ncbi.nlm.nih.gov/books/NBR26860/; Wang Y, Li C, Xia J, Li P, Cao J, Pan B, Tan X, Li H, Qi K, Wang X, Shi M, Jing G, Yan Z, Cheng H, Zhu F, Sun H, Sang W, Li D, Zhang Y, Li Z, Meng H, Zhu F, Sun H, Sang W, Li D, Zhang Y, Li Z, Meng H, Zhu F, Sun H, Sang W, Li D, Zhang Y, Li Z, Mithody Disersity. Available forom: https://www.ncbi.nlm.nih.gov/books/NBR26860/; Wang Y, Li C, Xia J, Li P, Cao J, Pan B, Tan X, Li H, Qi K, Wang X, Shi M, Jing G, Yan Z, Cheng H, Zhu F, Sun H, Sang W, Li D, Zhang Y, Li Z, Mithody Disersity. Available forom: https://www.ncbi.nlm.nih.gov/books/NBR26860/; Wang Y, Li C, Xia J, Li P, Cao J, Pan B, Tan X, Li H, Qi K, Wang X, Shi M, Jing G, Yan Z, Cheng H, Zhu F, San H, Fang Y, Li Z, Mithody Disersity. Available forom: https://www.ncbi.nlm.nih.gov/books/NBR26860/; Wang Y, Li C, Xia J, Li P, Cao J, Pan B, Tan X, Li H, Qi K, Wang X, Shi M, Jing G, Yan Z, Cheng H, Zhu F, San H, Fang Y, Li Z, Mithody S, Mithody Disersity. Available forom: https://www.ncbi.nlm.nih.gov/books/NBR26860/; Wang Y, Li C, Xia J, Li P, Cao J, Pan B, Tan X, Li H, Qi K, Wang Y, Li C, Xia J, Li P, Cao J, Pan B, Tan X, Li H, Qi K, Yang Y, Li C, Xia J, Li P, Cao J, Pan B, Tan X, Li H, Qi K, Yang Y, Li Z, Mithody Y, Wang Y, Li Z, Mithody Y, L

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

2

ALL BCMA CAR-TS ARE NOT CREATED EQUAL



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:

the AL Amyloidosis target cells...

5 × 103

...NXC-201 CAR-Ts are activated in presence of

1

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

BCMA Expression (MFI)

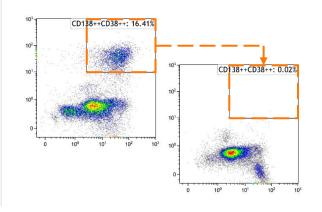
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AL



...completely eliminating AL Amyloidosis aberrant plasma cells from patient bone marrow.



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.

Target

NXC-201

Note: NXC-201 (formerly NBI0101). Infy TNFa for two patients, AL1, AL2. Far right top right quartile selected diseased AL Amyloidosis plasma cell elimination. Far right graph after 33 days co-incubated with NXC-201.

Source: Kfir-Erenfeld S, et al. Feasibility of a Novel Academic BCMA-CART (HBI0101) for the Treatment of Relapsed and Refractory AL Amyloidosis. Clin Cancer Res. 2022; Raje N, et al. Anti-BCMA CAR T-Cell Therapy bb2121 in Relapsed or Refractory Multiple Myeloma. N Engl J Med. 2019.

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

ALL BCMA CAR-TS ARE NOT CREATED EQUAL

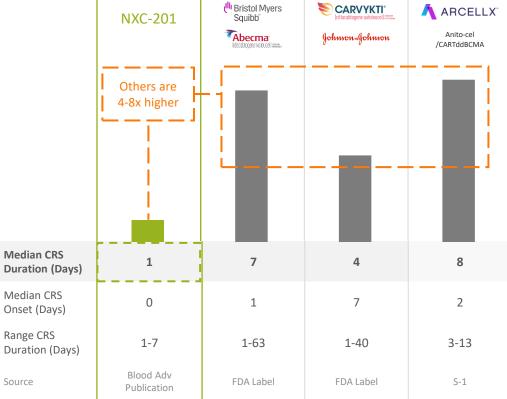
NXC-201's short CRS duration makes it **uniquely suitable to treat ALA patients** (in whom the #1 source of mortality is heart failure)

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 1023. Nov 2023 XOL discussion https://lifescievents.com/event/immixbio//NXC-201 (formerly HBID101) American Society of Hematology Presentation, Aber POA approval bale. Carekit 51. NNC-201 data from NEXICART-1 discussion https://lifescievents.com/event/immixbio/

Data in Multiple Myeloma

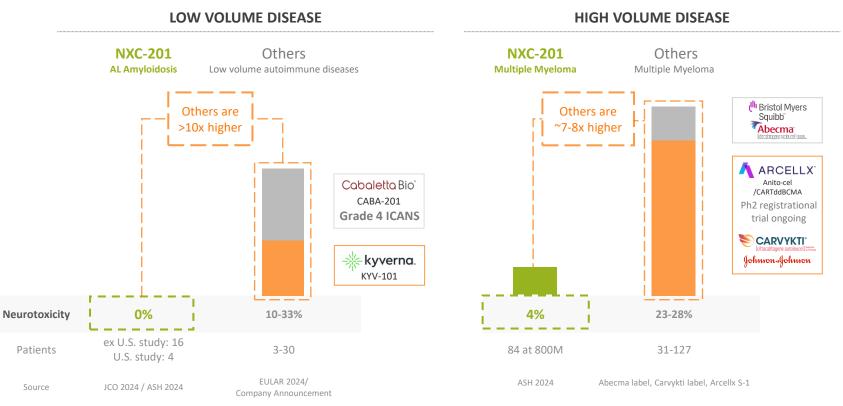




Overcoming Neurotoxicity

ALL BCMA CAR-TS ARE NOT CREATED EQUAL





Source: Carykti and Abecome TDA labels; Arcelds: 5.1. Assayage, et al. European Society for Blood and Marrow Transplantation 40th American Society for Blood and Marrow Transplantation 40th American Society for Blood and Marrow Transplantation 40th American Society of Gene and Cell Therapy (ASCCT). Late Breaking Corl Presentation. Baltimore, MD. May. 2024 Assayage, N., et al. European Society for Blood and Marrow Transplantation 40th American Society 20th Annual Meeting, 2023. Differences exists between trialdesigns and subject Antracteristics, and caution should be exercised when comparing data across strait comparing data across strait comparison and not results from a head-to head study. Kyrema corporate presentation. Baltimore, ML May 2024 Assayage, N., et al. European Society (OB Blood and Marrow Transplantation 40th American Society 20th Annual Meeting, 2023. Differences exists between trialdesigns and subject Antracteristics, and caution should be exercised when comparing data across strait comparing data across strait comparison and not results from a head-to head study. Kyrema corporate presentation. June 14, 2024. Accessed through hittps://www.ac.go/id/adce/Archives/degar/data/20009503702(30235212)/rcv2:2024661. https://www.ac.go/id/adce/Archives/degar/data/20009503702(30235212)/rcv2:202461. https://www.ac.go/id/adce/Archives/degar/data/20009503702(302352)/rcv2:202461. https://www.ac.go/id/adce/Archives/degar/data/200194702/000550372(302372)/rcv2:202461. https://www.ac.go/id/adce/Archives/degar/data/200194702/000550372(302372)/rcv2:202461. https://www.ac.go/id/adce/Archives/degar/data/200194702/000550372(302372)/rcv2:202461. https://www.ac.go/id/adce/Archives/degar/data/200194702/000550372(302372)/rcv2:202461. https://www.ac.go/id/adce/Archives/degar/data/200194702/000550372(302372)/rcv2:202461. https://www.ac.go/id/adce/Archives/degar/data/20019470702/000550372(302372)/rcv2:202461. https://www.ac.go/id/adce/Archives/degar/data/2001947070070005772(30243737)/rcv2:202461. https://www.ac.go/id/adce/Archiv

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

Source: Feasibility of a Novek Academic Anti-BoAM Chimeric Antigen Receptor T-Cell (ART) (HBI001) for the Treatment of Relaped and Refractory AL Amyloidosis, Biood Cancer Journal. October 2023. R. Chakraborty, et al. Safety and efficary of teclistamab in systemic immunoglobulin light chain amyloidosis, Biood Cancer Journal. October 2023. R. Chakraborty, et al. Safety and efficary of teclistamab in systemic immunoglobulin light chain amyloidosis, Biood Cancer Journal. October 2023. R. Chakraborty, et al. Safety and efficary of teclistamab in systemic immunoglobulin light chain amyloidosis, Biood Cancer Journal. October 2023. R. Chakraborty, et al. Safety and efficary of teclistamab in systemic immunoglobulin light chain amyloidosis, Biood Cancer Journal. October 2023. R. Chakraborty, et al. Safety and efficary of teclistamab in systemic immunoglobulin light chain amyloidosis, Biood Cancer Journal. October 2023. R. Chakraborty, et al. Safety and efficary of teclistamab in systemic immunoglobulin light chain amyloidosis, Biood Cancer Journal. October 2023. R. Chakraborty, et al. Safety and efficary of teclistamab in systemic immunoglobulin light chain amyloidosis, Biood Cancer Journal. October 2023. R. Chakraborty, et al. Safety and efficary of teclistamab in systemic immunoglobulin light chain amyloidosis, Biood Cancer Journal. October 2023. R. Chakraborty, et al. Safety and efficary of teclistamab in systemic immunoglobulin light chain amyloidosis, Biood Cancer Journal. October 2023. R. Chakraborty, et al. Safety and efficary of teclistamab in systemic immunoglobulin light chain amyloidosis, Biood Cancer Journal. October 2023. R. Chakraborty, et al. Safety and efficary of teclistamab in systemic immunoglobulin light chain amyloidosis statemic dei dei COUN-19

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					Status		
Open-label, single-arm Phase	1b/2 study		Lead site	Memorial S	Sloan Ke	ettering and othe	r US site	s started mid-2024
n=40 patients (majority of wheeled the second	n=40 patients (majority of which expected to be enrolled in Phase 2 portion)							
	Key criteria							
Inclusion	idosis patients exposed to at least 1 line of t nal antibody	herapy including a CD38		✓		Ongoing		
Exclusion • Cardiac: N	-BCMA directed therapy Mayo stage 3b, NYHA stage III/IV cant Multiple Myeloma			Dose lection		Dose Expansion	•	FDA Submission
	Outcome measures							
 Phase 1b: Safety Efficacy: Complete Response consensus recommendationamyloidosis 	e according to consensus recon	te Response according to nmendations in AL	•	•		el trial in which Comp Ill dose levels: 150M,		onses in light
Relapsed/Refractory AL Amyloidosis NXC-201 trial	Allows pre-existing severe cardiac patient enrollment?	Allows patients with targeted therapy e				ents with iple Myeloma?		Company believes
NEXICART-1: ongoing Israel trial	XYes	X Yes			X Ye	5		NEXICART-2 patients are most likely to benefit from
NEXICART-2: ongoing US trial	✓ No	🗸 No			🗸 No)		NXC-201 therapy

Note: Complete Response according to consensus recommendations in AL amyloidosis (Palladini, et al. 2012. "Consensus guidelines for the conduct and reporting of clinical trials in systemic light-chain amyloidosis." Leukemia 26(11): 2317-2325.)

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



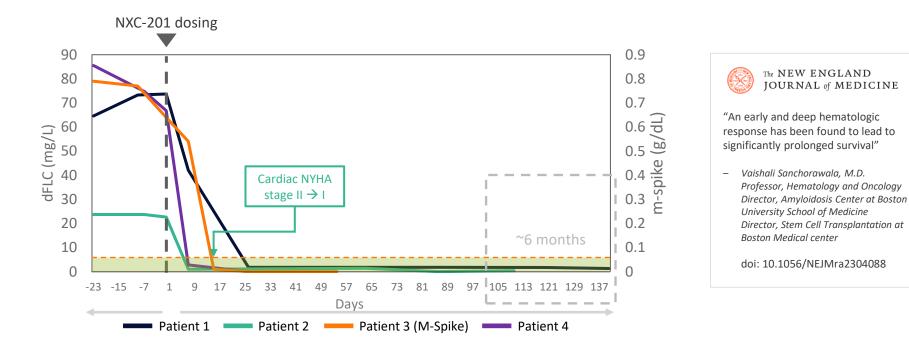
Preserved heart function

Patient #	1	2	3	4	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	-

Note: Data cut-off as of November 14, 2024. For patient 001-001, prior lines of therapy included 1) Cyclophosphamide/bottecomik) desamethasone, 4) Statumab. For patient 001-002, prior lines included 1) Bottecomik/desamethasone, 2) ASCT, 3) Bortecomik/desamethasone, 4) Bartaumunab, 5) Pomalidomide and desamethasone, 9) ASCT, 3) Bortecomik/desamethasone, 4) ASCT, 3) Bortecomik/desamethasone, 4) Bortacomik/desamethasone, 4) Bortacomik/desamethasone,

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

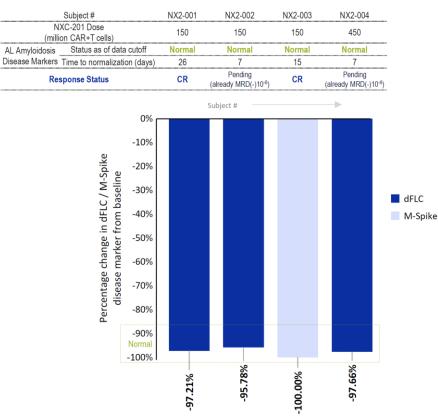




Note: Data cut-off as of November 14, 2024. Vein-to-vein time was 12 days for patients 001-001, 001-002, 001-003, 001-004. dFLC: difference in free light chain (disease marker). Complete response according to consensus recommendations for AL Amyloidosis treatment response criteria (Palladini, 2012).

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

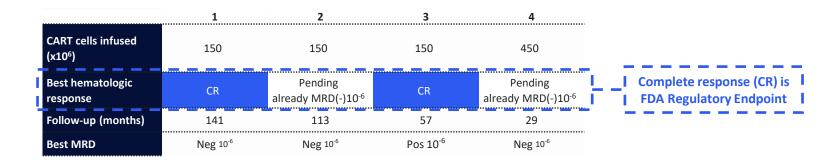


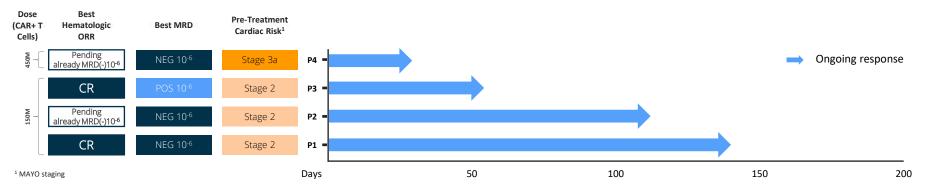


Note: Data cut-off as of November 14, 2024. Vein-to-vein time was 12 days for patients 001-001, 001-002, 001-003, 001-004. dFLC: difference in free light chain (disease marker). Complete response according to consensus recommendations for AL Amyloidosis treatment response criteria (Palladini, 2012).

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 VJ, et al. Venetodax induces deep hematologic remissions in [111].4].10. doi: 10.1038/s41408-020-00397-w. PMID: 33431806; PMCID: PMC7801694. Theodorakakou F, et al. Outcomes of patients with light chain (AL) amyloidosis after failure of daratumurab-based therapy. Br | Memetal. 2023 Nov23 (3):1411-15. doi: 10.1111/bj.10.202. 20197-w. PMID: 33431806; PMCID: PMC7801694. Theodorakakou F, et al. Outcomes of patients with light chain (AL) amyloidosis after failure of daratumurab-based therapy. Br | Memetal. 2023 Nov23 (3):141-15. doi: 10.1111/bj.10.202. 201927-14. doi: 10.1038/s41408-020-00397-w. PMID: 33431806; PMCID: PMC7801694. Theodorakakou F, et al. Outcomes of patients with light chain (AL) amyloidosis after failure of daratumurab-based therapy. Br | Memetal. 2023 Nov23 (3):141-15. doi: 10.1111/bj.10.202. 201927-14. doi: 10.1

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

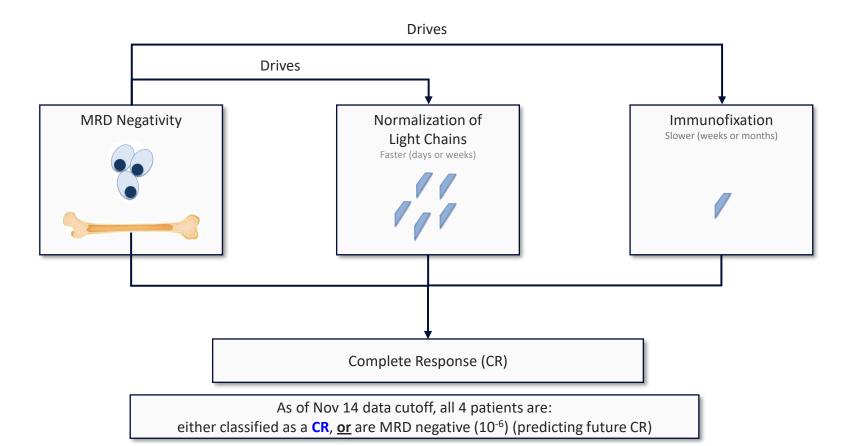


- No ICANS neurotoxicity of any kind
- Grade 2 CRS in one patient, Grade 1 CRS in one patient, both with 1 day duration

	Patient #	1	2	3	4	
_	CART Cell Dose (x10 ⁶)	150	150	150	450	
Ē	Neurotoxicity	None	None	None	None	
Ξ	Cytokine release syndrome (CRS)	None	None	Grade 2	Grade 1	
Ē	CRS Onset (days)	-	-	3	3	
Ľ	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	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	× 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)

Note: Source for daratumumab information is ANDROMEDA (NCT03201965). NXC-201 information on this slide is illustrative only and represents current plan.

NEXICART-1: <u>Ex-US</u> CAR-T NXC-201 Clinical Trial

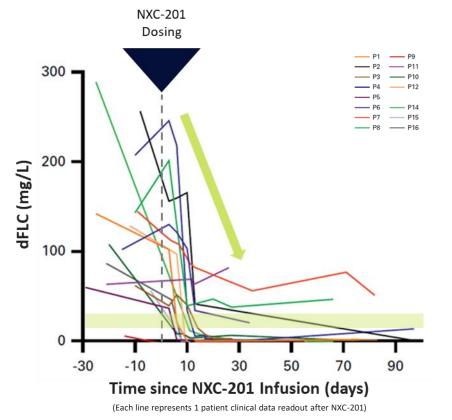




NEXICART-1: Normalization of Diseased Free Light Chains 30 Days after Dosing

NXC-201 RAPIDLY FLIMINATES DISFASED ALAMYLOIDOSIS 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

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

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, Gl	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, Gl	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)
Trop 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	
ECOG 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

Note: Data cut-off as of December 9, 2024. E Lybel 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. Eyal Lebel et al., Efficacy and Safety of Anti-B-Cell Maturation Antigen Receptor T-Cell for the Treatment of Relapsed and Refractory AL Amyloidosis. Presentation. ASH 2024. Eyal Lebel et al., Efficacy and Safety of Anti-B-Cell Maturation Antigen Receptor T-Cell for the Treatment of Relapsed and Refractory AL Amyloidosis. Presentation. ASH 2024. Eyal Lebel et al., Efficacy and Safety of Anti-B-Cell Maturation Antigen Receptor T-Cell for the Treatment of Relapsed and Refractory AL Amyloidosis. Device Anti-B-Cell Maturation Antigen Receptor T-Cell for the Treatment of Relapsed and Refractory AL Amyloidosis. Device Anti-B-Cell Maturation Antigen Receptor T-Cell for the Treatment of Relapsed and Refractory AL Amyloidosis. Device Anti-B-Cell Maturation Antigen Receptor T-Cell for the Treatment of Relapsed and Refractory AL Amyloidosis. Device Anti-B-Cell Maturation Antigen Receptor T-Cell for the Treatment of Relapsed and Refractory AL Amyloidosis. Device Anti-B-Cell Maturation Antigen Receptor T-Cell for the Treatment of Relapsed and Refractory AL Amyloidosis. Device Anti-B-Cell Maturation Antigen Receptor T-Cell for the Treatment of Relapsed and Refractory AL Amyloidosis. Device Anti-B-Cell Maturation Antigen Receptor T-Cell for the Treatment of Relapsed and Refractory AL Amyloidosis. Device Anti-B-Cell Maturation Antigen Receptor T-Cell for the Treatment of Relapsed and Refractory AL Amyloidosis. Device Anti-B-Cell Maturation Antigen Receptor T-Cell for the Treatment of Relapsed and Refractory AL Amyloidosis. Device Anti-B-Cell Maturation Antigen Receptor T-Cell for the Treatment of Relapsed and Refractory AL Amyloidosis. Device Anti-B-Cell Maturation Antigen Receptor Anti-B-Cell Maturation Antigen Receptor Anti-B-Cell Maturation Antigen Receptor Anti-B-Cell Maturation Antigen Receptor Anti-B-Cell Ma

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



Best Pre-Treatment Hematologic Best MRD Cardiac Risk¹ ORR sCR/CR Ongoing response <CR/CR Stage : Cardiac death in CR/VGPR sCR/CR Cardiac death while in PD sCR/CR P13 Stage : +CR/CR D12 Discontinued Preserved heart sCR/CR POS 10-5 Stage 2 P10 sCR/CR function Stage 1 VGPR POS 10⁻⁵ Stage 1 P8 sCR/CR NEG 10⁻⁸ Stage 2 P5 sCR/CR NEG 10⁵ Stage 1 P3 Target For U.S. AL Amyloidosis **Clinical Trial Patient Enrollment:** 90% complete response rate • Extended response duration . Would have been excluded from Stage 2 P11 -U.S. clinical trial Pre-existing 50% complete response heart failure rate Limited response duration due to pre-existing heart sCR/CR failure SCR/CR a P1 sCR/CR MAYO staging Days 1000 500 600 700 800 900

Duration of response (ASH 2024)

sCR: strict complete response, CR: complete response

Note: 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. Exclusion criteria: Mayo Stage 3b, NYHA 3/4, prior BCMA exposure. Patient 9 death due to depression. Eval Lebel et al., Efficacy and Safety of Anti-B-Cell Maturation Antigen Chimeric Antigen Receptor T-Cell for the Treatment of Relapsed and Refractory AL Amyloidosis. JCO 0, JCO-24-02252. DOI:10.1200/JCO-24-02252.

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



Preserved heart function

Pre-existing heart failure

Patient #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
CART cells infused	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	

- 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%

Note: Data cut-off as of December 9, 2024. E Lebel et al. Efficacy and Safety of Anti-BCMA Chimeric Antigen Receptor T-Cell (ARM) for the Treatment of Relapsed and Refractory AL Amyloidosis. Presentation. ASH 2024. Follow-up duration, estimated internally based on ASH 2024 published swimmer plot. Premkumar VJ, et al. Venetodax induces deep hematologic remissions in t(1):14) relapsed/refractory AL amyloidosis. Blood Cancer J. 2021 Jan 11;11(1):10. doi: 10.1038/s41408-2040-0397-w. PMID: 39431806; PMID: PMC7801694. Theodorakakou F, et al. Outcomes of patients with light chain (AL) amyloidosis after failure of daratumumab-based therapy. Br J Haematol. 2023 Nov;203(3):411-415. doi: 10.1111/bjh.19042. Epub 2023 Aug. 14.PMID: 39431806; PMID: PMC7801694. Theodorakakou F, et al. Outcomes of patients with light chain (AL) amyloidosis after failure of daratumumab-based therapy. Br J Haematol. 2023 Nov;203(3):411-415. doi: 10.1111/bjh.19042. Epub 2023 Aug. 14.PMID: 394218007. Fould between therapy and Refractory AL Amyloidosis. J Color 24.2025. DOI: 10.1011/bjh.10042. Theodorakakou F, et al. Outcomes of patients with light chain (AL) amyloidosis after failure of daratumumab-based therapy. Br J Haematol. 2023 Nov;203(3):411-415. doi: 10.1111/bjh.19042. Epub 2023 Aug. 14.PMID: 394218007. Found therapy and Refractory AL Amyloidosis. J Color 24.2025. DOI: 10.1111/bjh.10042. Theodorakakou F, et al. Outcomes of patients with light chain (AL) amyloidosis after failure of herapy. Br J Haematol. 2023 Nov;203(3):411-415. doi: 10.1111/bjh.19042. Epub 2023 Aug. 14.PMID: 394218007. Found therapy and therapy after failure of herapy afte

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

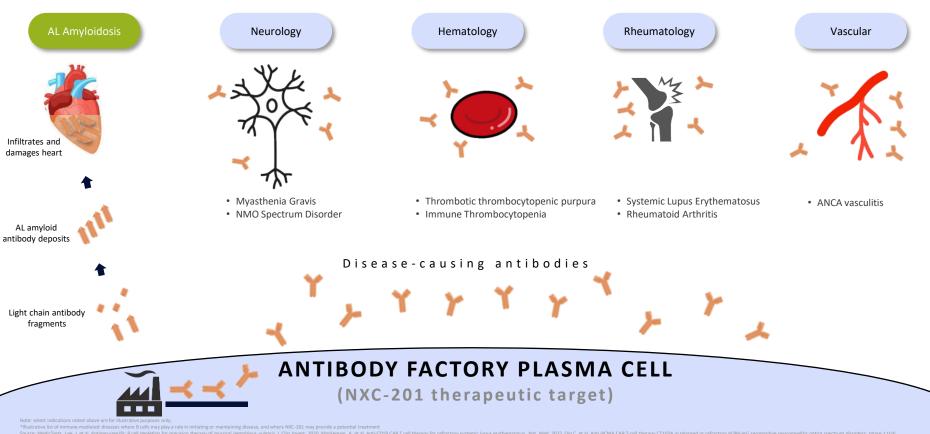




CAR-T NXC-201 Targets Plasma Cells (antibody factories of the body)

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



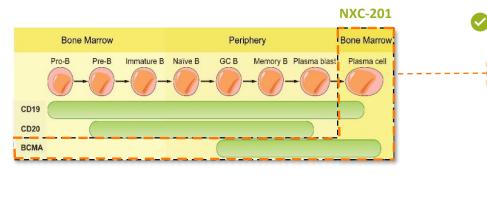


Source: MediCless, Lee, J. et al. Antigen-specific & Red Bepletion for precision therapy of muscaal penphipus vulgaris. J. Clin mest. 2020. Mackensen, A. et al. Anti-DOB CAR T Cell therapy for refractory systemic lupus erythematosus. Nat. Med. 2022. Clin C, et al. Anti-BeCMA CAR T-Cell therapy of muscaal penphipus vulgaris. J. Clin mest. 2020. Mackensen, A. et al. Anti-DOB CAR T Cell therapy for refractory Apple Garagestine according to rest. 2023. Ginc Healt, Mackensen, J. et al. Source and the according to rest. 2023. Ginc Healt, Mackensen, J. et al. Source and the according to rest. 2023. Micro Healt, Mackensen, J. et al. Anti-DOB CAR T-Cell therapy for refractory Apple Garagestine according to rest. 2023. Micro Healt, 202

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





~80% of all auto-antibodies in immune-mediated disease are produced by long-lived plasma cells... BCMA is expressed on long lived plasma cells

NXC-201 BCMA CART targets long lived plasma cells (LLPC), targeting the source of disease-causing antibodies

• CD19 therapies target earlier lineage B-Cells, allowing LLPCs to persist

Immix Biopharma unaddressed IMD indication selection criteria High unmet medical need Image: Comparison of the c

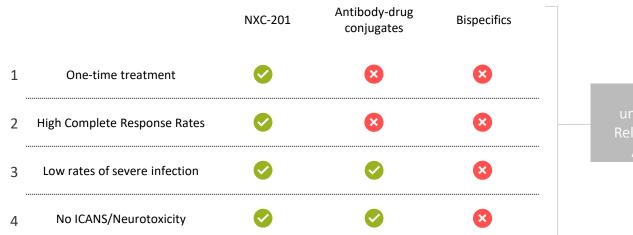
Appendix

January 2025





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



NXC-201 uniquely suited for Relapsed/Refractory AL Amyloidosis



Note: High complete response rates defined as >50%. Low rates of severe infection refers to <30%

Source: Feasibility of a Novel Academic Anti-BCMA Chimeric Antigen Receptor T-Cell (CART) (H8I0101) for the Treatment of Relapased and Refractory AL Amyloidosis, SB ASH Annual Meeting and Exposition, San Diego, CA October 2023. R. Chakraborty, et al. Safety and efficacy of teclistamab in systemic immunoglobulin light chain amyloidosis. Blood Cancer Journal. October 2023. N. Forgeard, et al. Teclistamab in relapased refractory AL amyloidosis, and lettory active activ In AL Amyloidosis, NXC-201 Overcomes Limitations of Other Modalities in Performance and Tolerability



ˈin is

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

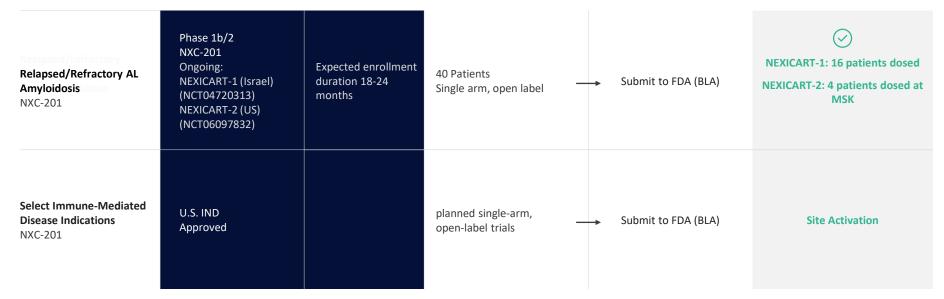
Source: Feasibility of a Novel Academic Anti-BGMA Chimeric Antigen Receptor T-Cell (CART) (HBI0101) for the Treatment of Relayed and Refractory AL Amyloidosis, Blood Cancer Journal. October 2023. R. Chakraborty, et al. Safety and efficacy of tedistamab in systemic immunoglobulin light chain amyloidosis. Blood Cancer Journal. October 2023. R. Forgeard, et al. Teclistamab in registerior (Anti-BGM) Cancer Journal. October 2023. R. Chakraborty, et al. Safety and efficacy of tedistamab in systemic immunoglobulin light chain amyloidosis. Blood Cancer Journal. October 2023. R. Chakraborty, et al. Safety and efficacy of tedistamab in systemic immunoglobulin light chain amyloidosis. Blood Cancer Journal. October 2023. R. Chakraborty, et al. Safety and efficacy of tedistamab in systemic immunoglobulin light chain amyloidosis. Blood Cancer Journal. October 2023. R. Chakraborty, et al. Safety and efficacy of tedistamab in systemic immunoglobulin light chain amyloidosis. Blood Cancer Journal. October 2023. R. Chakraborty, et al. Safety and efficacy of tedistamab in systemic immunoglobulin light chain amyloidosis. Blood Cancer Journal. October 2023. R. Chakraborty, et al. Safety and efficacy of tedistamab in systemic immunoglobulin light chain amyloidosis. Blood Cancer Journal. October 2023. R. Chakraborty, et al. Safety and efficacy of tedistamab in systemic immunoglobulin light chain amyloidosis. Blood Cancer Journal. October 2023. R. Chakraborty, et al. Safety and efficacy of tedistamab in systemic immunoglobulin light chain amyloidosis. Blood Cancer Journal. October 2023. R. Chakraborty, et al. Safety and efficacy of tedistamab in systemic immunoglobulin light chain amyloidosis. Blood Cancer Journal. October 2023. R. Chakraborty, et al. Safety and efficacy of tedistamab in systemic immunoglobulin light chain amyloidosis patient defide of COVID-19

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





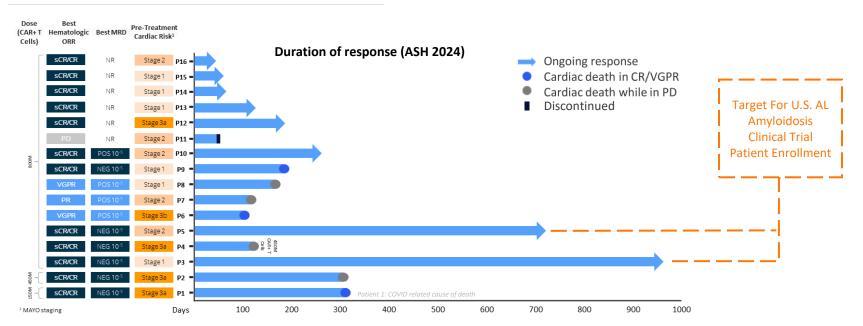
Note: 63 Relapsed/Refractory multiple myeloma patients have been dosed with NXC-201 in the ex-US NEXICART-1 clinical trial. Immix Biopharma is not actively pursuing US commercial approval in Relapsed/Refractory multiple myeloma at this time.

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 2023); Carvykti/J&J (single arm study 97 patients in efficacy results population, FDA approved 2023); Carvykti/J&J (single arm study 97 patients in efficacy results population, FDA approved 2023); Carvykti/J&J (single arm study 97 patients in efficacy results population, FDA approved 2023); Carvykti/J&J (single arm study 97 patients in efficacy results population, FDA approved 2023); Carvykti/J&J (single arm study 97 patients in efficacy results population, FDA approved 2023); Carvykti/J&J (single arm study 97 patients in efficacy results population, FDA approved 2023); Carvykti/J&J (single arm study 97 patients in efficacy results population, FDA approved 2023); Carvykti/J&J (single arm study 97 patients in efficacy results population, FDA approved 2023); Carvykti/J&J (single arm study 97 patients in efficacy results population, FDA approved 2023); Carvykti/J&J (single arm study 97 patients in efficacy results population, FDA approved 2023); Carvykti/J&J (single arm study 97 patients in efficacy results population, FDA approved 2023); Carvykti/J&J (single arm study 97 patients in efficacy results population, FDA approved 2023); Carvykti/J&J (single arm study 97 patients in efficacy results population, FDA approved 2023); Carvykti/J&J (single arm study 97 patients in efficacy results population, FDA approved 2023); Carvykti/J&J (single arm study 97 patients in efficacy results population, FDA approved 2023); Carvykti/J&J (single arm study 97 patients in efficacy results population, FDA approved 2023); Carvykti/J&J (single arm study 97 patients in efficacy results population, FDA approved 2023); Carvykti/J&J (single arm study 97 patients in efficacy results population, FDA approved 2023); Carvykti/J&J (single arm study 97 patients in efficacy results population, FDA approved 2023); Carvykti/J&J (singl

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

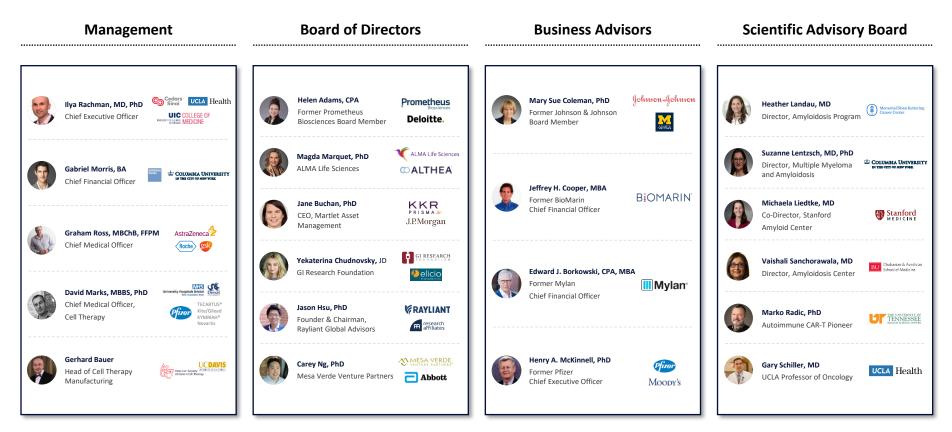


sCR: strict complete response, CR: complete response

Note: 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. Patient 9 death due to depression.



World-Class Team



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

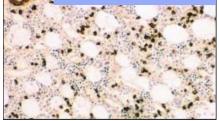


AL Amyloidosis pathologic light chains emerge from deep in the bone marrow where they are produced by pathologic antibody factory plasma cells

Traditional antibody-based therapies primarily address passively accessible target cells

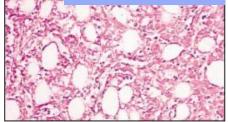
NXC-201 is the only AL amyloidosis therapy in clinical development that actively penetrates deep into the bone marrow

Diseased AL amyloidosis bone marrow contains densely populated disease-causing antibody factory plasma cells



Immunoperoxidase with hematoxylin counterstain, ×100

These disease-causing plasma cells generate a high density of amyloid deposits that saturate the bone marrow space



Periodic acid–Schiff, ×100

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

Inserm

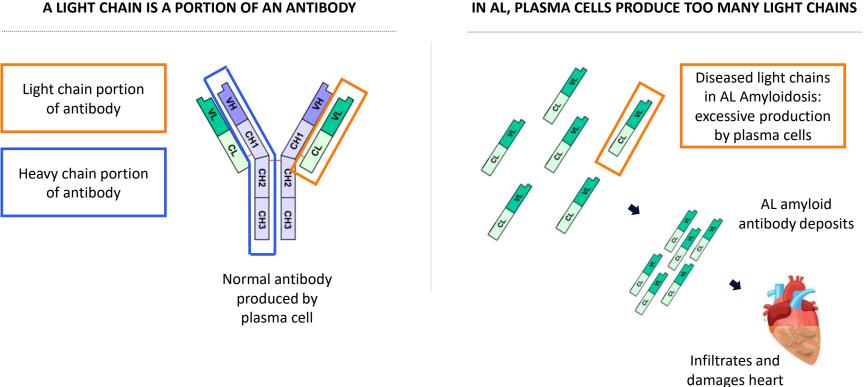
"Plasma cells (PC) were detected in the [organs] of patients ... up to 6 months after rituximab treatment, and the PC population displayed a long-lived program"

doi:10.1172/JCI65689

Source: N Swan et al. Bone Marrow Core Biopsy Specimens in AL (Primary) Amyloidosis. Hematopathology. Am J Clin Pathol 2003. DOI: 10.1309/PFUGHBX0TV20E08U.. Mahévas M, et al. B cell depletion in immune thrombocytopenia reveals splenic long-lived plasma cells. J Clin Invest. 2013 Jan;123(1):432-42. doi: 10.1172/JCl65689. Epub 2012 Dec 17. PMID: 23241960; PMCD: PMC353330.

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

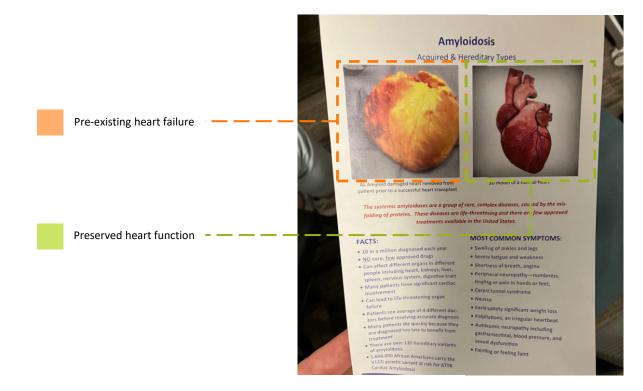




This Is Pre-Existing Heart Failure in AL Amyloidosis

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

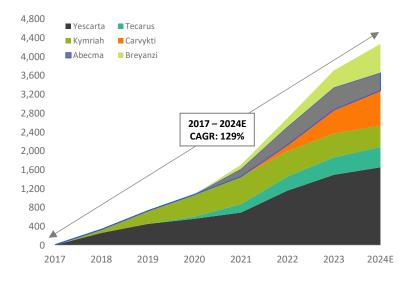




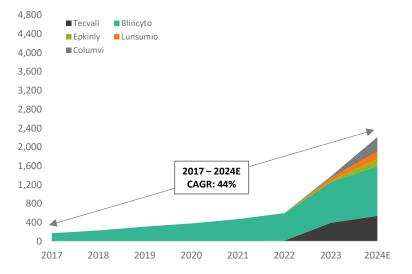
Robust Global Sales of CAR-T Continue



Sales of Approved CAR-T (\$M)

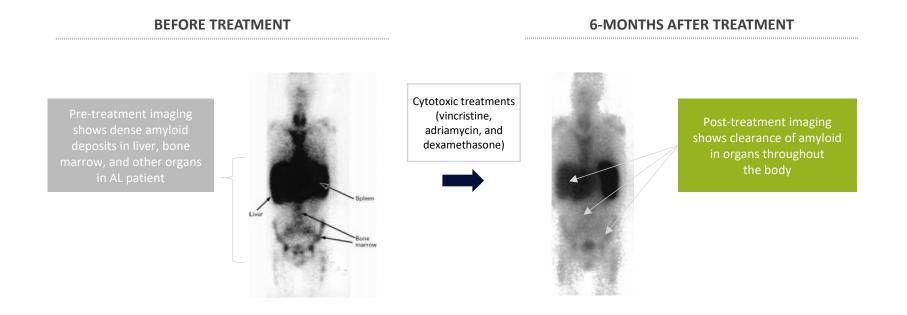


Sales of Approved Bispecifics (\$M)



Amyloid deposits in AL Amyloidosis are cleared naturally after treatment

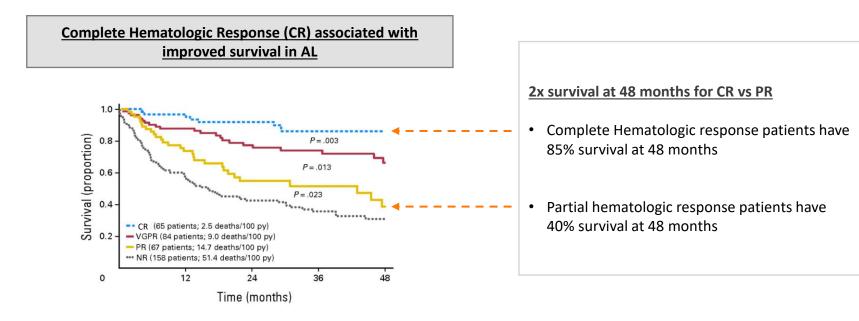




Complete Hematologic Response is correlated with longer survival

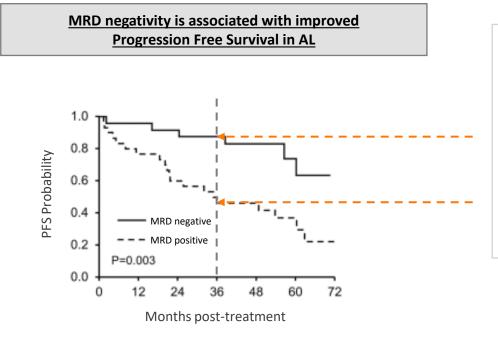
COMPLETE HEMATOLOGIC RESPONSE WAS PRIMARY ENDPOINT IN 2021 DARATUMUMAB APPROVAL STUDY AND ONGOING NEXICART-2 TRIAL





Source: Adapted from Palladin G, Dispentier A, Gertz MM, Kumar S, Wechalekar A, Hawkins PN, Schönland S, Hegenbart U, Comenzo R, Kastritis E, Dimopoulos MA, Jaccard A, Xiery C, Merlini G. New criteria for response to treatment in immunoglobulin light chain amyloidosis based on free light chain measurement and cardiac biomarkers: impact on survival outcomes. J Clin Oncol. 2012 Dec 203(6):4541-934. doi: 10.1020/JCC.2013.70164. Eyeb 203010-052.





<u>2x PFS at 36 months for MRD- vs MRD+</u> (patients with CR or VGPR)

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

Note: Adapted from Muchtar F, Dispentier A, Jevernovic D, Dinglio, Baudi FK, Lacy MG, Gonalves W, Warsame R, Kourelis TV, Hayman SR, Kapoor P, Leung N, Russell S, Lust JA, Lin Y, Go RS, Zeldenrust S, Kyle RA, Rajkumar SV, Kumar SK, Gertz MA. Survival impact of achieving minimal residual negativity by multi-parametric flow cytometry in AL amyloidosis. Amyloid. 2020 Mar;22(1):13-16. doi: 10.1008/13050125021201166/075-08.



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



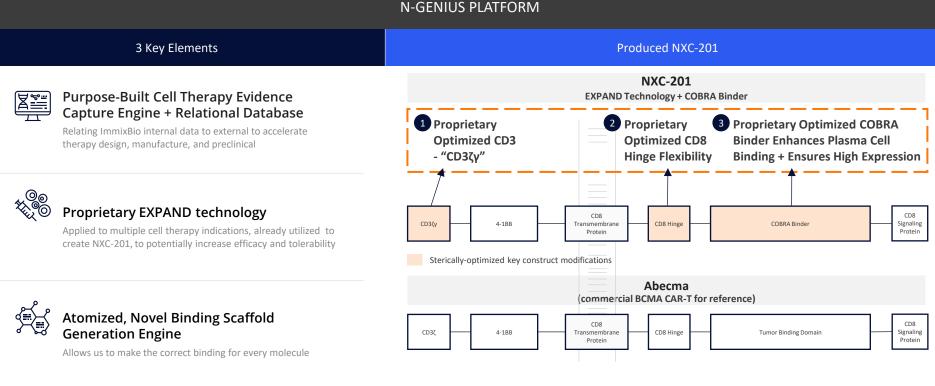




N-GENIUS Platform has produced sterically-optimized BCMA CAR-T NXC-201 with COBRA binder and EXPAND technology



ALL BCMA CAR-TS ARE NOT CREATED EQUAL

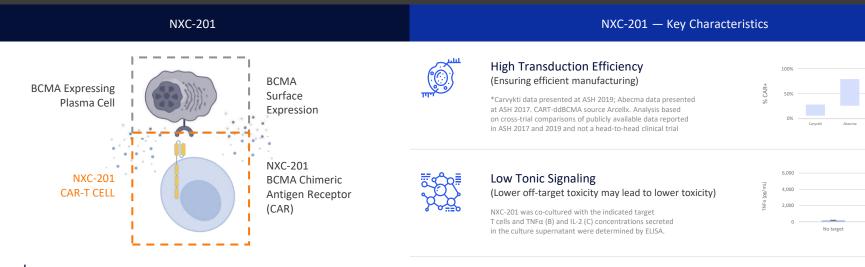




CART-ddBCMA

K562-BCMA

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



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)

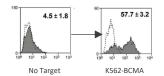
- High Overall Response Rates in AL Amyloidosis and Multiple Myeloma
- First Outpatient CAR-T: Short CRS duration (median 1 days) starting on day 1



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 $\,$

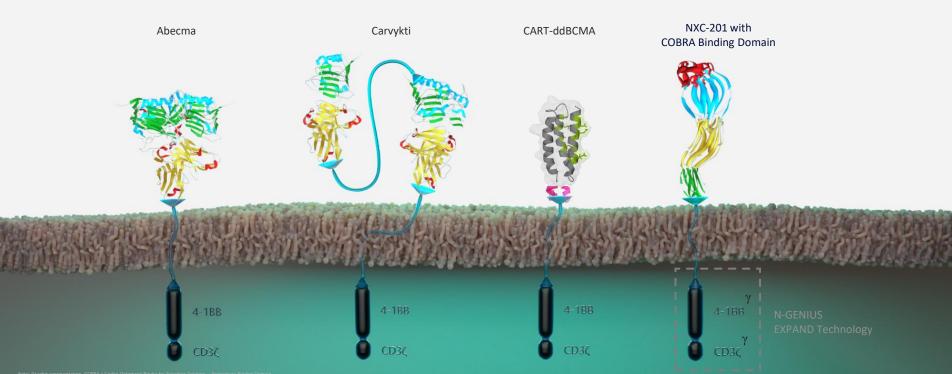


Source: Development and manufacturing of novel locally produced anti-BCMA CART cells for the treatment of relapsed/refractory multiple myeloma: phase I clinical results. Haematologica. 2022 Oct 6. doi: 10.3324/haematol.2022.281628. Epub ahead of print. PMID: 36200421.

Proprietary EXPAND Technology and COBRA Binding Domain Are Differentiated Innovations



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



Note: Graphic representation. COBRA = Codon Optimized Binder for Receptor Antigens – Proprietary Binding Domain



Relapsed/Refractory Light chain (AL) Amyloidosis

		Johnron-Johnron	AstraZeneca	€ prothena•
	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%

Bitraminab Source from JCO (Bitraminab development passed + restarted), CAEI-101 source: Edwards CV, et al. Phase La/b study of monoclonal antibody CAEI-101 (11-1F4) in patients with AL amyloidosis. Blood. 2021 Dec 23;138(25):2632-2641. doi: 10.1182/blood.2020090939. PMID: 34521113; PMCDD: PMC8703360. Daralex source from Blood. Point-of-care CART manufacture and delivery: Poster. Poster Presentation, ESAMT 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: ASH 2023. Daralex and Investigator's Choice : Theodoralakou, et al, Blood 2022. Astra Zeneca: Blood 2021 INIC-2019 patients at ASGCT 2024 with no prior exposure to BCMA targeted bispecifics

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



	a				
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%)	

NXC-201 tolerability data in Relapsed/Refractory Multiple Myeloma

ICANS neurotoxicity					
Cohort 1 (N=6) Cohort 2 (N=7) Cohort 3 (N=50) Overall (
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

Source: Klin-Eended S, Asherie N, Lebel F, Vainstein V, Assayag M, Dubnikov Sharon T, Grisariu S, Awni B, Blas S, Alexander S-Asherie N, Lebel F, Zimana E, Pick M, Roainer J, Kenett RS, Cohen Y, Avivi I, Cohen CJ, Gatt ME, Stepensky P. Clinical-evaluation and determinants of response to HB0201 (BCMA CART therapy in relapsed/refractory multiple myeloma: Blood Adv. 2024 Aug 13;8(15):4077-4088. doi: 10.1182/bloodvances.2024012967. PMID: 387664428. Asherie N, Klin-Ferneld S, Anvi B, Assayag M, Dubnikov T, Zalman N, Lebel E, Ziman E, Pick M, Roainer J, Kenett RS, Cohen Y, Avivi I, Cohen C, Gatt ME, Stepensky P. Clinical-evaluation and determinants of response to HB0201 (BCMA CART cells for the treatment of relapsed/refractory multiple myeloma: results from a phase Lelinical trial. Haematologica. 2023 ul 11:687(1):1827-1839. doi: 10.3324/haematol.2022.281628. PMID: 38204921; PMCID: PMCID: 4520421; PMCID: PMCID:

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 ≤Grade 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

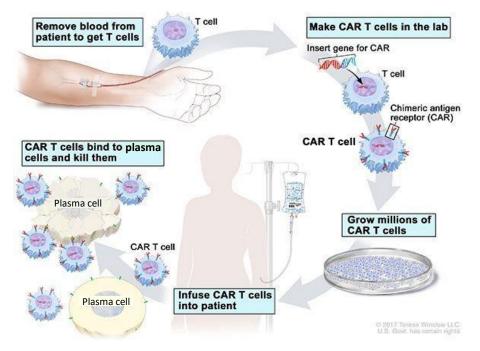


	NXC-201 (NEXICART-1 NCT04720313)	Abecma (pivotal NCT03361748)	Carvykti (pivotal NCT03548207)	CART-ddBCMA (pivotal NCT05396885)
Prior BCMA therapy	No exclusion	BCMA targeted therapy	Have received any therapy that is targeted to B- cell maturation antigen (BCMA)	Prior B-cell maturation antigen (BCMA) directed 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





CAR T-cell Therapy

Patient Specific

Personalized treatment using patient's own T cells

Genetic Modification

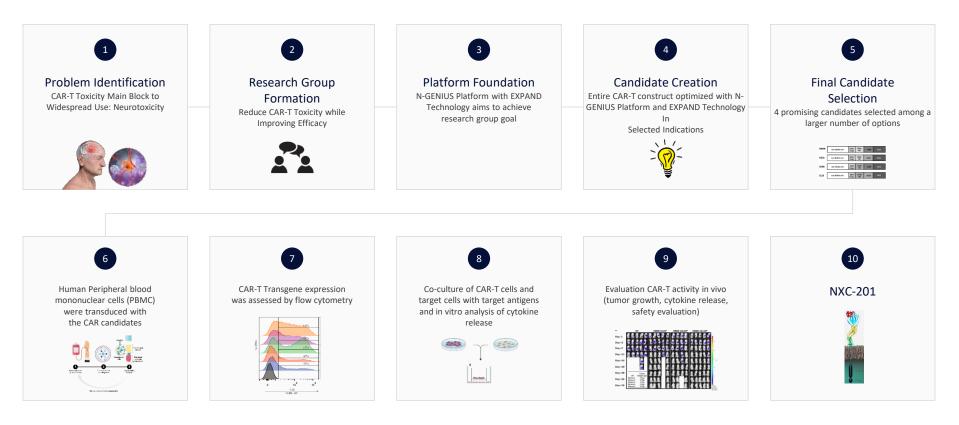
Genetically engineered CARs (chimeric antigen receptors) on T cell surface

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

January 2025



