



CARIBOU
BIOSCIENCES®

July 13, 2023

CB-010 clinical program update

Transformative genome-edited therapies for patients

Forward-looking statements

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As a result of many factors, including risks related to our limited operating history, history of net operating losses, financial position and our ability to raise additional capital as needed to fund our operations and product candidate development; uncertainties related to the initiation, cost, timing, and progress, and results of our current and future research and development programs, preclinical studies, and clinical trials; risks that initial or interim clinical trial data will not ultimately be predictive of the safety and efficacy of our product candidates or that clinical outcomes may differ as more clinical data becomes available; the risk that preclinical study results we observed will not be borne out in human patients; our ability to obtain and maintain regulatory approval for our product candidates; risks that our product candidates, if approved, may not gain market acceptance due to negative public opinion and increased regulatory scrutiny of cell therapies involving genome editing; our ability to meet future regulatory standards with respect to our products; our ability to establish and/or maintain intellectual property rights covering our product candidates and genome-editing technology; risks of third parties asserting that our product candidates infringe their patents; developments related to our competitors and our industry; our reliance on third parties to conduct our clinical trials and manufacture our product candidates; the impact of COVID-19 and other public health crises and geopolitical events on our business and operations; and other risks described in greater detail in our filings with the Securities and Exchange Commission (the "SEC"), including the section titled "Risk Factors" of our Annual Report on Form 10-K for the year ended December 31, 2022, and other filings we make with the SEC; the events and circumstances reflected in our forward-looking statements may not be achieved or may not occur, and actual results could differ materially from those described in or implied by the forward-looking statements contained in this presentation.

Caution should be exercised when interpreting results from separate trials involving separate product candidates: The results of other companies' CAR-T cell therapies presented in these slides have been derived from publicly available reports of clinical trials run independently of Caribou. The Company has not performed any head-to-head trials comparing any of these other CAR-T cell therapies with CB-010. As such, the results of these other clinical trials may not be comparable to clinical results for CB-010. The design of these other trials vary in material ways from the design of the clinical trials for CB-010, including with respect to patient populations, follow-up times, the clinical trial phase, and subject characteristics. As a result, cross-trial comparisons may have no interpretive value on the Company's existing or future results. For further information and to understand these material differences, you should read the reports for the other companies' clinical trials and the sources included in this presentation.

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This presentation shall not constitute an offer to sell or the solicitation of an offer to buy any securities.



The future of CAR-T cell therapies is off-the-shelf

ANTLER dose escalation data

Rachel Haurwitz, PhD
President & CEO
Caribou Biosciences, Inc.



Today's guest



Loretta J. Nastoupil, MD

Deputy chair and associate professor in the
department of lymphoma/myeloma

**The University of Texas MD Anderson
Cancer Center**



With gratitude for patients, caregivers, investigators

- University of Texas MD Anderson Cancer Center
- Chao Family Comprehensive Cancer Center / University of California Irvine, Orange
- Oncology Hematology Care, Cincinnati
- Baylor Charles A. Sammons Cancer Center, Dallas
- Huntsman Cancer Institute at the University of Utah
- HonorHealth, Scottsdale
- University of California San Diego Moores Cancer Center, La Jolla
- University of Arizona Cancer Center, Tucson
- Holden Comprehensive Cancer Center at University of Iowa, Iowa City
- Atlantic Health System, Morristown
- Ohio State University James Cancer Hospital, Columbus
- Additional sites coming soon

THANK YOU

for your contributions
toward Caribou's mission to
develop innovative,
transformative therapies for
patients with devastating
diseases through novel
genome editing



CB-010 dose escalation data rival approved autologous CAR-T cell therapies

94%

overall response rate (ORR)¹

69%

complete response (CR) rate²

44%

complete response (CR) rate ≥6 months³

16

dose escalation patients

1

lymphodepletion regimen evaluated

1

1 dose per patient, 3 dose levels evaluated, all generally well tolerated

¹ 94% ORR measures number of patients (15 of 16) achieving either a CR or partial response (PR) at any time point after treatment with CB-010.

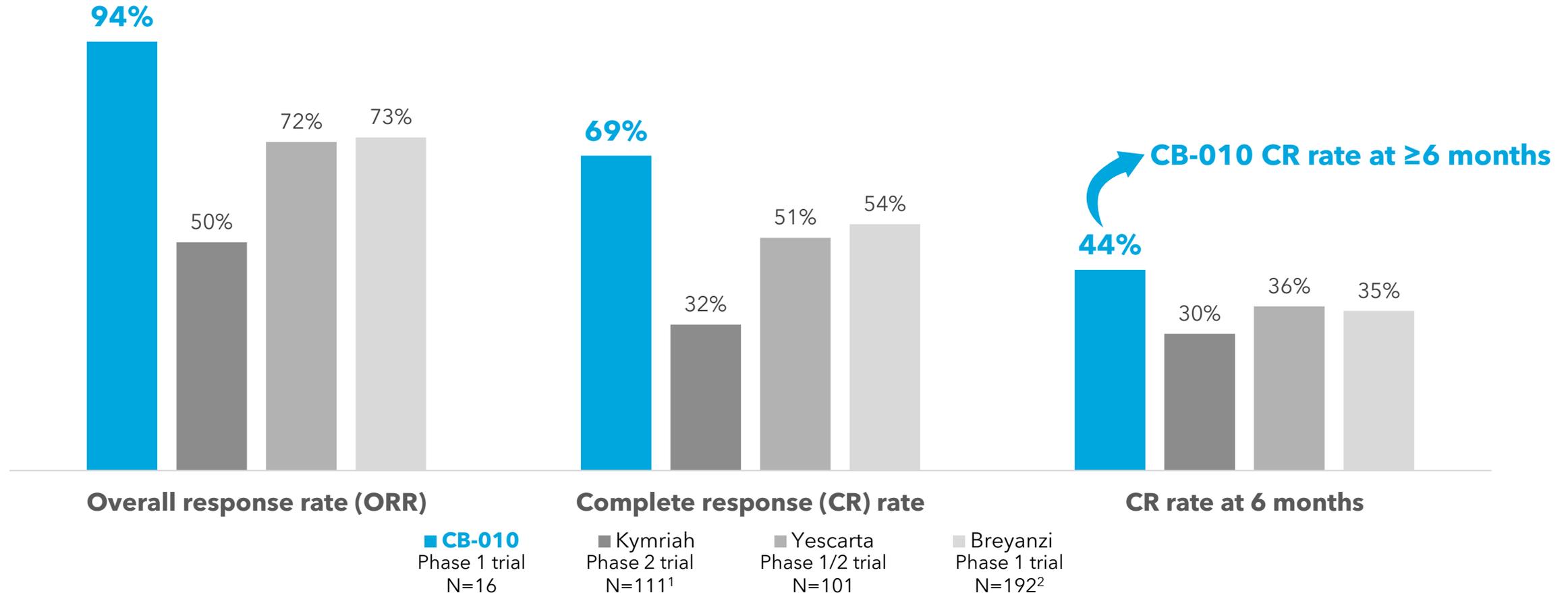
² 69% CR rate measures the number of patients (11 of 16) achieving a CR at any time point after treatment with CB-010.

³ 44% CR rate measures number of patients (7 of 16) with a CR at 6-month or greater time point; includes one patient who converted from PR to CR at 12-month assessment.

^{1,2,3} Certain patients converted from a CR or PR to progressive disease (PD) at various assessment time points.



CB-010 drives durable CRs that rival autologous CAR-T cell therapies



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Sources / patients enrolled

Kymriah: USPI, NCT02445248, Schuster NEJM 2019 / DLBCL NOS (78%) and tFL (22%)

Yescarta: USPI, NCT02348216, Focused on the Cure, Kite Pharma Corporate Presentation, March 2017 / DLBCL (76%), tFL (16%) and PMBCL (8%)

Breyanzi: USPI, NCT02631044 / DLBCL NOS (53%), DLBCL transformed from indolent lymphoma (25%), HGBL (14%), PMBCL (7%) and FL grade 3B (1%)

¹ ORR and CR rates shown are based on a 68 patient sub-group retrospectively identified as patients who were evaluable for the major efficacy outcome measures.

² Enrolled population was 299; 6-month CR rate shown are patients who received treatment with Breyanzi.

CB-010 clinical program update | July 2023

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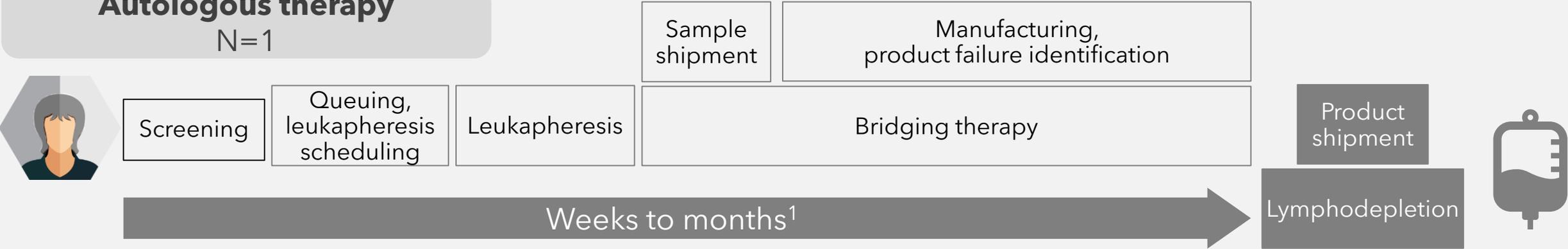
Patients shouldn't have to wait for treatment

Allogeneic therapy
N=many per batch



The future of cell therapy is off-the-shelf

Autologous therapy
N=1



8 ¹ Mikhael, J. et al. JCO Oncology Practice 2022 18:12, 800-807



Pipeline: allogeneic cell therapies targeting oncology indications

| Program | Clinical trial | Target | Indication | Discovery | IND enabling | Phase 1 | Phase 2 | Phase 3 ¹ | Designations |
|---|-----------------------------|--------------------|------------|-----------|--------------|---------|---------|----------------------|-------------------------------|
| CAR-T platform with cell therapies for hematologic indications | | | | | | | | | |
| CB-010 | ANTLER dose expansion | CD19 | r/r B-NHL | ● | ● | ● | ○ | ○ | RMAT, Fast Track, Orphan Drug |
| CB-011 | CaMMouflage dose escalation | BCMA | r/r MM | ● | ● | ● | ○ | ○ | Fast Track |
| CB-012 | IND application planned | CLL-1 ² | r/r AML | ● | ● | ○ | ○ | ○ | |

| | | | | | | | | | |
|---|--|------|--------------|---|---|---|---|---|--|
| CAR-NK platform with iPSC-derived cell therapies for solid tumor indications | | | | | | | | | |
| CB-020 | | ROR1 | solid tumors | ● | ○ | ○ | ○ | ○ | |

| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|-------------|
| AbbVie programs under collaboration agreement³ | | | | | | | | | |
| CAR-T program 1 | | | | | | | | | undisclosed |
| CAR-T program 2 | | | | | | | | | undisclosed |

IND: investigational new drug; RMAT: Regenerative Medicine Advanced Therapy

¹ Phase 3 may not be required if Phase 2 is pivotal

² Also known as CD371

³ AbbVie has an option for two additional CAR-T cell programs

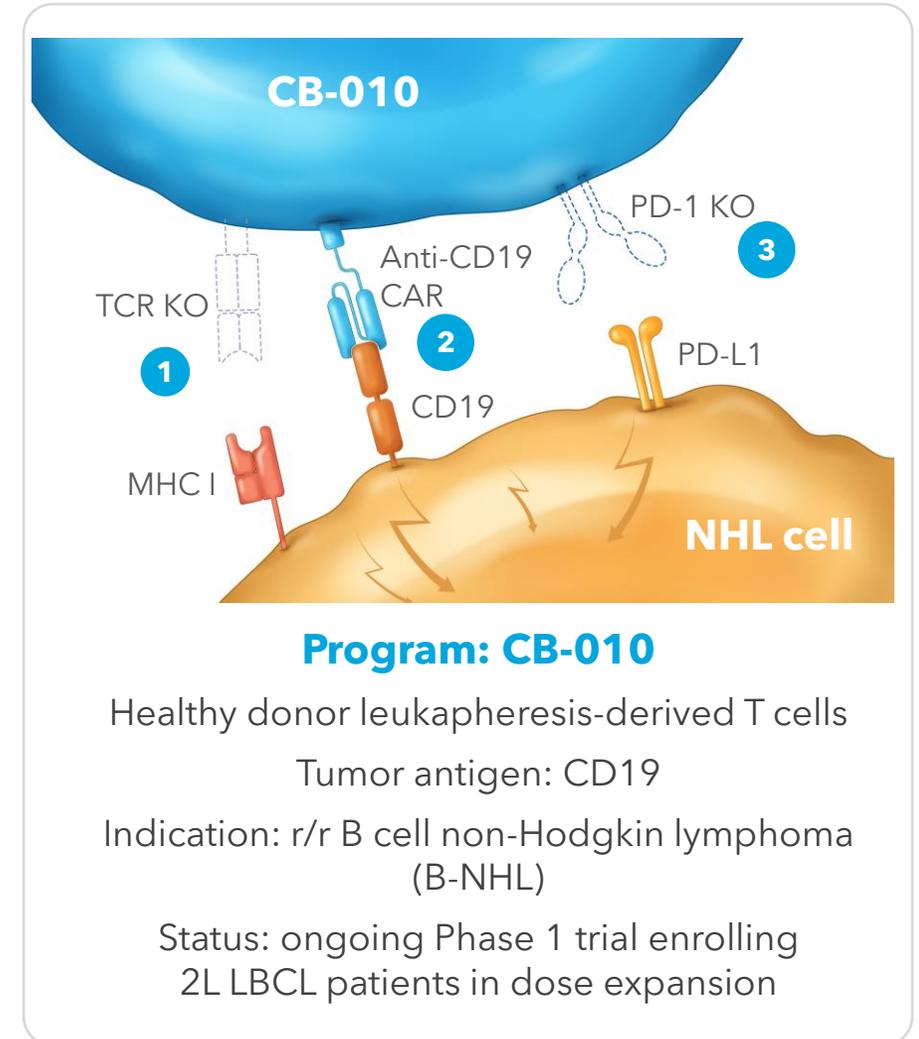
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CB-010 has a PD-1 KO designed to reduce T cell exhaustion

| Key attributes | CB-010 | Conventional allogeneic anti-CD19 CAR-Ts |
|--|--------|--|
| Cas9 chRDNA editing for enhanced genomic integrity | ✓ | ✗ |
| <ul style="list-style-type: none"> Reduced off-target editing and genomic rearrangements | ✓ | ✗ |
| 1 TRAC gene knockout (KO) | ✓ | Varies |
| <ul style="list-style-type: none"> Eliminates TCR expression, reduces GvHD risk | ✓ | Varies |
| 2 Anti-CD19 CAR site-specific insertion into TRAC locus | ✓ | Varies |
| <ul style="list-style-type: none"> Eliminates random integration, targets tumor antigen | ✓ | Varies |
| 3 PD-1 KO for enhanced antitumor activity | ✓ | ✗ |
| <ul style="list-style-type: none"> Potentially better therapeutic index via initial tumor debulking | ✓ | ✗ |



CB-010 CAR construct uses an anti-CD19 scFv FMC63 with a 4-1BB costimulatory domain



ANTLER Phase 1 trial dose escalation data CB-010

Loretta J. Nastoupil, MD

Deputy chair and associate professor in the
department of lymphoma/myeloma

The University of Texas MD Anderson Cancer Center



Disclosures

- LJN has received honorarium for participation in advisory boards or consulting from Abbvie, ADC Therapeutics, Astra Zeneca, BMS, Caribou Biosciences, Daiichi Sankyo, Epizyme, Genentech/Roche, Genmab, Gilead/Kite, Incyte, Janssen, MorphoSys, Novartis, Regeneron, Sirpant, and Takeda.
- LJN has received research support from BMS, Caribou Biosciences, Daiichi Sankyo, Epizyme, Genentech/Roche, Genmab, Gilead/Kite, Janssen, IGM Biosciences, Novartis, and Takeda.
- LJN serves on data safety monitoring boards for DeNovo, Genentech, MEI, NCI, and Takeda.



CB-010 ANTLER Phase 1 trial: dose expansion in 2L LBCL underway

Part A: 3+3 dose escalation - completed (N=16)

- Eligibility: aggressive r/r B-NHL¹ with ≥ 2 prior lines of chemoimmunotherapy or primary refractory
- Exclusion: prior CD19-targeted therapy

Part B: dose expansion - enrolling

- Eligibility: 2nd line LBCL²
- Exclusion: prior CD19-targeted therapy
- Objective: tumor response, RP2D

r/r B-NHL

Lymphodepletion

CB-010



Cyclophosphamide
(60 mg/kg/d for 2 days)
followed by
Fludarabine
(25 mg/m²/d for 5 days)³

**SINGLE
DOSE**

Dose level 1: 40x10⁶ CAR-T cells (N=8, completed⁴)

Dose level 2: 80x10⁶ CAR-T cells (N=5, completed⁴)

Dose level 3: 120x10⁶ CAR-T cells (N=3, completed)

Dose expansion: Enrolling patients (approximately 30 total) at dose levels 2 and 3

Safety and tolerability

Response assessment

NCT04637763

¹ Subtypes include: DLBCL, HGCL, tFL, PMBCL, FL, MZL, MCL (Note, FL subtype is aggressively behaving, with POD24 (high risk))

² LBCL subtypes include: DLBCL, HGCL, PMBCL, tFL

³ Clin Cancer Res. 2011 July 1; 17(13): 4550-4557. doi:10.1158/1078-0432.CCR-11-0116

⁴ Includes 2 backfill patients at dose level 1 and 2 backfill patients at dose level 2



Patients in ANTLER all had aggressive r/r B-NHL

Patients' baseline and disease characteristics

| Characteristics | Total (N=16) |
|--|----------------|
| Median age, years (range) | 66 (55-82) |
| Male, n (%) | 14 (88) |
| ECOG performance status, n (%) | |
| 0 | 6 (38) |
| 1 | 10 (62) |
| Time since first diagnosis, years | |
| Median (range) | 2.4 (0.2-16.4) |
| Non-Hodgkin lymphoma subtype, n (%) | |
| LBCL | 10 (63) |
| DLBCL | 7 (44) |
| HGBL | 2 (13) |
| PMBCL | 1 (6) |
| Other B-NHL | 6 (38) |
| MCL | 3 (19) |
| FL ¹ | 2 (13) |
| MZL | 1 (6) |
| CD19 ⁺ disease, n (%) | 16 (100) |
| Prior systemic therapies, median number (range) ² | 2 (1-8) |



CB-010 has generally well-tolerated safety profile

No DLTs at dose level 2 or dose level 3, no Grade 3+ CRS, no GvHD observed (N=16)

| AEs of special interest | ANTLER dose escalation (N=16) | | |
|------------------------------------|-------------------------------|--------------------|---------------------------|
| | CRS | ICANS ¹ | Infections ^{2,3} |
| Any grade, N (%) | 7 (44%) | 4 (25%) | 7 (44%) |
| Grade 1 | 4 (25%) | 2 (13%) | 2 (13%) |
| Grade 2 | 3 (19%) | - | 4 (25%) |
| Grade 3 | - | 1 (6%) | 1 (6%) ³ |
| Grade 4 | - | 1 (6%) | - |
| Median time to onset, days (range) | 3.5 (1,7) | 7.5 (5,10) | 27.0 (0, 279) |
| Median duration, days (range) | 3.0 (1,9) | 2.0 (1,34) | 14.0 (2,63) |

| | CRS Gr 3+ | ICANS Gr 3+ | Infections Gr 3+ |
|---------------------------------|-----------|-------------|------------------|
| CB-010 ANTLER Phase 1 | 0% | 13% | 6% |
| Kymriah Phase 2 ⁴ | 23% | 15% | 41% |
| Yescarta Phase 1/2 ⁵ | 13% | 31% | 29% |
| Breyanzi Phase 1 ⁶ | 4% | 12% | 23% |

AE: adverse event; CRS: cytokine release syndrome; DLT: dose-limiting toxicity; GvHD: graft-versus-host-disease; ICANS: immune effector cell-associated neurotoxicity syndrome; TEAE: treatment-emergent adverse event

¹ Four total events, 2 Grade 1; 2 Grade 3+ at dose level 1, both with complete resolution of symptoms with supportive care.

² Infection events reported were on or after CB-010 infusion, with highest grade reported per patient.

³ Grade 3 cellulitis (right antecubital) occurred after CB-010 infusion and was unrelated to CB-010 per the investigator.

⁴ Kymriah: USPI, NCT02445248, Schuster NEJM 2019, N=111

⁵ Yescarta: USPI, NCT02348216, N=101

⁶ Breyanzi: USPI, NCT02631044, N=192

15 As of May 4, 2023 data cutoff date

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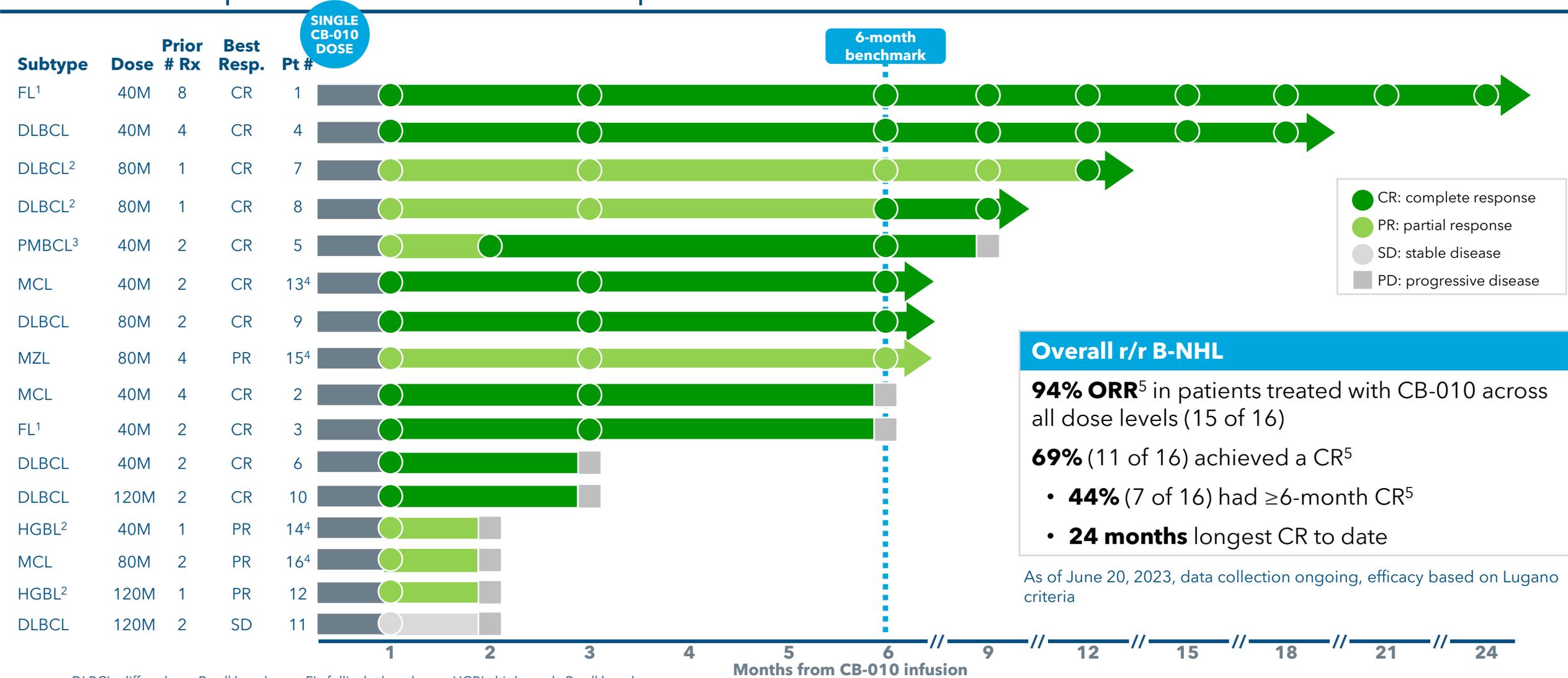
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CB-010 ANTLER dose escalation efficacy assessment

Overall depth and duration of response



Overall r/r B-NHL

94% ORR⁵ in patients treated with CB-010 across all dose levels (15 of 16)

69% (11 of 16) achieved a CR⁵

- 44%** (7 of 16) had ≥6-month CR⁵
- 24 months** longest CR to date

As of June 20, 2023, data collection ongoing, efficacy based on Lugano criteria

DLBCL: diffuse large B cell lymphoma; FL: follicular lymphoma; HGBL: high-grade B cell lymphoma; MCL: mantle cell lymphoma; MZL: marginal zone lymphoma; PMBCL: primary mediastinal large B cell lymphoma

¹ Aggressively behaving, with POD24 (high risk)

² Primary refractory disease

³ Patient 5's 3-month scan conducted on day 63 post CB-010 as per investigator's discretion

⁴ Patients 13-16 are backfill patients at 40M and 80M

⁵ Certain patients converted from a CR or PR to PD at various assessment time points as indicated in the chart above



Subgroup efficacy profile supports 2L LBCL clinical development

| | r/r B-NHL | r/r LBCL ² | 2L LBCL ³ |
|--|-------------------------------|---------------------------|--------------------------|
| Endpoints N, (%) | All patients (N=16) | Subgroup (N=10) | Subgroup (N=4) |
| Overall response rate (ORR)¹ | 15 (94%) | 9 (90%) | 4 (100%) |
| Complete response (CR) rate¹ | 11 (69%) | 7 (70%) | 2 (50%) |
| ≥6-month CR rate¹ | 7 (44%) | 5 (50%) | 2 (50%) |
| CR at longest duration to date | 24 months | 18 months | 12 months ⁴ |

¹ Certain patients converted from a CR or partial response (PR) to progressive disease (PD) at various assessment time points.

² Subgroup includes patients #4, 5, 6, 7, 8, 9, 10, 11, 12, and 14.

³ Four primary refractory patients were enrolled in dose escalation. Subgroup includes patient #7, 8, 12, and 14.

⁴ Patient #7 had a CR at 12 months, which converted from PR at the prior efficacy assessment.



Fireside chat



Fireside chat with Dr. Nastoupil



Loretta J. Nastoupil, MD

Deputy chair and associate professor in the department of lymphoma/myeloma

**The University of Texas MD Anderson
Cancer Center**



Rachel Haurwitz, PhD

President and CEO

Caribou Biosciences



Q&A

Open to your questions



Rachel Haurwitz, PhD
President and CEO



Syed Rizvi, MD
CMO



Steve Kanner, PhD
CSO

Caribou Biosciences



Loretta J. Nastoupil, MD

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department of lymphoma/myeloma

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Cancer Center**



Closing remarks

Rachel Haurwitz, PhD

President & CEO

Caribou Biosciences, Inc.



With gratitude for patients, caregivers, investigators

- University of Texas MD Anderson Cancer Center
- Chao Family Comprehensive Cancer Center / University of California Irvine, Orange
- Oncology Hematology Care, Cincinnati
- Baylor Charles A. Sammons Cancer Center, Dallas
- Huntsman Cancer Institute at the University of Utah
- HonorHealth, Scottsdale
- University of California San Diego Moores Cancer Center, La Jolla
- University of Arizona Cancer Center, Tucson
- Holden Comprehensive Cancer Center at University of Iowa, Iowa City
- Atlantic Health System, Morristown
- Ohio State University James Cancer Hospital, Columbus
- Additional sites coming soon

THANK YOU

for your contributions
toward Caribou's mission to
develop innovative,
transformative therapies for
patients with devastating
diseases through novel
genome editing



Dose escalation data support ANTLER dose expansion

CB-010 single dose allogeneic CAR-T cell therapy

- Response rates rival approved autologous CAR-T cell therapies
- Generally well-tolerated safety profile
- Off-the-shelf, readily-available
- RMAT and Fast Track designations enable FDA interactions
- **Safety and efficacy profile supports clinical development in second-line LBCL patients**

94%

overall response rate
(ORR)¹

69%

complete response (CR)
rate²

44%

complete response (CR) rate
≥6 months³

¹ 94% ORR measures number of patients (15 of 16) achieving either a CR or partial response (PR) at any time point after treatment with CB-010.

² 69% CR rate measures the number of patients (11 of 16) achieving a CR at any time point after treatment with CB-010.

³ 44% CR rate measures number of patients (7 of 16) with a CR at 6-month or greater time point; includes one patient who converted from PR to CR at 12-month assessment.

^{1,2,3} Certain patients converted from a CR or PR to progressive disease (PD) at various assessment time points.



The momentum continues in 2023

Recent accomplishments



CB-010

Positive dose escalation data
Enrolling 2L LBCL patients in
dose expansion
RMAT, Fast Track designations



CB-011

CaMMouflage trial initiated
First patient dosed
Fast Track designation



CB-012

Presented
AACR poster with
preclinical AML data



Well capitalized

\$292.5M in cash¹
Expected runway into
2025²
\$25M Pfizer investment

Future anticipated milestones

CB-010

ANTLER dose expansion data
H1 2024

CB-011

CaMMouflage dose escalation
updates

CB-012

IND submission planned
in H2 2023

IND: investigational new drug, RMAT: Regenerative Medicines Advanced Therapy

¹Preliminary cash, cash equivalents, and marketable securities as of June 30, 2023; includes \$25M Pfizer investment. We are currently finalizing our financial results for the three and six months ended June 30, 2023. While complete financial information is not yet available, the results presented above reflect preliminary estimates. Preliminary estimates represent the most current information available to management and do not present all necessary information for an understanding of our results of operations for such period and have not been reviewed or audited by our independent registered public accounting firm. Such results are preliminary estimates because the financial closing procedures for the three and six months ended June 30, 2023 are not yet complete. As a result, final results may vary from these preliminary estimates. We currently expect that final results will be as or near these preliminary estimates. However, it is possible that actual final results may differ materially from these estimates due to the completion of our financial closing procedures, final adjustments and other developments that may arise and these estimates should be read together with the discussion of forward-looking statements included in the disclaimer that follows the cover page of this presentation

²Cash, cash equivalents, and marketable securities expected to be sufficient to fund current operating plan into 2025.



Thank you

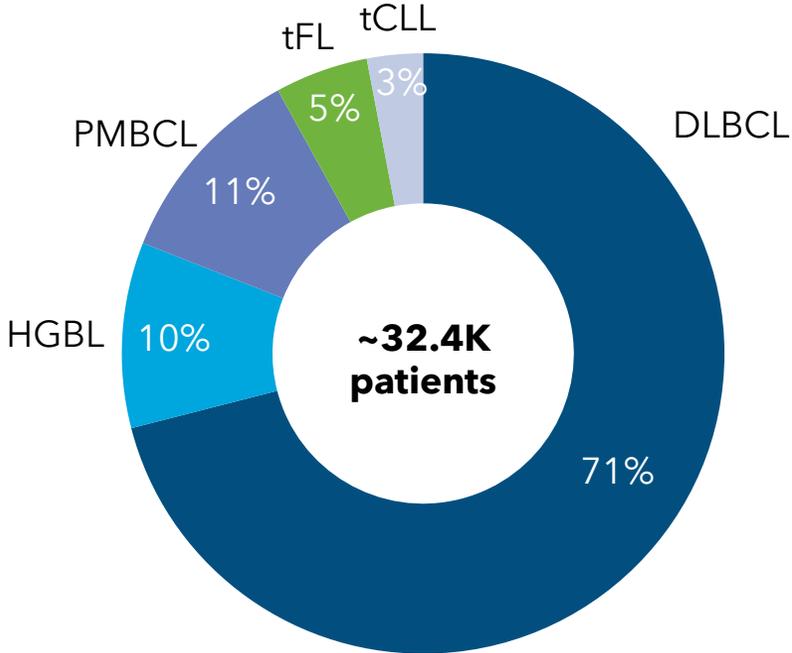
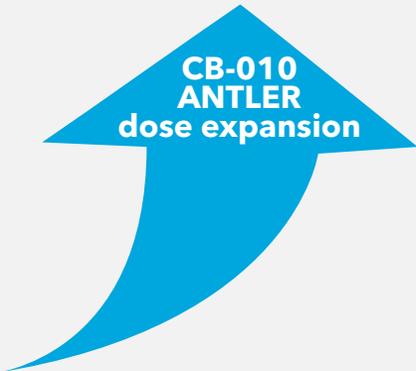
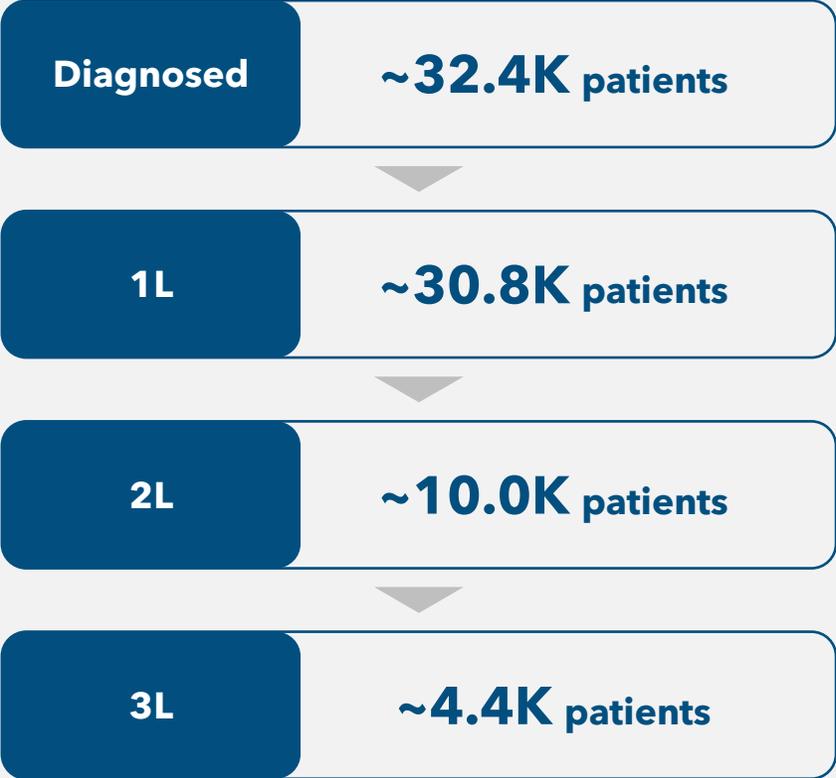
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Appendix

Potential to address high unmet medical need in 2L LBCL

LBCL patient treatment journey (U.S. incidence 2022)



CB-010 ANTLEER dose escalation efficacy assessment

Overall, r/r, and 2L LBCL subgroups, by dose level

| Endpoints (N, %) | r/r B-NHL | r/r LBCL ² | 2L LBCL ³ | CB-010 dose level | | |
|--|------------------------|-----------------------|------------------------|-------------------|--------------|---------------|
| | All patients (N=16) | Subgroup (N=10) | Subgroup (N=4) | 40M (N=8) | 80M (N=5) | 120M (N=3) |
| Overall response rate (ORR)¹ | 15 (94%) | 9 (90%) | 4 (100%) | 8 (100%) | 5 (100%) | 2 (67%) |
| Complete response (CR) rate¹ | 11 (69%) | 7 (70%) | 2 (50%) | 7 (88%) | 3 (60%) | 1 (33%) |
| ≥6-month CR rate¹ | 7 (44%) | 5 (50%) | 2 (50%) | 4 (50%) | 3 (60%) | 0 |
| CR at longest duration | 24 months | 18 months | 12 months ⁴ | 24 months | 12 months | 28 days |

¹ Certain patients converted from a CR or partial response (PR) to progressive disease (PD) at various assessment time points.

² Subgroup includes patients #4, 5, 6, 7, 8, 9, 10, 11, 12, and 14.

³ Four primary refractory patients were enrolled in dose escalation. Subgroup includes patient #7, 8, 12, and 14.

⁴ Patient #7 had a CR at 12 months, which converted from PR at the prior efficacy assessment.



CB-010's responses rival autologous CAR-T cell therapies

| | CB-010 dose escalation Phase 1 % (n/N) | Kymriah Phase 2 % (n/N) | Yescarta Phase 1/2 % (n/N) | Breyanzi Phase 1 % (n/N ²) |
|--|---|-------------------------------|----------------------------------|--|
| Overall response rate (ORR)¹ | 94% (15/16) | 50% (34/68) | 72% (73/101) | 73% (141/192) |
| Complete response (CR) rate¹ | 69% (11/16) | 32% (22/68) | 51% (52/101) | 54% (104/192) |
| CR rate at 6 months¹ | 44% (7/16) ³ | 30% (33/111) | 36% (36/101) | 35% (68/192) |
| CRS (Grade 3+) | 0% (0/16) | 23% | 13% | 4% |
| ICANS (Grade 3+) | 13% (2/16) | 15% | 31% | 12% |
| Infections (Grade 3+) | 6% (1/16) | 41% | 29% | 23% |

FOR ILLUSTRATIVE PURPOSES ONLY: The results of other CAR-T cell therapies presented on this slide have been derived from publicly available reports of clinical trials run independently of Caribou. The Company has not performed any head-to-head trials comparing any of these other CAR-T cell therapies with CB-010. As such, the results of these other clinical trials may not be comparable to clinical results for CB-010. The design of these other trials vary in material ways from the design of the clinical trials for CB-010, including with respect to patient populations, follow-up times, the clinical trial phase, and subject characteristics. As a result, cross-trial comparisons may have no interpretive value on the Company's existing or future results. For further information and to understand these material differences, you should read the reports for the other trials at the sources included below.

Sources / patients enrolled

Kymriah: USPI, NCT02445248, Schuster NEJM 2019 / DLBCL NOS (78%) and tFL (22%)

Yescarta: USPI, NCT02348216 / Locke, et al, AACR 2017 ZUMA-1 presentation / DLBCL (76%), tFL (16%) and PMBCL (8%)

Breyanzi: USPI, NCT02631044 / DLBCL NOS (53%), DLBCL transf. from ind. lymphoma (25%), HGBL (14%), PMBCL (7%) and FL grade 3B (1%)

¹ Certain patients converted from a CR or partial response (PR) to progressive disease (PD) at various assessment time points.

² Enrolled population was 299; 6-month CR rate shown are patients who received treatment with Breyanzi.

³ CR rate ≥6 months

CB-010 clinical program update | July 2023

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CB-010 is generally well tolerated

Treatment-emergent adverse events (TEAE)

| Event (N=16) | Any Grade ¹ N (%) | All Grade 3+ N (%) | Related Grade 3+ N (%) |
|---|---------------------------------|-----------------------|---------------------------|
| Total number of TEAEs, N | 348 | 96 | 28 |
| Subjects with TEAE, n (%) | 15 (94) | 14 (88) | 8 (50) |
| Thrombocytopenia/platelet count decreased | 11 (69) | 11 (69) | 5 (31) |
| Anemia | 11 (69) | 8 (50) | 1 (6) |
| Neutropenia/Neutrophil count decreased | 10 (63) | 9 (56) | 1 (6) |
| Cytokine release syndrome | 7 (44) | - | - |
| White blood cell count decreased | 7 (44) | 7 (44) | 4 (25) |
| Fatigue | 4 (25) | - | - |
| Lymphocyte count decreased | 4 (25) | 3 (19) | 1 (6) |
| Blood creatinine increased | 4 (25) | - | - |
| ICANS (immune effector cell-associated neurotoxicity) | 4 (25) | 2 (13) | 2 (13) |
| Fall | 3 (19) | - | - |
| Diarrhea | 3 (19) | - | - |
| Hypoalbuminemia | 2 (13) | - | - |
| Hypocalcemia | 2 (13) | - | - |
| Hyponatremia | 2 (13) | - | - |
| Muscular weakness | 2 (13) | - | - |
| Febrile neutropenia | 2 (13) | 2 (13) | 1 (6) |
| Syncope | 2 (13) | 2 (13) | - |
| Pulmonary embolism | 2 (13) | 1 (6) | - |
| Atrial fibrillation | 1 (6) | 1 (6) | 1 (6) |
| Acute kidney injury | 1 (6) | 1 (6) | - |
| Cellulitis | 1 (6) | 1 (6) | - |
| Encephalopathy ² | 1 (6) | 1 (6) | 1 (6) |
| Hyperglycemia | 1 (6) | 1 (6) | - |

¹ TEAEs are defined as adverse events (AEs) with a start date on or after the CB-010 infusion date.

² Encephalopathy and Grade 4 ICANS events were related and occurred in same patient.

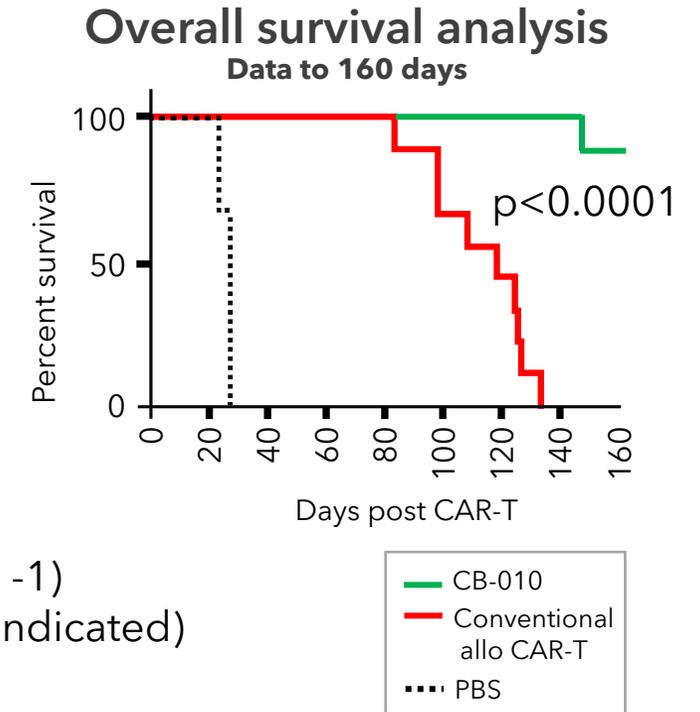
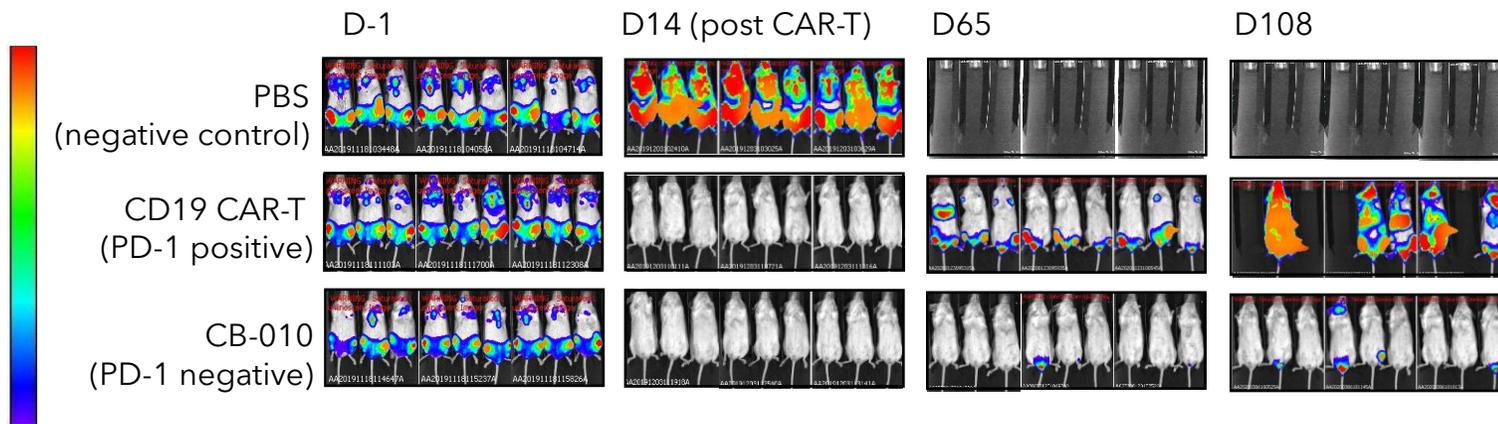
Table includes AEs with at least 2 subjects at any single dose level or at least 1 subject with a higher than Grade 3 TEAE.

As of May 4, 2023 data cutoff date



CB-010 demonstrated differentiated, long-term antitumor activity in preclinical studies

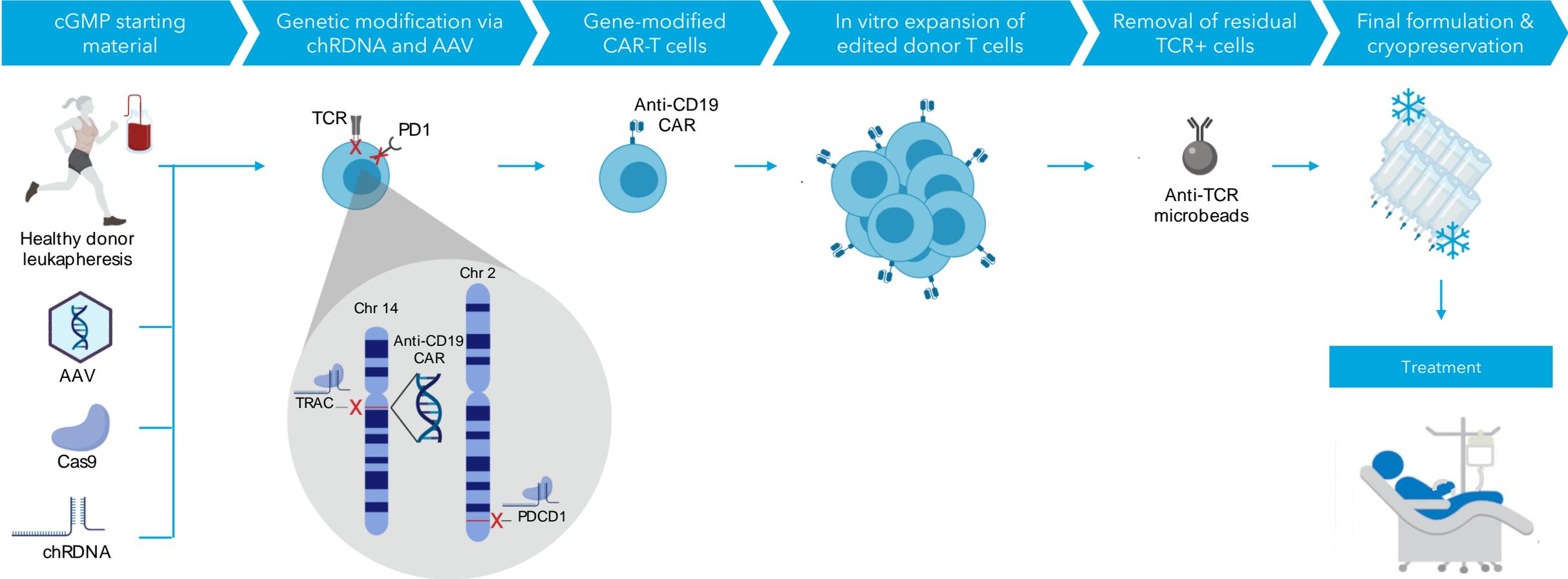
A single dose of CB-010 resulted in profound tumor regression of metastatic CD19⁺ tumor xenografts and led to a significantly longer antitumor response and survival vs. conventional CD19-specific allogeneic CAR-T cells (expressing PD-1)



- NALM-6/PD-L1⁺ B-ALL tumors were established by IV engraftment for 23 days (Day -1)
- A single dose treatment was administered by IV on Day 24 (PBS or 10⁷ cells where indicated)

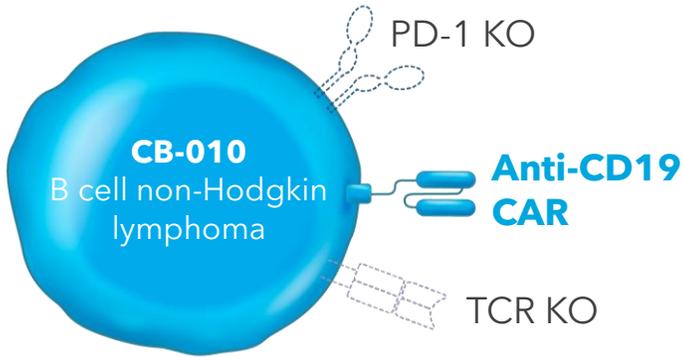
Allogeneic CAR-T cell manufacturing process overview for CB-010

Caribou's process development team created the manufacturing process and transferred it to a CMO to generate phase 1 cGMP clinical material



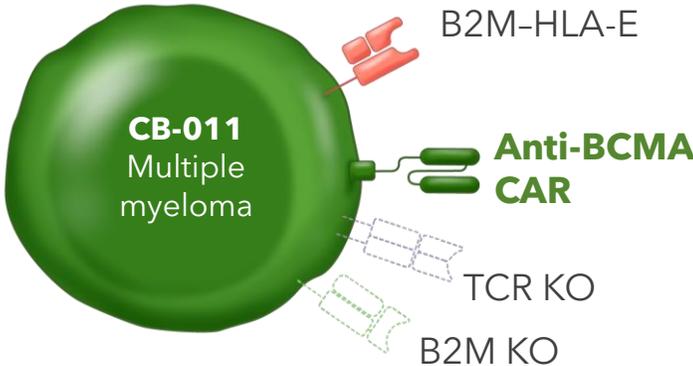
Caribou is a leader in the allogeneic CAR-T cell space with a platform of genome-edited cell therapies

3 Edits



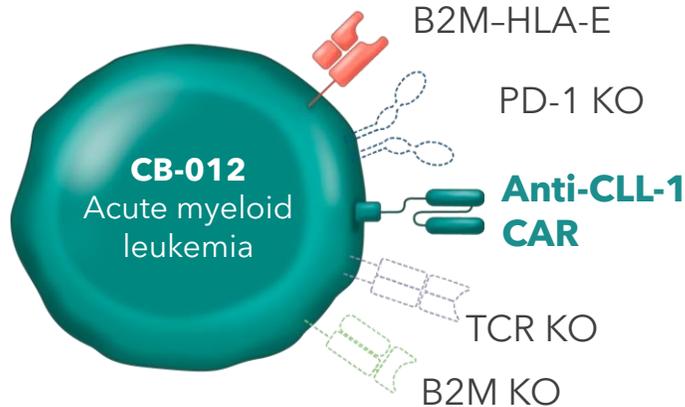
1st allogeneic anti-CD19 CAR-T cell therapy in the clinic with **checkpoint disruption** via PD-1 knockout (KO) to reduce T cell exhaustion

4 Edits



1st allogeneic anti-BCMA CAR-T cell therapy with **immune cloaking** via *B2M* KO and insertion of B2M-HLA-E fusion protein

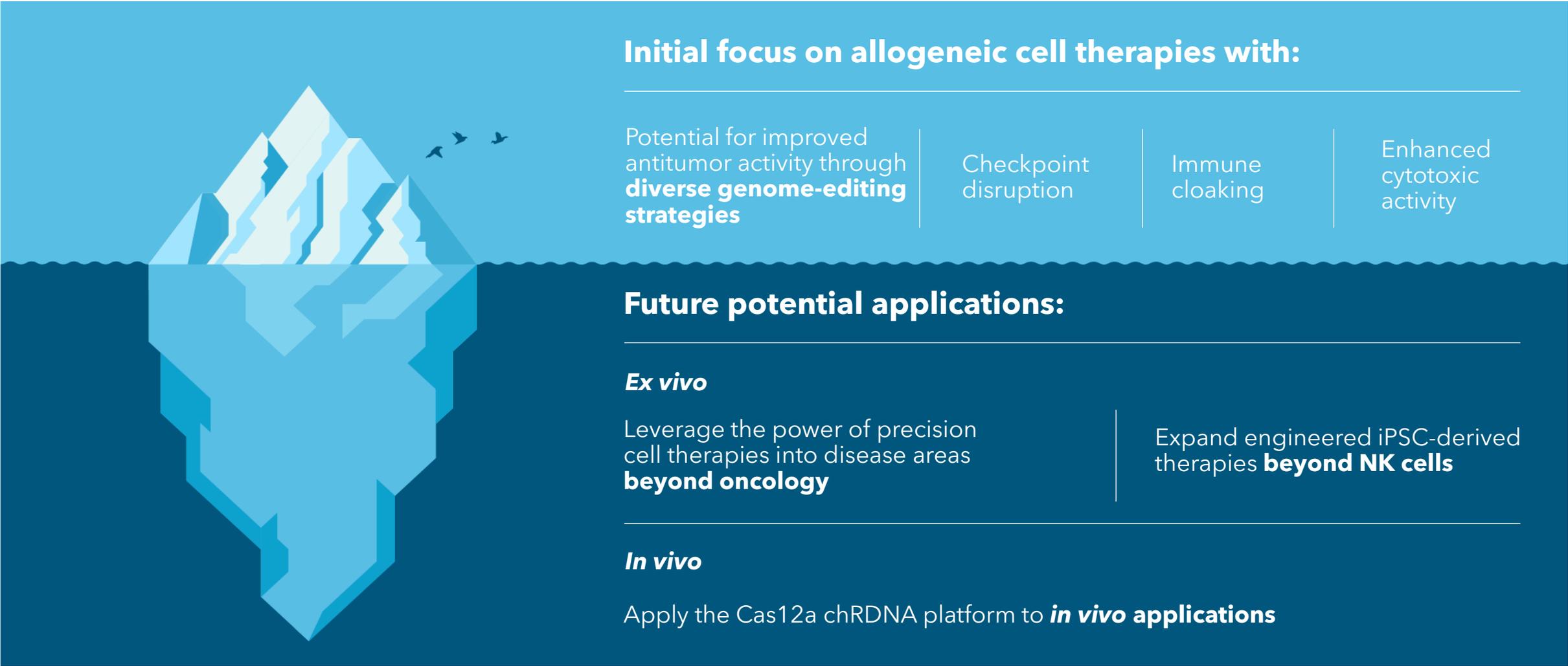
5 Edits



1st allogeneic CAR-T cell therapy with both **checkpoint disruption** and **immune cloaking**



Caribou's technologies offer broad applications to enable transformational therapies



Initial focus on allogeneic cell therapies with:

Potential for improved antitumor activity through **diverse genome-editing strategies**

Checkpoint disruption

Immune cloaking

Enhanced cytotoxic activity

Future potential applications:

Ex vivo

Leverage the power of precision cell therapies into disease areas **beyond oncology**

Expand engineered iPSC-derived therapies **beyond NK cells**

In vivo

Apply the Cas12a chRDNA platform to **in vivo applications**



Experienced management team



Rachel Haurwitz, PhD
President and CEO
Director



Steve Kanner, PhD
Chief scientific officer



Jason O'Byrne
Chief financial officer



Syed Rizvi, MD
Chief medical officer



Barbara McClung, JD
Chief legal officer and
corporate secretary



Ruhi Khan
Chief business officer

