

Memorial Sloan Kettering Cancer Center

Immunotherapy in Multiple Myeloma

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Disclosures

- Grant support: National Cancer Institute
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- Consultancy: Legend Biotech, Evicore, Janssen, Optum

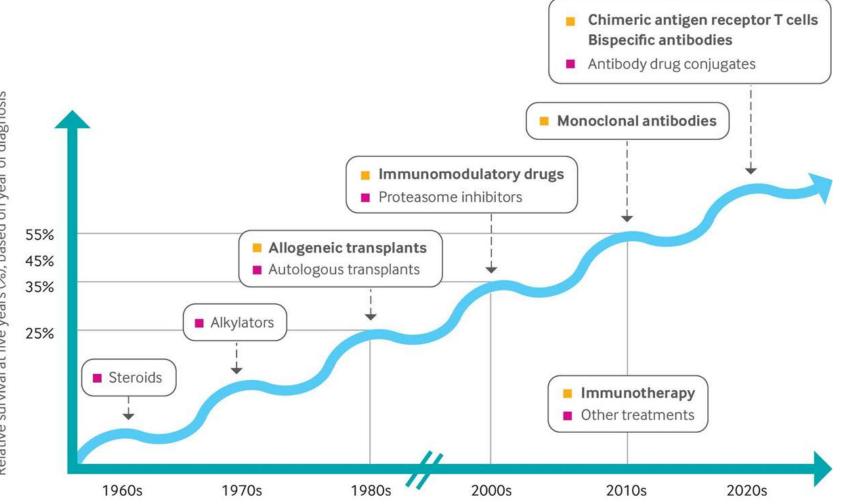


Outline

- Review clinical data for recent approved BCMA targeted immune therapies in multiple myeloma
- Off-the-shelf/Allogeneic cellular therapies: ALLO-715
- Alternate targets: Highlight emerging data for GPRC5D targeted therapies
- Mechanisms of Resistance and possible next steps
- Future directions



Six Decades of Drug Discovery in Myeloma

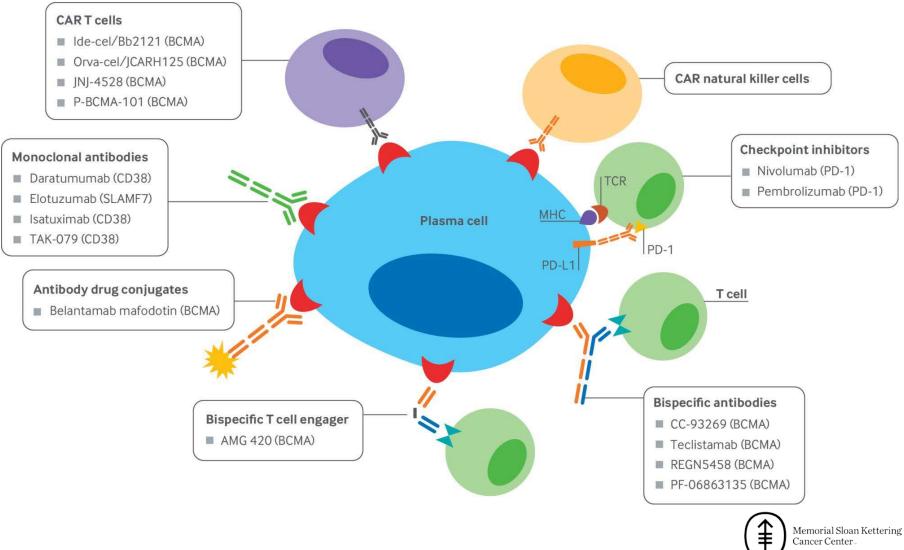


Timeline of drug discovery and year of multiple myeloma diagnosis (by decade)



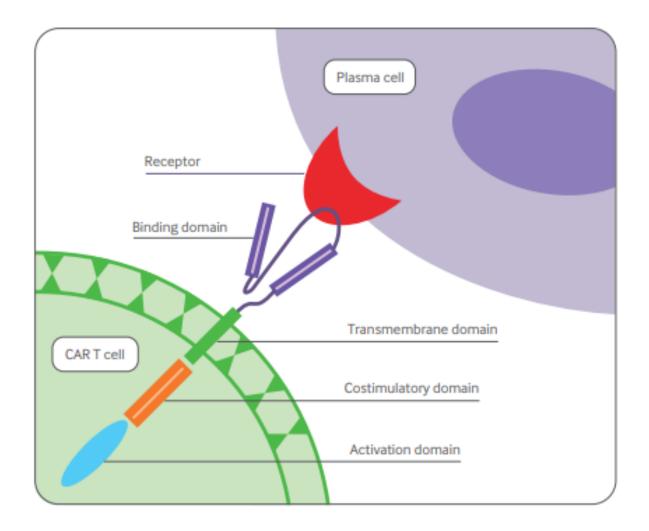
Shah U, Mailankody S. BMJ 2020

Emerging Immunotherapies for Myeloma



Shah U, Mailankody S, BMJ 2020

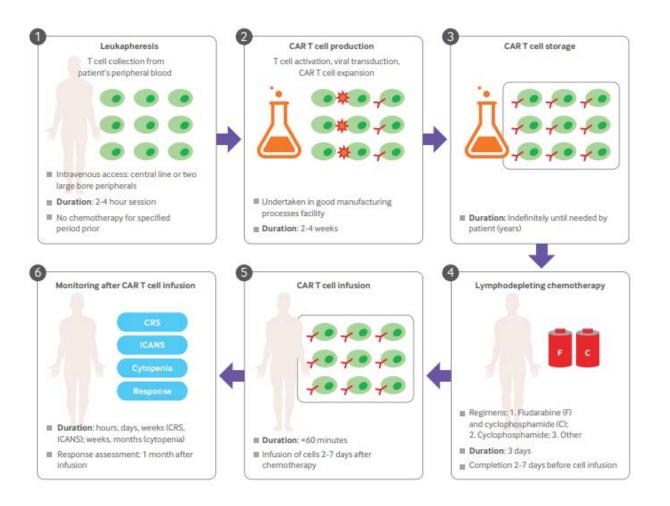
CART cell therapy: Construct





Shah U, Mailankody S, BMJ 2020

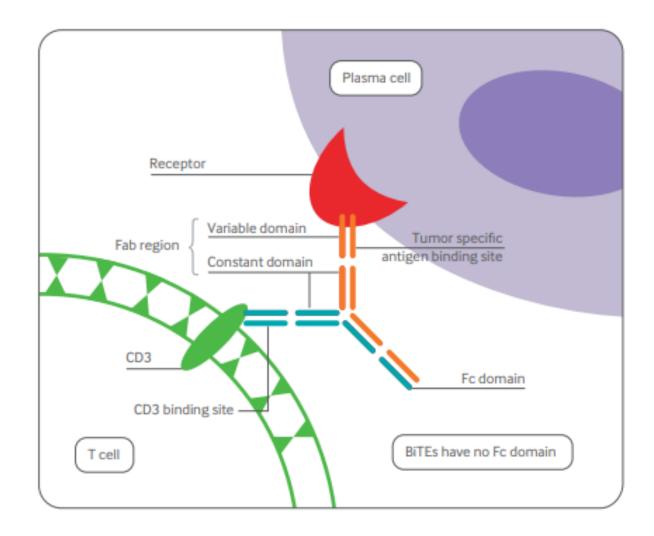
Transitioning to the clinic





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Bispecific Antibodies





| Characteristic | lde-cel | Cilta-cel | Teclistamab |
|-------------------------------------|------------|------------|-------------|
| Median age, years (range) | 61 (33-78) | 61 (56-68) | 64 (33-84) |
| Extramedullary disease, n (%) | 50 (39) | 13 (13) | 28 (17) |
| R-ISS stage III, n (%) | 21 (16) | 14 (14) | 20 (12) |
| High risk cytogenetics, n(%) | 45 (35) | 23 (24) | 38 (26) |
| Number of prior lines, n (range) | 6 (3-16) | 6 (4-8) | 5 (2-14) |
| Triple-refractory disease, n (%) | 108 (84) | 85 (88) | 128 (78) |

Munshi et al. NEJM 2021; Berdeja et al. Lancet 2021; Martin et al. JCO 2022; Moreau et al. NEJM 2022



Adverse Events: Ide-cel vs. Cilta-cel vs. Teclistamab

| Outcome | lde-cel | Cilta-cel | Teclistamab | Те |
|-------------------------------------|---------|-----------|-------------|----|
| CRS, any grade, % | 84 | 95 | 72 | 72 |
| CRS, grade 3 or higher, % | 5 | 4 | 1 | 1 |
| Neurotoxicity, any grade, % | 18 | 21 | 15 | 15 |
| Neurotoxicity, grade 3 or higher, % | 3 | 9 | 1 | 1 |
| Non relapse deaths, % | 7 | 9 | 16 | 16 |

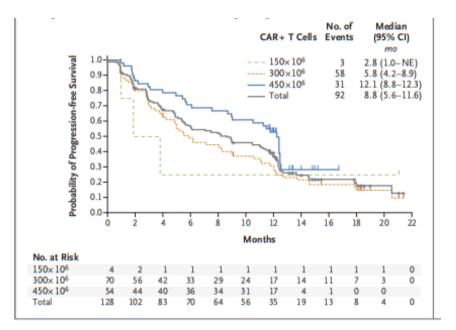


| Outcome | lde-cel | Cilta-cel | Teclistamab |
|---------------------------------|---------|---------------------------|-------------|
| Overall response rate, % | 73 | 97 | 63 |
| Complete response rate, % | 33 | 67 | 39 |
| Duration of response, months | 10.7 | NR | 18.4 |
| Median PFS, months | 8.8 | NR (27-month PFS: 55%) | 11.3 |
| Median follow-up, months | 13 | 12.4 | 14.1 |

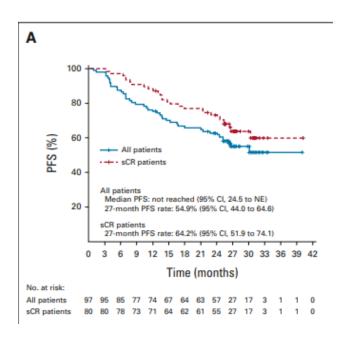
Munshi et al. NEJM 2021; Berdeja et al. Lancet 2021; Martin et al. JCO 2022; Moreau et al. NEJM 2022



Deep responses and impressive PFS



Median PFS Ide-cel: 8.8 months



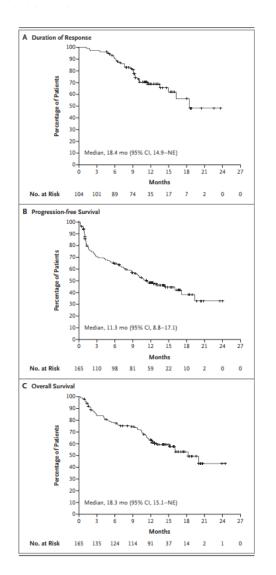
Median PFS Cilta-cel: NR (55% progression free at 27 months)



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Munshi et al. NEJM 2021; Berdeja et al. Lancet 2021; Martin et al. JCO 2022

Teclistamab: Efficacy



DOR: 18.4 months (95% CI: 14.9-NE)

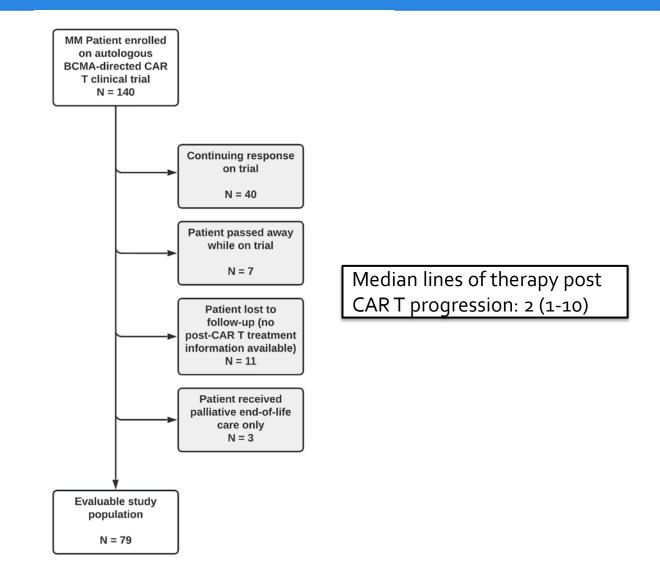
PFS: 11.3 months (95% Cl: 8.8-17.1)

OS: 18.3 months (95% CI: 15.1-NE)



Moreau et al. NEJM 2022

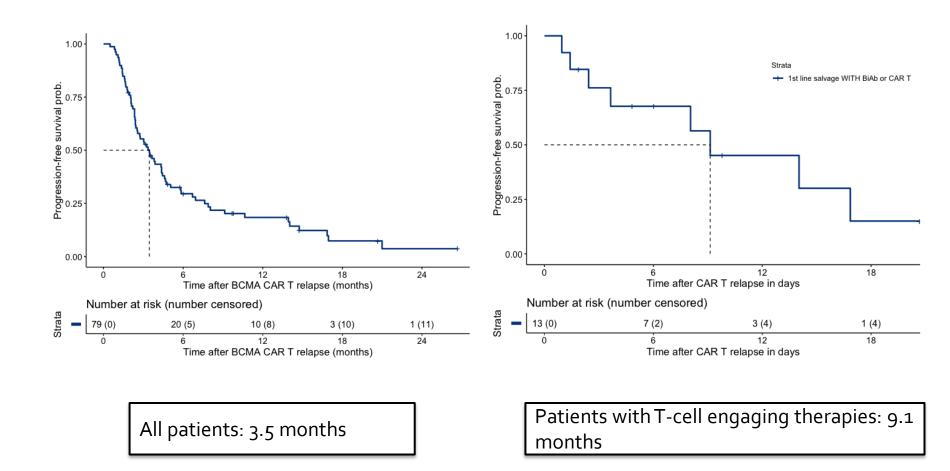
Outcomes after progression post CAR T therapies





Van Oekelen, Nath et al. Blood 2022

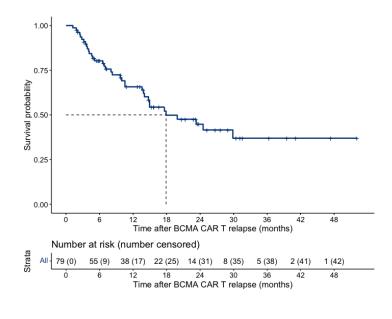
Median Progression free survival

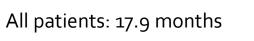


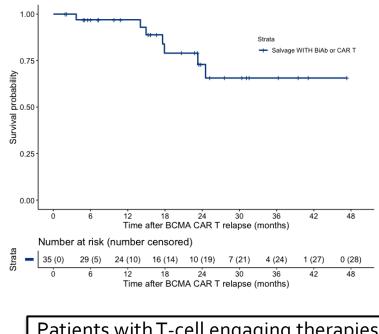


Van Oekelen, Nath et al. Blood 2022

Median overall survival







Patients with T-cell engaging therapies: not reached



What's next? Moving up earlier lines of treatment

- Randomized trials of cilta-cel and ide-cel in patients with 1-3 (or 2-4) prior lines of treatment compared to standard of care
- Randomized trials of cilta-cel in newly diagnosed transplant eligible and transplant ineligible patients

Bristol Myers Squibb and 2seventy bio Announce Topline Results from KarMMa-3 Trial Showing Abecma (idecabtagene vicleucel) Significantly Improves Progression-Free Survival Versus Standard Regimens in Relapsed and Refractory Multiple Myeloma

> Janssen Announces Unblinding of Phase 3 CARTITUDE-4 Study of CARVYKTI® (cilta-cel) as Primary Endpoint Met in Treatment of Patients with Relapsed and Refractory Multiple Myeloma

LATEST NEWS



BCMA Bispecific Antibodies (select studies)

| | Teclistamab ¹ | Elranatamab ² | ABBV-383 ³ |
|--------------------------------------|--------------------------|--------------------------|-----------------------|
| Schedule | Weekly SC | Weekly SC | IV q3W |
| Patients | 165 | 123 | 81 |
| Median prior lines | 5 | 5 | 4 |
| Triple Class and Penta Refractory | 78% and 30% | 97% and 42% | 81% and 41% |
| Prior BCMA | No | No | No |
| CRS, All (Gr 3/4) | 72% (0.6%) | 58% (0%) | 73% (4%) |
| ICANS, All (Gr 3/4) | 3% (0.6%) | 3% (0%) | 2% (NA) |
| Infections, All (Gr3/4) | 76% (45%) | 67% (35%) | 41% (23%) |
| ORR | 62% | 61% | 68% |
| CR | 39% | 28% | 36% |

1. Moreau et al. NEJM 2022; 2.Bahlis et al. ASH Abstract#159; 3. D'Souza et al. JCO 2022.



Allogeneic CAR T cell therapy

1. Potential Advantages?

Bulk manufacturing, repeat dosing, no need for bridging, cell quality

- 2. How do we address Graft-Versus-Host? TCR Knockout, constrained specificity
- 3. How do we address Host-Versus-Graft?
 - Evasive: Δ B2m, Δ CIITA
 - Immunosuppressive: Δ CD52, Δ deoxycytidine kinase



Allogeneic CAR T cell therapy

1. Potential Advantages?

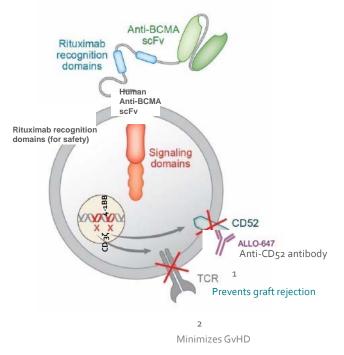
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First Allogeneic CAR T Therapy for Myeloma

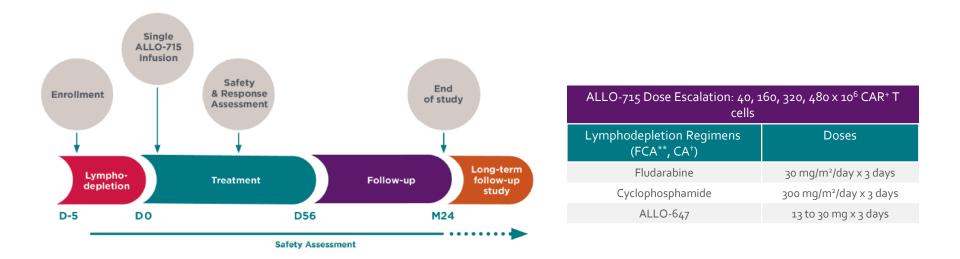
- ALLO715 has human derived scFv with 4-1BB costimulatory domain and CD3z signaling domain
- Graft-Versus-Host: Knockout of TRAC gene
- Host-Versus-Graft: Knockout of CD52 allowing for lymphodepletion with anti CD52 antibody ALLO-647



.. TALEN-mediated CD52 KO allows selective lymphodepletion with ALLO-647

2. TALEN-mediated TRAC KO eliminates TCR α expression to minimize risk of GvHD





* Parts B (combination of ALLO-715 + nirogacestat) and C (consolidation regimen) are not reported here

** FCA conditioning with fludarabine, cyclophosphamide, and ALLO-647

⁺ CA conditioning with cyclophosphamide and ALLO-647



ALLO715: Patient Flow

Median Time from Enrollment to Start of Treatment for All Patients: 5 Days

Part A Enrolled (N=48)

5 patients became ineligible due to organ failures from rapidly progressing disease

Part A Safety Population (N=43)

| Part A Efficacy Population (N=43) | | | | | | | |
|-----------------------------------|-------------------|-------------------------|-------|------|--|--|--|
| CAR ⁺ T Cell Dose | | Lymphodepletion Regimen | | | | | |
| CAR [®] I Cell Dose | FCA ₃₉ | FCA6o | FCA90 | CA39 | | | |
| 40 x 10 ⁶ Cells (DL1) | 3 | - | - | - | | | |
| 160 x 10 ⁶ Cells (DL2) | 4 | - | - | 3 | | | |
| 320 x 10 ⁶ Cells (DL3) | 11 | 10 | 3 | 3 | | | |
| 480 x 10 ⁶ Cells (DL4) | 3 | 3 | - | - | | | |

Overall median follow-up time = 4 Months

- Patient flow includes patients enrolled in Part A of study
 - Part A was a single dose of ALLO-715 cells in dose escalation which was previously presented
 - Multiple LD regimens were evaluated at DL3 and DL4



| Characteristics | (N=43) | | | |
|--|-------------|-----------------|--|--|
| Age, median (range), years | | 64 (46-77) | | |
| Gender, % | Male | 63 | | |
| | Femal e | 37 | | |
| ECOG PS, % | 0 | 49 | | |
| | 1 | | | |
| ISS Stage III, % | 19 | | | |
| High-risk cytogenetics [*] , % | 37 | | | |
| Extramedullary disease, % | 21 | | | |
| High tumor burden at screening † , % | | 33 | | |
| Time since initial diagnosis, median (ran | ige), years | 4.9 (0.9, 26.4) | | |
| Number of prior anti-myeloma regiment (range) | 5 (3-11) | | | |
| Prior autologous SCT, % | 91 | | | |
| Triple-refractory, % | 91 | | | |
| Penta exposed/Penta-refractory, % | 42 | | | |

* High-risk cytogenetics is defined as del 17p, t(4;14), or t(14;16)

 $^{\rm +}$ High tumor burden considered when more than 50% plasma cells in bone marrow

- Patients had advanced disease
 - 19% of patients had ISS Stage III
 - 21% of patients had extramedullary disease
- Heavily pretreated patients in study
 - Median of 5 prior lines of therapy
 - All patients were refractory to last line
 - 91% were triple refractory and 42% were penta-refractory
- No patient received bridging therapy



ALLO-715 and ALLO-647 Demonstrated Manageable Safety Profile

| | Any Grade | ≥Grade 3 |
|-------------------------------|-----------|----------|
| Key adverse events (N=43) | n (| %) |
| Cytokine Release Syndrome | 24 (56) | 1 (2.3) |
| Neurotoxicity ⁺ | 6 (14) | 0 |
| Graft-versus-Host Disease | 0 | 0 |
| Infection [‡] | 23 (54) | 11 (23) |
| Infusion Reaction to ALLO-647 | 12 (28) | 0 |

• 3 Grade 5 infections- fungal pneumonia, adenoviral hepatitis, and sepsis

⁺ Analysis done using a broad SMQ of noninfectious encephalopathy/delirium with adjudication by clinical review [‡] All infections (bacterial, fungal, and viral) included

- Manageable safety profile with lowgrade and reversible CRS and neurotoxicity
 - Low use of tocilizumab 23% and steroids 14%
- No GvHD
- CMV reactivation in 12 patients
- Low grade and reversible infusion related reactions



Encouraging Efficacy Seen with Additional Patients at DL3

| | | DL3 (320M C | DL4 (480M CAR+ T Cells) | | | |
|---------------------------------------|---------------------------|---------------------------|--------------------------|----------------------------|----------------------------|--------------------------|
| Cell Dose & LD Regimen | FCA39 N=11 | FCA60 N=10 | FCA90 N=3 | FCA ALL N=24 | FCA39 N=3 | FCA60 N=3 |
| ORR†, n (%) (95% CI) | 7 (64) (31, 89) | 8 (80) (44, 98) | 2 (67) (9, 99) | 17 (71) (49, 87) | 1 (33) (0.8, 91) | 2 (67) (9, 99) |
| VGPR+ Rate, n (%) | 5 (46) | 5 (50) | 1 (33) | 11 (46) | 0 | 2 (67) |
| CR/sCR Rate, n (%) | 3 (27) | 3 (30) | 0 | 6 (25) | 0 | 0 |
| mDOR, months (95% Cl) | 8.3 (3.4, 11.3) | NE (5.6, NE) | 3.1 (2.4, 3.1) | 8.3 (3.4, 11.3) | 1.4 (NE, NE) | NE (1.5, NE) |
| Median follow-up, months (range)** | 3.3 (0.5, 3.8) | 3.8 (3.1, 11.2) | | 3.8 (0.5, 11.2) | | 7.4 (7.4, 7.4) |

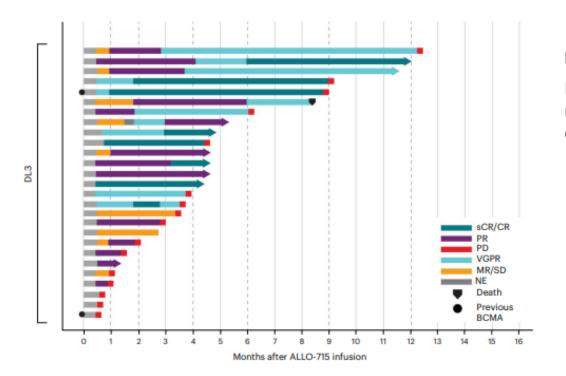
- In the FCA 320M CAR+ cell dose group, 17 patients (71%) achieved an overall response rate (ORR)
 - 11 (46%) were VGPR+, of those 6 (25%) were CR/sCR

* Three patients treated with 320M CAR+ cells and the CA LD regimen are not included above. Two of those responded with one pt achieving a CR

+ Clinical response evaluation was based on IMWG response criteria, Kumar et al, 2016

** Median follow-up is for censored pts





Median time to response was 16 days

In the expansion of DL3 FCA, 9 pts with an initial response remain in response with median duration of response of 8.3 months

- Of those with a confirmed response of VGPR+, 92% were MRD negative
- MRD negativity is associated with a durable response and period of progression-free survival



CAR T Therapy Targets: Beyond BCMA

Expression: precursor B cells, plasma cells, T cells, NK cells, myeloid SLAMF7 precursors, prostate, Expression: pro-B cells, nervous system, gut, plasma cells muscle cells, osteoclasts Function: plays a role in Function: cell stromal cell interaction in the adhesion, signal GPRC5D BM tumor microenvironment transduction and and in myeloma Expression: plasma cells, hair follicles calcium signaling cell survival Function: unknown Expression: plasma cells Function: enhance humoral immunity by stimulating the survival **CD138** of normal plasma cells and plasmablasts Expression: epithelial, endothelial and vascular smooth muscle cells including plasma cells Function: cell proliferation, migration and cell-matrix interactions **NKG2D ligand** Expression: tumor cells Function: modulates lymphocyte activation and promotes immunity Kappa to eliminate ligand-expressing cells Expression: plasma cells Function: fight infections

CD19

BCMA

Expression: B cells except plasma cells Function: maintains the balance between humoral. antigen-induced response and tolerance induction.

CD56

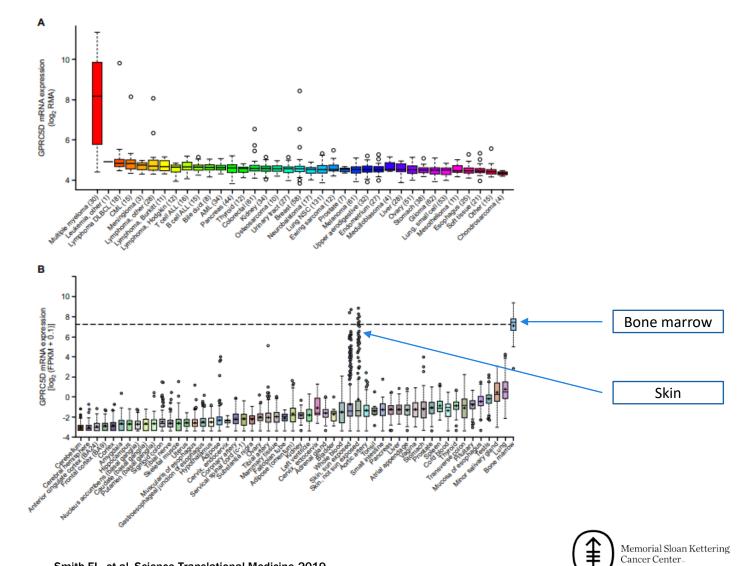
Expression: NK cells, T cells, neurons, many tumors including plasma cells Function: cell adhesion, neural signaling, tumorigenesis



Shah U and Mailankody S. Best Pra & Res: Clin Heme 2019

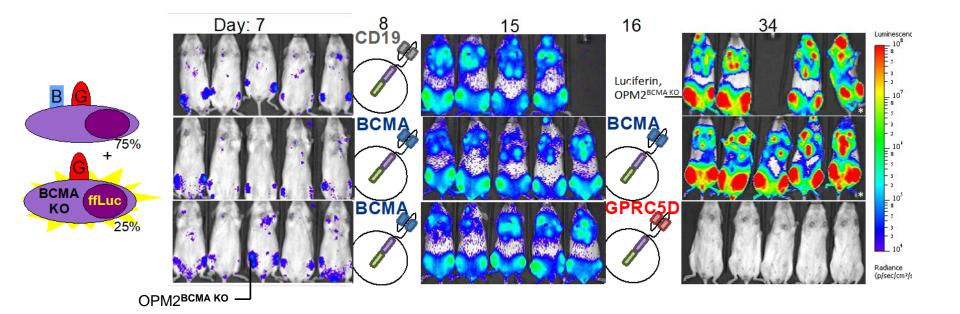
CD38

GPRC5D: Highly expressed in myeloma; limited normal tissue expression



Smith EL. et al. Science Translational Medicine 2019

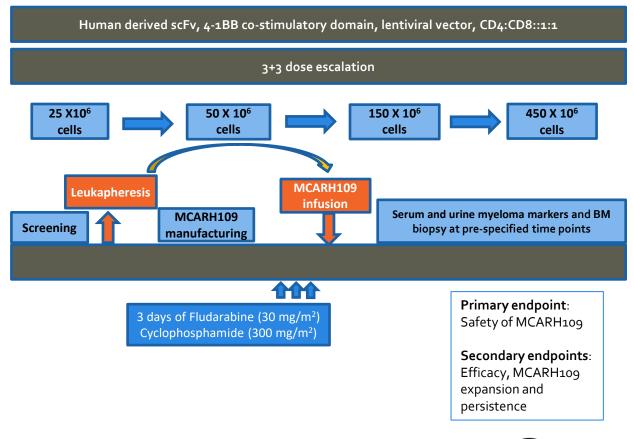
GPRC5D-targeted CAR T cells rescued mice from BCMA negative tumor escape model





Key eligibility criteria:

- 3 or more lines of therapy
- Prior PI, ImiD, CD₃8 antibody based therapy
- Prior BCMA and CART allowed
- Non-secretory myeloma allowed
- Prior allogeneic SCT allowed





MCARH109: Baseline Characteristics

| | 25 X10 ⁶ CAR+ T cells (n=3) | 50 X10 ⁶ CAR+ T cells (n=3) | 150 X10 ⁶ CAR+ T cells (n=6) | 450 X10 ⁶ CAR+ T cells (n=5) | Total (N=17) |
|--|---|---|--|--|--------------------|
| Median (range) age, years (range) | 60 (38-76) | 50 (39-56) | 59 (40-74) | 65 (63-73) | 60 (38-76) |
| Male, n (%) | 2 (67) | 3 (100) | 4 (67) | 4 (80) | 13 (77) |
| High-risk cytogenetics, n (%)* | 3 (100) | 2 (67) | 3 (60) | 5 (100) | 13 (77) |
| Extramedullary plasmacytoma, n (%) | 3 (100) | 1 (33) | 3 (50) | 0 (0) | 7 (41) |
| Non-secretory myeloma | 2 (67) | 0 (0) | 1 (20) | 0 (0) | 3 (18) |
| Prior Lines of Therapy, median (range) | 6 (6-8) | 7 (4-8) | 7 (5-14) | 6 (5-12) | 6 (4-14) |
| Refractory to last line, n (%) | 3 (100) | 3 (100) | 5 (83) | 3 (60) | 14 (82) |
| Penta-exposed, n (%) | 3 (100) | 3 (100) | 6 (100) | 5 (100) | 17 (100) |
| Triple-refractory, n (%) | 3 (100) | 3 (100) | 6 (100) | 4 (80) | 16 (94) |
| Prior Autologous Transplant, n (%) | 3 (100) | 3 (100) | 6 (100) | 5 (100) | 17 (100) |
| Prior Allogeneic Transplant, n (%) | 0 (0) | 2 (67) | 1 (0) | 0 (0) | 3 (18) |
| Prior BCMA therapy, n (%)** | 1 (33) | 1 (33) | 4 (67) | 4 (80) | 10 (59) |
| Prior CART therapy, n (%) | 0 (0) | 1 (33) | 3 (50) | 4 (80) | 8 (47) |
| Bridging therapy, n (%) Refractory to bridging, n (%) | 3 (100) 3 (100) | 3 (100) 3 (100) | 6 (100) 5 (83) | 4 (80) 4 (80) | 16 (94) 15 (88) |

*includest (4;14), 1q amplification, del 17p, t (14;16)

**includes any BCMA bispecific antibody, antibody drug conjugate, or CART therapy



MCARH109: Key Safety Events

| Adverse events (n=17) | Any Grade | Grade 3/4 |
|---------------------------------------|-----------|-----------|
| Cytokine Release Syndrome, n (%) | 15 (88) | 1 (6) |
| ICANS, n (%) | 1 (6) | 1 6) |
| Macrophage Activation Syndrome, n (%) | 1 (6) | 1 (6) |
| Cerebellar disorder, n (%) | 2 (12) | 2 (12) |
| Infections, n (%) | 3 (18) | 2 (12) |
| Nail changes, n (%) | 11 (65) | 0 (0) |
| Maculo-papular rash, n (%) | 3 (18) | 0 (0) |
| Dysgeusia, n (%) | 2 (12) | 0 (0) |
| Hematologic Toxicities, n (%) | | |
| Anemia | 15 (88) | 7 (41) |
| Thrombocytopenia | 15 (88) | 11 (65) |
| Neutropenia | 17 (100) | 17 (100) |



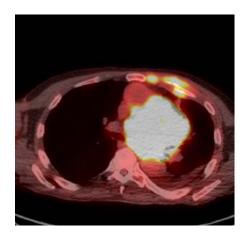
MCARH109: Clinical Responses

| Response | All Patients | | Previous BCMA therapies | | No previous BCMA therapies | |
|--|---------------------|-----------------------------------|-------------------------|----------------------------------|-------------------------------|----------------------------------|
| | All doses (n=17) | 25-150 million cells (n=12) | All doses (n=10) | 25-150 million cells (n=6) | All doses (n=7) | 25-150 million cells (n=6) |
| Partial Response or better, n (%) | 12 (71) | 7 (58) | 7 (70) | 3 (50) | 5 (71) | 4 (67) |
| Very Good Partial Response or better, n (%) | 10 (59) | 5 (42) | 6 (60) | 2 (33) | 4 (57) | 3 (50) |
| Complete Response or better, n (%) | 6 (35) | 3 (25) | 4 (40) | 2 (33) | 2 (29) | 1 (17) |
| BM MRD negativity*, n (%) | 8 (47) | 6 (50) | 3 (30) | 2 (33) | 5 (71) | 4 (67) |

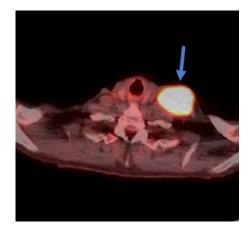
* MRD assessment by multicolor flow cytometry (sensitivity: 1 in 10⁵)



Radiologic Response: Patient #1



Pre-treatment





4 week follow-up





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GPRC5D directed therapies in clinical development

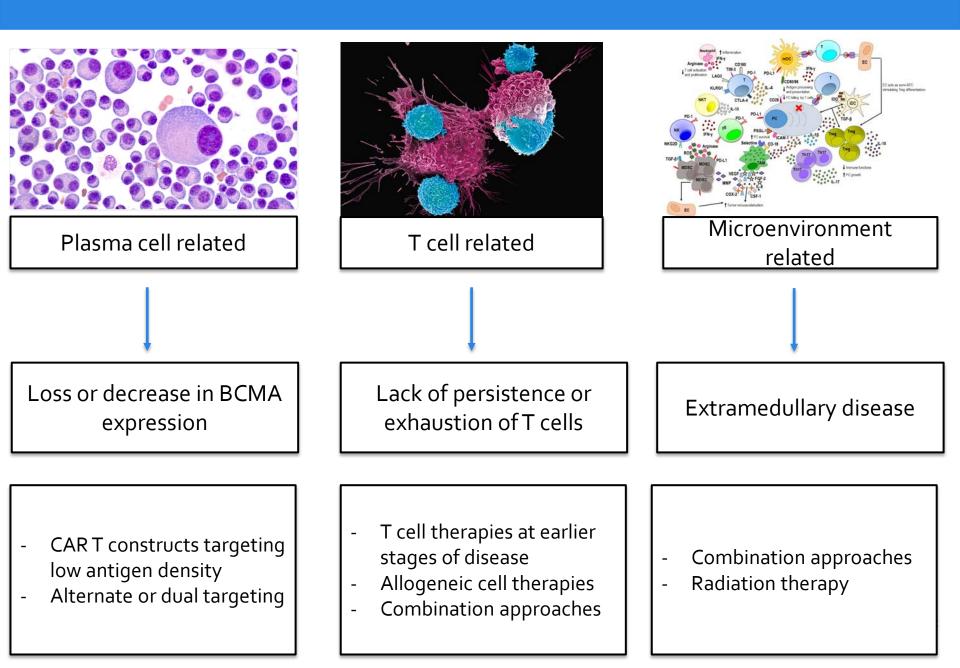
Table 1 | GPRC5D-directed CAR-T-cell and bispecific-antibody therapies in clinical development for patients with relapsed and/or refractory multiple myeloma with triple-class exposure

| Efficacy outcomes | Common adverse events (grade≥3) | Off-target, on-tumour toxicities (grade≥3) |
|--|--|--|
| | | |
| ORR 71% (≥CR in 35%), mDOR 7.8 months | CRS 88% (6%), neurotoxicities 6% (6%), cerebellar toxicities 12% (12%) | Nail changes 65% (0%), rash 18% (0%), dysgeusia 12% (0%) |
| ORR 89% (2CR in 47%), mDOR NR | CRS 64% (6%), neurotoxicities 6% (0%) | Nail changes 9% (0%), skin toxicities 30% (0%), dysgeusia 15% (0%) |
| ORR 100% (2CR in 60%), mDOR NR | CRS 100% (0%), neurotoxicities 0% (0%) | Nail changes 30% (0%), skin toxicities NA, dysgeusia NA |
| | | |
| ORR 70% (2CR in 23%), mDOR 10.2 months ^a | CRS 77% (3%), neurotoxicities 10% (0%)* | Nail changes 57% (0%), rash 47% (0%), non-rash skin toxicities 67% (0%), dysgeusia 63% (NA)" |
| ORR 64% (≥CR in 23%), mDOR 7.8 months ^b | CRS 80% (0%), neurotoxicities 5% (0%) ^b | Nail changes 27% (2%), rash 30% (16%), non-rash skin toxicities 70% (2%), dysgeusia 57% (NA) ^b |
| ORR 64% (≥CR in 25%), mDOR 12.5 months [∈] | CRS 79% (2%), neurotoxicities 12% (4%) ^c | Nail/hair changes 28% (0%), skin toxicities 86% (23%), mucosal toxicities 77% (5%)° |
| ORR 71% (2CR in 35%), mDOR 10.8 months ^d | CRS 82% (2%), neurotoxicities 10% (2%) ^d | Nail/hair changes 24% (0%), skin toxicities 78% (12%), mucosal toxicities 73% (0%) ^d |
| | ORR 71% (≥CR in 35%), mDOR 7.8 months ORR 89% (≥CR in 47%), mDOR NR ORR 100% (≥CR in 60%), mDOR NR ORR 70% (≥CR in 23%), mDOR 10.2 months ^a ORR 64% (≥CR in 23%), mDOR 7.8 months ^b ORR 64% (≥CR in 25%), mDOR 12.5 months ^c ORR 71% (≥CR in 35%), mDOR | ORR 71% (≥CR in 35%), mDOR CRS 88% (6%), neurotoxicities 6% (6%), cerebellar toxicities 12% (12%) ORR 89% (≥CR in 47%), mDOR NR CRS 64% (6%), neurotoxicities 6% (0%) mDOR NR ORR 100% (≥CR in 60%), mDOR CRS 100% (0%), neurotoxicities 0% (0%) NR ORR 70% (≥CR in 23%), mDOR 10.2 months* CRS 77% (3%), neurotoxicities 10% (0%)* ORR 64% (≥CR in 23%), mDOR 10.2 months* CRS 80% (0%), neurotoxicities 5% (0%)* ORR 64% (≥CR in 23%), mDOR 12.5 months* CRS 79% (2%), neurotoxicities 12% (4%)* ORR 64% (≥CR in 25%), mDOR CRS 79% (2%), neurotoxicities 12% (4%)* ORR 71% (≥CR in 35%), mDOR CRS 82% (2%), neurotoxicities 10% (2%)* |

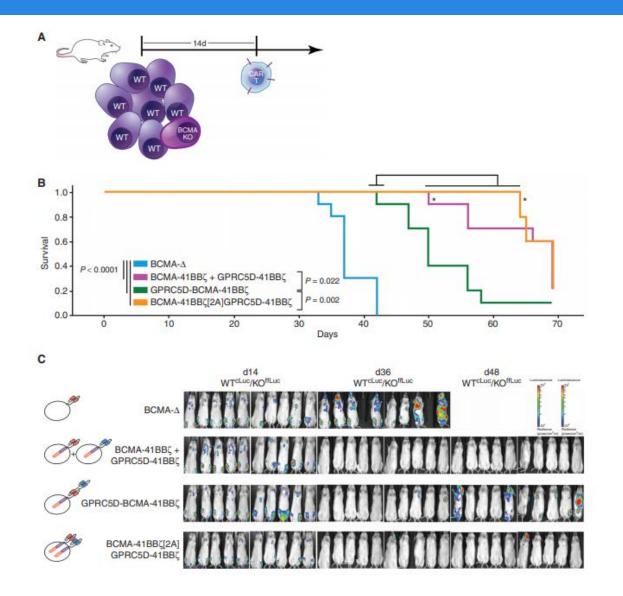
CAR, chimeric antigen receptor; 2CR, complete response or better; CRS, cytokine-release syndrome; mDOR, median duration of response; GPRC5D, G-protein-coupled receptor, class C, group 5, member D; NA, not available; NR, not reached; ORR, overall response rate. *Data for patients who received talquetamab at a subcutaneous dose of 405 µg/kg weekly. *Data for patients who received talquetamab at a subcutaneous dose of 800 µg/kg every other week. *Subcutaneous administration. *Intravenous administration.



Mechanisms of resistance to immune therapies



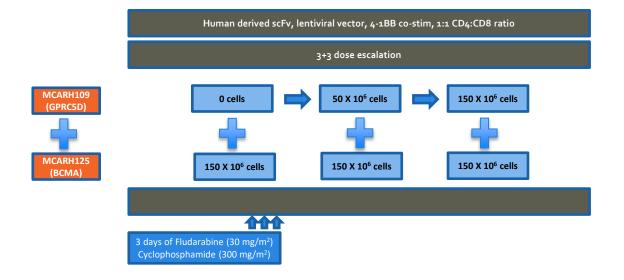
Rationale for Targeting Both GPRC5D and BCMA





Fernandez de Larrea C. et al. Blood Cancer Discovery 2020

BCMA and GPRC5D targeted CAR T cell therapy





- Two CART therapies and one bispecific antibody targeting BCMA are now FDA approved
- High overall responses and promising duration of response with these therapies
- Other potential immune therapies: allogeneic CAR T cells, bispecific antibodies
- Alternate targets like GPRC5D emerging as possible treatment options
- Relapses are common- mechanisms not entirely clear
- Potential for combinations and earlier use of these therapies in myeloma



Thank you!



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Thank you to our patients, families and caregivers!