

R&D Showcase

Leading the Revolution from CAR T Therapies to CAR T Products

November 29, 2022

Legal Disclaimers

To the extent statements contained in this Presentation are not descriptions of historical facts regarding Allogene Therapeutics, Inc. ("Allogene," "we," "us," or "our"), they are forward-looking statements reflecting management's current beliefs and expectations. Forward-looking statements are subject to known and unknown risks, uncertainties, and other factors that may cause our or our industry's actual results, levels or activity, performance, or achievements to be materially different from those anticipated by such statements. You can identify forward-looking statements by words such as "anticipate," "believe," "could," "estimate," "expect," "intend," "may," "plan," "potential," "predict," "project," "should," "will," "would" or the negative of those terms, and similar expressions that convey uncertainty of future events or outcomes. Forward-looking statements contained in this Presentation include, but are not limited to, statements regarding: the timing and ability to progress the ALPHA2, UNIVERSAL, IGNITE and TRAVERSE trials; the timing and ability to initiate the EXPAND trial for ALLO-647; clinical outcomes, which may materially change as more patient data become available; the ability to manufacture AlloCAR T[™] products, including obtaining FDA allowance to use material manufactured at the Company's manufacturing facility for use in any clinical trial; the projection related to the number of AlloCAR T doses that can be produced at Cell Forge 1 at scale on an annual basis; the potential benefits of AlloCAR T. Various factors may cause material differences between Allogene's expectations and actual results as discussed in greater detail in Allogene's filings with the Securities and Exchange Commission (SEC), including without limitation in its Form 10-Q for the quarter ended September 30, 2022.

Caution should be exercised when interpreting results from separate trials involving separate product candidates. There are differences in the clinical trial design, patient populations, follow-up times, and the product candidates themselves, and the results from the clinical trials of autologous products may have no interpretative value on our existing or future results.

Except as required by law, we undertake no obligation to publicly update any forward-looking statements, whether as a result of new information, future events or otherwise. This Presentation shall not constitute an offer to sell or the solicitation of an offer to buy securities, nor shall there be any sale of securities in any state or jurisdiction in which such offer, solicitation or sale would be unlawful prior to registration or qualification under the securities laws of any such state or jurisdiction.

Clarivate makes no representation or warranty as to the accuracy or completeness of the data ("Clarivate Materials") set forth herein and shall have, and accept, no liability of any kind, whether in contract, tort (including negligence) or otherwise, to any third party arising from or related to use of the Clarivate Materials by Allogene Therapeutics. Any use which Allogene Therapeutics or a third party makes of the Clarivate Materials, or any reliance on it, or decisions to be made based on it, are the sole responsibilities of Client and such third party. In no way shall any data appearing in the Clarivate Materials amount to any form of prediction of future events or circumstances and no such reliance may be inferred or implied.



David Chang, M.D., Ph.D. Allogene: From Vision to Vial



The Birth of an Industry



"Off-the-Shelf" Democratization of CAR T Needed to Address Growing Demand



All Decision Resource Group-cited data © 2022 DR/Decision Resources, LLC. All rights reserved. Reproduction, distribution, transmission or publication is prohibited. Reprinted with permission.

*2017-2022 estimated and rounded based on manufacturer-reported sales (w/Q4'22 projected at Q3'22 actual sales rate) and average \$400K/patient assumption; 2025-2030 estimated and rounded based on Decision Resources Group sales and market share projections

**Decision Resources Group epidemiology for drug-treated incidence G7 markets, rounded and not necessarily reflecting specific medical eligibility criteria for autologous CAR T therapies; current indications defined as 2L/3L+ LBCL, 3L+ FL, r/r MCL, r/r Adult ALL, r/r Pediatric/Young Adult ALL, 5L+ MM; expected future indications represent Allogene assumptions on CAR T indications in 2030 and include 1L+ LBCL, 2L+ FL, r/r MCL, 1L+ MM ^ Decision Resources Group estimated autologous CAR T sales for 2L+ LBCL, 2L+ FL, 3L+ MCL and 3L+ MM in 2025 and 2L+ LBCL, 2L+ FL, 3L+ MCL, and 1L+ MM in 2030

Recent Survey Unveils Real-World Access Challenges



Agree CAR T therapies have changed how they manage aggressive cancers

Extensive wait times and manufacturing limitations keep many eligible patients from receiving treatment – even in high volume centers Of eligible patients who can wait for manufacturing



receive an autologous CAR T therapy



receive treatment within one month



wait 3-6+ months to receive treatment

For eligible patients,

disease progression

manufacturing capacity

and comorbidities

were the top reasons for not receiving CAR T

2022 Survey sponsored by Allogene and conducted by an independent third-party research organization of 50 U.S.-based hematologist-oncologists, physician assistants, nurse practitioners, and registered nurses from academic centers with CAR T therapy capabilities



Allogene: On a Mission for Patients

Our mission is to create and lead the next revolution in cancer treatment by delivering to patients the first allogeneic CAR T cell (AlloCAR T[™]) products for blood cancers and solid tumors

STAT

How do you decide? Cancer treatment's CAR-T crisis has patients dying on a waitlist





Access to CAR-T cell therapies is being hindered by manufacturing bottlenecks, leading some in the industry to push for next generation of "off-the-shelf" therapies.

Leaders at @AllogeneTx and @MoffittNews discuss the impacts on industry and patients.



pharmavoice.com

While CAR-T wait times remain 'heartbreaking,' researchers push for innovatio... Facing an unprecedented manufacturing bottleneck, a new coalition is siming to create the next generation of CAR-T therapies.

7:54 AM · Nov 8, 2022 · Twitter Web App





Allogene: Creating the Allogeneic Cell Therapy Playbook





*Based upon publicly-reported patient data

Engine for Innovation, Execution and Growth

• Allogene brings together **first movers** in the success of autologous CAR Ts, pioneers in allogeneic technology, and a deep bench of functional leaders experienced in innovative drug development



- 5 product candidates to the clinic
- 7 clinical trials across 40 centers
- >175 patients treated
- 2 RMAT designations

- Deep GMP processes understanding
- Cell Forge 1 manufacturing facility
- Highly characterized drug product
- 20K potential doses per year at scale



- Fueling Next Generation
 Technologies
- Critical mass of data ~ 5.7 terabytes of enterprise-wide AlloCAR T data creates insight advantage across the platform

The Keys to Unlocking Allogeneic CAR T Potential



to Phase 2 with ALLO-715

llogene

 Proof-of-principle in solid tumors with ALLO-316

*Based upon publicly-reported patient data

10

Deep & Advancing Hematologic AlloCAR T Pipeline

Target	Program	Trial name	Study population	Discovery	IND- enabling	Phase 1	Phase 2 ¹	Approved	Designation	Next milestone
CD19	ALLO-501A	ALPHA2	3+ Line LBCL	•					FTD RMAT	Target enrollment completion 1H 2024
CD19	ALLO-501A	ALPHA3	2+ Line LBCL	•						Ph2 readiness in 2023
CD19	ALLO-501A + ALLO-647 ²	EXPAND	3+ Line LBCL	•						Initiation activities underway
CD19	CD19 - Next Generation									
BCMA	ALLO-715	UNIVERSAL	5+ Line MM	•					RMAT ODD	Preparing for Ph2
BCMA	ALLO-605 ³	IGNITE	5+ Line MM	•					FTD ODD	Re-open enrollment
CD70	ALLO-316		Heme Malignancies	•						
FLT3	ALLO-819		AML							

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

²ALLO-647 (anti-CD52 mAb) is intended to enable expansion and persistence of allogeneic CAR T product candidates ³TurboCAR™



Potential Across Broad Solid Tumor Directed AlloCAR T Pipeline

Target	Program	Trial name	Study population	Discovery	IND- enabling	Phase 1	Phase 2 ¹	Approved	Designation	Next milestone
CD70	ALLO-316	TRAVERSE	ccRCC	•					FTD	Cohort expansion 1H 2023
CD70	ALLO-316		Basket Study	•						Determine histologies for inclusion
DLL3	ALLO-213		SCLC	•						
Claudin 18.2	ALLO-182		Gastric & Pancreatic Cancer	•						
	7 undisclosed targets									

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



What We Will Talk About Today

- CD19 Program
 - ALLO-501A can achieve deep, durable responses, has best-in-class potential
 - Proprietary ALLO-647 platform improves clinical outcomes
 - Selection process for optimized Phase 2 dosing regimen
- BCMA Program
 - ALLO-715 demonstrates activity on par with approved BCMA-directed therapies
 - Preparation underway for a potentially pivotal Phase 2 trial
- CD70 Program
 - Initial proof-of-concept data for ALLO-316 in renal cell carcinoma
 - CD70 expression profiling to select patients most likely to respond
 - Dagger[™] Technology, a next generation allogeneic platform based on CD70 biology



ASH 2021: LBCL Patients Who Achieved a Complete Response



Months



Oct 2022 Update: Responses Remained Durable in LBCL with Additional Follow-Up



Months



R&D Showcase Agenda

Торіс	Speaker	Time (ET)						
Allogene: From Vision to Vial	David Chang, M.D., Ph.D. Chief Executive Officer, President and Co-Founder of Allogene	1:00 – 1:10						
Hematologic Franchise								
Charting the Course for Allogeneic Cell Therapies in Hematology	Rafael Amado, M.D. Executive Vice President, R&D of Allogene	1:10 - 1:20						
The ALPHA Trials (ALLO-501/ALLO-501A)	Frederick Locke, M.D. Chair, Department of Blood & Marrow Transplant and Cellular Immunotherapy; program co-leader, Immuno-Oncology, Moffitt Cancer Center	1:20 – 1:35						
The UNIVERSAL Trial (ALLO-715)	Adriana Rossi, M.D. Assistant Professor Hematology and Medical Oncology; Co-Director CAR T and Stem Cell Transplant Center, The Mount Sinai Hospital	1:35 – 1:45						
Panel: Investigator Insight Moderator: Rafael Amado, M.D.	 Herbert Eradat, M.D. Internal Medicine Specialist, Ronald Reagan UCLA Medical Center and UCLA Santa Monica Medical Center Frederick Locke, M.D. Nikhil C. Munshi, M.D. Professor, Medical Oncology, Dana-Farber Cancer Institute Adriana Rossi, M.D. 	1:45 – 2:10						
The ALLO Manufacturing Difference	Alison Moore, Ph.D. Chief Technical Officer of Allogene	2:10 - 2:20						
The AlloCAR T Product Opportunity	Eric Schmidt, Ph.D. Chief Financial Officer of Allogene	2:20 - 2:30						



R&D Showcase Agenda (cont.)

Торіс	Speaker	Time (ET)
	BREAK	10 min
	The Next Frontier: Advancing CAR T into Solid Tumors	
Bringing AlloCART to Solid Tumors	Barbra Sasu, Ph.D. Chief Scientific Officer of Allogene	2:40 - 2:50
ALLO-316: The TRAVERSE Trial	Ritesh Kotecha, M.D. Assistant Attending Physician, Memorial Sloan Kettering Cancer Center	2:50 – 3:05
Panel: AlloCAR T for RCC Moderator: David Chang, M.D., Ph.D.	 Arie Belldegrun, M.D. Executive Chairman and Co-Founder of Allogene Director & Founder, UCLA Institute of Urologic Oncology; Professor of Urology, Research; Chief, Division of Urologic Oncology, Emeritus, David Geffen School of Medicine, UCLA Health Malcolm K. Brenner, M.D., Ph.D. Founding Director, Center for Cell and Gene Therapy, Baylor College of Medicine Ritesh Kotecha, M.D. Robert J. Motzer, M.D. Section Head, Kidney Cancer, Genitourinary Oncology Service; Jack and Dorothy Byrne Chair in Clinical Oncology, Memorial Sloan Kettering Cancer Center 	3:05 – 3:30
Executing on Our Vision	David Chang	3:30 – 3:35
Q&A (LIVE)	Moderator: David Chang	3:35 - 4:00



Rafael Amado, M.D. Charting the Course for Allogeneic Cell Therapies in Hematology



Engine for Innovation, Execution and Growth



Evolution of ALLO-501A Program in NHL





Establish Proof of Concept

- No evidence of Graft vs. Host Disease
- Safe and effective lymphodepletion
- Cell expansion and initial signs of efficacy



Validate Platform & Enhance Profile

- Optimal lymphodepletion and cell dosing established for Phase 2
- Today

ASH 2021

- Improved manufacturing process
- Demonstrated durability of responses



Launch & Expand Indications

- Prepare BLA submission
- Scale manufacturing to meet demand
- Execute broad development plan

Future



Optimizing Study Design Parameters for Phase 2 ALPHA2



Phase 2 Regimen = Single dose of ALLO-501A, FCA90 lymphodepletion and Alloy[™] manufacturing



CD19 AlloCAR T: PFS Tracks with Approved CD19 Autologous CAR T



1. Neelapu SS, et al. *N Engl J Med.* 2017;377:2531-44. **2.** Schuster SJ, et al. *N Engl J Med* 2019;380:45-56. **3.** Abramson JS, et al. *Lancet* 2020; 396: 839-52 FOR ILLUSTRATIVE PURPOSES ONLY: no head-to-head clinical trial has been conducted. Differences exist between trial designs and subject characteristics, and caution should be exercised when comparing data across studies..



CD19 AlloCAR T: PFS Tracks with Approved CD19 Autologous CAR T



1. Neelapu SS, et al. *N Engl J Med.* 2017;377:2531-44. **2.** Schuster SJ, et al. *N Engl J Med* 2019;380:45-56. **3.** Abramson JS, et al. *Lancet* 2020; 396: 839-52 FOR ILLUSTRATIVE PURPOSES ONLY: no head-to-head clinical trial has been conducted. Differences exist between trial designs and subject characteristics, and caution should be exercised when comparing data across studies..

Data Cutoff Date: October 25, 2022



CD19 AlloCAR T: PFS Tracks with Approved CD19 Autologous CAR T



1. Neelapu SS, et al. *N Engl J Med*. 2017;377:2531-44. **2.** Schuster SJ, et al. *N Engl J Med* 2019;380:45-56. **3.** Abramson JS, et al. *Lancet* 2020; 396: 839-52 FOR ILLUSTRATIVE PURPOSES ONLY: no head-to-head clinical trial has been conducted. Differences exist between trial designs and subject characteristics, and caution should be exercised when comparing data across studies..

Data Cutoff Date: October 25, 2022



Proprietary ALLO-647 Platform Improved Clinical Outcomes

- Allogeneic CAR T dosed with standard FC lymphodepletion results in limited response rate and durability
- Addition of ALLO-647 to FC compared to FC alone* led to significant CAR T cell expansion
- Data demonstrate dose response relationship between ALLO-647 and likelihood of response and cell expansion
- FCA90 optimized for high probability of response
- EXPAND study designed to confirm contribution of ALLO-647 to standard FC lymphodepletion





*ASH 2018 Benjamin, R Abstract # 612

3L+ LBCL Program Intended for Approval of ALLO-501A & ALLO-647

v2 tudy	g/ int	Lymphodepletion (d -5 to -3)	Treatment (d0)	Primary EPs		
ALPHA Phase 2 S (n=100	Screenin Enrollme	 Flu 30 mg/m2 IV x3 Cy 300 mg/m2 IV x3 ALLO-647 90 mg IV 	ALLO-501A: single IV infusion of 120M CART cells on day 0	• ORR • CR		

t	Active Arm: Lymphodepletion (d -5 to -3)	Treatment (d0)	
g/Enrollmer	 Flu 30 mg/m2 IV x3 Cy 300 mg/m2 IV x3 ALLO-647 90 mg IV 	ALLO-501A: single IV infusion of 120M CART cells on day 0	Primary EPPFS
enin	Control Arm: Lymphodepletion (d -5 to -3)	Treatment (d0)	
Scre	 Flu 30 mg/m2 IV x3 Cy 300 mg/m2 IV x3 	ALLO-501A: single IV infusion of 120M CART cells on day 0	



EXPAND Phase 2 Study (n=70)

Evolution of the BCMA Program in MM



Establish Proof of Concept

- No evidence of Graft vs. Host Disease
- Safe and effective lymphodepletion
- Cell expansion and initial signs of efficacy





Validate Platform & Enhance Profile

- Optimal lymphodepletion and cell dosing established for Phase 2
- Delivered in spec product within days without need for bridging therapy
- Demonstrated durability of responses



Deliver Approval and Launch

- Hold regulatory discussions and execute development plan
- Improve and scale manufacturing to meet demand
- Start Phase 2 study

Future

Today



ASH 2021: Ongoing Responses with ALLO-715



Months



Oct 2022 Update: Responses are Durable with ALLO-715



Months



Progressing ALLO-715 to a Potentially Pivotal Phase 2 Trial

Finalized optimal lymphodepletion approach in Multiple Myeloma

2

1

Regulatory discussions planned for potentially pivotal Phase 2 trial

3

Further optimizing manufacturing process and transitioning ALLO-715 to CF1



Summary: Creating a Best & First-in-Class Profile in Heme

✓CD19 Program

- ALLO-501A can achieve deep, durable responses, has best-in-class potential
- Proprietary ALLO-647 platform improves clinical outcomes
- Selection process for optimized Phase 2 dosing regimen

✓ BCMA Program

- ALLO-715 demonstrates activity on par with approved BCMA-directed therapies
- Preparation underway for a potentially pivotal Phase 2 trial
- CD70 Program
 - Initial proof-of-concept data for ALLO-316 in renal cell carcinoma
 - CD70 expression profiling to select patients most likely to respond
 - DaggerTM Technology, a next generation allogeneic platform based on CD70 biology



Frederick Locke, M.D. ALLO-501 & ALLO-501A: The ALPHA Trials



ALPHA Studies: Background on ALLO-501 & ALLO-501A

- ALLO-501 is an allogeneic anti-CD19 CAR T cell product that established initial proof of concept in NHL
- ALLO-501A is next generation allogeneic anti-CD19 CAR T cell product that lacks rituximab recognition domains
- Both utilize TALEN®* gene editing to:
 - Knock-out TCRα constant gene to reduce the risk of graft-versus-host disease (GvHD)
 - Knock-out CD52 gene permits use of ALLO-647 (a humanized anti-CD52 mAb) to selectively deplete host T cells while leaving allogeneic CAR T cells untouched
- No HLA matching



*TALEN[®] gene editing is a technology pioneered and controlled by Cellectis.



The ALPHA Trials for R/R Large B Cell Lymphoma

Key Eligibility Criteria

ALPHA and ALPHA2

- Relapsed/refractory large B cell lymphoma (LBCL)
- ≥2 prior lines of therapy, including an anthracycline and anti-CD20 monoclonal antibody
- ECOG PS of 0 or 1

ALPHA2

• Excluded patients with prior autologous CAR T

Primary Endpoints

- Safety and dose-limiting toxicity of ALLO-647/Flu/Cy followed by ALLO-501/ALLO-501A
- · Overall response rate by investigator review

Secondary Endpoints

- ALLO-501/ALLO-501A cell expansion kinetics
- Durability of response
- ALLO-647 PK



Safety and Response Assessment



Patient Demographics: Autologous CAR T Naive LBCL Patients

			Alloy Process					
Characteristics		All LBCL [*] (n=48)	All Alloy [†] (n=33)	Consolidation Regimens (n=15)	Single Dose FCA90 (n=12)			
Age, median, years		66 (31, 76)	66 (31, 76)	66 (31, 76) 67 (44, 76)				
Stage III disease, n (%)		14 (29)	10 (30)	5 (33)	4 (33)			
Stage IV disease, n (%)		28 (58)	18 (55)	7 (47)	7 (58)			
ECOG PS, n (%)	0	9 (19)	7 (21)	3 (20)	1 (8)			
	1	39 (81)	26 (79)	12 (80)	11 (92)			
Baseline LDH > ULN		32 (67)	22 (67)	10 (67)	8 (67)			
IPI score, n(%)	3	16 (33)	10 (30)	5 (33)	3 (25)			
	4	11 (23)	9 (27)	6 (40)	3 (25)			
Germinal center subt	ype, n (%)	31 (65)	18 (55)	9 (60)	6 (50)			
Double or triple hit, n (%)		15 (31)	10 (30)	5 (33)	4 (33)			
Median # prior regimens (min, max)		3 (2, 8)	3 (2, 8)	2 (2, 8)	3 (2, 5)			
Prior transplant, n (%)	8 (17)	7 (21)	0	6 (50)			
Extranodal Disease,	n (%)	28 (58)	18 (55)	8 (53)	6 (50)			

 Across all LBCL, patients had advanced disease

- 58% had stage IV disease
- 23% had IPI score of 4
- Heavily pretreated patients
 - Median of 3 prior lines of therapy
 - 17% had prior transplant

* Includes Auto naïve treated LBCL patients in ALPHA and ALPHA2 Phase 1 studies; 15 patients were treated with non-Alloy material

+ Includes six single dose subjects lymphodepleted with FC and A <90 mg



AlloCAR T Demonstrated Manageable Safety Profile

	All LBCL (N=48)		Alloy Process							
			All Alloy (n=33)		Consolidation Regimens (n=15)		Single Dose FCA90 (n=12)			
TEAE of Interest*	All Grs	Gr 3+	All Grs	Gr 3+	All Grs	Gr 3+	All Grs	Gr 3+		
	n (%)	n (%)	n (%)	n (%)	n (%)	n (%)	n (%)	n (%)		
Cytokine Release Syndrome	11 (23)	0	8 (24)	0	3 (20)	0	4 (33)	0		
Neurotoxicity [†]	15 (31)	3 (6)	12 (36)	2 (6)	6 (40)	2 (13)	4 (33)	0		
ICANS	0	0	0	0	0	0	0	0		
Graft-versus-Host Disease	0	0	0	0	0	0	0	0		
Infection [‡]	25 (52)	9 (19)	19 (58)	5 (15)	8 (53)	3 (20)	8 (67)	1 (8)		
Prolonged Gr3+ Cytopenia [§]	-	9 (19)	-	4 (12)	-	2 (13)	-	2 (17)		

- 20 (42%) of all LBCL patients experienced an SAE
- Gr 3+ adverse events (AEs) occurred in 45 (94%) of all LBCL patients which included cytopenias
- 1 Gr 5 event in LBCL population was previously reported
- * Number of patients with AE occurring from the start of study drug up to subsequent anti-cancer therapy. For patients reporting more than one AE within a preferred term, only one AE with the maximum grade is reported
- Neurologic toxicities include preferred terms within broad and narrow scope of Noninfectious encephalopathy/delirium SMQ
 All infections (bacterial, fungal, and viral) included

[§] Prolonged cytopenia defined as Grade 3 or higher cytopenia present at day 56 and which has persisted for at least 21 days

- Manageable safety profile:
 - No GvHD
 - No ICANS
 - CRS was low grade
 - Most common manifestations of neurotoxicity were consistent with previous reports and included tremor and muscle weakness


Optimal Clinical Outcomes with Single Dose FCA90

		Alloy Process			
	All LBCL (n=48)	All Alloy (n=33)	Consolidation Regimen (n=15)	Single Dose FCA90 (n=12)	
Overall Response Rate (ORR), n (%)	23 (48)	19 (58)	8 (53)	8 (67)	
Complete Response (CR), n (%)	14 (29)	14 (42)	6 (40)	7 (58)	
6-month CR rate, n (%)	9 (23)	9 (31)	5 (33)	4 (50)	
12-month CR rate, n (%)	8 (21)	8 (28)	4 (27)	4 (50)	

- ORR and CR in patients treated with Alloy single dose FCA90 is 67% and 58%, respectively with a median duration of response of 23.1 months
- Patients in the single dose FCA90 cohort who had the opportunity to be followed for 6 and 12 months had 6-month and 12-month CR rate of 50%
- 92% of enrolled patients (Alloy process) received product
 - 100% of infused product manufactured and released per product specifications
 - Treatment initiation within 2 days of enrollment



Durability of Response from Single Dose FCA90 Reflected in Prolonged PFS



Data Cutoff Date: October 25, 2022



ALPHA Studies Demonstrated Access, Feasibility & Durability with AlloCAR T

- Single Infusion of ALLO-501/501A manufactured with Alloy process material produced deep and durable responses in patients with r/r LBCL
 - 67% ORR and 58% CR Rate with single cell dosing plus proprietary lymphodepletion (FCA90)
 - 50% 6-month and 12-month CR rates with single infusion of CAR T cells following FCA90 lymphodepletion with the longest CR ongoing at 26+ months
- No DLTs, ICANS or GvHD
 - FCA90 generally well tolerated with no Grade 3+ CRS or neurotoxicity
 - Safety Aligned with Autologous CAR T Therapy
- 92% of enrolled patients received product
 - 100% of infused product manufactured and released per product specifications
 - Treatment initiation within 2 days of enrollment
- FDA RMAT Designation granted to ALLO-501A for r/r LBCL
- Data establishes strong foundation for the ongoing ALPHA2, the industry's first potentially pivotal Phase 2 trial



Adriana Rossi, M.D. ALLO-715: The UNIVERSAL Trial



UNIVERSAL Study: Background on ALLO-715

- ALLO-715 is an allogeneic anti-BCMA CAR T cell product utilizing TALEN®* gene editing specifically designed to
 - Knock-out TCRα constant gene to reduce the risk graft-versus-host disease (GvHD)
 - Knock-out CD52 gene permits use of ALLO-647 (a humanized anti-CD52 mAb) to selectively deplete host T cells while leaving allogeneic CAR T cells untouched
- No HLA matching
- This update reports on ALLO-715 dose expansion cohorts of 320M CAR+ cells (DL3) using FCA39 and FCA60 lymphodepletion regimens



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

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



*TALEN® gene editing is a technology pioneered and controlled by Cellectis.

UNIVERSAL: First Allogeneic BCMA CAR T Study in Multiple Myeloma Phase 1, Open-label, Multicenter Dose Escalation Study Enrolling in 13 US Centers

Key Eligibility Criteria

- Relapsed/Refractory Multiple Myeloma
- \geq 3 prior therapies including IMiD, proteasome inhibitor & anti-CD38
- Refractory to last prior therapy
- ECOG 0 or 1
- · No donor-specific antibodies
- No bridging therapy allowed

Primary Endpoints

• Safety and tolerability

Secondary Endpoints

- Recommended ALLO-715 P2 dose and lymphodepletion regimen
- Anti-tumor activity (ORR, duration of response, PFS, and MRD)
- ALLO-715 cellular kinetics
- ALLO-647 pharmacokinetics

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



ALLO-715 Dose Escalation: 40, 160, 320, 480 x $10^6 \mbox{ CAR}^+ \mbox{ T cells}$			
Lymphodepletion Regimens (FCA*, CA ⁺)	Doses		
Fludarabine	30 mg/m²/day x 3 days		
Cyclophosphamide	300 mg/m²/day x 3 days		
ALLO-647	13 to 30 mg/day x 3 days		

ALLO-715 dose expansion cohort was at 320M CAR+ (DL3) using FCA39 and FCA60 Lymphodepletion regimens and is reported here



Patient Demographics: Dose Level 3 Expansion Cohorts

	Expansion Cohorts			
	N=28	FCA39 (n=11)	FCA 60 (n=17)	
Age, median (range), yrs	65 (49, 78)	66 (57, 77)	65 (49, 78)	
Gender: Male / Female, %	64 / 36	64 / 36	65 / 35	
ECOG PS: 0 / 1, %	50 / 50	55 / 46	47 / 53	
ISS Stage III, %	25	0	41	
High-Risk Cytogenetics*, %	25	27	29	
Extramedullary Disease, %	29	36	24	
High Tumor Burden [†] , %	25	36	18	
Time Since Initial Diagnosis, median (range), yrs	7.2 (1.9, 26.4)	6.4 (2.5, 20.5)	8.1 (1.9, 26.4)	
Prior Anti-Myeloma Regimens, median (range)	6 (3, 9)	8 (3, 9)	6 (3, 9)	
Prior Autologous SCT, %	89	91	88	
Penta-Refractory, %	25	36	24	

* High risk cytogenetics is defined as del 17p, t(4;14), and t(14;16) † High tumor burden consider when more than 50% plasma cells in bone marrow

- Median time from enrollment to treatment was 5 days
- 92% of all enrolled patients received ALLO-715 with 100% manufactured and released as per product specifications
- 86% of patients were pentaexposed; 25% of patients were penta-refractory
- Patient demographics in general similar to those in autologous CAR T clinical trials



ALLO-715 and ALLO-647 Demonstrated Manageable Safety Results

	Expansion Cohorts (n=28)		
TEAE of Interest*	All Grades n (%)	Grade 3+ n (%)	
Cytokine Release Syndrome	19 (68)	1 (4)	
Neurotoxicity [†]	17 (61)	0	
ICANS	1 (4)	0	
Graft-versus-Host Disease	0	0	
Infection [‡]	19 (68)	8 (29)	
Prolonged Gr3+ Cytopenia [§]	-	8 (29)	

- Manageable safety profile across all doses
 - No DLTs
 - No GvHD
 - Low-grade and reversible neurotoxicity
 - One Gr 2 ICANS
 - Low grade CRS with only one Gr 3
 - Low use of tocilizumab 32% and steroids 25%

• 19 (68%) of expansion patients experienced an SAE

• Gr 3+ infections occurred in 8 (29%) of patients with 1 Gr 5 infection (sepsis) previously reported at ASH 2021; no other Gr 5 events occurred in expansion cohorts

‡ All infections (bacterial, fungal, and viral) included

§ Prolonged cytopenia defined by as any grade 3 or higher higher cytopenia present at Day 28

Expansion cohorts include all treated at FCA39 and FCA60 and 320M cells.



^{*} Number of patients with AE occurring from the start of study drug up to subsequent anti-cancer therapy. For patients reporting more than one AE within a preferred term, only one AE with the maximum grade is reported + Events of NT identified using Allogene MedDRA query, over 200 preferred terms (PT) selected to identify the medical concept of Neurologic toxicities including ICANs

Expansion Cohorts Demonstrated Deep and Durable Responses

	Expansion Cohorts			
LD Regimen	Total (n=23)	FCA39 (n=11)	FCA60 (n=12)	
ORR,* n (%)	15 (65)	7 (64)	8 (67)	
VGPR+ [†] rate, n (%)	11(48)	6 (54)	5 (42)	
CR/sCR [‡] rate, n (%)	5 (22)	3 (27)	2 (17)	
Median DOR	8.3	8.3	9.2	

Five patients with best responses ranging from stable disease to partial response are not included due to limited follow-up

- Through a median follow-up of 14.8 months, the ORR was 64% in the FCA39 cohort and 67% in the FCA60 cohort
- Expansion cohorts achieved durable responses in patients with R/R MM with a median DOR of 8.3 and 9.2 months in FCA39 and FCA60, respectively.
- All VGPR+ patients achieved MRD negative status
- 92% of all enrolled patients received product
 - 100% of infused product manufactured and released per product specifications
 - Treatment initiation within 5 days of enrollment with no bridging therapy

*Overall response rate, confirmed; clinical response evaluation was based on International Myeloma Working Group (IMWG) response criteria. An objective response is defined as a partial response or better *VGPR+ is very good partial response, complete response or stringent complete response, confirmed *Complete response/stringent complete response



Expansion Cohorts Durable Responses Continued





Results Demonstrate Feasibility of AlloCAR T in Multiple Myeloma

- UNIVERSAL has demonstrated significant and durable responses with a manageable safety profile and ongoing responses up to 24 months
- ALLO-715 expansion cohorts with FCA lymphodepletion was associated with clinically meaningful efficacy, including VGPR+ rates of nearly 50% without requiring leukapheresis or bridging therapy
- All patients who were VGPR+ achieved MRD negative status
- 92% of enrolled patients received product
 - 100% of infused product manufactured and released as per product specifications
 - Treatment initiation within 5 days of enrollment with no bridging therapy
- DL3 (320 million CAR+ cells) with FCA60 lymphodepletion is promising and deserves further exploration







Rafael Amado, M.D. Moderator





Herbert Eradat M.D.

Internal Medicine Specialist, Ronald Reagan UCLA Medical Center and UCLA Santa Monica Medical Center



Frederick Locke, M.D.

Chair, Department of Blood & Marrow Transplant and Cellular Immunotherapy; program coleader, Immuno-Oncology, Moffitt Cancer Center



Nikhil C. Munshi, M.D.

Professor, Medical Oncology, Dana-Farber Cancer Institute



Adriana Rossi, M.D.

Assistant Professor Hematology and Medical Oncology; Co-Director CAR T and Stem Cell Transplant Center, The Mount Sinai Hospital



CD19 AlloCAR T: Complete Response Competitive with Autologous CAR T

	All Alloy (n=33)	FCA90 Alloy (n=12)	KYMRIAH ^{®1} Phase 2 Pivotal	YESCARTA ^{®2} Phase 2 Pivotal	BREYANZI ^{®3} Phase 2 Pivotal
ORR	58%	67%	50% (label)	72% (label)	73% (label)
CR in LBCL (mITT)	42%	58%	32% (label)	51% (label)	54% (label)
CR at 6 months in LBCL (mITT)	31%	50%	29%	36%	~ 40%
CRS (Gr 3+)	0%	0%	22%	13%	4%
Neuro Events (Gr3+)	6%	0%	12%	31%	12%
Infection (Gr3+)	15%	8%	20%	23%	19%
% enrolled who did not receive intended cell product	8%	8%	33%**	9%**	36%^

¹ KYMRIAH USPI and Schuster S et al NEJM 2019. Patient population in the label includes: 78% - primary DLBCL not otherwise specified (NOS); 22% DLBCL following transformation from Follicular Lymphoma

²YESCARTA USPI and Neelapu, NEJM 2017. Patient population in the label includes: 76% - DLBC; 16% - Transformed Follicular Lymphoma; 8% Primary Mediastinal Large B-cell Lymphoma.

³ BREYANZI USPI and Abramson, Lancet, 2020. Patient population in label includes: 53% - de novo DLBCL; 25% DLBCL transformed from indolent Lymphoma; 14% high-grade B-cell Lymphoma; 7% Primary Mediastinal Large B-cell Lymphoma; 1% grade 3B Follicular Lymphoma **Percent of patients who enrolled and did not receive intended cell product including out of spec products

^Percent who underwent lymphodepletion but did not receive intended cell product including out of spec products

FOR ILLUSTRATIVE PURPOSES ONLY: no head-to-head clinical trial has been conducted. Differences exist between trial designs and subject characteristics, and caution should be exercised when comparing data across studies.



Single Dose ALLO-715 Data Indicates Potential to Address Patient Need

Treatment Administration and Efficacy (mITT)	ALLO-715 (320M & FCA60) n=12 ¹	Tecvayli (teclistamab)²	Abecma® (Ide-cel) ³	Carvykti (Cilta-cel)⁴
ORR (mITT)	67%	62%	72%	98%
VGPR+ Rate (mITT)	42%	57%	53%	95%
CR/sCR Rate (mITT)	17%	28%	28%	78%
MRD ⁵ - in VGPR+	100%	69%	75%	92%
Duration of Response (median)	9.2 mo ⁶	Not reached	11.0 mo	21.8 mo
CRS (Gr3+)	0%	< 1%	9%	5%
Neurologic Toxicity (Gr3+)	0%	2.4%	4%	11%
Infection (Gr3+)	35%	39.2%	26%	27%
Grade 5 Adverse Events	6%	5%	6%	9%
% enrolled who did not receive	110/	Discontinuation (AE) 1.2%	26%	20%
intended cell product ⁷	1170	Dose interruption (AE) 73%	2070	2970
Days to treatment initiation ⁸	5	Not reported	33	32
Required bridging therapy	0%	NA	87%	75%

¹ data through 11 Oct 2022; ² Tecvalyi USPI and Usmani, 2021; ³ Abecma USMI and Munshi, 2021; ⁴ USPI and Berdeja, 2021; ⁵ For UNIVERSAL, MRD status is evaluated in subjects with VGPR+; for Tecvayli, MRD is reported in 26 subjects with CR or better; for Abecma, MRD is reported among subjects with CR or sCR; ⁶ 5 subjects remain in response between 17 and 24 months; ⁷ cell product that is successfully manufactured and meets release specifications; for Abecma 11 patients did not receive treatment and 24 patients received out of specification product; for Carvykti, 16 patients did not receive Carvykti due to progressive disease and 17 patients received out-of-specification product; ⁸ for ALLO-715, time from enrollment to start of lymphodepletion. Two patients were not treated due to rapidly progressing disease; for Abecma, time from apheresis to cell product availability (includes 87% of patients who received bridging therapy)

FOR ILLUSTRATIVE PURPOSES ONLY: no head-to-head clinical trial has been conducted. Differences exist between trial designs and subject characteristics, and caution should be exercised when comparing data across studies.



Heme Panel



Alison Moore, Ph.D. The ALLO Manufacturing Difference



Engine for Innovation, Execution and Growth





We've Built a Fully Integrated Operations Technology Organization



Process & Analytical Development

- Deep GMP Process Knowledge
- Characterized Unit Operations

~170 Full-time Operations Technology Staff



Quality & Product Characterization

- Qualified Release Tests
- Internal Unbiased Product Data Analysis



- Qualified Suppliers Across all Input Materials
- Ultracold Inventory and Logistics in Place Nationally and Pending in EU

*Projection for first potential commercial asset at scale



Cell Forge 1: Control of Manufacturing Execution, Schedule & Cost

- Flexible design creates agility for process changes
- In-house Quality Control supports rapid development of complex CAR T methods
- Proximity to Headquarters enables rapid technology exchange and investigation support
- End to end capabilities include PBMC processing, CAR T production, filling, and inventory management





~140k ft² facility with expansion space
LEED Gold certified



Continuous Product Learning Drives Improved Product Performance





Features of the Alloy[™] Process Connect Directly to Product Attributes

The Alloy[™] process is a system of interdependent unit operations which influence the resulting T cell population



Deploying Process Optimization Across Programs

- We have significant manufacturing experience across our programs
- Multiple processes implemented in Phase 1 studies
- Our data analytics captured superior performance of the 'Alloy' process for ALLO-501A



Leveraging our Insights

- Initiating our ALLO-501A
 Phase 2 study with
 Alloy[™] material
- Bringing the Alloy™ process to our CF1 facility
- Continuing learnings and insights for potential optimizations across other products



We've Delivered on a High Bar to Achieve Pivotal Readiness

Achieved Phase 2 Readiness

- Initial Product Characterization
- Method Qualification/Validation
- Drug Product Specifications
- Starting Material Specifications
- Lot Release with Pivotal Specs

Preparing for Potential BLA

- O Product & Process Characterization
- O Process Performance Qualification
- Critical Starting Material and Raw Material Characterization
- O Drug Product and Raw Material Method Validation

Building Strong Working Relationship with Regulatory Agencies



Eric Schmidt, Ph.D. The AlloCAR TTM Product Opportunity



AlloCAR T: Potential to Break the Bottleneck in Cell Therapy

Limited Manufacturing Slots Access Only in Specialty CAR T Centers **Disease Progression During Waiting Interval** Manufacturing Failures Bridging Therapy Higher Cost **Autologous** Single Manufacturing **CAR T** Run **Personalized Therapy**

1 Patient Per Run

Restricted Market Expansion/Growth

Single Manufacturing Run

AlloCAR T Pharmaceutical Product

Consistent Product Immediate Treatment Scalable Manufacturing Potential for Outpatient Use Administration in the Community Setting Ability to Meet Patient Demand

100+ of Patients Per Run

Untapped Market Potential



Ushering in a New Era in Cell Therapy

Transforming a complex procedure...

Autologous CAR T Procedure

3 Weeks to 6+ Months



...into an "off-the-shelf" biopharmaceutical product

AlloCAR T[™] Products





Potential for First- and Best-in-Class Products

Factors Influencing Treatment Decision		ALLO-501A* ALLO-715**		Potential AlloCAR T Product Advantages
	Efficacy	CR: 58% 6-month CR: 50%	ORR: 67% mDoR: 9.2	Deep, durable responses
	Safety	Gr3+ CRS: 0% Gr3+ Neurotox: 6% GvHD: none	Gr3+ CRS: 0% Gr3+ Infections: 35% GvHD: none	Low rates of CAR T-related SAEs
† †† ††††† ††††††	Access	Guaranteed product Available within 2 days	Guaranteed product Available within 5 days	Scalable, off-the-shelf product with rapid time to dosing
:0:	Convenience	Single dose	Single dose	1x dosing with potential for outpatient use

Sources: Allogene Market Research data on file

* ALLO-501A and ALLO-501 Phase 1 data with single dose and FCA90 lymphodepletion, as of October 25, 2022

**ALLO-715 Phase 1 data with single dose and FCA60 lymphodepletion, as of October 11, 2022

AlloCAR T Uniquely Positioned to Deliver Value to Patients





Addressing Large, Growing Markets Receptive to Innovation



NHL Sales*

Multiple Myeloma Sales*





*© 2022 DR/Decision Resources, LLC. All rights reserved. Reproduction, distribution, transmission or publication is prohibited. Reprinted with permission.



AlloCAR T: Potential to Penetrate and Expand the NHL Market



*Internal market research data on file

**© 2022 DR/Decision Resources, LLC. All rights reserved. Reproduction, distribution, transmission or publication is prohibited. Reprinted with permission: Projected 2030 Drug-treated incident patient in G7 major markets. Allogene assumptions on potential CAR T NHL indications in 2030 and average CAR T cost of \$400K/patient.



AlloCAR T: Potential to Penetrate and Expand the Myeloma Market



*Internal market research data on file

**© 2022 DR/Decision Resources, LLC. All rights reserved. Reproduction, distribution, transmission or publication is prohibited. Reprinted with permission: Projected 2030 Drug-treated incident patient in G7 major markets. Allogene assumptions on potential CAR T MM indications in 2030 and average CAR T cost of \$400K/patient...

AlloCAR T Delivers Across Multiple Fronts

Potential Value Proposition: First- and Best-in-Class AlloCAR T Products



Simplifying the Complex

AlloCAR T transforms a complex procedure into **off-the-shelf products**



Scalable manufacturing capabilities with potential to bring CAR T to all eligible patients



Addressing Unmet Need

Potential to provide durable remissions with one-time dosing while addressing unmet need in growing markets





CAR T Treated Patients



*2017-2022 estimated and rounded based on manufacturer-reported sales (w/Q4'22 projected at Q3'22 actual sales rate) and average \$400K/patient assumption; 2025-2030 estimated and rounded based on Decision Resources Group sales and market share projections

^ Decision Resources Group estimated autologous CAR T sales for 2L+ LBCL, 2L+ FL, 3L+ MCL and 3L+ MM in 2025 and 2L+ LBCL, 2L+ FL, 3L+ MCL, and 1L+ MM in 2030



Barbra Sasu, Ph.D. Bringing AlloCAR T to Solid Tumors



Engine for Innovation, Execution and Growth





AlloCAR T: Breaking the Surface Into Solid Tumors



*© 2022 DR/Decision Resources, LLC. All rights reserved. Reproduction, distribution, transmission or publication is prohibited. Reprinted with permission.



Using Targets and Technologies to Advance AlloCAR T to Solid Tumors



miCAR[™] is a trademark of Antion


CD70 is an Attractive Target for RCC and Heme Malignancies

Expression in heme and solid tumors but is also present on normal lymphocytes

Renal cell carcinoma

LBCL





T cell lymphoma





Activated lymphocytes

- Renal cell carcinoma is an IO responsive solid tumor with good T cell infiltration
- CD70 expression is high and homogeneous and observed in ~80% percent of ccRCC¹
- Expression on heme malignancies and additional solid tumors
- Normal tissue expression of CD70 is confined to limited immune cells
 - Subset of dendritic cells
 - Activated lymphocytes (a fraction of total lymphocytes)

1. Ruf et al., *Clin Can Res.* 2015



ALLO-316 Selected to Enhance Potency and Avoid Exhaustion



ALLO-316 epitope drastically enhances potency





Using Anti-CD70 CAR as a Dagger to Eliminate Alloreactive Cells and Enhance Persistence





Ritesh Kotecha, M.D. ALLO-316: The TRAVERSE Trial



ALLO-316: Opportunity to Address Large Unmet Need in RCC

Key Unmet Need in Renal Cell Carcinoma

Large patient population with poor survival outcomes in advanced setting

Lack of therapeutic options and meaningful efficacy in post-ICI/TKI patients

Opportunity to improve clinical outcome by patient selection

Opportunities for ALLO-316

- ~72,000 drug-treated advanced RCC patients*
- 5-year survival ~15%**
- ~15,000 drug-treated 3L+ patients, most expected to have had prior ICI/TKI therapy*
- Tivozanib, the only drug with pivotal data in prior ICI/TKI patients approved for the 3L+ setting, has ORR <20% and mPFS <6mo***
- ~80% of patients are CD70+ ****

Sources: *© 2022 DR/Decision Resources, LLC. All rights reserved. Reproduction, distribution, transmission or publication is prohibited. Reprinted with permission (2030 G7 major market epidemiology), **SEER, ***tivozanib PI, **** Ruf et al., *Clin Can Res.* 2015



TRAVERSE: Moving AlloCAR T™ into Solid Tumors (RCC)

- Key Objectives:
 - Establish safety and tolerability
 - Determine the recommended cell dose
 - Investigate lymphodepletion sparing conditioning
- Endpoints
 - Primary: Safety and Tolerability
 - Secondary: Anti-tumor Activity, PK/PD
- Design: Dose Escalation
 - 3+3 design
 - Test up to 4 cell doses 40M to 240M cells

	DL1	DL2	DL3	DL4*
Cell Dose (CAR+ T cells)	40 x 10 ⁶	80 x 10 ⁶	120 x 10 ⁶	240 x 10 ⁶



Safety and Response Assessment

Conditioning Regimen	FCA	FC	
Fludarabine	30 mg/m²/day x 3 days		
Cyclophosphamide	300 mg/m²/day x 3 days		
ALLO-647	30 mg	-	



*Optional

ALLO-316 TRAVERSE Trial Patient Flow



* One patient withdrew consent prior to treatment; a second patient was recently enrolled and is pending treatment

- Study enrolled patients with clear cell RCC
- Patients must have received a checkpoint inhibitor and a VEGF inhibitor in the advanced and/or metastatic setting
- Seventeen patients have been treated across three cell doses and two lymphodepleting regimens
- Patients were heavily pretreated with a median of 3 prior lines of therapy
- All patients had stage IV disease with metastatic disease in lungs (41%), lymph nodes (12%), bone (12%) and liver (12%) among others



ALLO-316 Safety Profile

	All Patients (N=17)	
TEAE of Interest [†]	All Grs n (%)	Gr 3+ n (%)
Cytokine Release Syndrome	11 (65)	1 (6)
Neurotoxicity [‡]	3 (18)	0
ICANS	0	0
Graft-versus-Host Disease	0	0
	9 (53)	5 (30)
Prolonged Gr3+ Cytopenia	-	3 (18)

- Generally manageable safety profile
 - No GvHD
 - One DLT of liver enzyme elevation in DL2 FCA
 - CRS was all low grade with the exception 1 Gr3
 - Neurotoxicity was low grade and reversible and seen in only 3 (18%) of patients

- 13 (77%) of patients experienced an SAE
- Gr 3+ adverse events (AEs) occurred in 16 (94%) of all patients, predominantly cytopenias

* Number of patients with AE occurring from the start of study drug up to subsequent anti-cancer therapy. For patients reporting more than one AE within a preferred term, only one AE with the maximum grade is reported * Events of NT identified using Neurologic toxicities include preferred terms within broad and narrow scope of Noninfectious encephalopathy/delirium SMQ. * All infections (bacterial, fungal, and viral) included



Preliminary Data Indicate ALLO-316 Made CD70+ Tumors Shrink



* Unconfirmed response

ALLO-316 Response Rates Improved with Higher CD70 Expression

	All Patients (n=17)	CD70+ Patients (n=9)
ORR*, n (%)	3 (18)	3 (33)
DCR, n (%)	14 (82)	9 (100)
PR, n (%)	3 (18)	3 (33)



* Response rates include two confirmed and one unconfirmed responses; median follow-up time of 5.4 months † H-Score is the weighted CD70 expression on a scale of 0-300; H-score = CD70 intensity x % positivity

- 18% overall response rate (ORR) and 82% disease control rate (DCR) across all patients
- Three of nine patients with CD70 expression had >30% reduction in tumor burden
 - Responses include 2 PRs and one unconfirmed PR and correlated with higher CD70 expression as determined by immunohistochemistry (IHC)
- An *in vitro* companion diagnostic (IVD) assay has been developed for use in determining CD70 expression levels
 - TRAVERSE is now deploying the IVD assay for patient selection



Potential for Deepening of Response Over Time



CD70 Positive (N=9)

¹ Growth of non target lesion at month 4 (PD) ² New lesion at month 8 (PD); patient has been retreated and remains on study



ALLO-316 Case Study: Durability with Deepening Response



Partial Response

- 68-year-old man with metastatic RCC to the lungs, refractory to checkpoint blockade, angiogenesis inhibitors
- Treated with FCA and 40M CAR+ cells
- Responded with initial partial response at Month 1 that continued to deepen through Month 6
- Demonstrates potential durability of response with ALLO-316



Case Study: ALLO-316 Can Target Multiple Tumors



Partial Response

- 50-year-old male with metastatic RCC to the lungs, refractory to checkpoint blockade, angiogenesis inhibitors
- Treated with FC and 120M CAR+ cells
- Completed 28-day evaluation window without dose limiting toxicity
- Responded with stable disease at month 1 (28% decrease from baseline) and deepened to an unconfirmed partial response (35% decrease from baseline) at day 56



Case Study: ALLO-316 Can Target Primary Renal Tumors Patient had Stable Disease with 45% decrease in left kidney tumor



Left Kidney - 86.2 mm



Left Kidney – 47.2 mm (-10.8% Δ)

Stable Disease

- 70-year-old male with metastatic RCC to adrenal and bone, refractory to immune checkpoint inhibitors and VEGF-targeted therapy
- Treated with FCA and 80M CAR+ cells



ALLO-316 Robust Cell Expansion & the Unique Dagger™ Effect Leveraging for Next Gen AlloCAR T Platform



- High CAR T expansion was observed in all patients, regardless of conditioning regimen
- Consistent and significant CAR T expansion observed through Day 56; in some patients the CAR T cells persisted up to 120+ days
- Cell dose dependent expansion was not observed within the dose levels tested (40 to 120 x 10⁶ CAR+ cells



Post Infusion Tumor Biopsy: Presence of CAR T Cells in Excess of Whole Blood in Responding Tumor



Vector copy number* in lung metastasis



CD70 staining in tumor biopsy at 10 days post infusion

*Sample taken at day 10 post ALLO-316



Lesions in lungs continued to decrease through month 8



ALLO-316 Summary

- TRAVERSE demonstrates feasibility of using allogeneic CAR Ts to treat solid tumors
- ALLO-316 has shown manageable adverse events
- Anti-tumor activity observed in CD70 expressing RCC with three of nine patients responding to ALLO-316
 - Responses correlated with higher CD70 expression
- In vitro diagnostic (IVD) screening now being deployed to select patients with CD70 expression
- Robust ALLO-316 cell expansion at all cell doses illustrates a potential dagger effect
- TRAVERSE continues to explore cell dose and lymphodepletion regimen in CD70 positive RCC patients





David Chang, M.D., Ph.D. Moderator



AlloCAR T for RCC

Arie Belldegrun, M.D.

Executive Chairman and Co-Founder of Allogene

Director & Founder, UCLA Institute of Urologic Oncology; Prof of Urology, Research; Chief, Division of Urologic Oncology, Emeritus Malcolm K. Brenner, M.D., Ph.D. Founding Director, Center for Cell and Gene Therapy, (Baylor College of Medicine, Texas Children's Hospital and



Ritesh Kotecha, M.D.

Assistant Attending Physician Memorial Sloan Kettering Cancer Center



Robert J. Motzer, M.D.

Section Head, Kidney Cancer, Genitourinary Oncology Service; Jack and Dorothy Byrne Chair in Clinical Oncology (Memorial Sloan Kettering Cancer Center)

Houston Methodist Hospital)





Treatment Options are Limited for 2/3L+ RCC Patients

	Tivozanib [#] Phase 3	cabozantinib* Phase 3	Nivolumab⁺ Phase 3	lenvatinib + everolimus** Phase 2
	N=175	N=330	N=410	N=51
Line of therapy	3L+	2L+	2L+	2L+
Patient Population	Failed 2-3 systemic treatments (26% prior CPI/VEGFI)	≥1 prior anti-angiogenic therapy (<10% prior CPI)	1-2 prior anti-angiogenic therapies; No prior CPI	Prior anti-angiogenic therapy; No prior CPI
mPFS	5.6mo (HR 0.73)	7.4mo	4.6mo	14.6mo
ORR	18%	17%	21.5%	37%
DCR	73%	Not reported	Not reported	Not reported
Gr3+ Most Frequent AE Summary	Hypertension: 24% Fatigue: 13%	Hypertension: 16% Diarrhea: 11% Fatigue: 9% PPE: 8%	Fatigue: 6% Back pain: 3% Diarrhea: 2%	Diarrhea: 19% Fatigue: 18% Hypertension:13% Renal failure: 10%

[#]FOTIVDA USPI. Healthcare Professionals. (n.d.). FOTIVDA. Retrieved November 22, 2022, from https://www.fotivdahcp.com. TIVO3

*CABOMETYX USPI. METEOR; mPFS only reported for first 375 randomized patients. Thomas Powles, Robert J Motzer, Bernard Escudier, Sumanta Pal, Christian Kollmannsberger, Joanna Pikiel, Howard Gurney, Sun Young Rha, Se Hoon Park, Poul F Geertsen, Marine Gross-Goupil, Enrique Grande, Cristina Suarez, David W Markby, Alan Arroyo, Mark Dean, Toni K Choueiri, Daniel George; Outcomes based on prior therapy in the phase 3 METEOR trial of cabozantinib versus everolimus in advanced renal cell carcinoma, https://pubmed.ncbi.nlm.nih.gov/30197417/

⁺OPDIVO USPI. Checkmate-025. Motzer, R. J., Escudier, B., McDermott, D. F., George, S., Hammers, H. J., Srinivas, S., Tykodi, S. S., Sosman, J. A., Procopio, G., Plimack, E. R., Castellano, D., Choueiri, T. K., Gurney, H., Donskov, F., Bono, P., Wagstaff, J., Gauler, T. C., Ueda, T., Tomita, Y., & Schutz, F. A. (2015). Nivolumab versus Everolimus in Advanced Renal-Cell Carcinoma. New England Journal of Medicine, 373(19), 1803–1813. <u>https://doi.org/10.1056/nejmoa1510665</u>.

**LENVIMA USPI. Study 205

^Includes 1 unconfirmed response

FOR ILLUSTRATIVE PURPOSES ONLY: no head-to-head clinical trial has been conducted. Differences exist between trial designs and subject characteristics, and caution should be exercised when comparing data across studies.



Key Questions for ALLO-316 in Solid Tumors

- ☑ Can ALLO-316 be safely administered?
- Can CAR T cells infiltrate and expand in solid tumors?
- ☑ Can ALLO-316 induce objective responses in 3L RCC?
- □ What is the optimized ALLO-316 dose and lymphodepletion regimen?
- □ Can IVD screening select for RCC patients with highest likelihood of response?
- □ Is there synergy between ALLO-316 and checkpoint inhibition?
- Can ALLO-316 be directed at other CD70 expressing solid tumors and hematological cancers?



RCC Panel



David Chang, M.D., Ph.D. Allogene: Executing on Our Vision



Realizing the Potential of Allogeneic CAR T through Innovation and Execution

\$11B¹ in Projected 2030 Sales Estimates CAR T Use in Only a Fraction of Eligible NHL and MM Patients



Best & First-in-Class Profile

ALLO-501A

- First potentially pivotal Ph2 trial
- 67% ORR and 58% CR rate with single dose and FCA90 lymphodepletion
- Durability moves the field beyond proofof-concept and validates Allogene's platform



BCMA

ALLO-715

- First & only allogeneic CAR T trial to demonstrate potential in MM
- Expansion cohorts deliver response rates that support advancement
- Regulatory discussions planned for potentially pivotal Phase 2 trial



CD19 Data Cutoff Date: October 25, 2022; ALLO-715 Data Cutoff Date: October 11, 2022, ALLO-316 Data Extract: November 7, 2022

CD70 Leveling Up to Solid Tumor
ALLO-316
Demonstrates feasibility of an allogeneic CAR T directed at CD70 to treat RCC
Induced Anti-Tumor Activity in Patients with CD70 Expressing RCC with

Deepening Responses Over Time





¹Decision Resources Group estimated autologous CAR T sales in 203

Allogene: The Next Revolution in Cell Therapy



From Vision to Vial











Leading the Revolution from CAR T <u>Therapies</u> to CAR T <u>Products</u>

Allogene's products utilize Cellectis technologies. ALLO-501 and ALLO-501A are anti-CD19 AlloCAR T[™] products being jointly developed under a collaboration agreement between Servier and Allogene based on an exclusive license granted by Cellectis to Servier. Servier grants to Allogene exclusive rights to ALLO-501 and ALLO-501A in the U.S. The BCMA, CD70, FLT3, DLL3 and Claudin 18.2 AlloCAR T programs, which utilize Cellectis technology, are licensed exclusively from Cellectis by Allogene and Allogene holds global development and commercial rights to these AlloCAR T programs