



ASH 2022

Pre-Conference Synopsis on CAR-T & TCE Space

EVALUESERVE

Program Overview on CAR-T & Cell Engagers at ASH'22



ASH 2022 by Numbers

5200+

Total Abstracts

280+

CART Abstracts

40+

TCE Abstracts

9

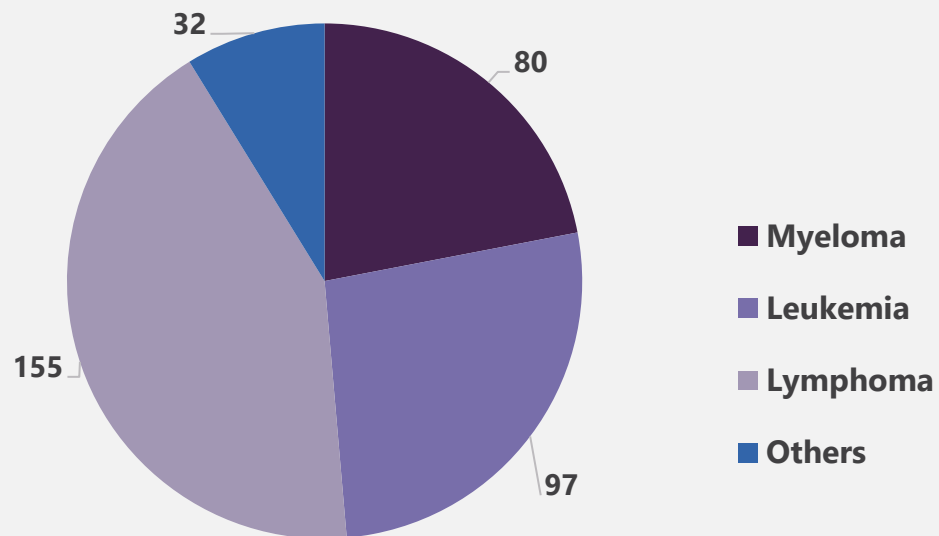
Satellite Symposia & Scientific Programs and Workshops

240+

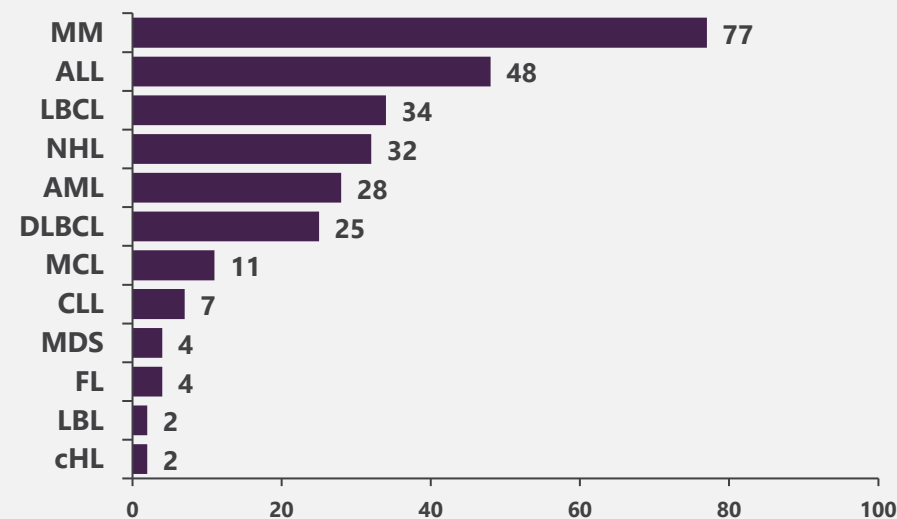
Posters



Session View by Heme Malignancies



Session View By Indications



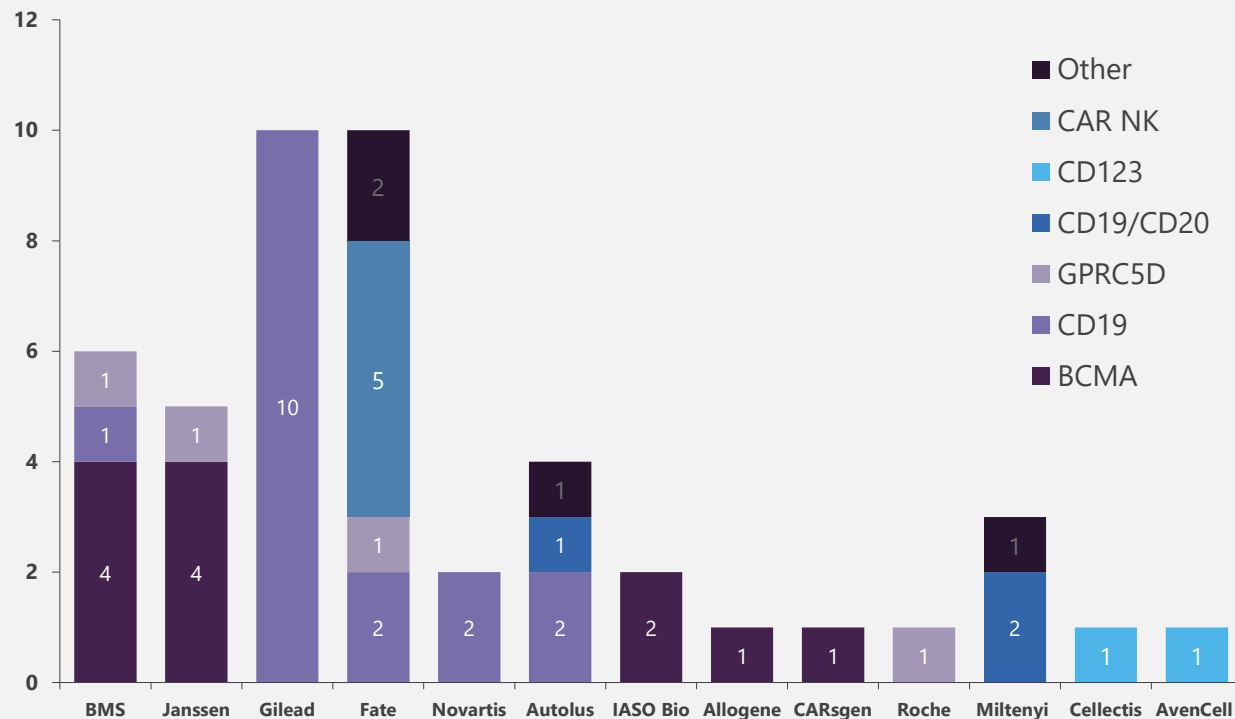
Lymphoma-focused CART/TCE sessions are expected to witness maximum presence (~42%) this year, followed by Leukemia (~27%) and Myeloma (~22%)

Note: Others include abstracts focusing on broader hematologic malignancies

Program Overview on CAR-T & Cell Engagers at ASH'22



Share of Voice (SoV) by Key Players



Gilead & Fate Therapeutics are the prominent players grabbing highest SOV on data presentations within CAR-T & TCE segment

Note: Analysis has been done based on the CART/TCE prominent sessions backed by the key pharma companies. Others include all the other CART target such CD38, CD3, ILT3, CD22



Topics of Discussion at Speaker Sessions

Poster and oral sessions have maximum traction. Presentations in the **Scientific Workshops** in ASH 2022 focused on CAR-T therapies

- Key focus areas include **evident and emerging toxicities associated with CAR-T therapies** including cytokine release syndrome, Immune effector cell-associated neurotoxicity syndrome, cytopenia etc.

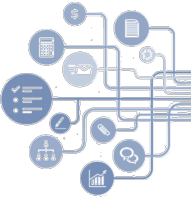
Spotlight Sessions consists of several institute-sponsored sessions

- Major emphasis is anticipated to be on **BiTEs, Immune checkpoint molecules, macrophage checkpoint molecules** and CARTs in AML, MDS and myeloid malignancies

At the ASH 2022, **Special Interest sessions** are institute sponsored and focused also on CAR-T therapies

- Likely presentations and discussions on **CD19+ CAR-T** therapy, current treatment landscape of **BCMA CAR-Ts, CAR-T cells with a 4-1BB** costimulatory domain

What to Expect from CAR-T & TCE segment at ASH'22 ?



Validation of the approved therapies

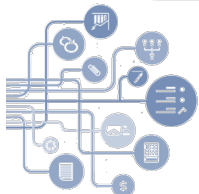
- Data from in-market BCMA/CD19 therapies are gaining maximum traction this year
- Long-term data from Gilead's Yescarta and Tecartus, a CD19 targeting CART for MCL, LBCL, and MCL is grabbing attention
- BMS will be presenting data from heme portfolio including alnuctamab, BCMA x CD3 TCE, Abecma, BCMA CART and BMS-98639, GPRC5D CART
- Separately, new scoring system developed to predict hematotoxicity in patients on CAR-T, likely to inform better Tx decision making

Novel MOA catering unmet need in MM

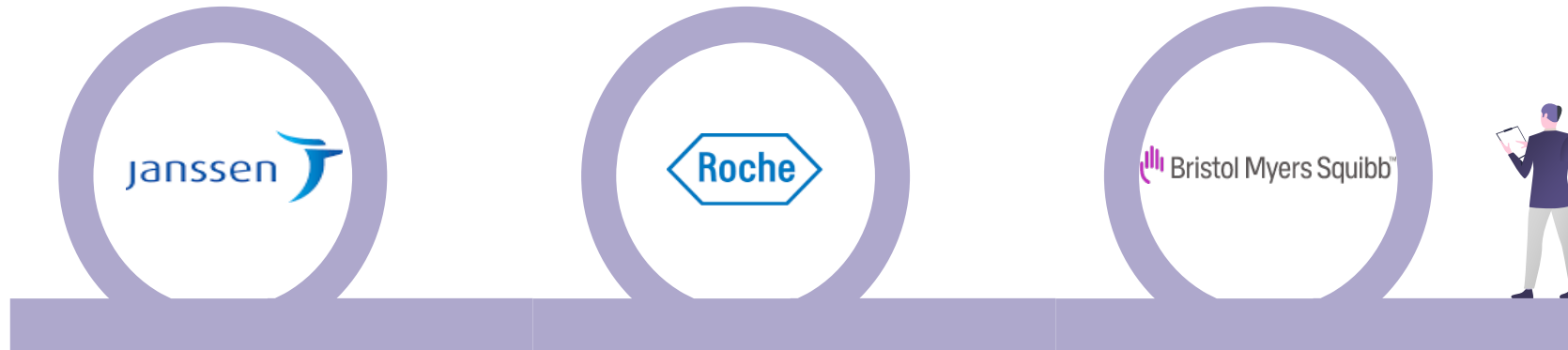
- BCMA targeted CAR-T therapies have revolutionized the MM treatment. However, frequent relapses are the major hurdles, driving the need for additional multi-antigen targeting and off-the-shelf available therapy.
- GPRC5D expected to emerge as a new therapeutic target for MM
- Will be interesting to observe, how latest data from BMS' BMS-986393, Janssen' talquetamab, and Roche' RG6234 will help unlock potential of GPRC5D in MM
 - Signals of clinical activity observed in early data

Need for next generation CAR-T

- CAR-T cell exhaustion is another major challenge faced by autologous therapies
- Updated data awaited from Caribou Biosciences' CB-010, a next gen CRISPR-edited allogeneic CD19 CAR-T, which could improve the persistence of antitumor activity
 - Recently granted RMAT and FTD
- First data presentation from Gracell's GC012F with dual-target mechanism (BCMA X CD19); likely to yield fast, durable and deep responses in 1L MM
 - FasTCAR platform shortens manufacturing time from 1-6 wks to 22-36 hrs



GPRC5D emerges as a promising immunotherapeutic target in MM within mushrooming BCMA space



157: Talquetamab, a GPRC5D x CD3 TCE in pts with RRMM: Phase 1/2 Results from MonumenTAL-1

- **Talquetamab**, a GPRC5D x CD3 TCE; development ongoing in pts with RRMM
- Readout from Ph 1/2 MonumenTAL-1 study to further validate the potential of GPRC5D and build on the existing encouraging efficacy data reported at ASH'21
- With BTD and PRIME designation in hand, talquetamab seems ahead of its competitors such as Roche's RG6234 and BMS's BMS-986393

161: RG6234, a GPRC5D x CD3 TCE in pts with RRMM: Updated IV and First SC Results from a Ph1 Dose-Escalation study

- **RG6234** is a GPRC5D x CD3 TCE
- First results from Ph1 study in pts with R/R MM demonstrated potential utility of the bispecific antibody
- Subcutaneous data replicates the response showed by earlier IV formulation
- SC formulation could yield edge over in-class competitors, given improved compliance over IV

364: BMS-986393 (CC-95266), a GPRC5D CART in pts with RRMM: First Results from a Ph1, Multicenter, Open-Label Study

- **BMS-986393**, a GPRC5D targeted CART
- Promising preliminary data could further fuel the competition with other GPRC5D agents and support GPRC5D-directed CAR T cell therapy as a new treatment paradigm in RRMM

MM treatment with BCMA-targeted modalities induces high response rates, however relapse is common. A pool of MM cells lacking sufficient BCMA surface expression (antigen escape) may be implicated in relapse. Thus, targeting **GPRC5D may be an effective therapeutic strategy for BCMA Tx -refractory or -relapsed MM patients** to address BCMA escape and potentially confer.

Other Spotlight Sessions (1/3)



3354: CARTITUDE-2 Cohort B data of ciltacabtagene autoleucel in pts with MM

- **Ciltacabtagene autoleucel (Carvykti)**, is a BCMA directed genetically modified autologous CAR-T
- Data in early relapsed multiple myeloma pts-maintained efficacy (ORR of 100% in 19/19 pts, and CR/sCR rate of 90%) with longer follow-up (17.8 months)

159: Elranatamab in pts with RMMM naïve to anti-BCMA therapies: Results from Cohort A of the Magnetismm-3 Study

- **Elranatamab** is a BCMA x CD3 bispecific mAb
- Granted BTM based on potentially pivotal data which demonstrated 61.0% ORR with manageable safety (56.3% CRC, 31.7% Gr3/4 infection)
- Data looks promising, however, superior efficacy outcomes of J&J's Tecvayli (teclistamab), an approved agent, may pose competitive threat despite safety concerns (72% CRS, 45% Gr3/4 infection)

336/3314: Results from cohorts 2a and 2c of the Ph2 KarMMa-2 trial evaluating Abecma in high-risk multiple myeloma

- **Idecabtagene vicleucel (Abecma)** is a BCMA directed genetically modified autologous CAR-T
- Data from cohorts 2a and 2c of the Ph2 KarMMa-2 trial of Abecma support a favorable clinical benefit-risk profile in these patient populations

Other Spotlight Sessions (2/3)



366: Phase I Open-Label Single-Arm Study of GC012F, BCMA/CD19 Dual-Targeting CART as First-Line Therapy for Transplant-Eligible ND High-Risk MM

- **GC012F**, BCMA/CD19 Dual-Targeting CART
- **GC012F demonstrated 100% ORR and 100% MRD negativity in the 13 treated pts** with favorable safety profile, further data required in larger pts pool to validate the initial findings
- With **one day manufacturing**, FasTCAR could significantly improve cell production efficiency, resulting in cost saving and faster access

949/444: Odronextamab in pts with R/R FL (Gr 1-3a) and DLBCL: Results from a prespecified analysis of the pivotal Phase II study ELM-2

- **Odronextamab** is a CD20×CD3 bispecific mAb
- First interim data demonstrated compelling efficacy and acceptable safety in both R/R DLBCL and FL.
- With 75% of pts achieving CR by ICR, it could emerge an important treatment option for R/R FL

162: Alnuctamab, a subcutaneous BCMA x CD3 TCE: preliminary results from the dose escalation and expansion R/R MM

- **Alnuctamab**, a BCMA x CD3 TCE
- For heavily pretreated MM pts, ALNUC has demonstrated encouraging activity, however, CRS was a major AEs observed
- Based on promising early efficacy with a low-grade CRS, SC ALNUC comes as alternative to overcome safety issues with IV form

Other Spotlight Sessions (3/3)



4257: CB-010, a next-gen CRISPR-edited allogeneic anti-CD19 CAR-T with a PD-1 knockout in pts with R/R B cell NHL: Results from Ph1 study (ANTLER Study)

- **CB-010** is the **first allogeneic CAR-T with a PD-1 knockout** designed to improve persistence of antitumor activity
- Earlier data showed **100% CR (6/6) best response**, 50% CR (3/6) at 6 month with well tolerated safety, no GvHD or Grade \geq 2 CRS.
- Special designations, **RMAT for LBCL and FTD for R/R B cell NHL**, will expediate product development and market entry

439: YTB323 (Rapcabtagene Autoleucel, a next gen CD19 CART: follow up data from Phase I Study in R/R DLBCL

- Follow up data from Novartis' **YTB323**, a next generation CD19 CART using **T-Charge platform**, will be interesting as the proprietary technology claims greater proliferative potential and fewer exhausted T-cells compared with traditional CART.

2019: Universal Updated Phase 1 Data Highlights Role of Allogeneic Anti-BCMA ALLO-715 Therapy for R/R MM

- Encouraging responses support continued advancement of **ALLO-715** in R/R multiple myeloma.
- Regulatory discussions planned for potentially pivotal Phase 2 trial

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Thank You

