POSTER # 3201

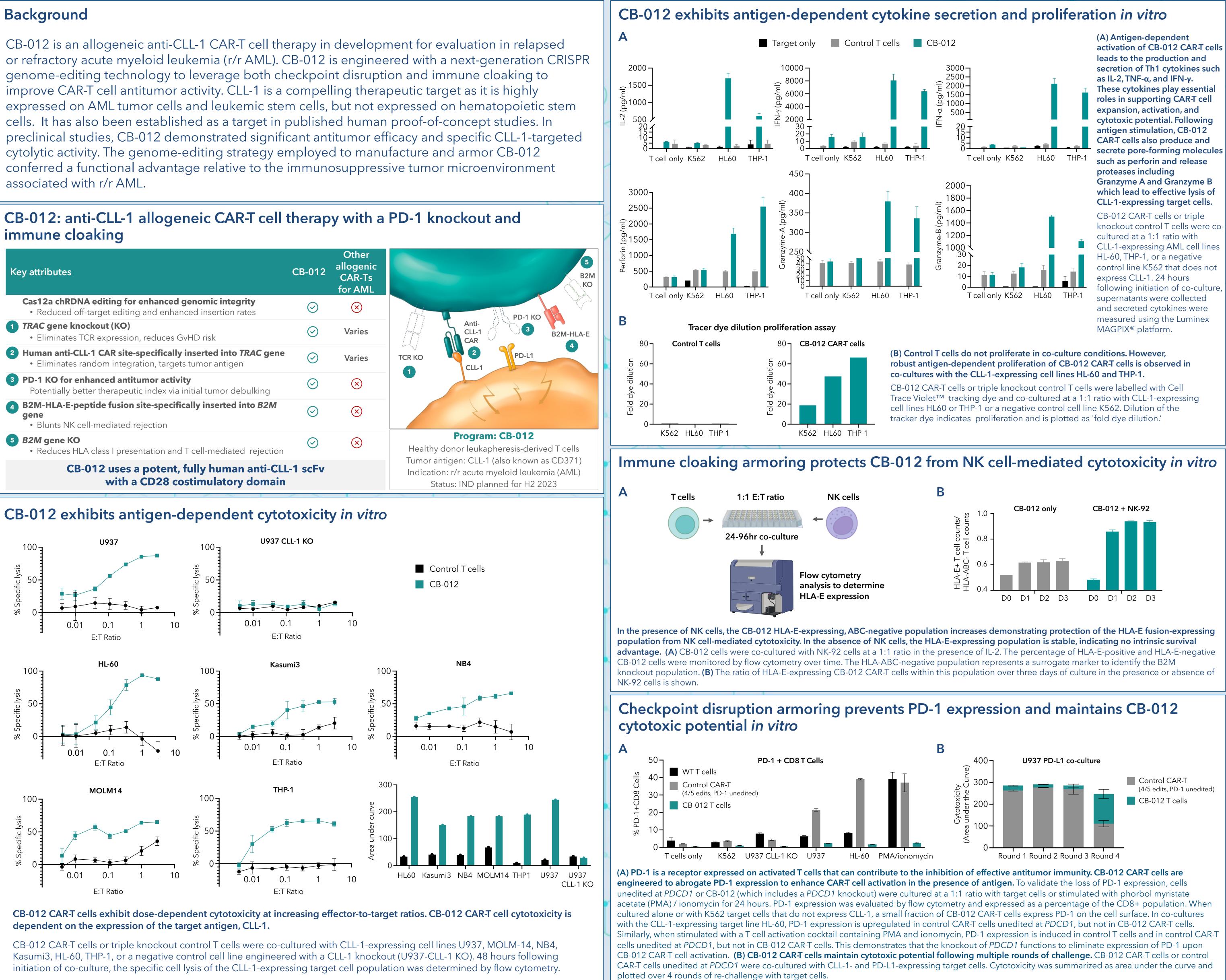
CB-012, an allogeneic anti-CLL-1 CAR-T cell therapy engineered with next-generation CRISPR technology to resist both the immunosup pressive tumor microenvironment and immune cell-mediated rejection, for patients with relapsed or refractory acute myeloid leukemia

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associated with r/r AML

immune cloaking

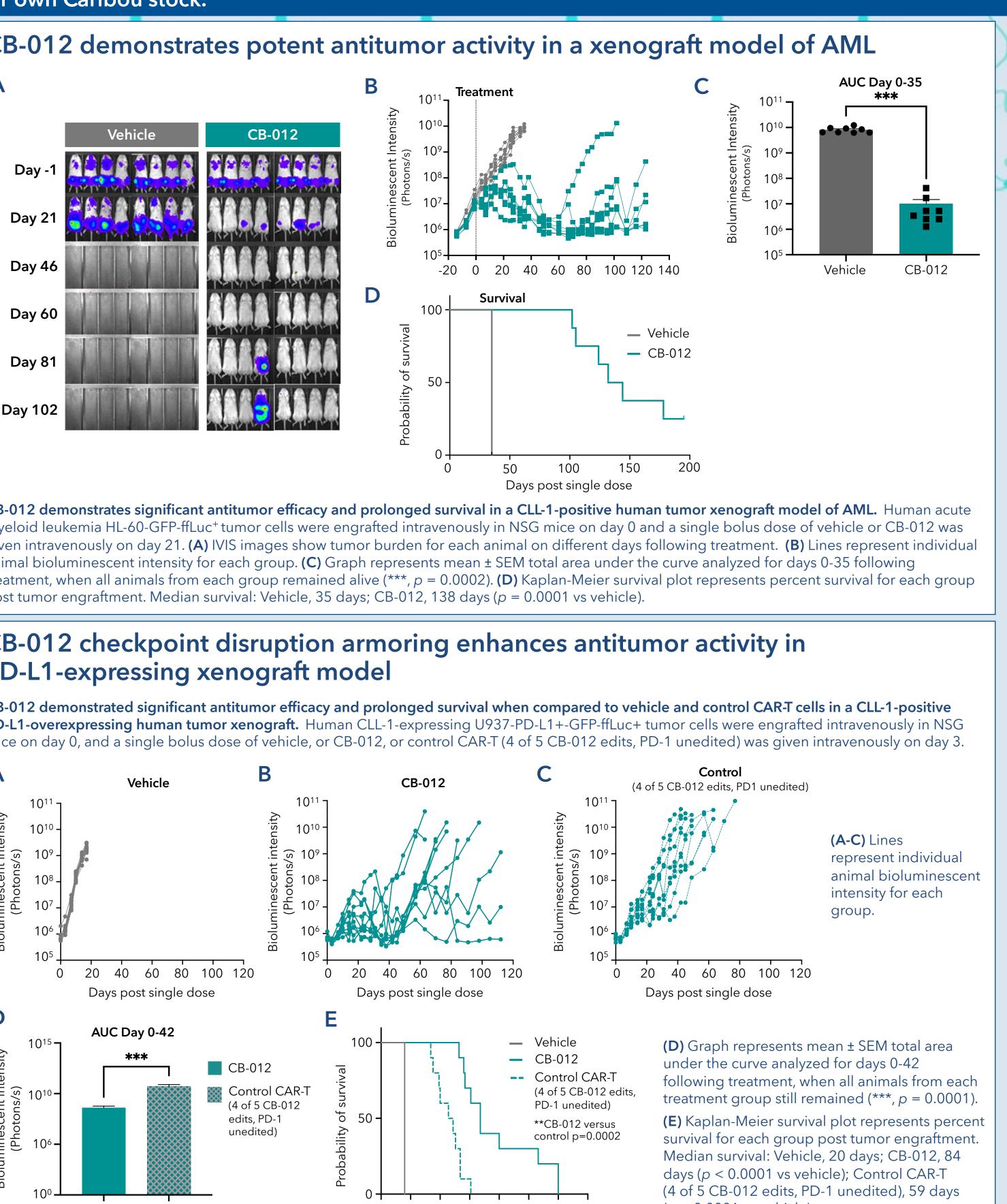
Key attributes	CB-012	Other allogenic CAR-Ts for AML	
Cas12a chRDNA editing for enhanced genomic integrity Reduced off-target editing and enhanced insertion rates 	\oslash	\bigotimes	rt-t-
 TRAC gene knockout (KO) Eliminates TCR expression, reduces GvHD risk 	\bigcirc	Varies	TCR KO
 Human anti-CLL-1 CAR site-specifically inserted into TRAC gene Eliminates random integration, targets tumor antigen 	\bigcirc	Varies	
PD-1 KO for enhanced antitumor activity Potentially better therapeutic index via initial tumor debulking	\odot	\bigotimes	
 B2M-HLA-E-peptide fusion site-specifically inserted into B2M gene Blunts NK cell-mediated rejection 	\bigcirc	\bigotimes	
 B2M gene KO Reduces HLA class I presentation and T cell-mediated rejection 	\oslash	\bigotimes	P Healthy donc
CB-012 uses a potent, fully human anti-CLL with a CD28 costimulatory domain	1 scFv		Tumor antiger Indication: r/r Status:

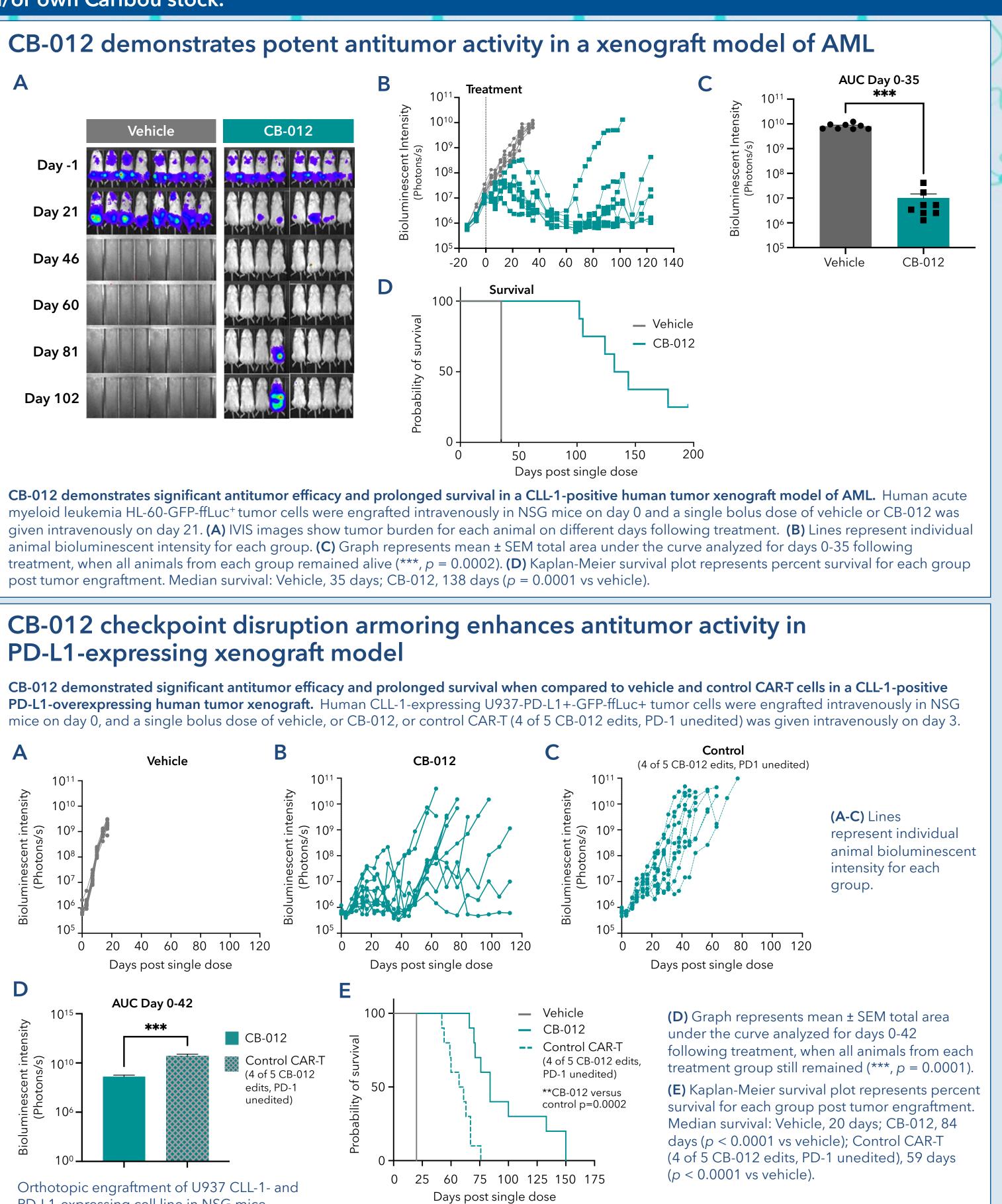


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secrete pore-forming molecules knockout control T cells were co-CLL-1-expressing AML cell lines





PD-L1-expressing cell line in NSG mice

Summary

- off-target editing, and enhanced genomic integrity
- to enhance antitumor activity
- AML xenograft models
- CB-012 IND application submission planned for H2 2023

CB-012 is a next-generation CRISPR-edited allogeneic anti-CLL-1 CAR-T cell therapy in preclinical development for the treatment of adult patients with r/r AML

Cas12a chRDNA genome-editing technology was used to engineer 5 edits in the manufacture of CB-012 and has been shown to provide insertion efficiency, reduced

CB-012 is engineered with immune cloaking and checkpoint disruption strategies designed

CB-012 CAR-T cells demonstrate potent antitumor activity *in vitro* and enhanced survival in

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