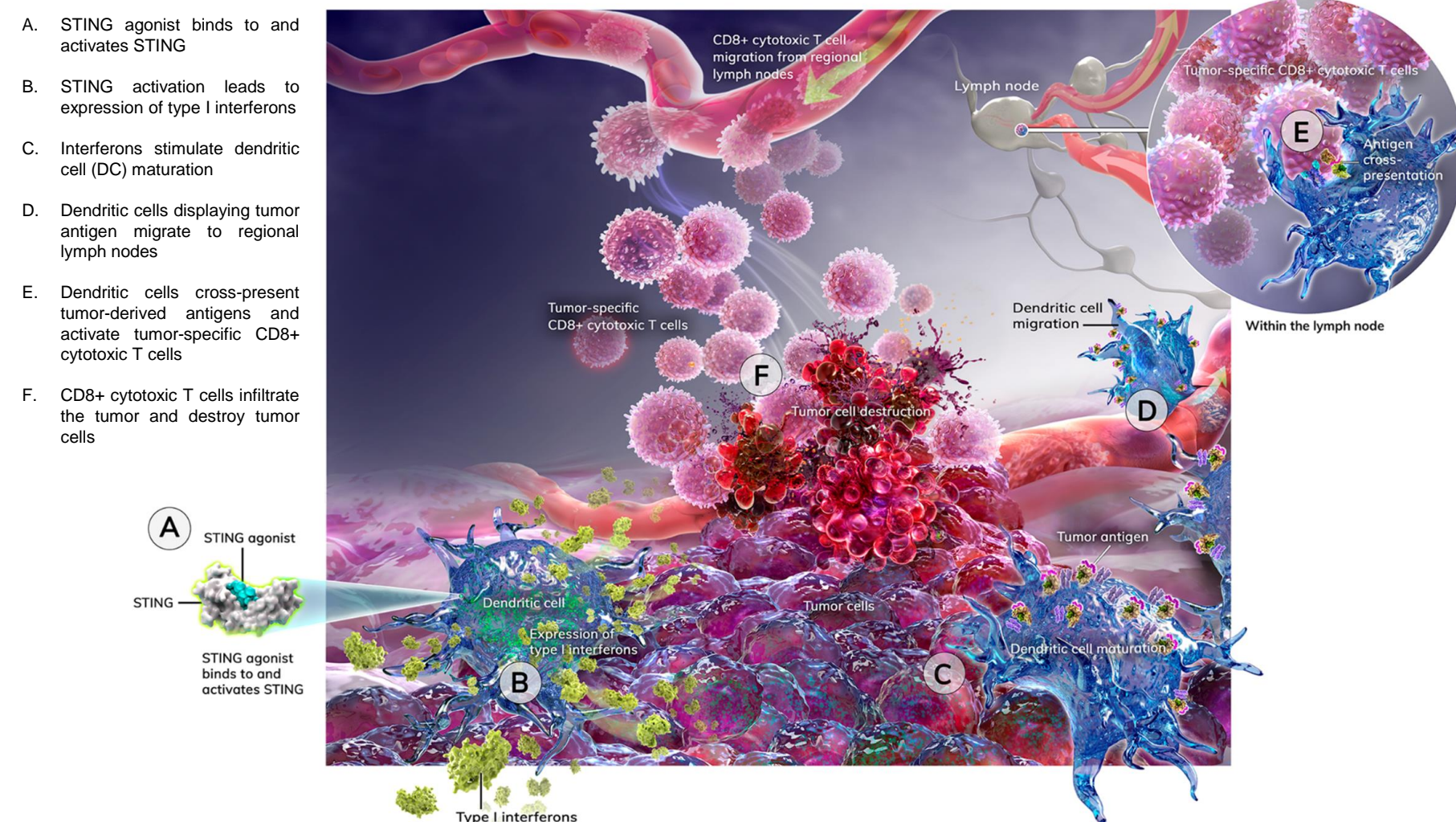
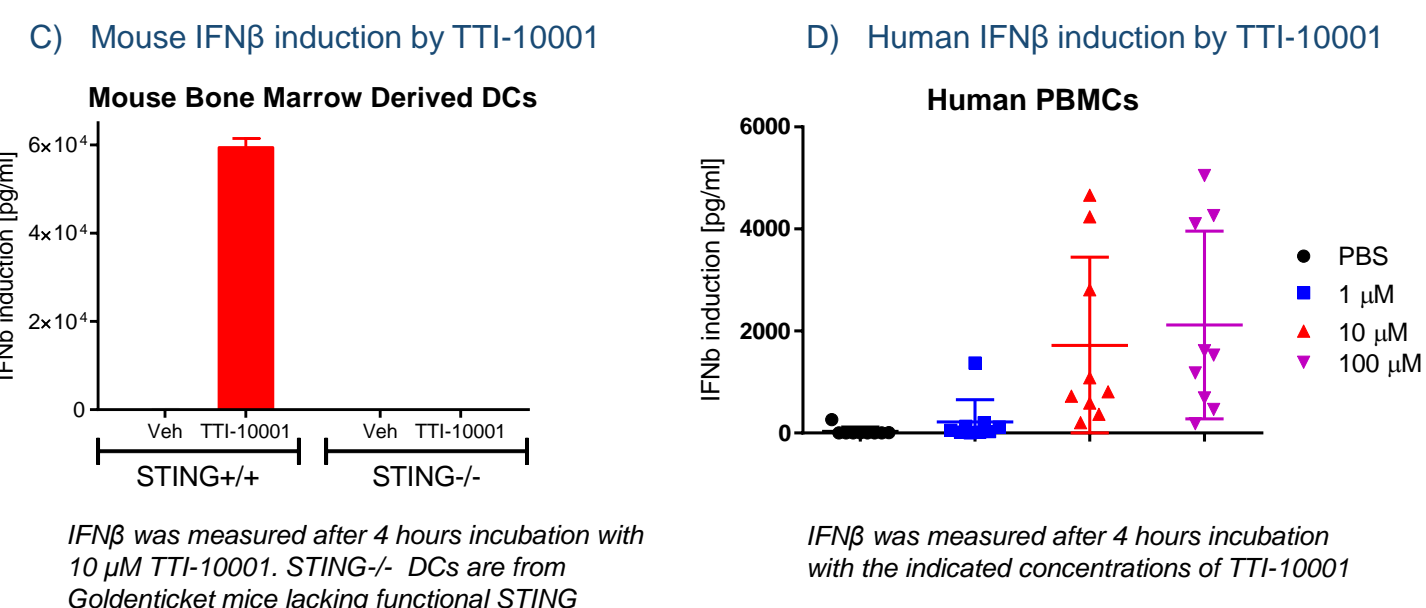
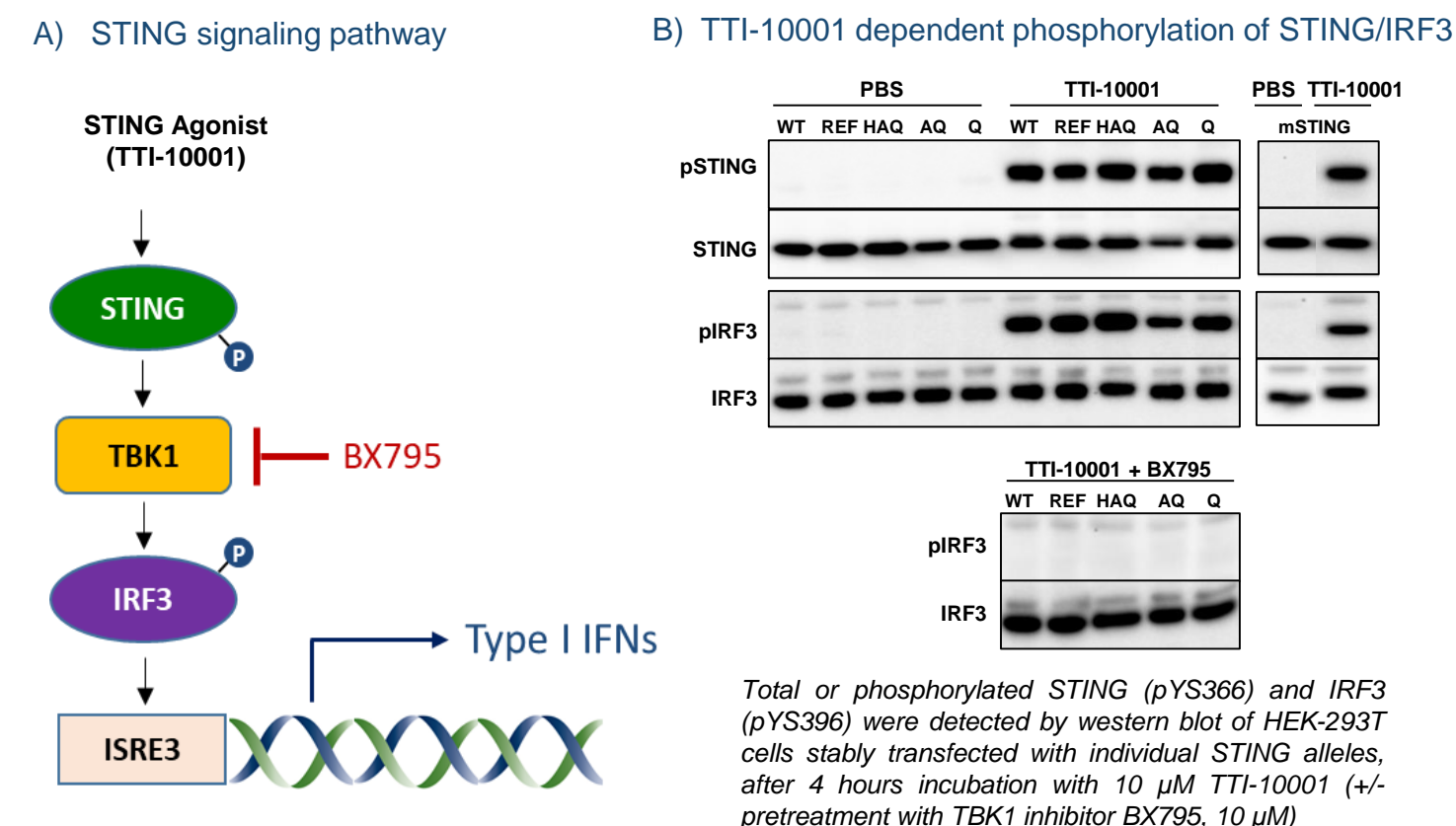


STING Bridges Innate and Adaptive Anti-Tumor Immunity

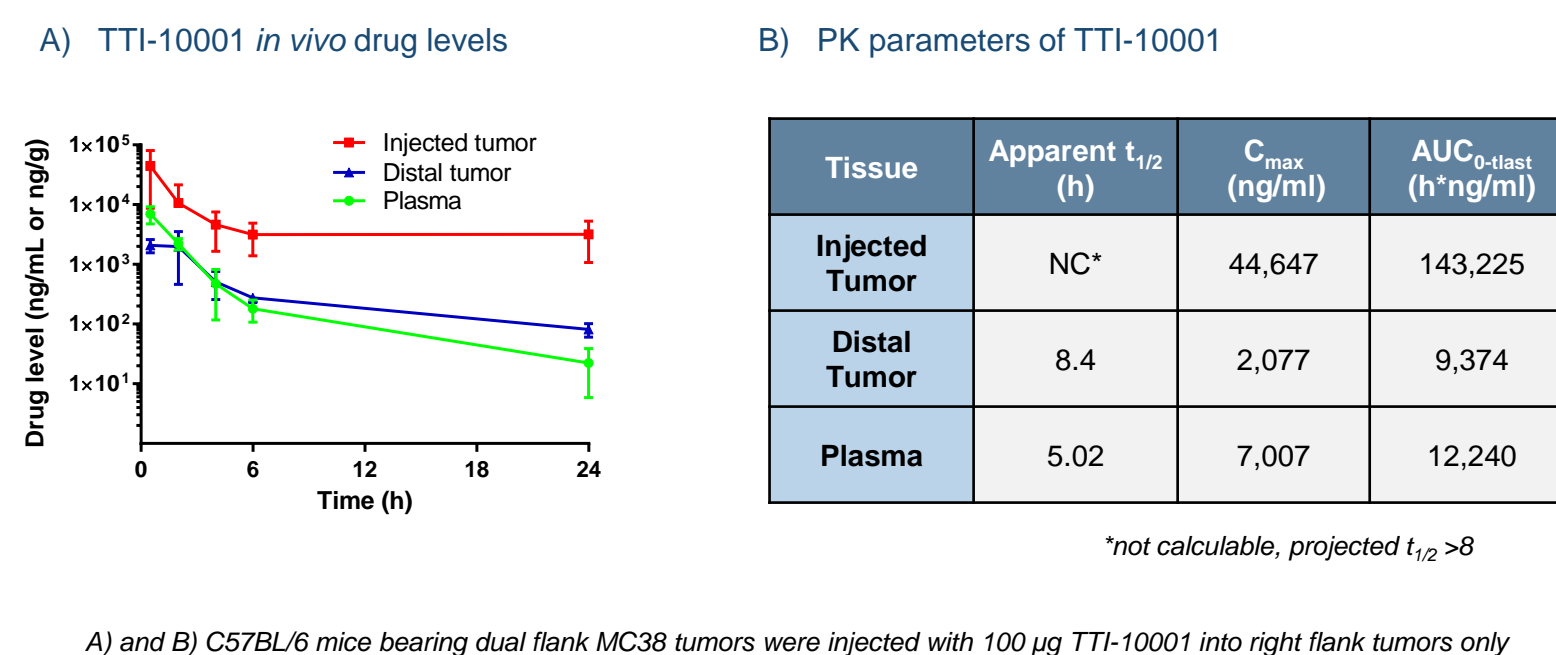


- STING (stimulator of interferon genes) has emerged as an attractive cancer immunotherapy target due to its key role in induction of type I interferons (IFNs) and other pro-inflammatory cytokines that promote tumor-specific antigen cross-presentation and effective T cell priming
- Currently, all known STING agonists in clinical trials are based on cyclic dinucleotide (CDN) scaffolds, however, these high molecular weight synthetic CDNs often display limited potency, cellular permeability, stability, and a short tumor retention time
- In this study we present TTI-10001, a novel non-CDN small molecule STING agonist with favorable drug properties and potent anti-tumor activity in mice

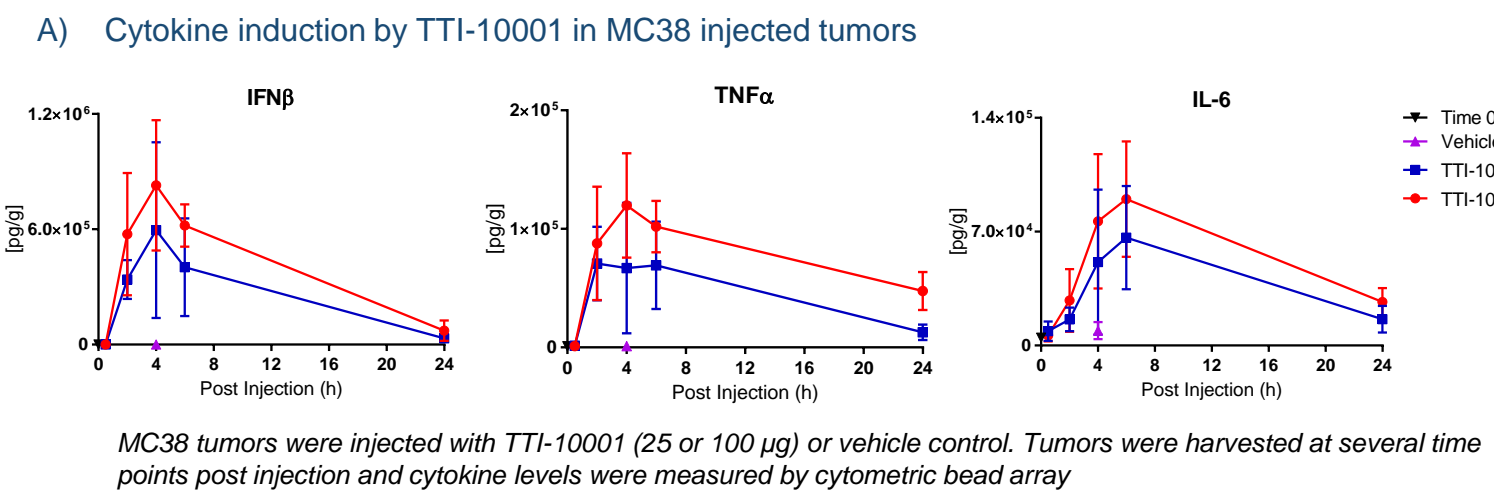
TTI-10001 Activates the STING Signaling Pathway



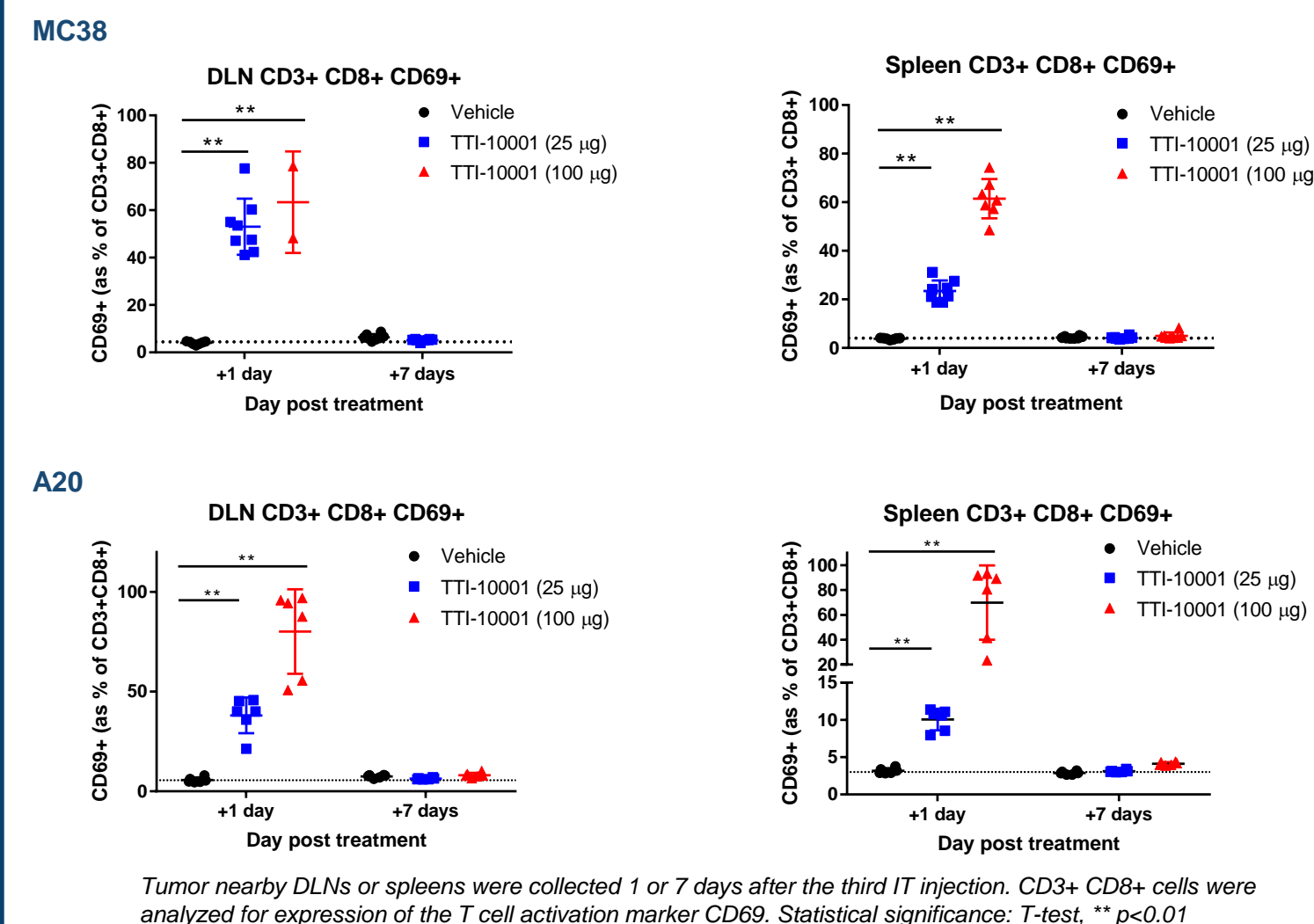
TTI-10001 Achieves High *In Vivo* Exposure and Durable Tumor Retention



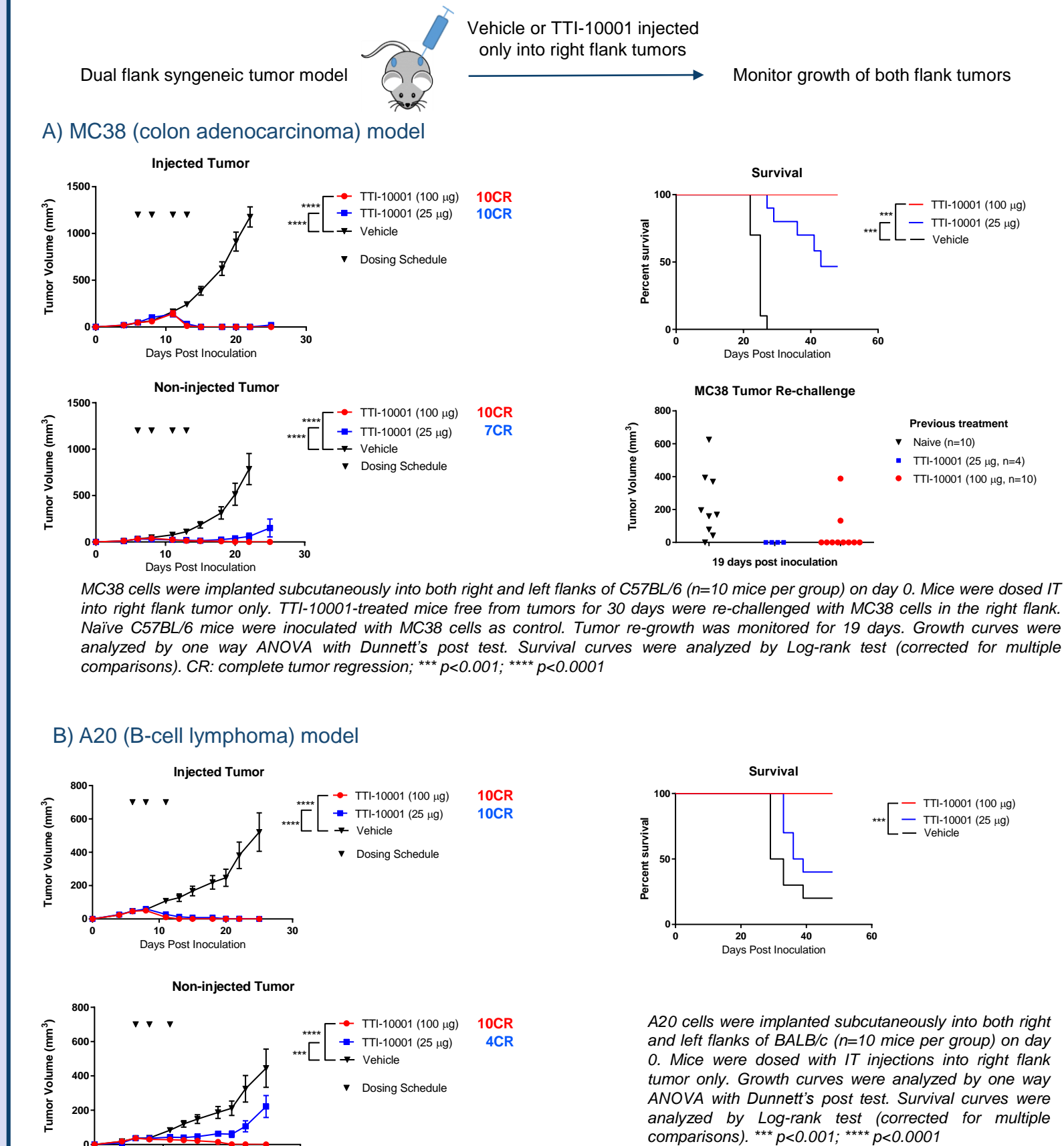
TTI-10001 Induces Pro-inflammatory Cytokine Expression and Promotes T Cell Activation *In Vivo*



B) Activation of CD8+ T cells in tumor draining lymph node (DLN) or spleen



TTI-10001 Induces Tumor Regression in Two Immunocompetent Mouse Models

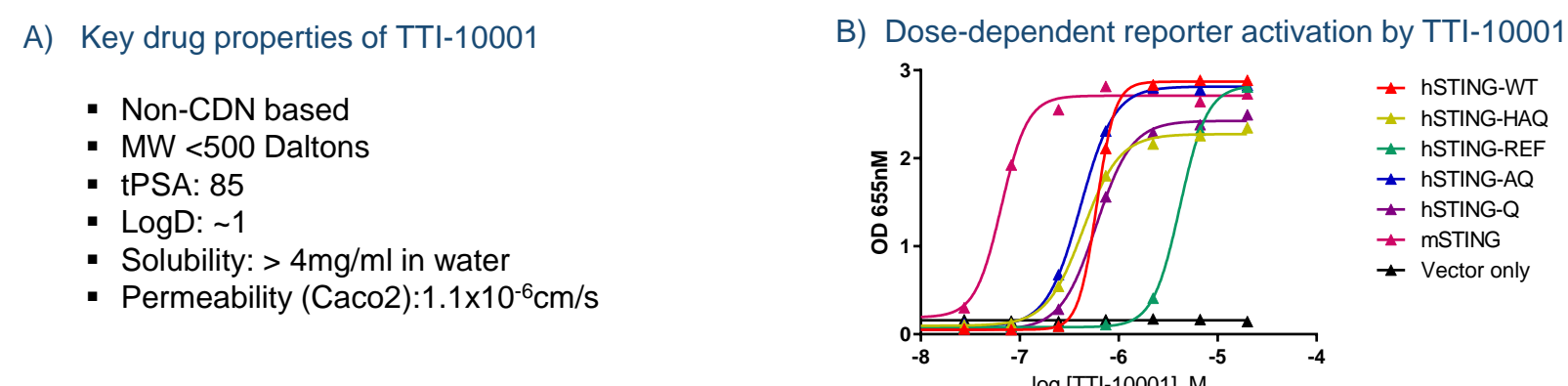


Conclusions

- TTI-10001 is a novel, non-CDN, potent, small molecule pan-STING agonist
- TTI-10001 exhibits favorable potency, cell permeability, and tumor retention properties that could potentially overcome the common limitations of current CDN-derived STING agonists
- TTI-10001 is well tolerated in mice at relevant doses after IT or IV administration
- TTI-10001 induced durable complete regressions in both injected and distal tumors
- These data support further evaluation of TTI-10001 as a potential first-in-class small molecule STING agonist for cancer immunotherapy



TTI-10001 is a Potent, Cell Permeable, Small Molecule Pan-STING Agonist



C) TTI-10001 cellular potency summary

STING Allele	Allele Frequency (Humans)*	EC ₅₀ (μM)
Human STING-WT	57.9%	0.51 ± 0.08
Human STING-HAQ	20.4%	0.57 ± 0.10
Human STING-REF	13.7%	3.96 ± 0.66
Human STING-AQ	5.2%	0.49 ± 0.09
Human STING-Q	1.5%	0.64 ± 0.06
Mouse STING	-	0.12 ± 0.03

B) and C) EC₅₀s are based on reporter activation in HEK-293T stable cell lines transfected with individual human or mouse STING alleles. mSTING: mouse STING; * Y, et al PLoS One (2013)

TTI-10001 Exhibits a Favorable Safety Profile and is Well Tolerated in Mice

