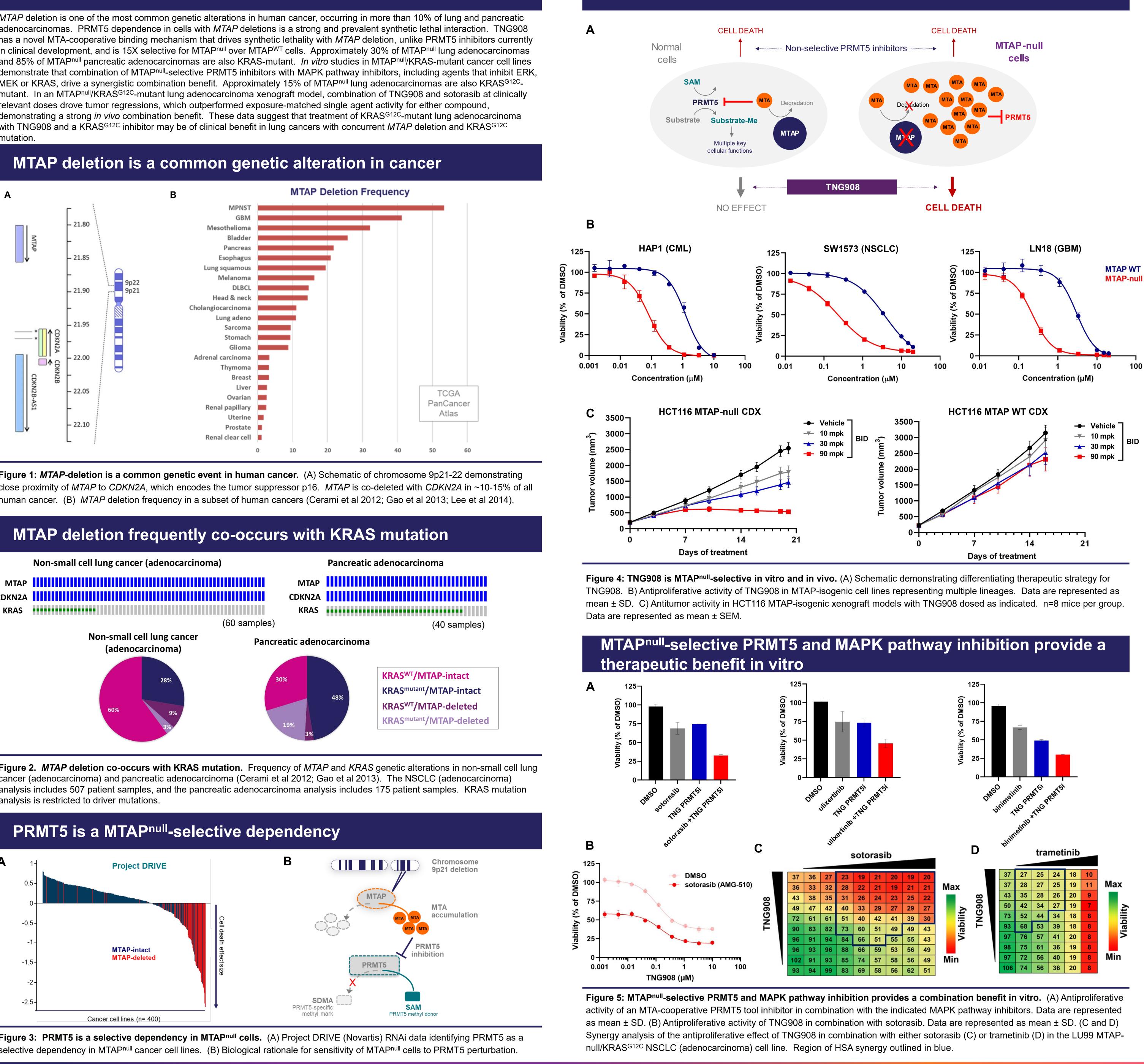
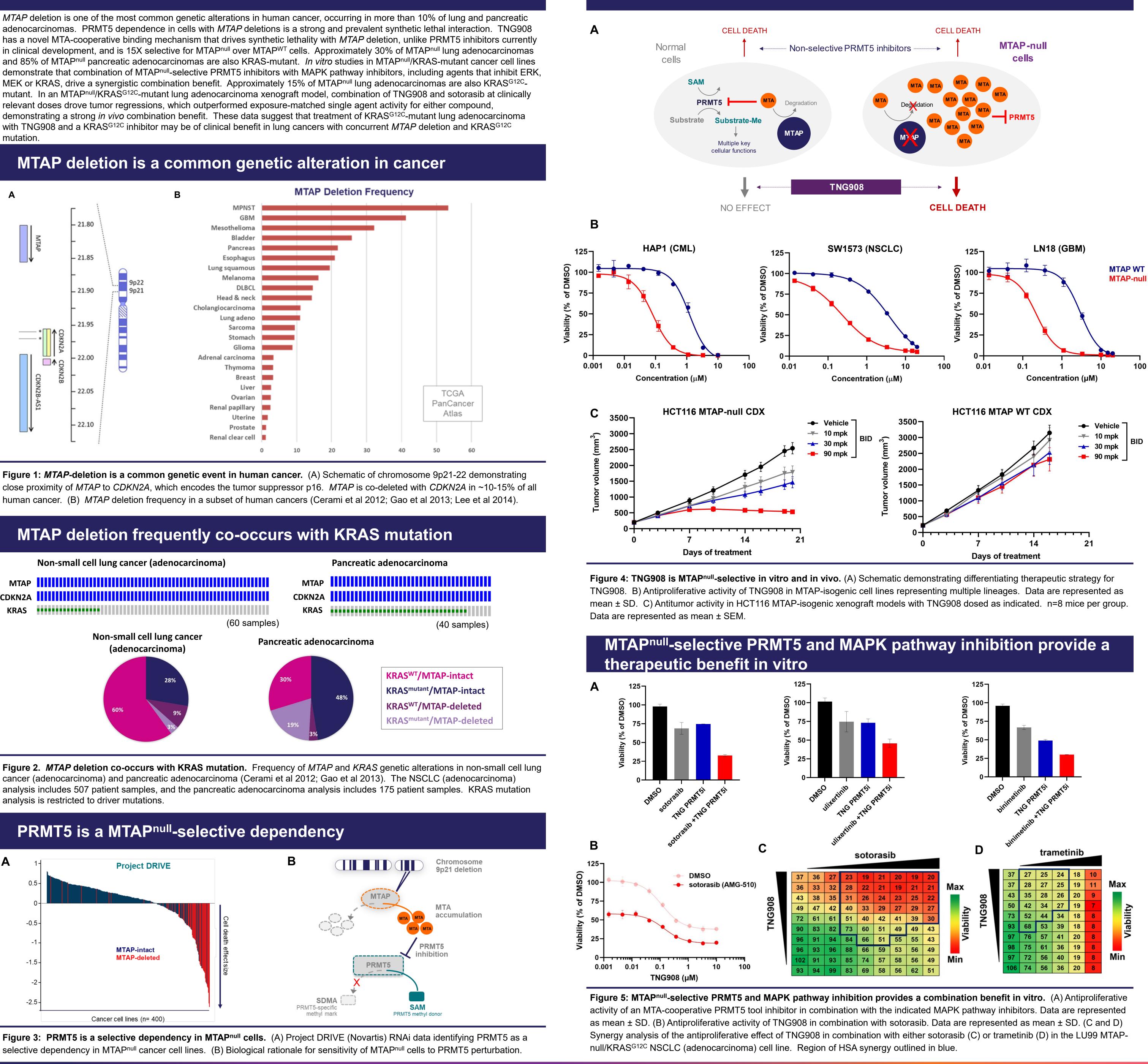
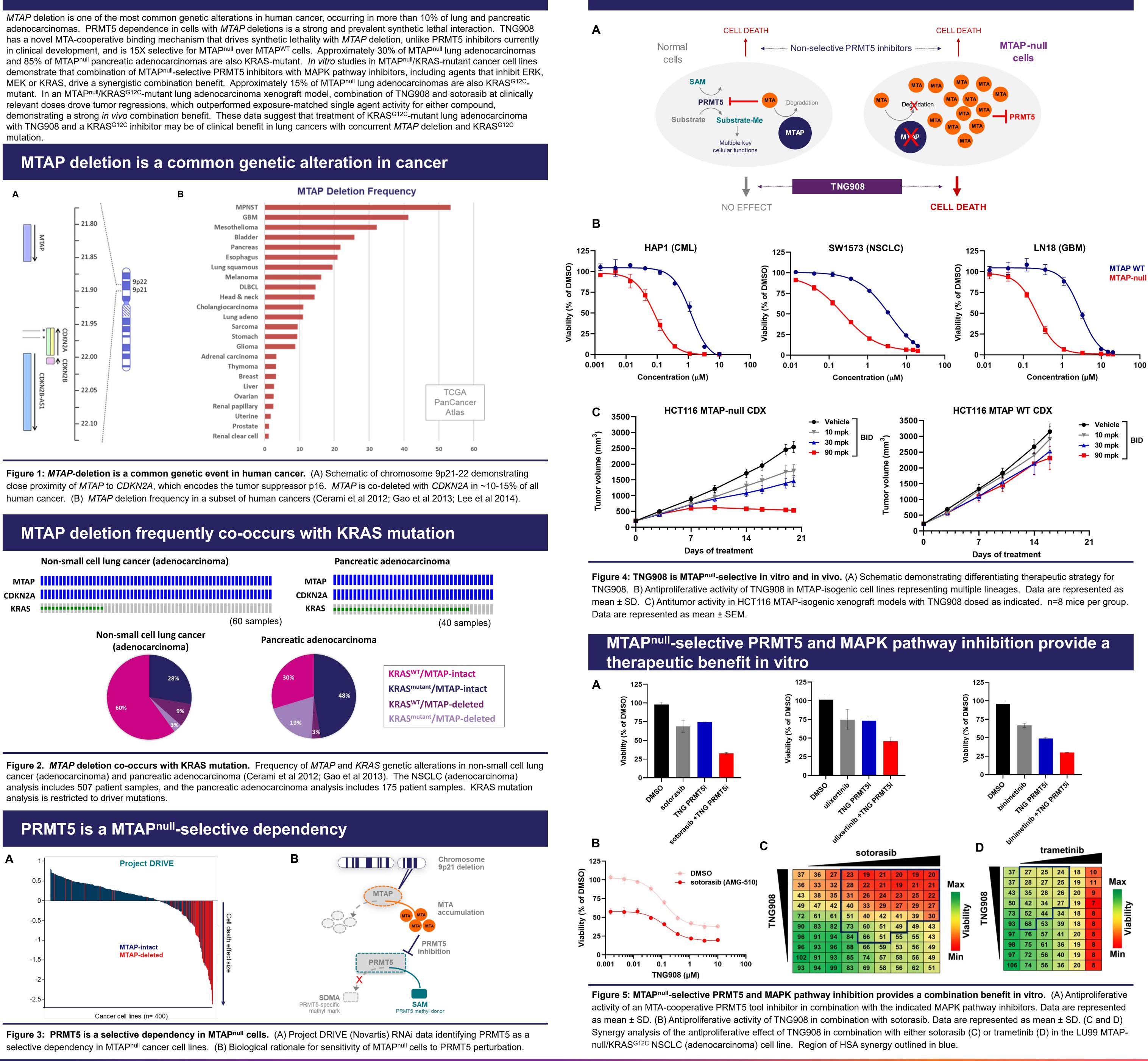


ABSTRACT







Evidence for synergy between TNG908, an MTAP^{null}-selective PRMT5 inhibitor, and sotorasib in an MTAP^{null}/KRAS^{G12C} xenograft model

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TNG908 is an MTAP^{null}-selective PRMT5 inhibitor

Combination benefit is not due to enhanced PRMT5 or MAPK pathway inhibition in vitro 24 hrs treatment 6 hrs treatment pMEK1 **MEK1/2** pERK1/2 pRSK1

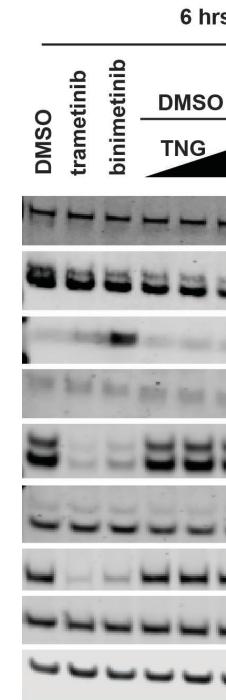


Figure 6: PRMT5 and MAPK pathway inhibition is not enhanced by the combination treatment of an MTAP^{null}-selective PRMT5 inhibitor and MEK inhibitors in the SW1573 cancer cell line. Immunoblot of lysates harvested from the SW1573 MTAPnull/KRAS^{G12C} NSCLC (adenocarcinoma) cell line treated for the indicated timepoints with the indicated inhibitors. TNG, an MTAP^{null}selective PRMT5 inhibitor tool compound.

regression in vivo

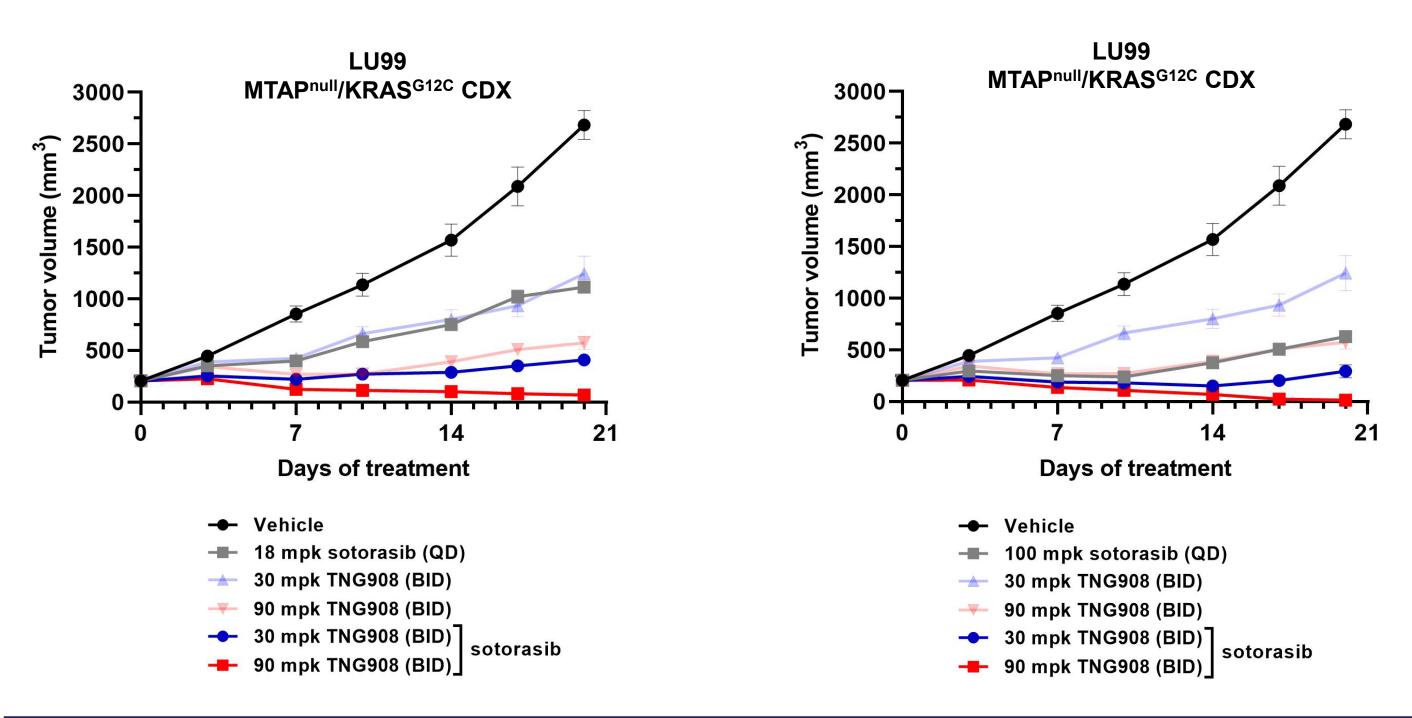


Figure 7: TNG908 and sotorasib combination treatment in an MTAP-null/KRAS^{G12C} NSCLC xenograft model drives tumor regression. The LU99 MTAP-null/KRAS^{G12C} mutant NSCLC xenograft model was treated for 21 days with single agent TNG908 or sotorasib, or a combination of TNG908 and sotorasib. Strong single agent TNG908 activity is driven in the LU99 model at 30-120 mpk BID. Sotorasib doses were chosen to be clinically relevant, and were adjusted in combination with TNG908 to deliver equivalent exposures to single agent. n=8 mice per group, and data are presented as mean ± SEM.

SUMMARY

- pancreatic adenocarcinoma
- doses in an MTAP^{null}/KRAS^{mutant} xenograft model
- **MTAP** deletion and KRAS^{G12C} mutation

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TNG908 and KRAS^{G12C} inhibitor combination treatment drives tumor

• MTA-cooperative PRMT5 inhibitors are selective for MTAP^{null} cells

• TNG908 demonstrates 15X selectivity for MTAP^{null} cells in multiple MTAPisogenic cell lines representing multiple cancer lineages

• KRAS mutation frequently co-occurs with *MTAP* deletion in NSCLC and

• PRMT5 and KRAS inhibition in MTAP^{null}/KRAS^{mutant} cancer cell lines provides a combination benefit in vitro, and drives tumor regression at clinically relevant

• Treatment of KRAS^{G12C}-mutant lung adenocarcinoma with TNG908 and a KRAS^{G12C} inhibitor may be of clinical benefit in lung cancers with concurrent