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Shantao

[STL2MG: What's the EncodeCA results on DHS when comparing cancer/normal cell lines?

Also I am not very sure whether we should fight back on this. If we say DHS region shift only adds second-order effect, then how do we rationalize mutation rate change? Chromatin remodelers participating in DNA repair? Then why particularly high mutation rate in open chromatin region?

I feel we could just step back and agree with the referee. Then it is just a language game: we call DHS as "open chromatin regions in normal state". We will then have a convincing rational on the mechanism and still show the results are still meaningful.]

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The effect of NEAT1 is no	t minor. Patients generally hav	e good prognosis in our
pRCC cohort, thus affects	s the power of our survival ar	nalysis. However, in the
revision, we looked at the	TCGA ccRCC cohort. Althou	gh lacking WGS data to
find genomic alteration, w	e found NEAT1 is overexpres	ssed in about 6% of the
cohort. NEAT1 higher exp	ression is significantly associa	ated with shorter overall
survival time (OS). NEAT1	is tightly co-expressed with M	ALAT1, which is another
noticeable IncRNA in canc	er.	

Additionally, we are a part of the currently ongoing PCAWG study (PanCancer Analysis of Whole Genomes). During revision, we quickly looked at the NEAT1 mutation stats in the PCAWG RCC dataset. 21/144(14.58%) of the samples carry mutations in NEAT1, a frequency agrees with the one from our cohort. Confirmed hypermutation in a larger, high-quality dataset further supports our results. Unfortunately, we are not able to publish results based on PCAWG data at this moment.

In the revised manuscript, we include the new analyses we have done on NEAT1 to support its role in pRCC.