

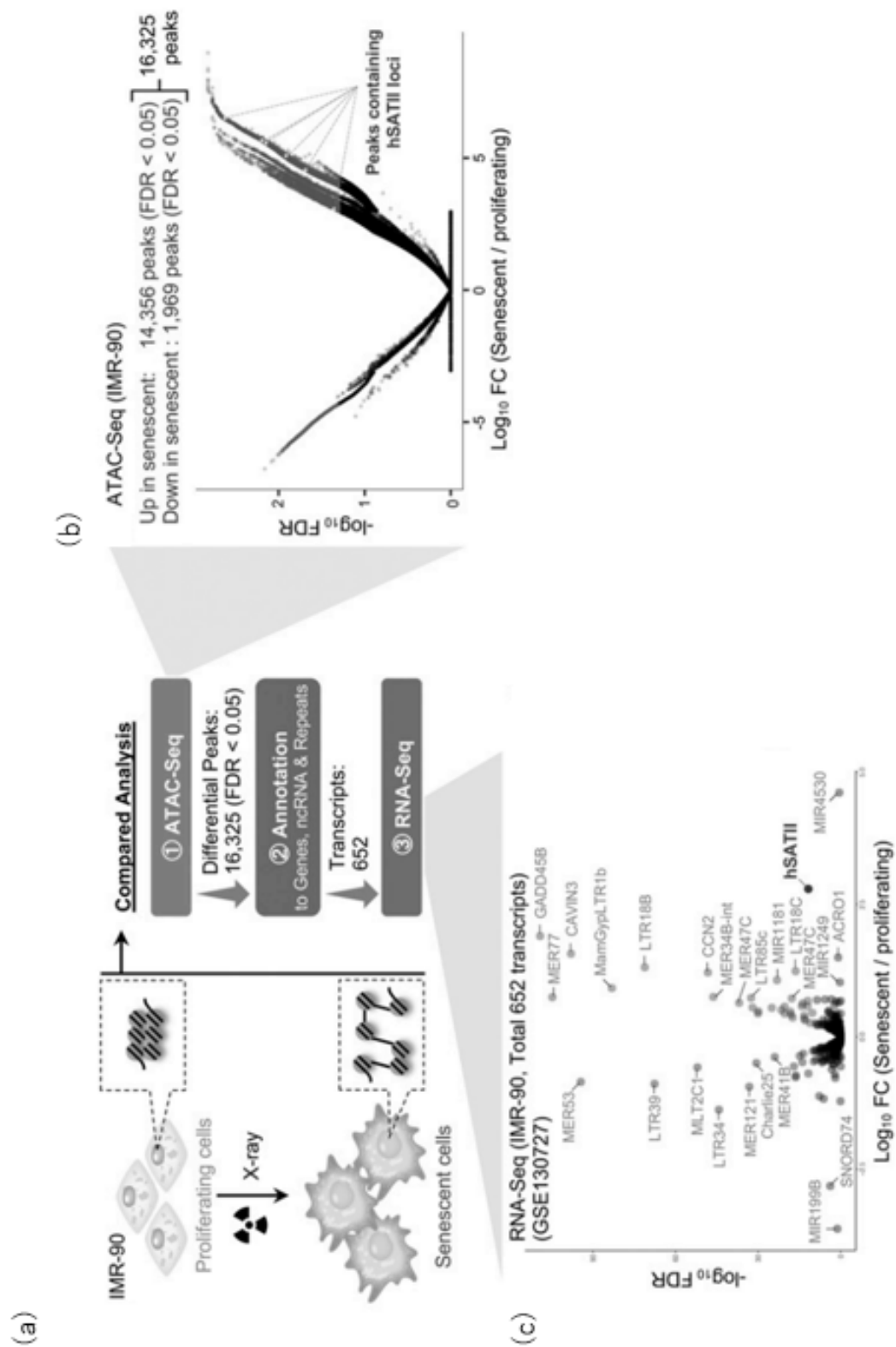


FIG.1A

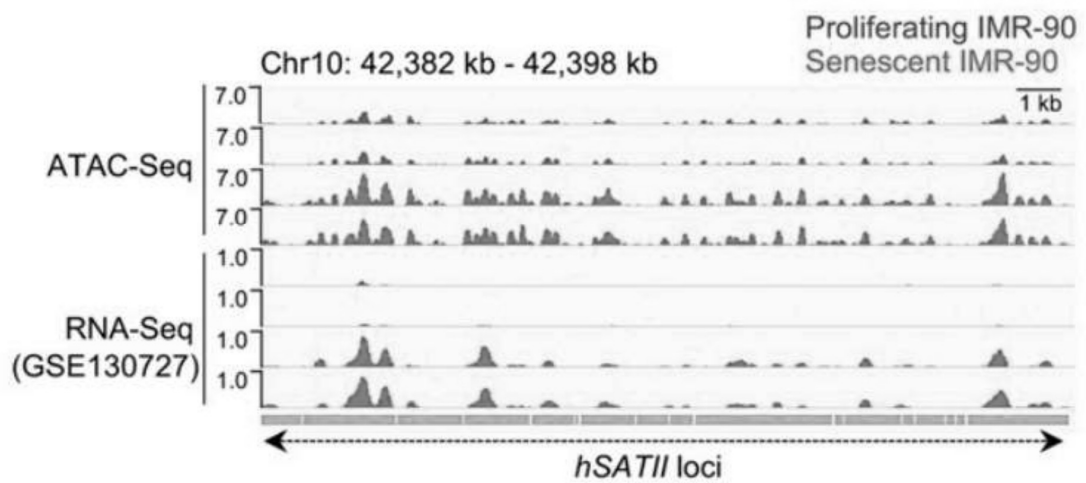


FIG.1B

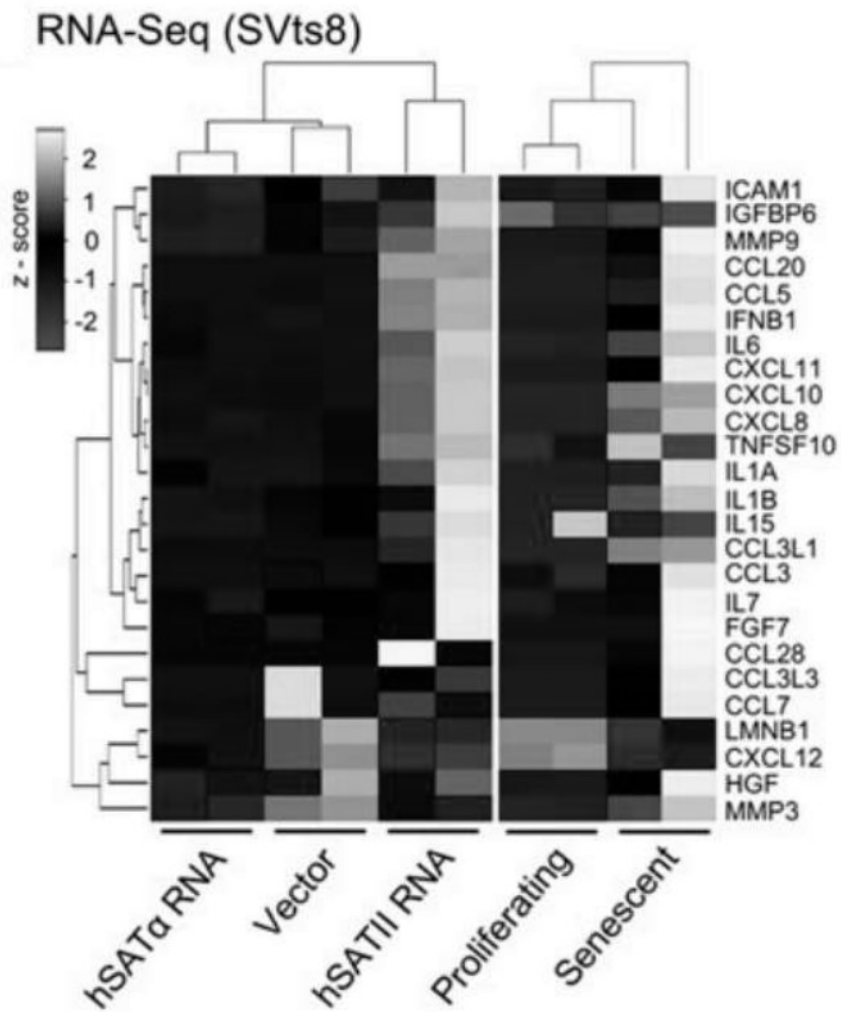


FIG.2A

ATAC-Seq

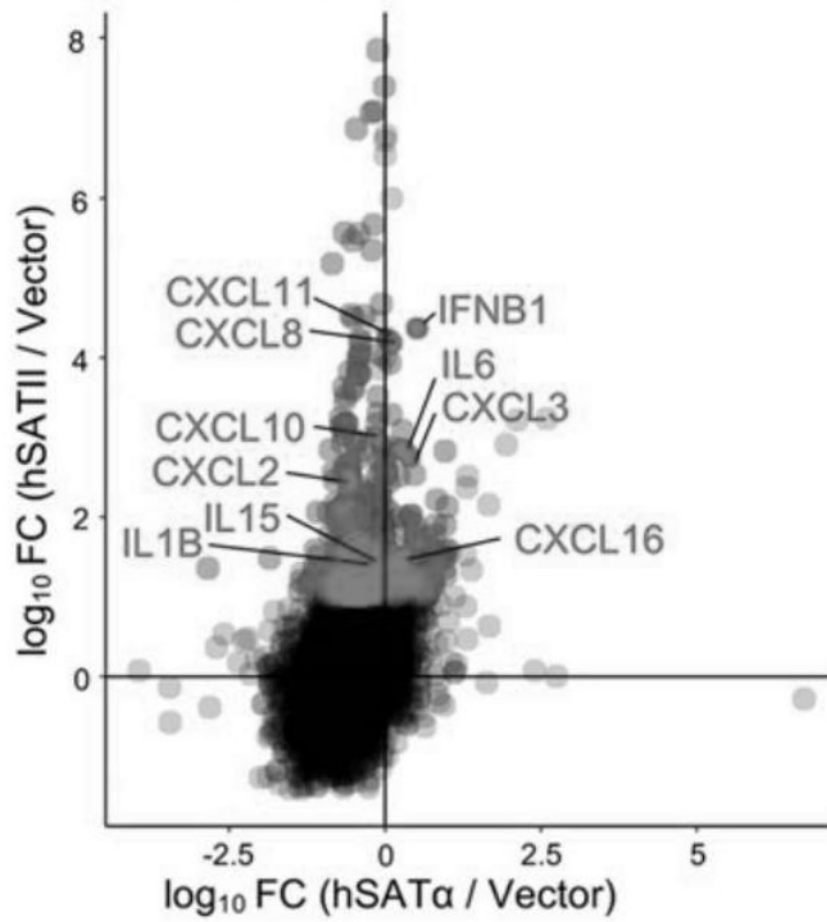


FIG.2B

Gene set enrichment analysis (SVts8)

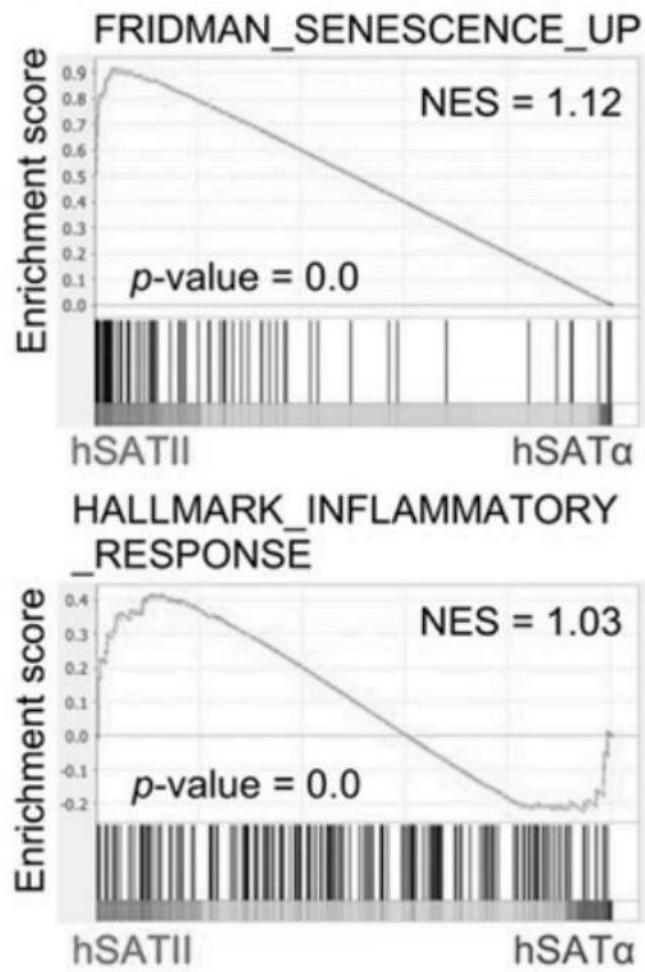


FIG.2C

RT-qPCR (SVts8)

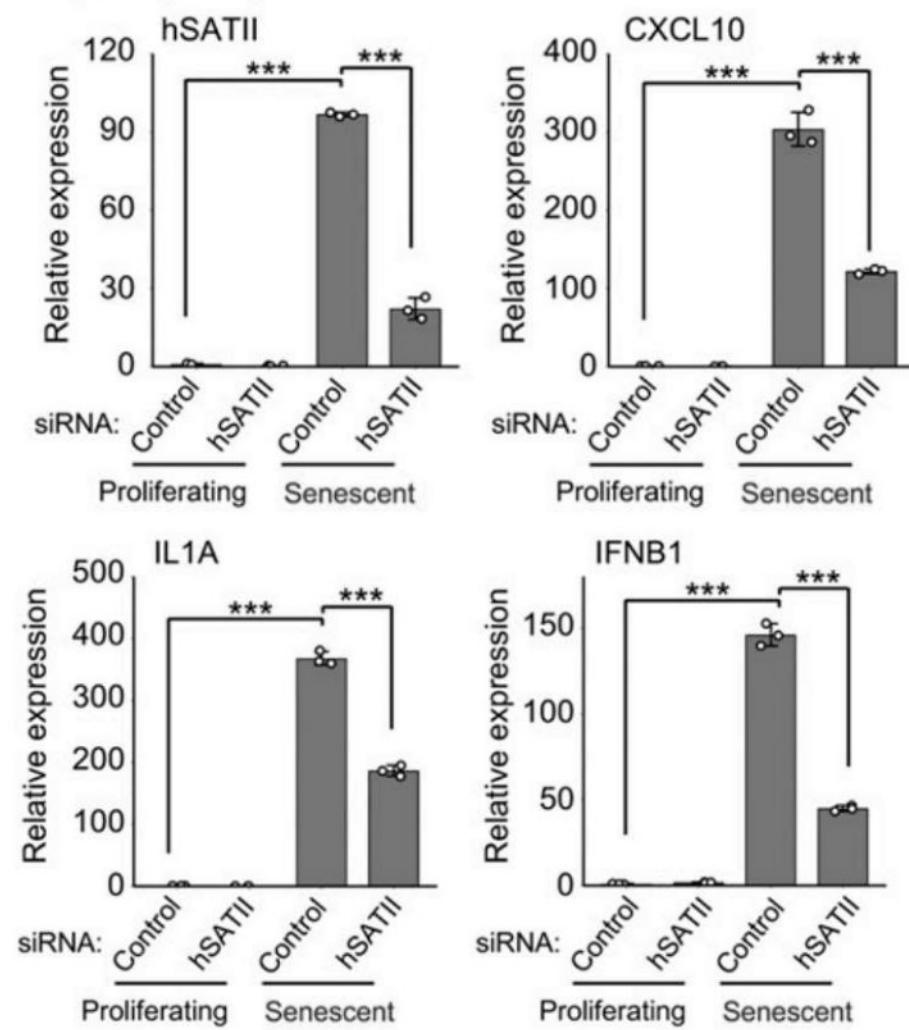


FIG.2D

Fibroblasts from a Werner syndrome patient

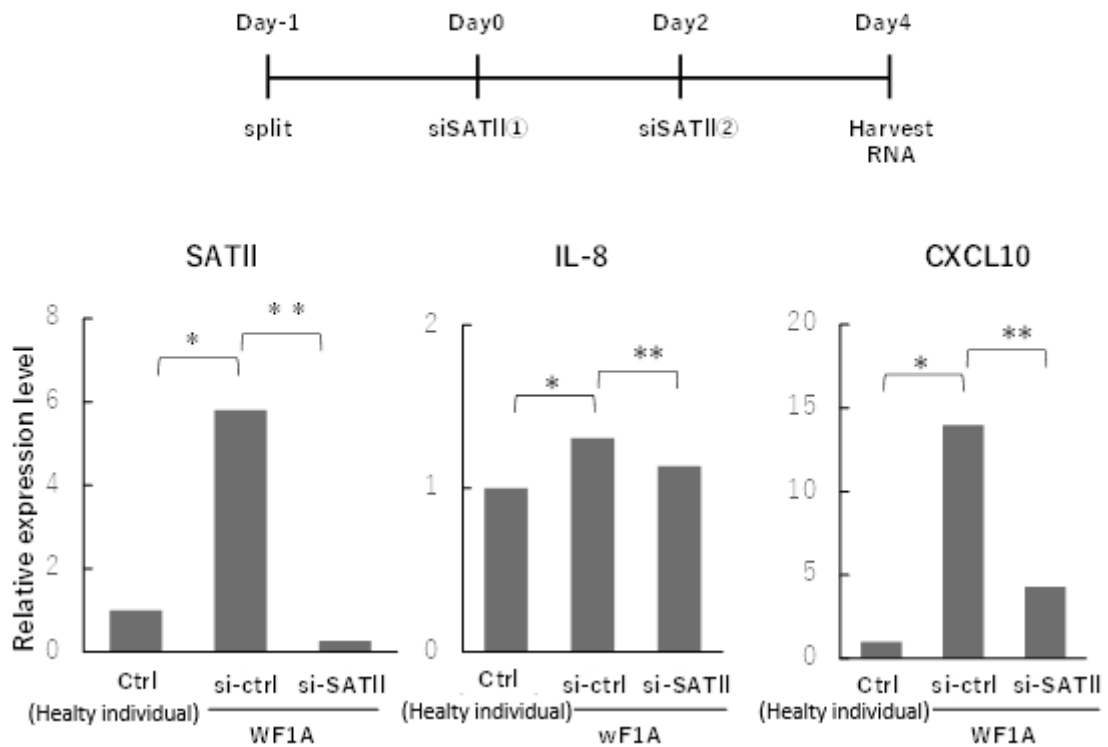


FIG.3A

HUVEC(human umbilical vein endothelial cell)

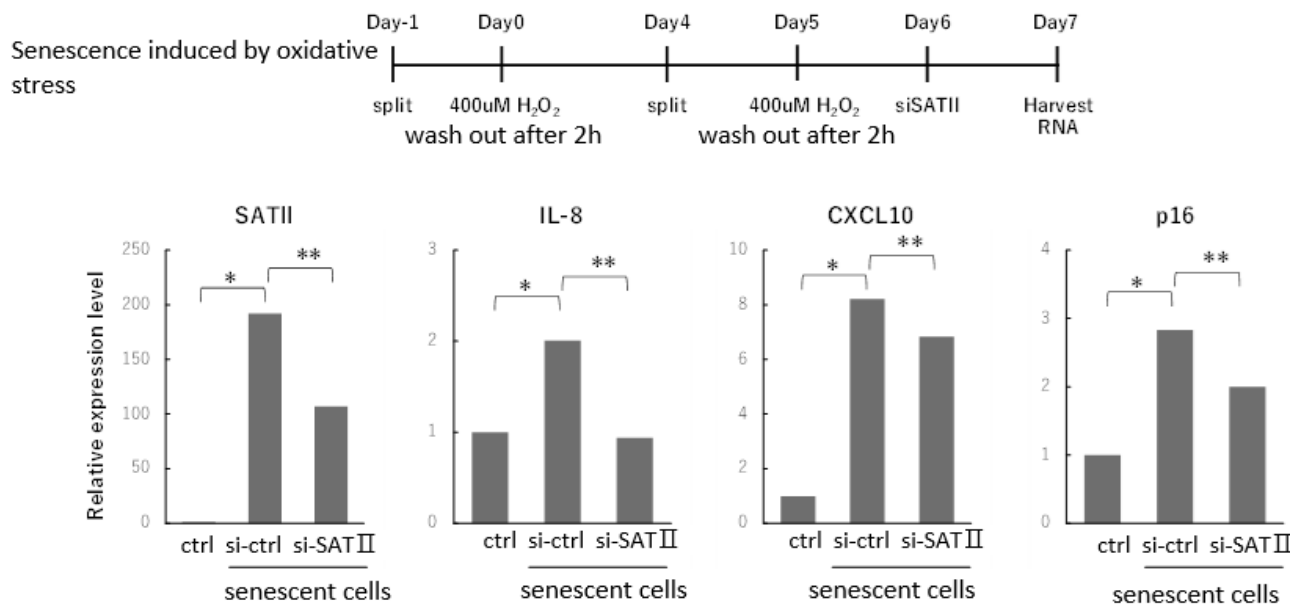


FIG.3B

Gene ontology analysis (Molecular Functions, $p < 0.01$)

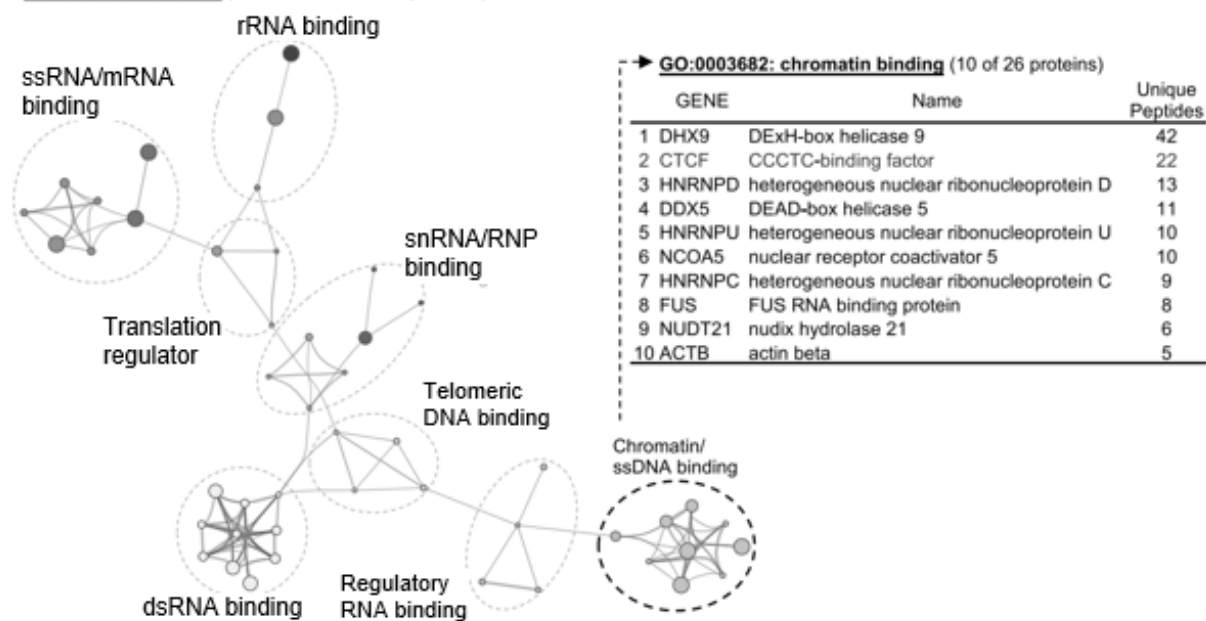


FIG.4A

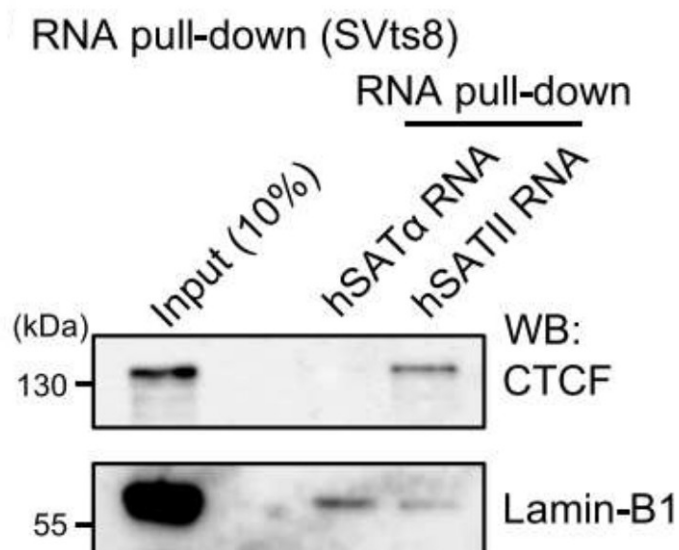


FIG.4B

Western blot (HEK-293T)

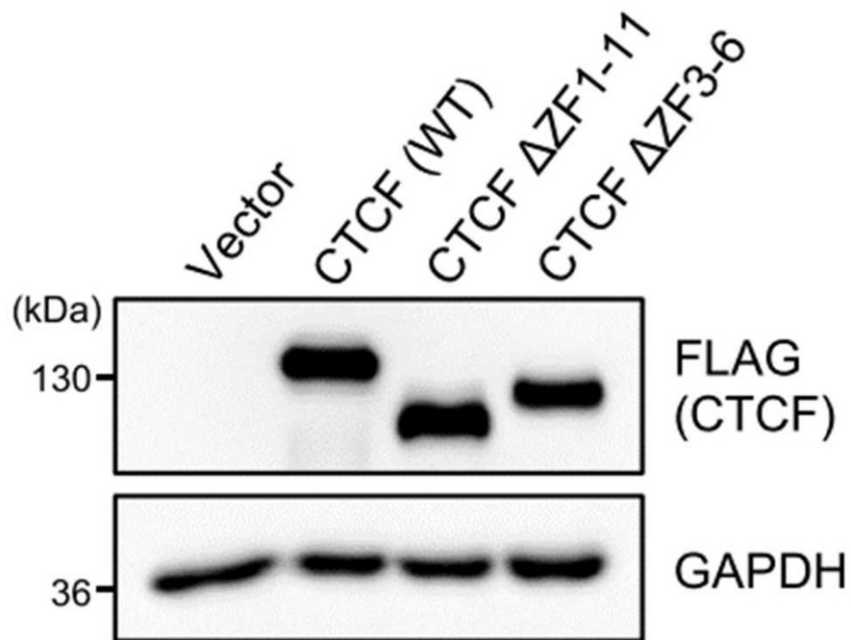


FIG.4C

RIP-qPCR (HEK-293T)

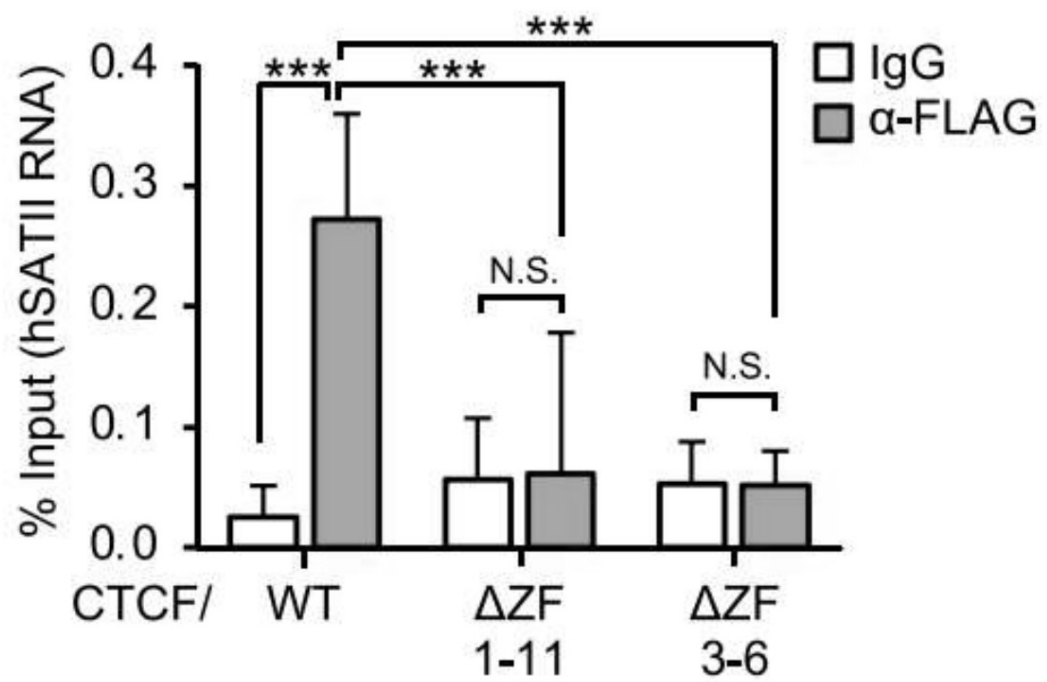


FIG.4D

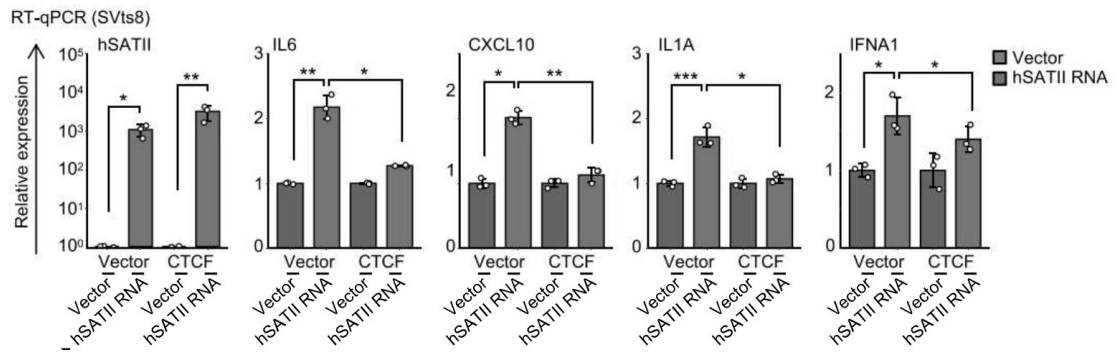


FIG.5A

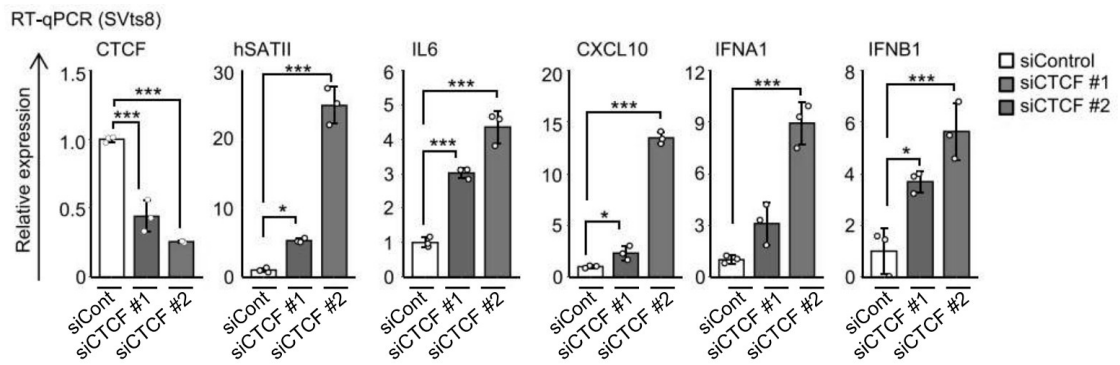


FIG.5B

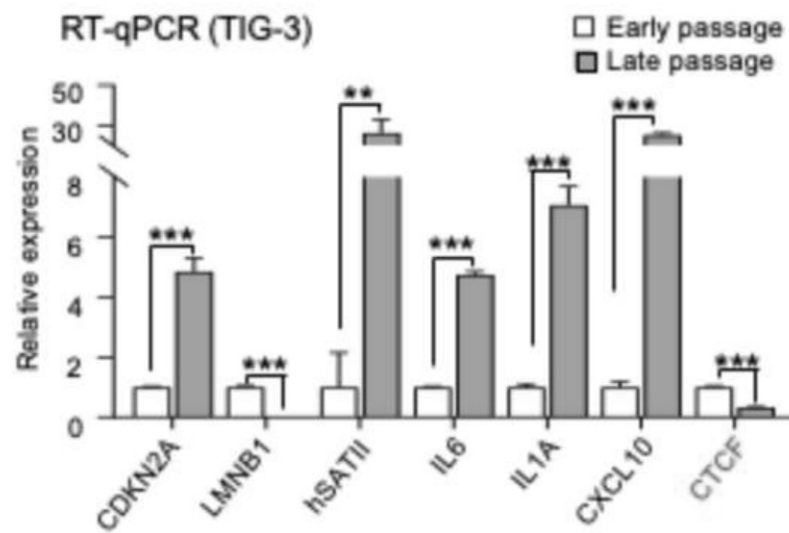


FIG.5C

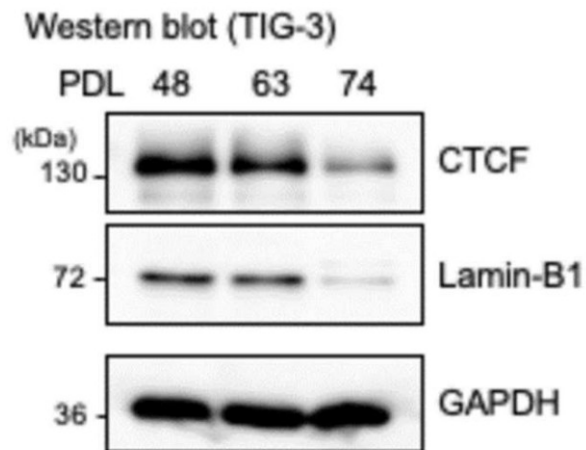


FIG.5D

ChIP-Seq (SVts8)

CTCF peaks

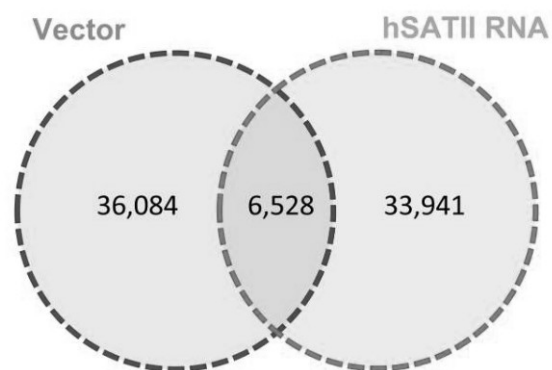


FIG.6A

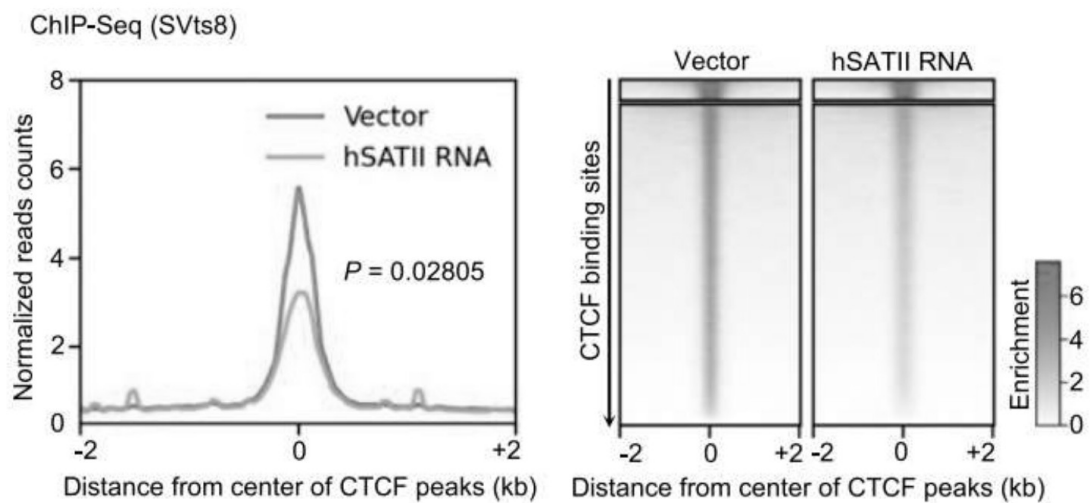


FIG.6B

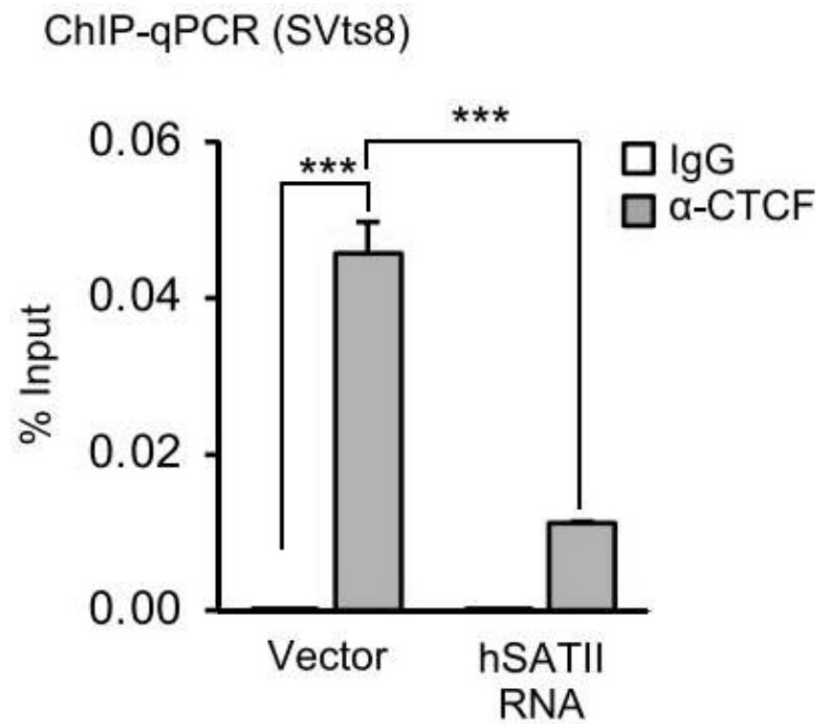


FIG.6C

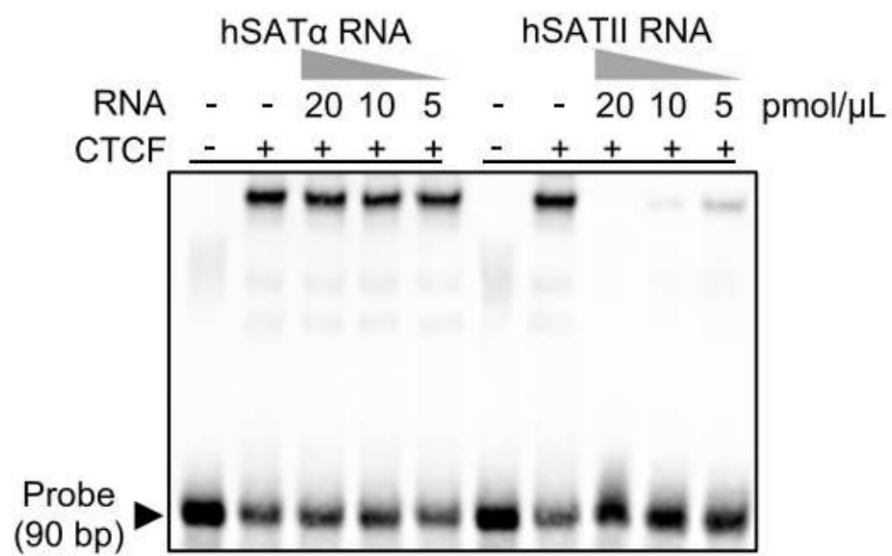


FIG.6D

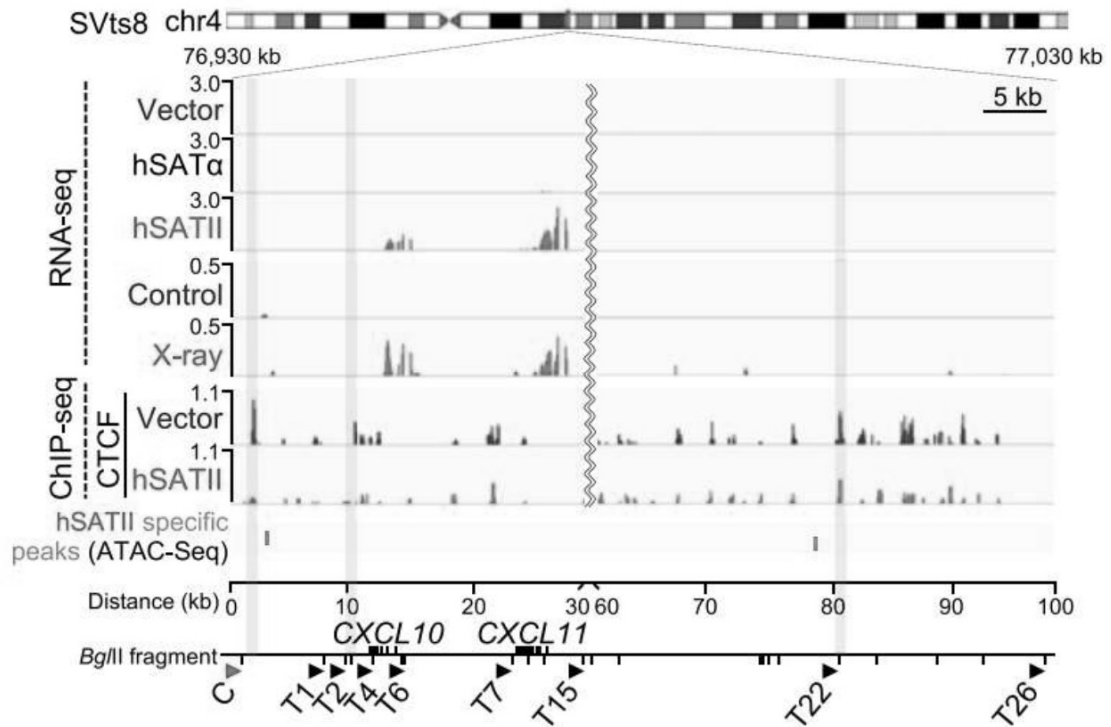


FIG.6E

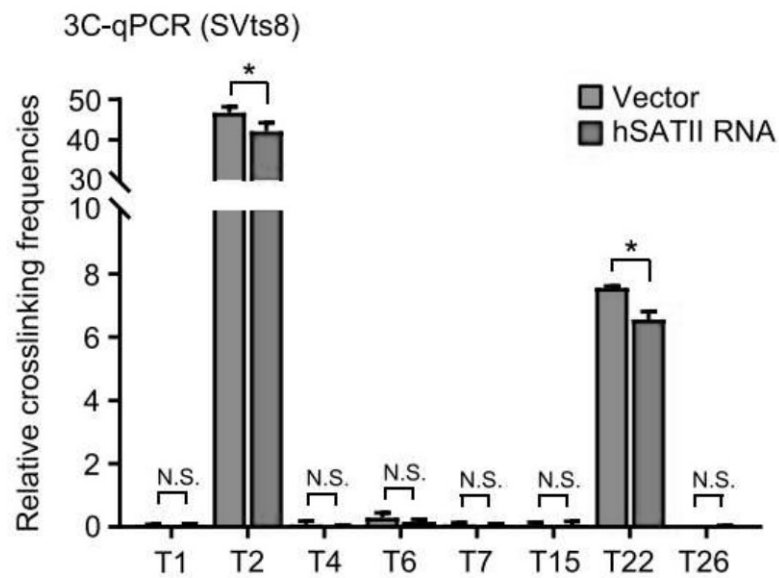


FIG.6F

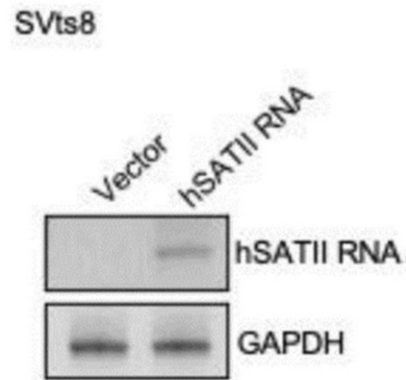


FIG.7A

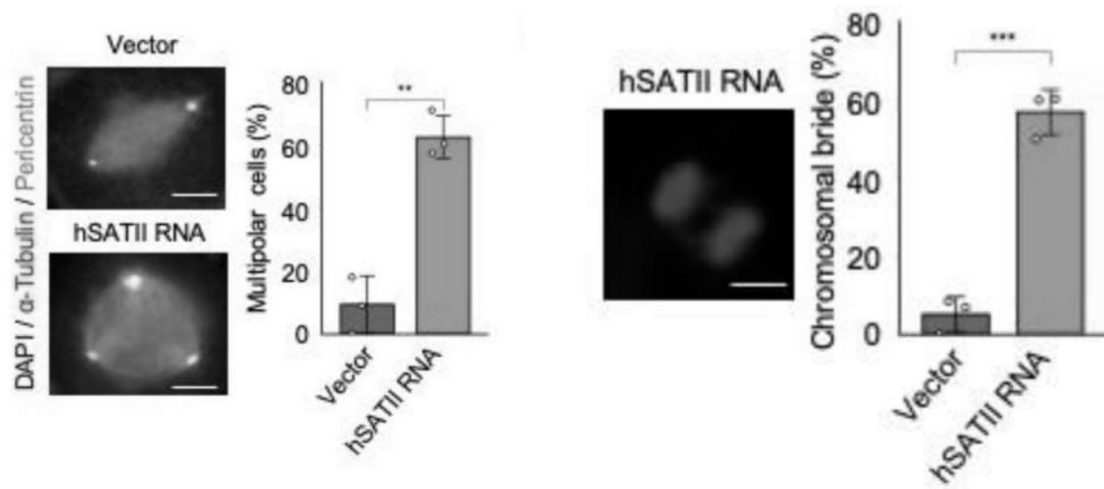


FIG.7B

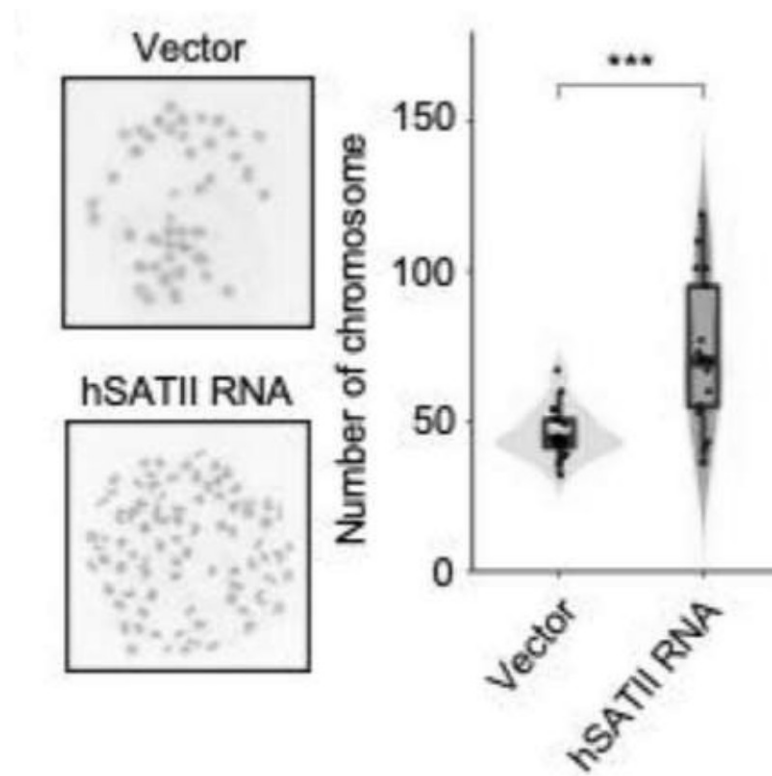


FIG.7C

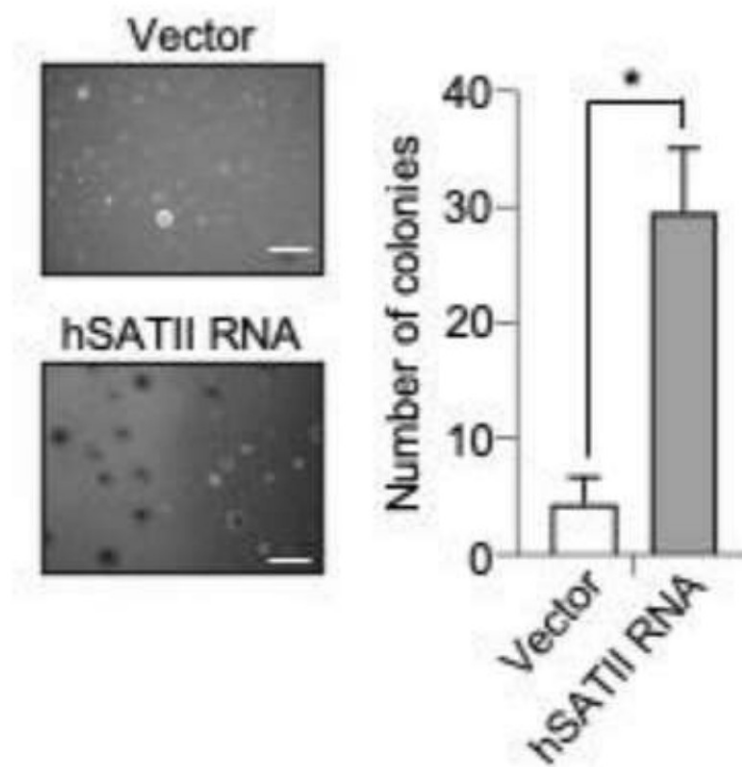


FIG.7D

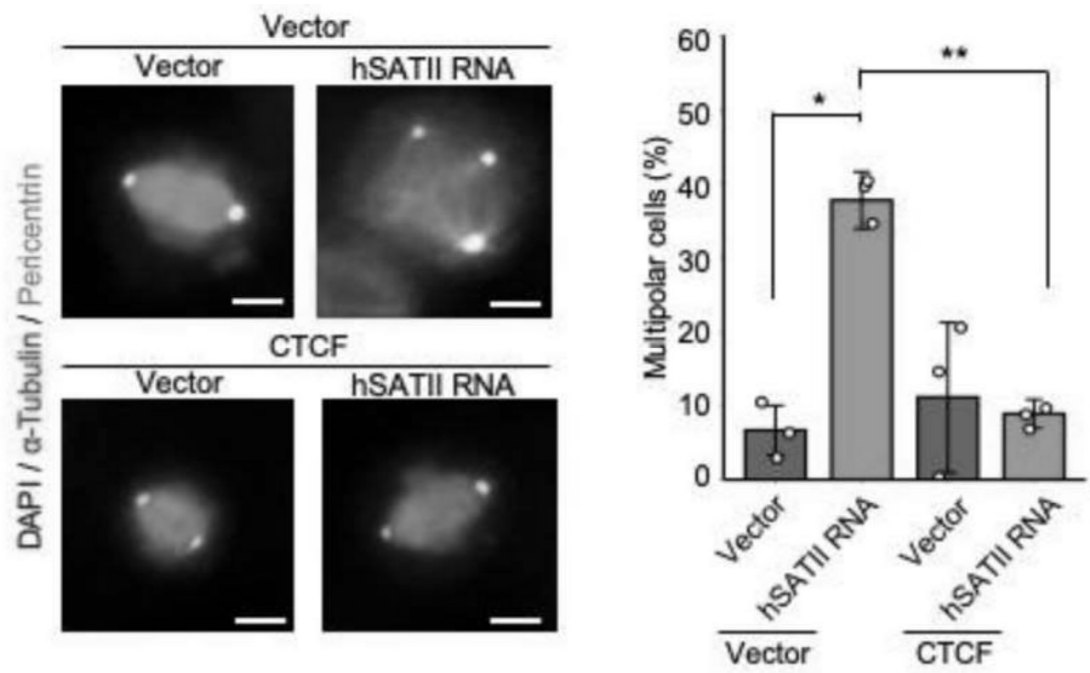


FIG.7E

MEFs

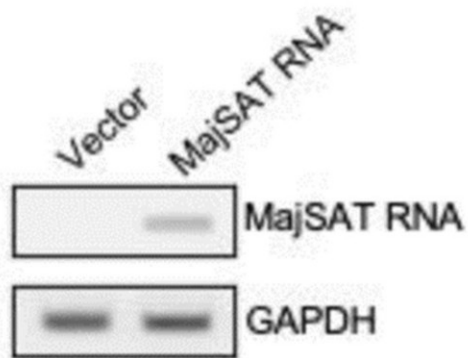


FIG.8A

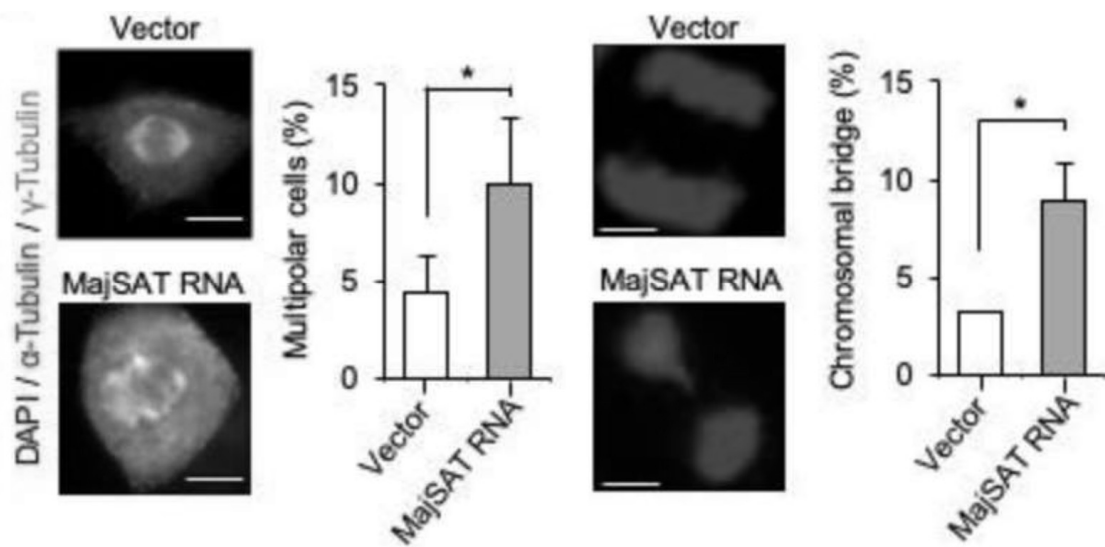


FIG.8B

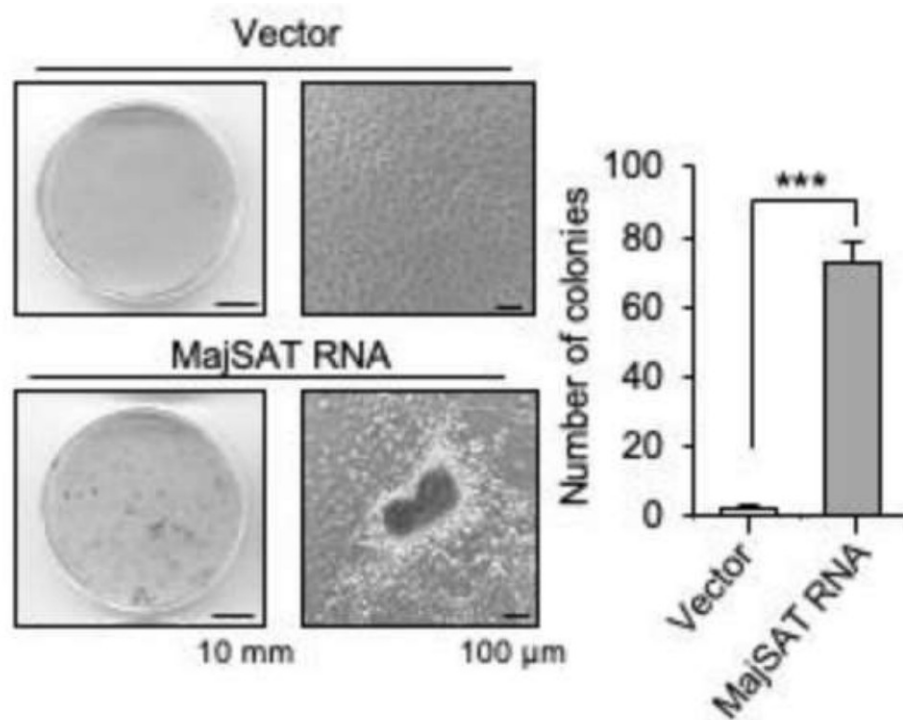


FIG.8C

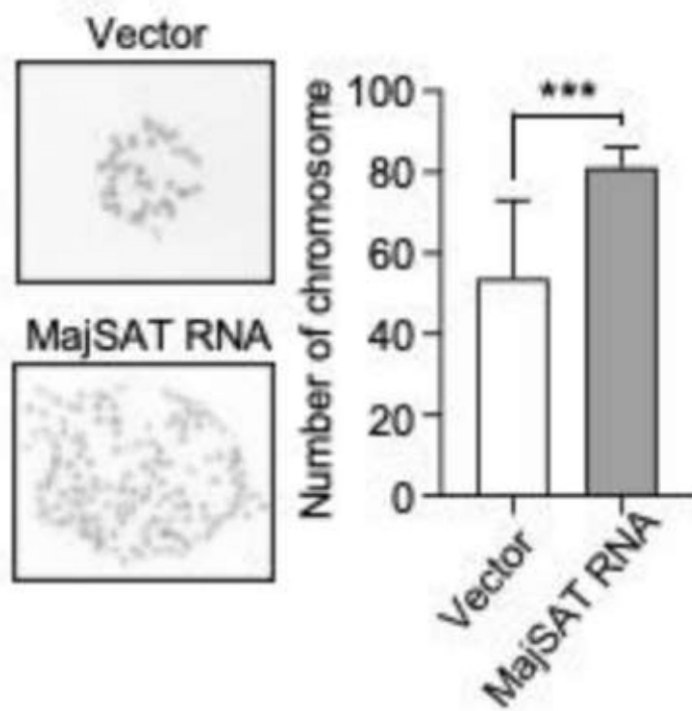


FIG.8D

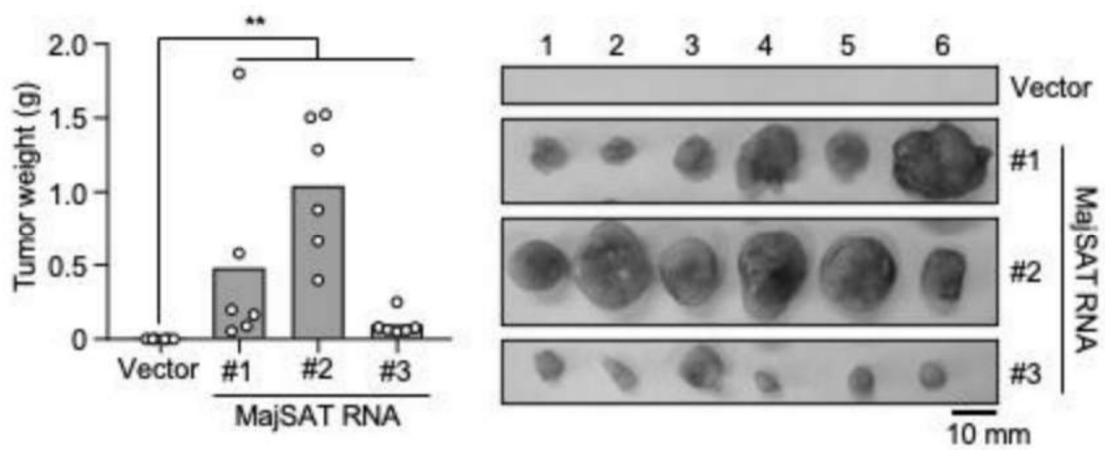


FIG.8E

RT-qPCR (small EVs)

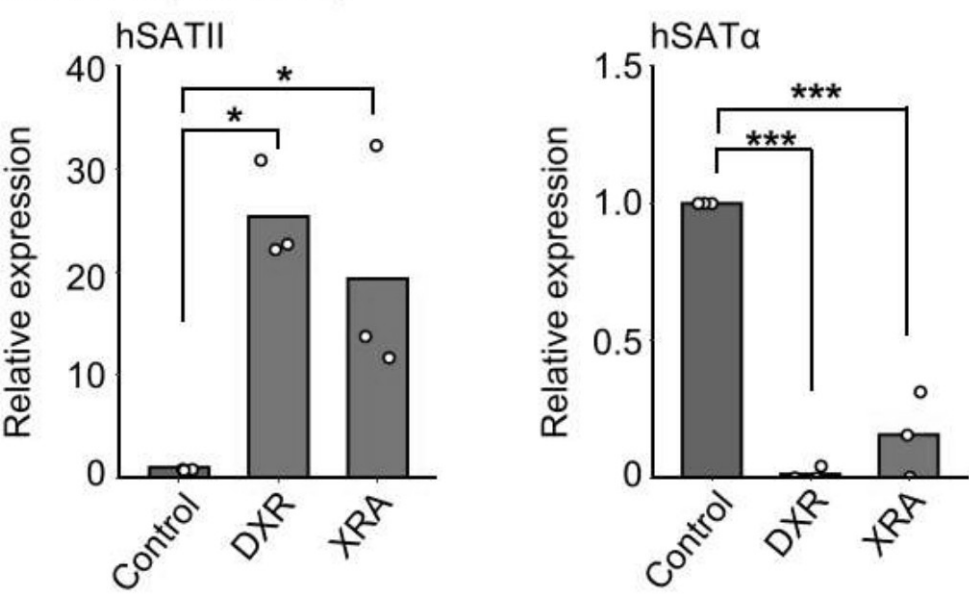


FIG.9A

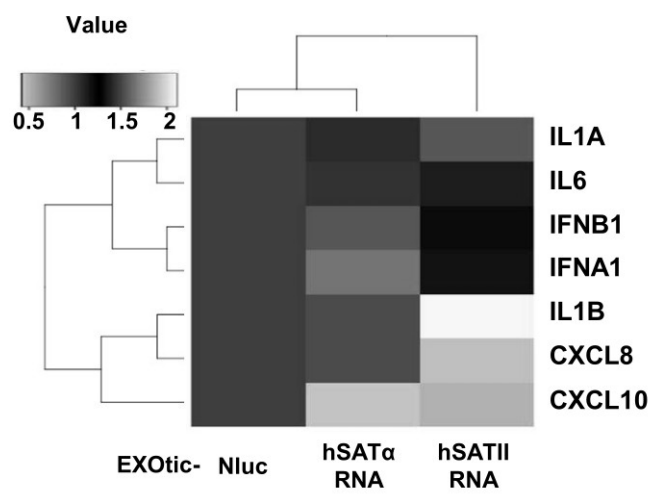


FIG.9B

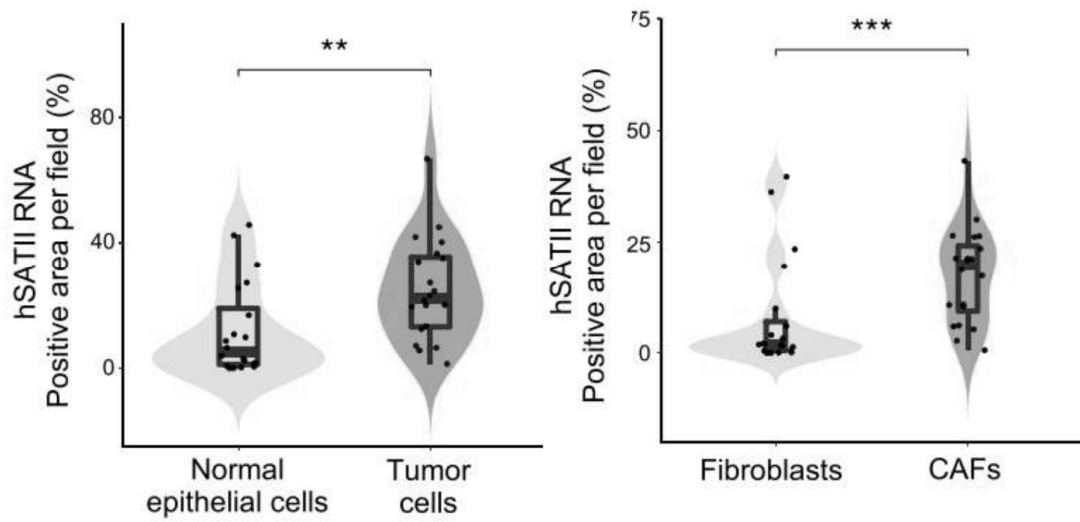


FIG.9C

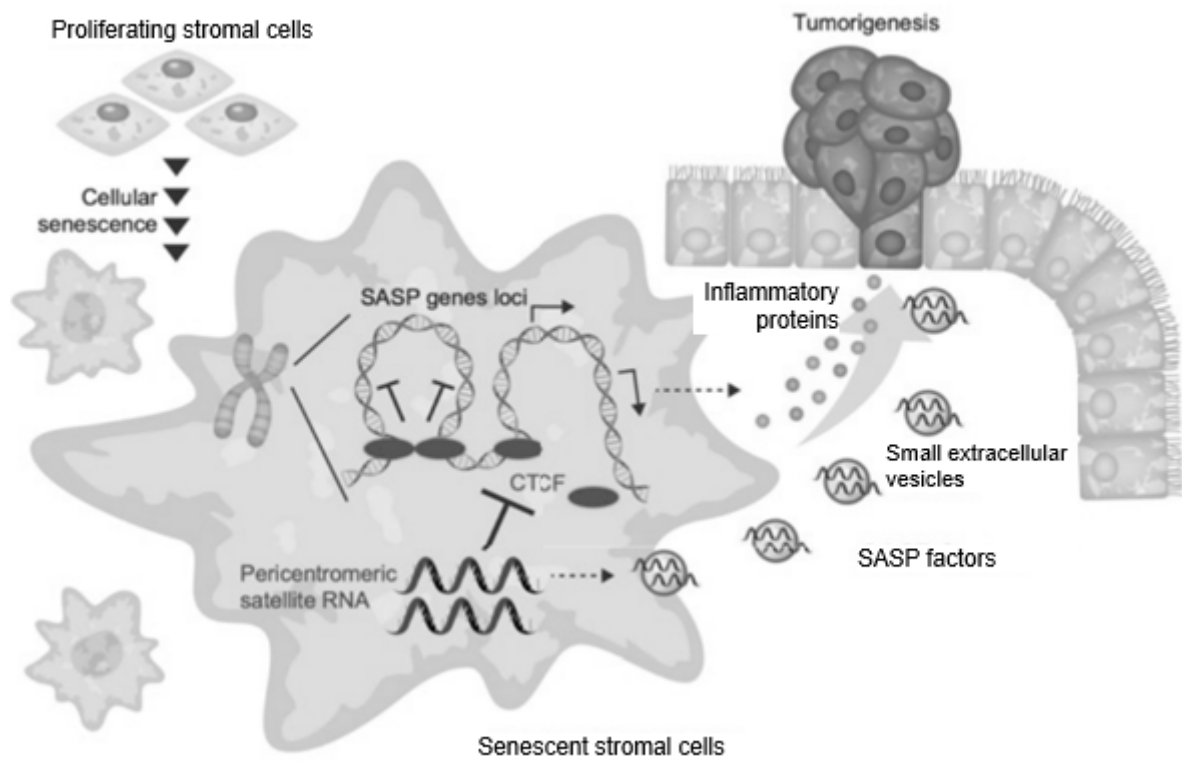
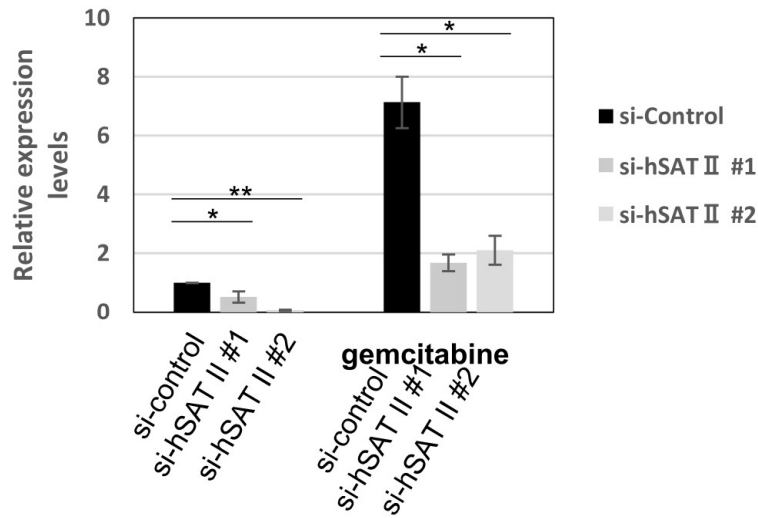


FIG.9D

hPSC

RT-qPCR



Viability assay

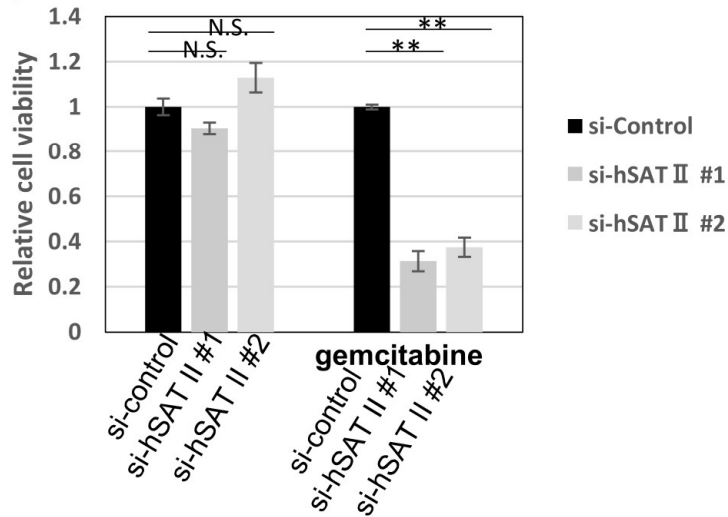


FIG.10A

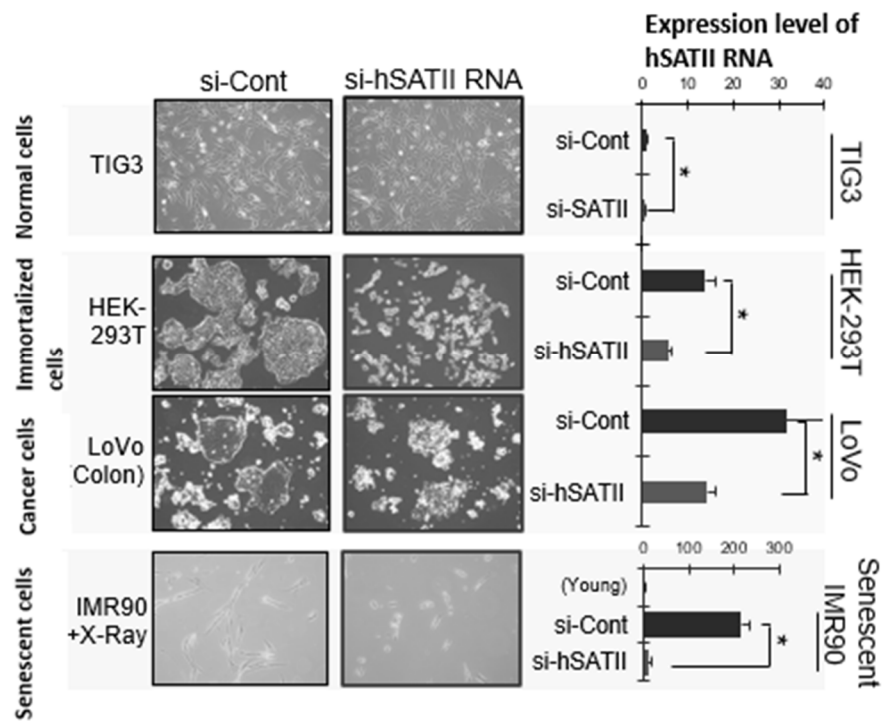


FIG.10B

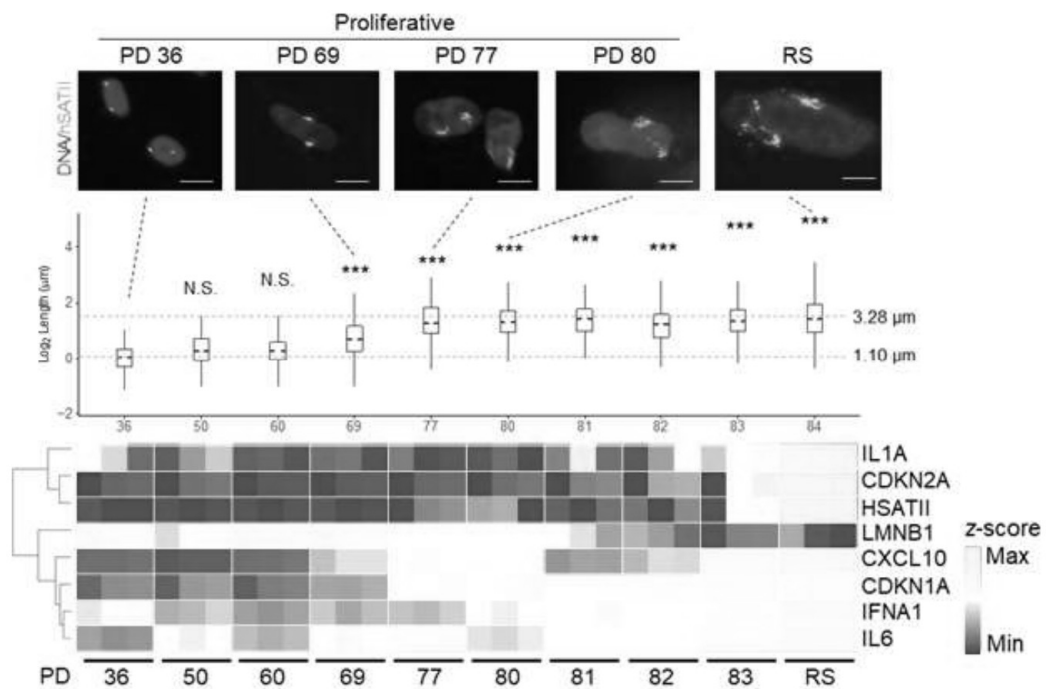
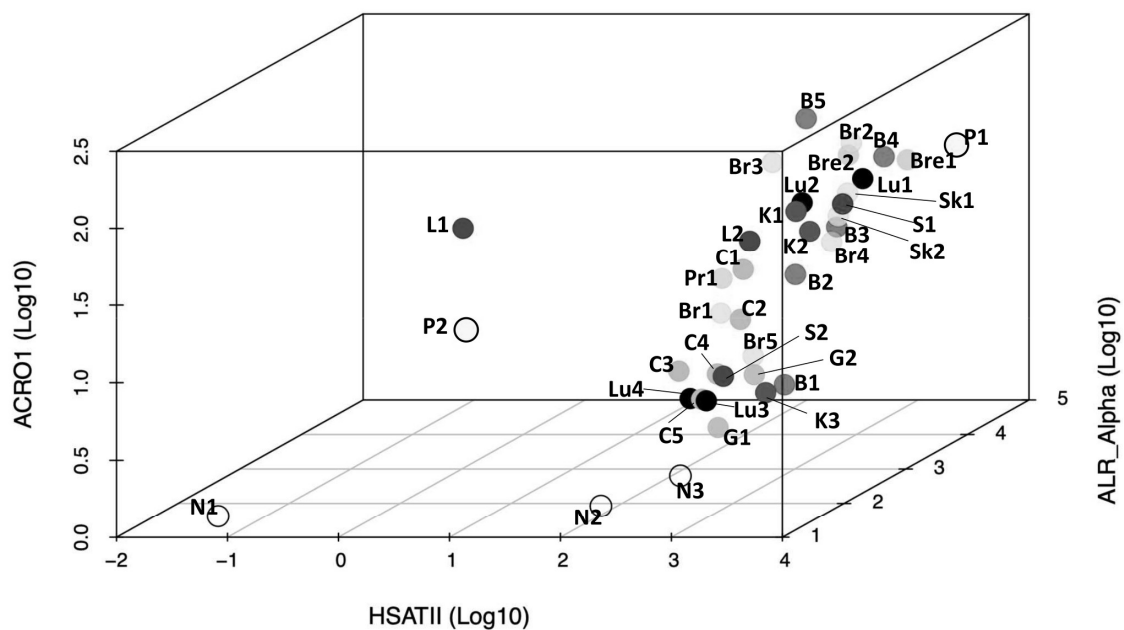


FIG.11A



Normal	N1	IMR-90	Breast	Br1	MCF-7	Liver	L1	HuH-7.5
	N2	Epidermal Melanocyte		Br2	T47D		L2	HepG2
	N3	BJ	Colon	C1	SW480	Lung	Lu1	NCI-H460
Blood	B1	Jurkat		C2	HCT116		Lu2	A549
	B2	CMK		C3	RKO		Lu3	NCI-H226
	B3	KBM-7		C4	LoVo		Lu4	PC-9
	B4	NAMALWA		C5	HT-29	Pancreas	P1	Panc1
	B5	K562	Genitals	G1	HeLa-S3		P2	8988T
Brain	Br1	SK-N-MC		G2	NT2/D1	Prostate	Pr1	LNCaP
	Br2	SK-N-DZ	Kidney	K1	Caki2	Sarcoma	S1	HT1080
	Br3	Daoy		K2	G401		S2	A673
	Br4	M059J		K3	ACHN	Skin	Sk1	SK-MEL-5
	Br5	A172					Sk2	RPMI7951

FIG.11B

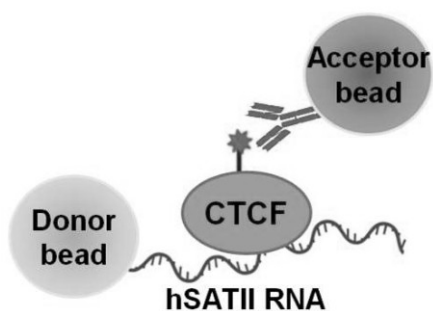


FIG.12

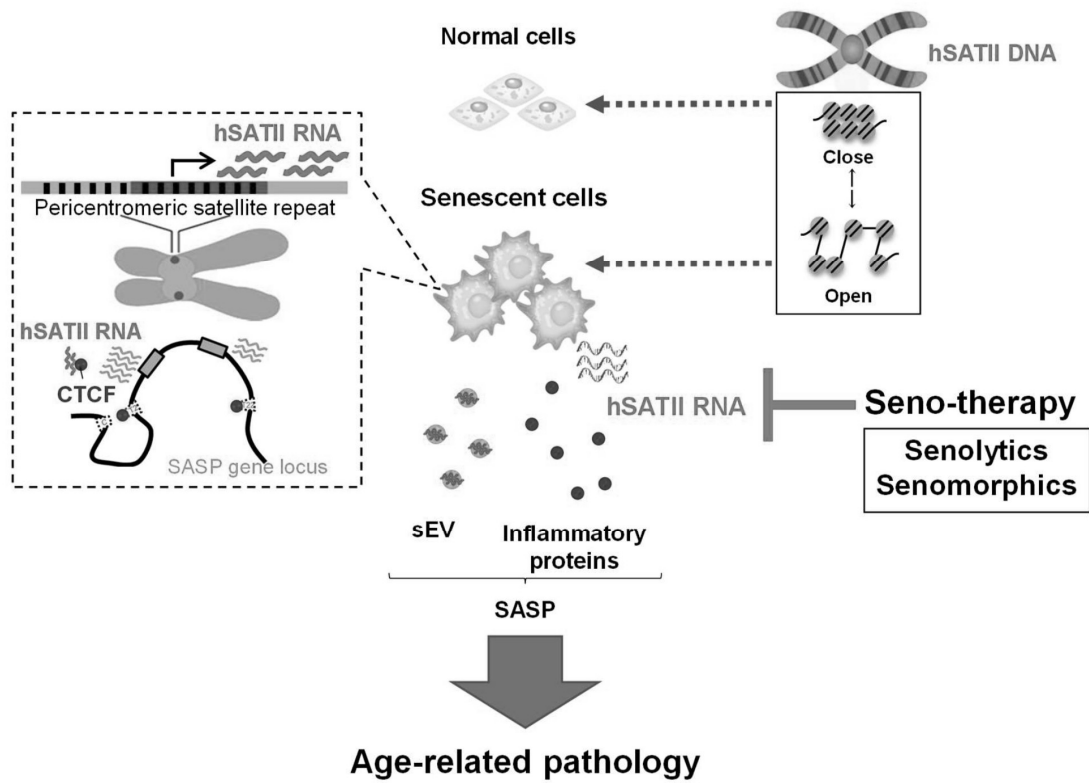


FIG.13