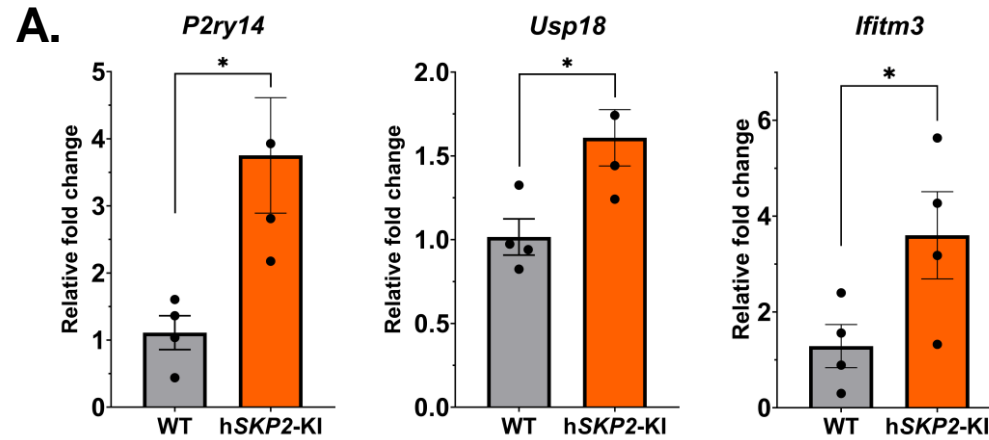
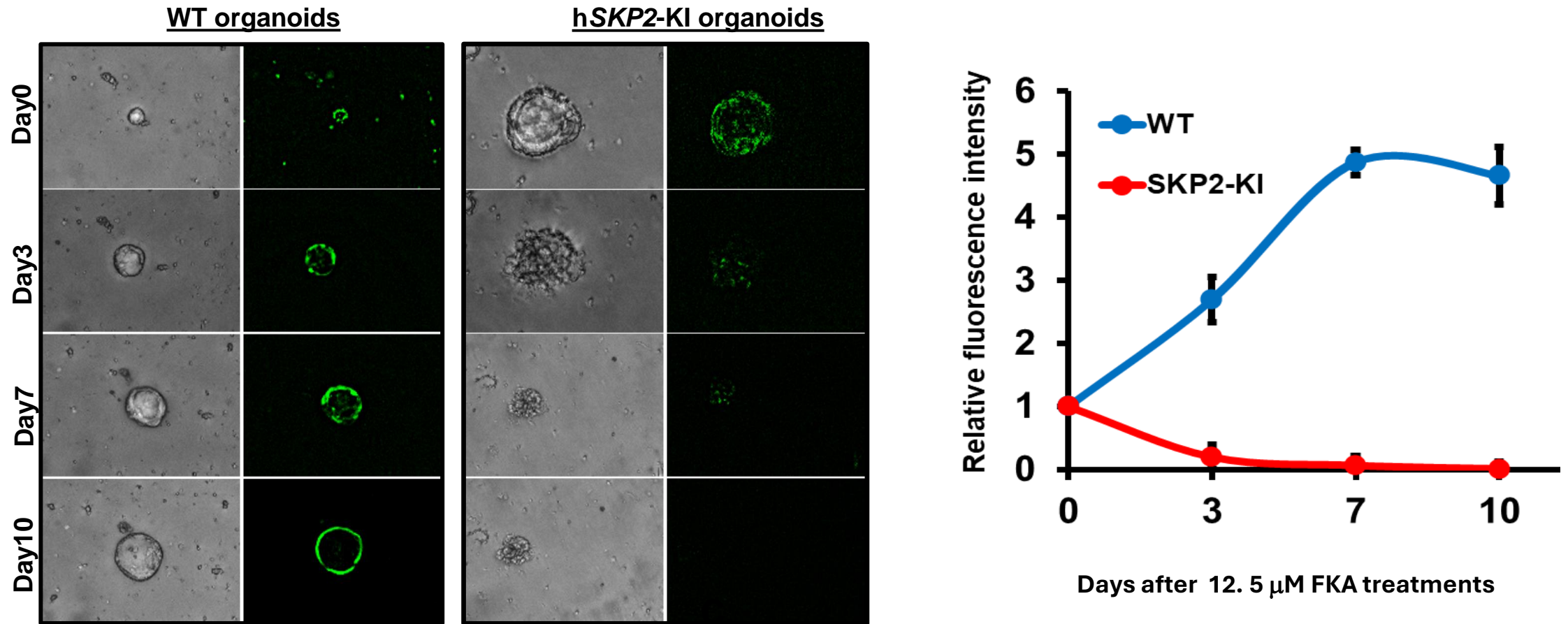


Interferon responses



Supplementary Figure 1. Quantitative PCR analysis of the expression of interferon-related genes *P2ry14*, *Usp18* and *Ifitm3* in the prostate of hSKP2-KI mice. N = 4, * $P < 0.05$, ** $P < 0.01$.



Supplementary Figure 2. A. WT and hSKP2-KI mouse prostate organoids were treated with FKA at 12.5 μ M for 10 days. Viabilities of these organoids were examined by adding a fluorescent dye CalAM 30 minutes before fluorescent intensity reading and imaging at indicated time points, Scale bar: 100 μ m. **B.** Relative fluorescent intensities of these organoids to their baseline levels at day 0 before treatments were calculated at indicated time points and presented as a line graph.

Supplementary Table 1. SKP2 IHC staining was quantified and summarized by diagnosis.

Diagnosis	Total number (n)	positive cores (n, %)	negative cores (n, %)	Average of % SKP2 Positive Cells per positive core		
				Means	Standard deviation	Standard errors
Normal prostate tissue	10	1 (10%)	9 (90%)	0.12	n.a.	n.a.
Hyperplasia	49	33 (68.6%)	16 (31.4%)	0.34	0.59	0.10
Adjacent normal	5	3 (60%)	2 (40%)	0.46	0.37	0.22
PIN	42	41 (97.6%)	1 (2.4%)	1.16	1.10	0.17
Adenocarcinoma	138	113 (81.9%)	25 (18.1%)	2.43	4.30	0.40