

Supplementary information

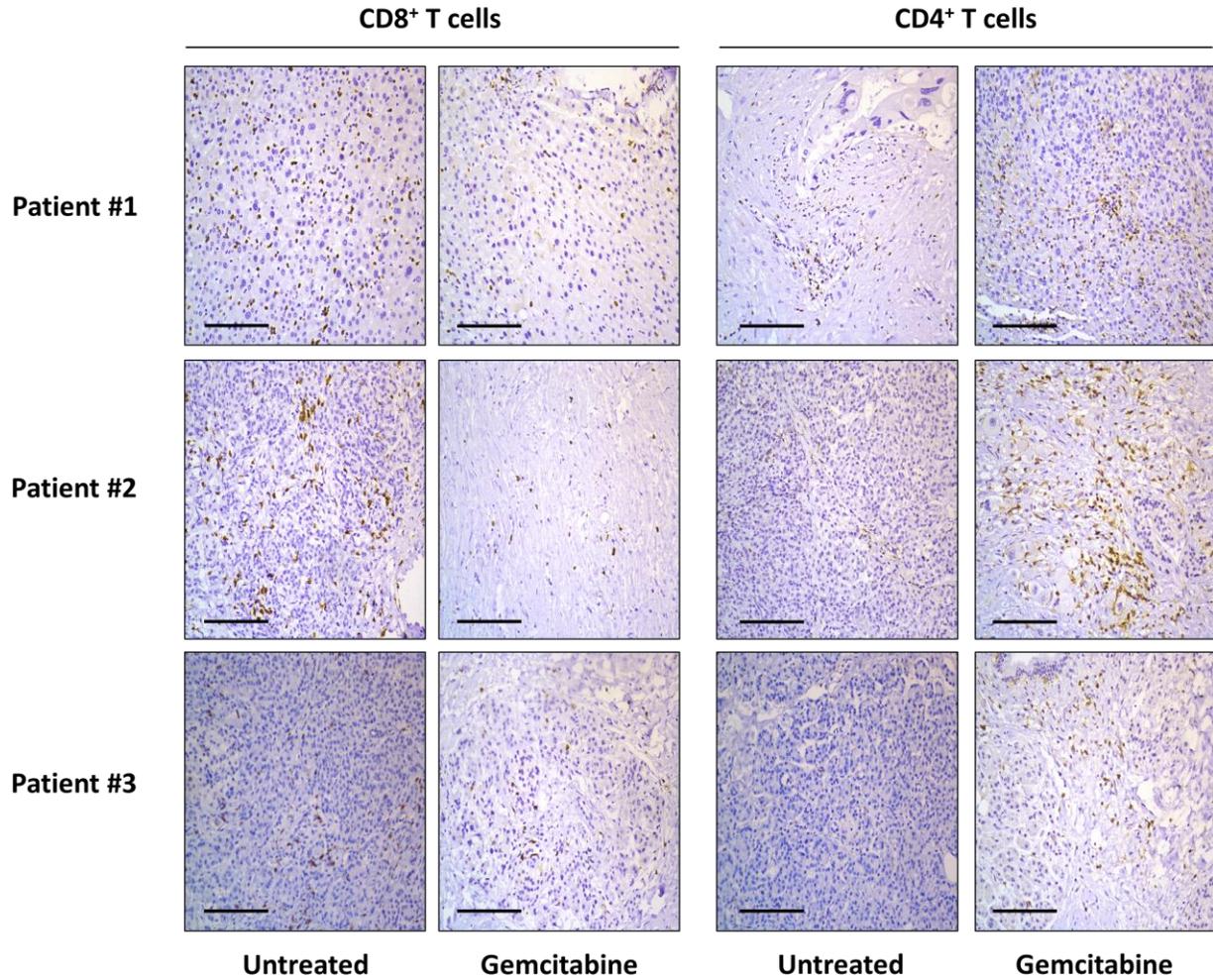


Fig. S1. Immunostaining of CD4⁺ and CD8⁺ cells in human pancreatic tumor tissues. Tumor tissues were processed for immunostaining of CD4 and CD8 staining. Representative images are shown of three tumors from untreated PDAC patients or treated with gemcitabine, as shown in Fig. 3I. Scale bars: 50 μ m. Quantitative analyses are shown in Fig. 3H.

Mouse PDAC tumors: FoxP3 positive cells

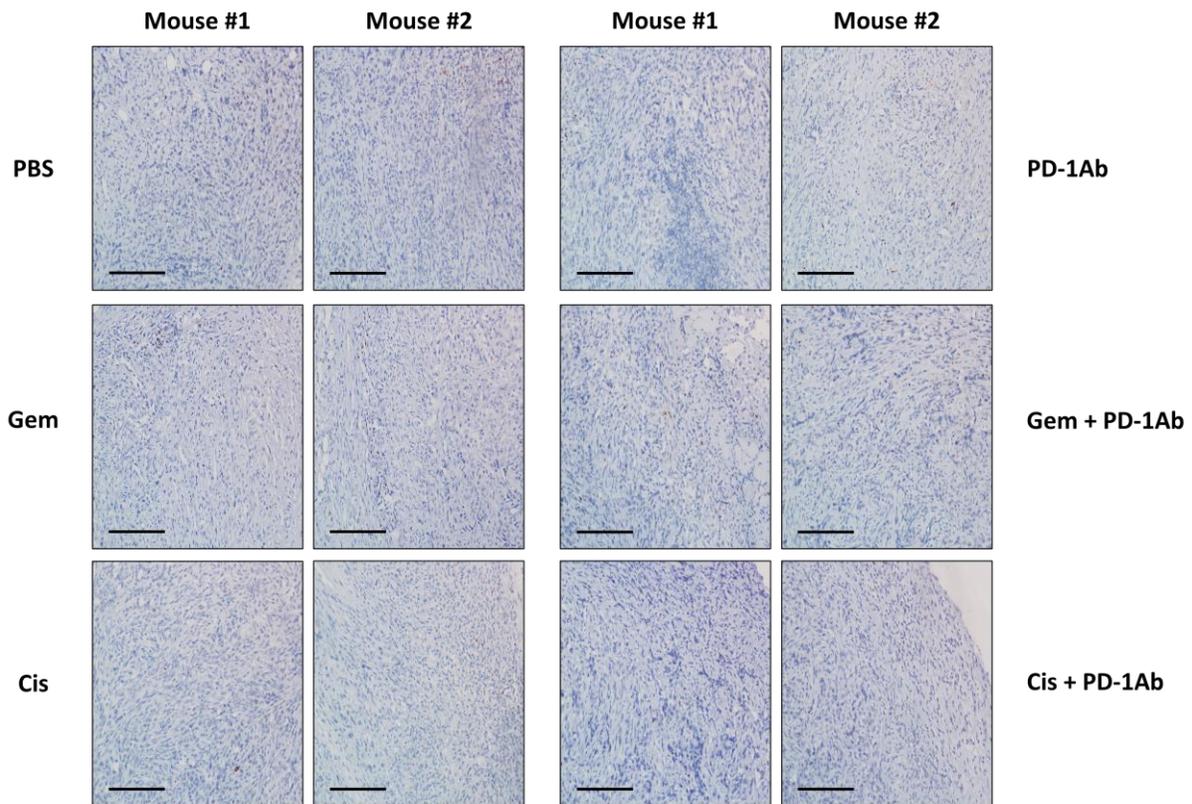


Fig. S2. Immunostaining of FoxP3⁺ T cells in mouse pancreatic tumor tissues. PDAC tumor-bearing C57BL/6 mice were treated as described in Fig. 1E. Tumor tissues were processed for immunostaining of FoxP3 staining. Representative images are shown. Scale bars: 50 μ m. Quantitative analyses are shown in Fig. 4G.

Mouse CT26 tumors: CD8 positive cells

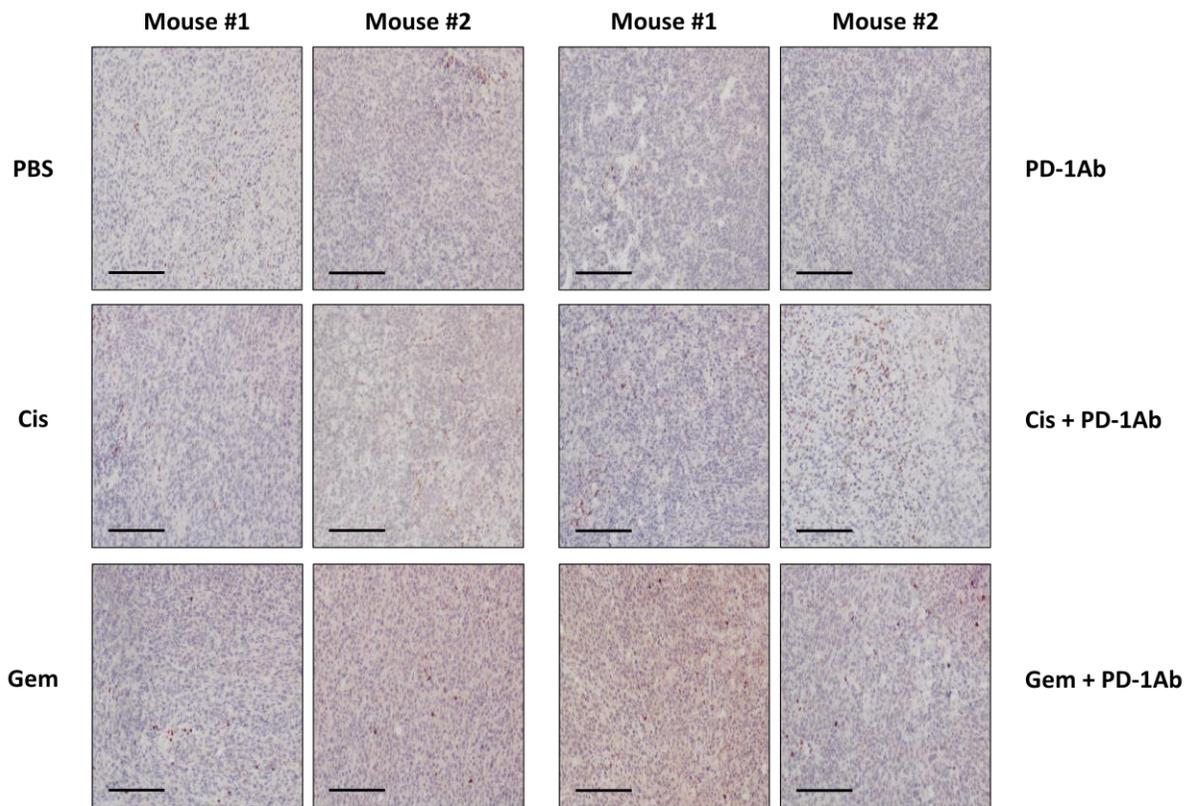


Fig. S3. Immunostaining of CD8⁺ T cells in mouse colon CT26 tumor tissues. CT26 tumor-bearing BALB/c mice were treated as described in Fig. 2. Tumors were harvested at end-points and were processed for immunostaining of CD8⁺ T cells. Representative images are shown. Scale bars: 50 μ m. Quantitative analyses are shown in Fig. 4H.

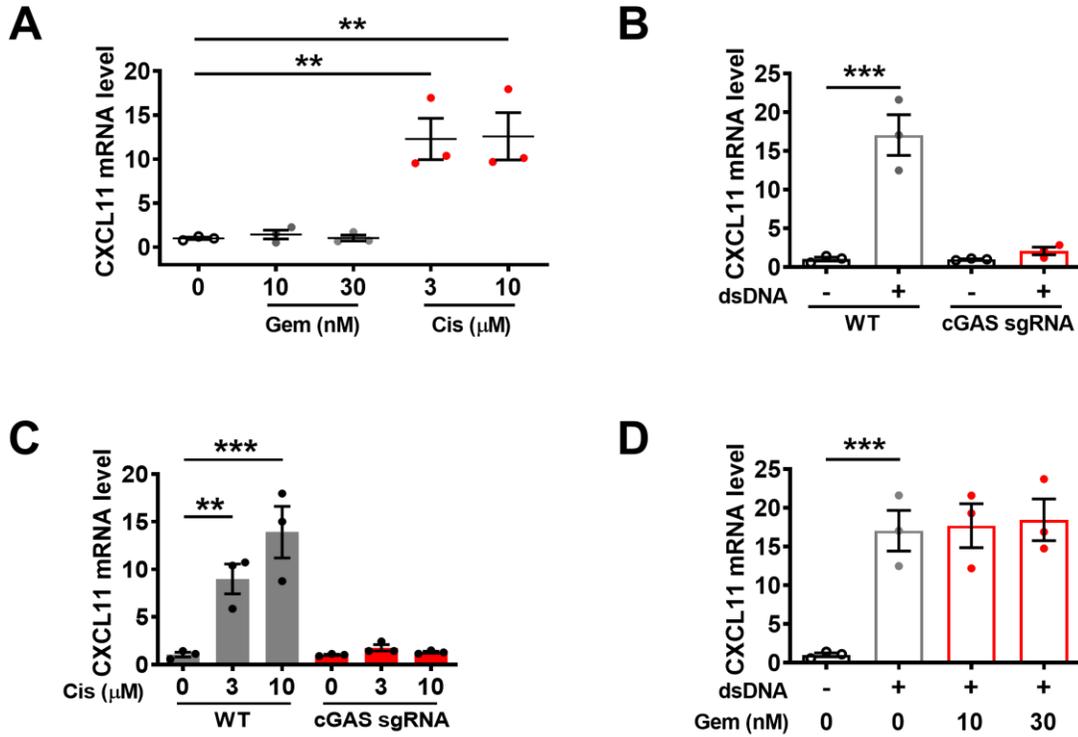


Fig. S4. Cisplatin induces the expression of CXCL11 in a cGAS-dependent manner. (A) Mouse pancreatic cancer cells were incubated with gemcitabine (Gem) or cisplatin (Cis) for 48 h (as shown in Fig. 7A-C). The expression of CXCL11 was measured by qRT-PCR. (B) Mouse pancreatic wild-type (WT) or the sgRNA-mediated cGAS-disrupted cells (cGAS-sgRNA) were transfected with dsDNA fragments for 48 h (as shown in Fig. 7E-G). The expression of CXCL11 was measured by qRT-PCR. (C) Mouse pancreatic wild-type (WT) or cGAS-disrupted cells were incubated with cisplatin for 48 h (as shown in Fig. 7H-J). The expression of CXCL11 was measured by qRT-PCR. (D) Wild-type mouse pancreatic cancer cells were incubated with gemcitabine. Eight hours post-treatment, cells were transfected with dsDNA fragments for 40 h (as shown in Fig. 7K-M). The expression of CXCL11 was measured by qRT-PCR. Statistical analysis: data are means \pm SEM of three separate experiments; one-way ANOVA followed by Tukey *post hoc* test for A-D. **, $P < 0.01$; ***, $P < 0.001$.

Table S1. Oligonucleotide sequences of primers used in qRT-PCR analyses and transfection.

Quantitative RT-PCR		
Genes	Forward primer	Reverse primer
Mouse cxcl9	CTTTTCCTTTTGGGCATCATCT	GCAGGAGCATCGTGCATTC
Mouse cxcl10	GAATCCGGAATCTAAGACCATCAA	GTGCGTGGCTTCACTCCAGT
Mouse cxcl11	TGCTCAAGGCTTCCTTATGTT	CTTTGTGCGCAGCCGTTACTC
Mouse ifnb1	GGAGCAGCTGAATGGAAAGA	CATCTCTTGGATGGCAAAGG
Mouse ifng	GAACTGGCAAAAGGATGGTG	GCTGATGGCCTGATTGTCTT
Mouse prf1b	TCTTCGGGAACCAAGCTACA	CTTCGGGTTCTGTTCTTCCA
Mouse gzmb	GTGTGCTATGTGGCTGGTTG	CACACTCCCGATCCTTCTGT
Mouse tbx21	AGCAAGGACGGCGAATGTT	GGGTGGACATATAAGCGGTTT
Mouse ifngr1	CTGGCAGGATGATTCTGCTGG	GCATACGACAGGGTTCAAGTTAT
Mouse gata3	CTCGGCCATTCGTACATGGAA	GGATACCTCTGCACCGTAGC
Mouse il4	GGTCTCAACCCCAAGCTAGT	GCCGATGATCTCTCTCAAGTGAT
Mouse foxp3	CCCATCCCCAGGAGTCTTG	ACCATGACTAGGGGCACTGTA
Mouse roryt	GACCCACACCTCACAAATTGA	AGTAGGCCACATTACACTGCT
Mouse il9	ATCACGTGTCCGTCCTTTTC	GCTTTTCTGCCTTTGCATCT
Mouse il22	CAGACAGGTTCCAGCCCTAC	CGCCTTGATCTCTCCACTCT
Mouse il17a	TTTAACTCCCTTGGCGCAAAA	CTTTCCCTCCGCATTGACAC
Mouse il23a	CATGCTAGCCTGGAACGCACAT	ACTGGCTGTTGTCCTTGAGTCC
Mouse rpl19 (reference)	GAAGGTCAAAGGGAATGTGTTCA	CCTTGTCTGCCTTCAGCTTGT
Human CXCL10	GTGGCATTCAAGGAGTACCTC	TGATGGCCTTCGATTCTGGATT
Human CXCL11	GGCAGATATTGAGAAAGCCTCC	GCCTTGCTTGCTTCGATTTG
Human EF1 (reference)	GCTTCACTGCTCAGGTGAT	GCCGTGTGGCAATCCAAT
Transfection		
	Forward primer	Reverse primer
dsDNA (60-bp fragment, HSV- 1 sequence)	CCATCAGAAAGAGGTTTAATATTTT TGTGAGACCATCGAAGAGAGAAAG AGATAAACTT	AAGTTTTATCTCTTTCTCTCTTCGAT GGTCTCACAAAAATATTAACCTCT TTCTGATGG