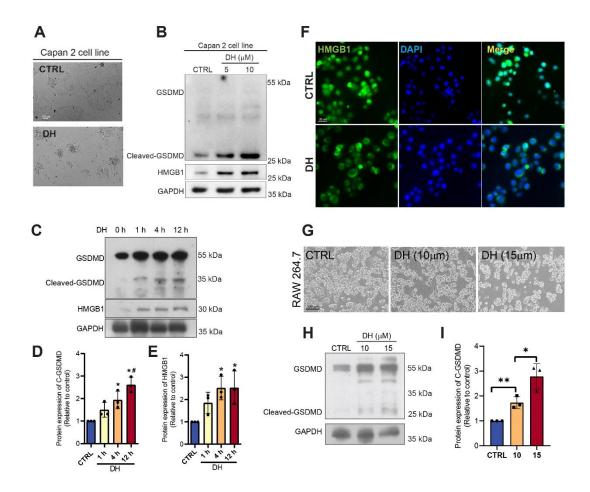
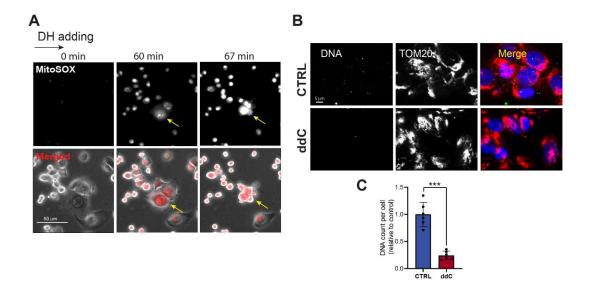
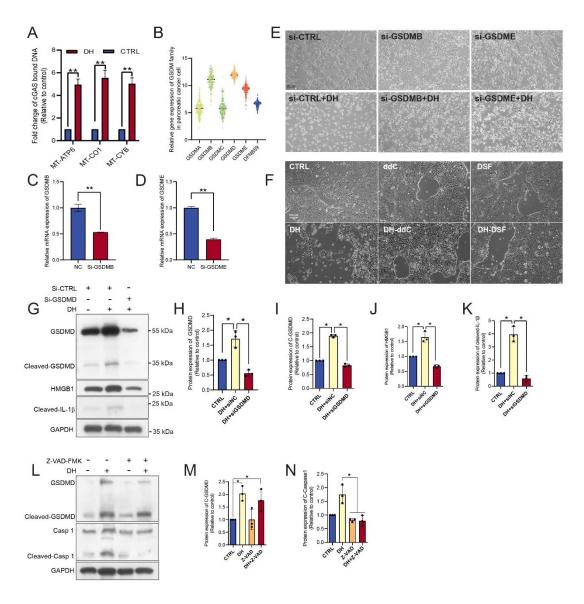
Supplementary data



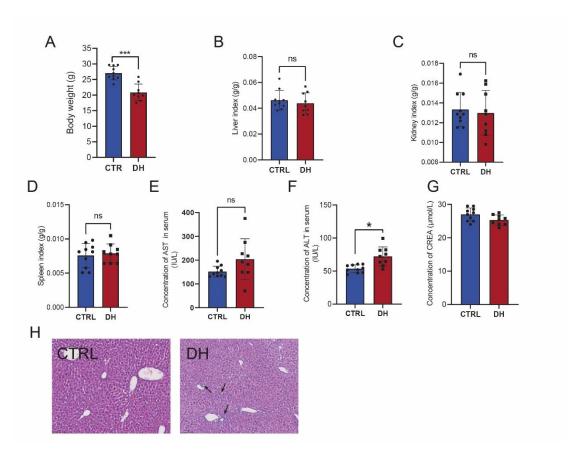
Supplementary Figure 1. A. Morphology observation of Capan 2 cell lines after treatment of vehicle or DH (10 μ M). **B.** Representative Western Blot images of pyroptosis-related proteins expression in Capan 2 cells after DH treatment. **C.** Representative Western Blot images of pyroptosis-related proteins expression in PANC 1 cells after DH treatment for different time points. **D-E.** Quantification of cleaved-GSDMD, HMGB1 protein expressions in **C.** n=3. **F.** Representative fluorescent images of PANC1 cells with or without DH treatment (1 h). Scale bar, 20 μ m. Green, HMGB1; Blue, DAPI. **G.** Representative images of RAW 264.7 cells with or without DH treatment. Scale bar, 100 μ m. **H.** Representative Western Blot images of pyroptosis-related proteins in PANC1 cells after DH treatment or not. **I.** Quantification of cleaved-GSDMD protein expression in **G.** Data was shown as mean \pm SD. Unpaired t-test was used. *p < 0.05; ** p < 0.01.



Supplementary Figure 2. A. Representative time-lapse images of PANC1 cells after treating with DH. Cells were pretreated with MitoSox. Scale bar, 50 μ m. Red, MitoSox. **B.** Representative immunofluorescent images of PANC1 cells with or without ddC treatment. Scale bar, 5 μ m. **C.** Quantification of DNA positive staining area in images in B. n=6. Data was shown as mean \pm SD. Unpaired t-test was used. *** p < 0.001.



Supplementary Figure 3. A. Comparison of cGAS-bound mtDNA after DH treatment. *MT-ATP6, MT-CO1*, and *MT-CYB* are all mitochondrial genes. **B.** Comparison of gene expressions of GSDM family in pancreatic cancer in TCGA database. **C.** Comparison of gene expressions of GSDMB after transfecting GSDMB siRNA. n=3. **D.** Comparison of gene expressions of GSDME after transfecting GSDME siRNA. n=3. **E.** Representative images of cell morphology after silencing different GSDM genes and treatment of DH or not. **F.** Representative images of cell morphology after different treatment. **G.** Representative Western Blot images of pyroptosis-related proteins in PANC1 cells after silence GSDMD (oligo 2). **H-K.** Quantification of GSDMD, cleaved-GSDMD, HMGB1, and cleaved-IL-1 β protein expressions in **G.** n=3. **L.** Representative Western Blot images of pyroptosis-related proteins in PANC1 cells after different treatment. **M** and **N.** Quantification of cleaved-GSDMD and Caspase 1 protein expressions in **L.** Data was shown as mean \pm SD. Unpaired t-test was used. ** p < 0.01.



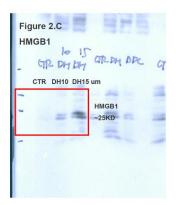
Supplementary Figure 4. Organ weights and determination of liver or kidney function after DH treatment. A. Body weight of nude mice after xenograft PANC-1 cells. Mice were administrated with DH or not. n=9. B-D. Organ indexes in nude mice with xenograft of PANC-1 cells after administration of DH or not. B, liver index (n=9); C, kidney index (n=9,10); D, spleen index (n=9,10). E-F. Determination of AST or ALT concentrations in serum of nude mice with xenograft of PANC-1 cells after administration of DH or not. E, AST (n=9); F, ALT (n=9,10) G. Determination of CREA concentrations in serum of nude mice with xenograft of PANC-1 cells after administration of DH or not. (n=9,10). H. HE staining of liver section from mice with or without DH treatment. Infiltration sites of Inflammatory cells (black arrow). Data was shown as mean \pm SD. Unpaired t-test was used. ** p < 0.01; *** p < 0.001.

Supplementary Table 1. The sequences of primers (SYBR) for RT-qPCR

Gene	Sequences(5'-3')	
18S	F: 5'-TCTTCATTGACCAAGGAAATCGG-3'	R: 5'- TCCGGGGTGCATTATCTCTAC-3'
MT-ATP6	F: 5'- ACCACAAGGCACACCTACAC-3'	R: 5'- TATTGCTAGGGTGGCGCTTC-3'
MT-CO1	F: 5'- ATACCAAACGCCCCTCTTCG-3'	R: 5'- TGTTGAGGTTGCGGTCTGTT-3'
МТ-СҮВ	F: 5'- AGCCAACCCCTTAAACACCC-3'	R: 5'- TGTTAGGGACGGATCGGAGA-3'
GSDMB	F: 5'- GAAACTCTGGAGACGGTAAAGG-3'	R: 5'- GATAGCTCAGGACCCGATTTG-3'
GSDME	F: 5'- AACTCCAGATCATTCCCACAC-3'	R: 5'- CTGCACAATCCCAAACCTTTC-3'

Fig2.C





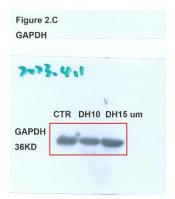
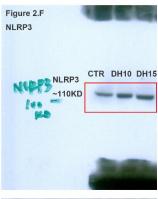
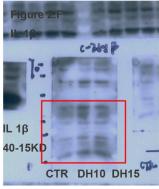
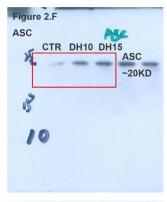


Fig2.F







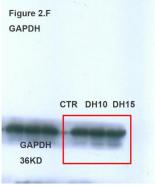
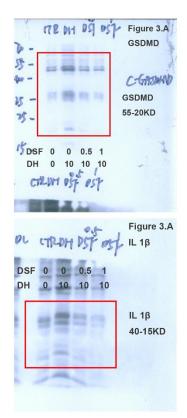


Fig3.A



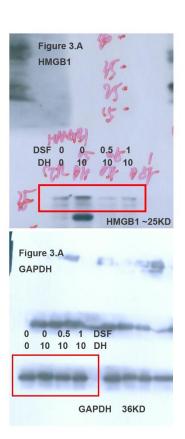
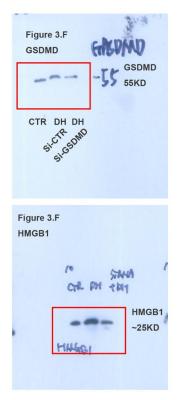


Fig3.F



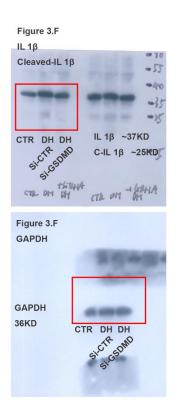


Fig5.C

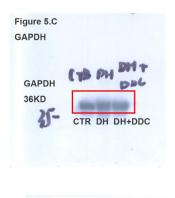
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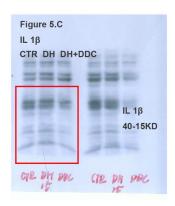
CTR DH DH+DDC

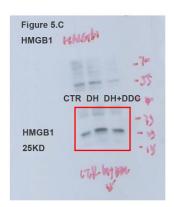
GSDMD

GSDMD

555-20KD







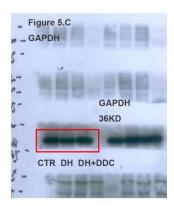
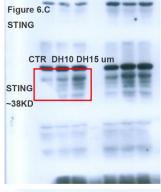
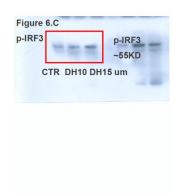
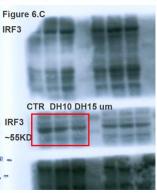


Fig6.C







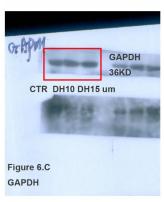
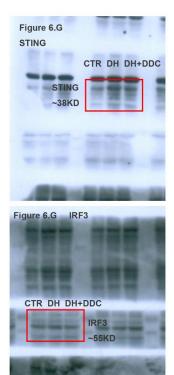


Fig6.G



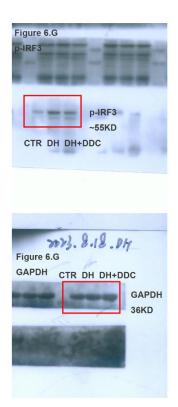
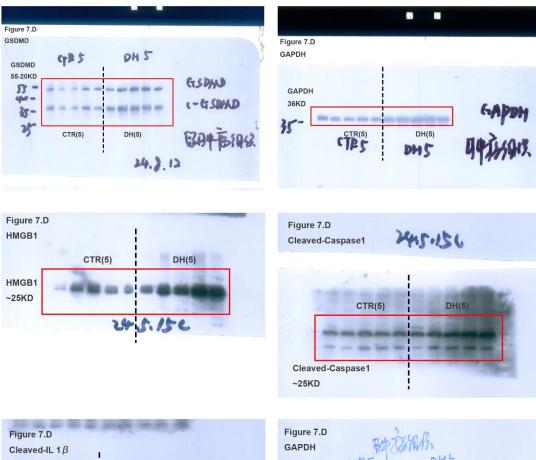
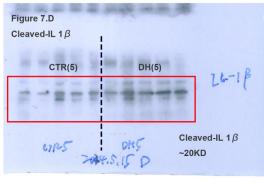
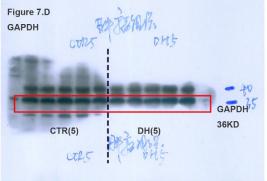


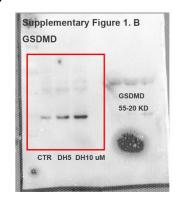
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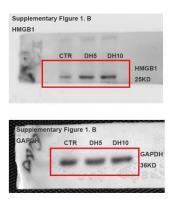




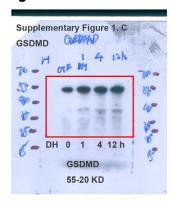


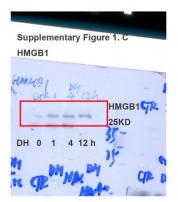
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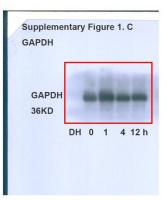




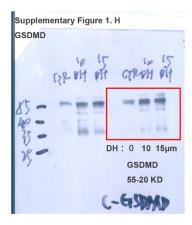
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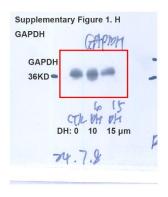




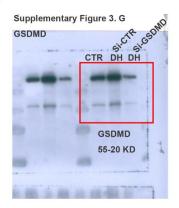


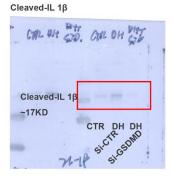
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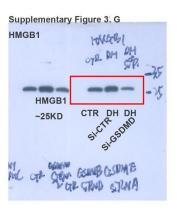


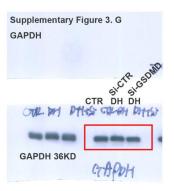
SFig3.G





Supplementary Figure 3. G





SFig3.L

