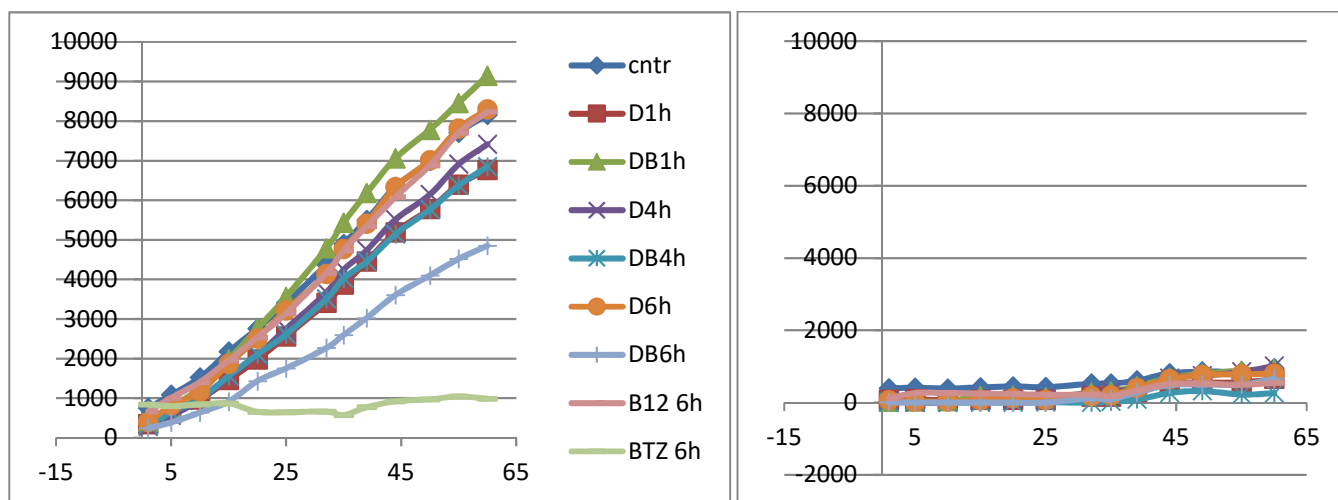
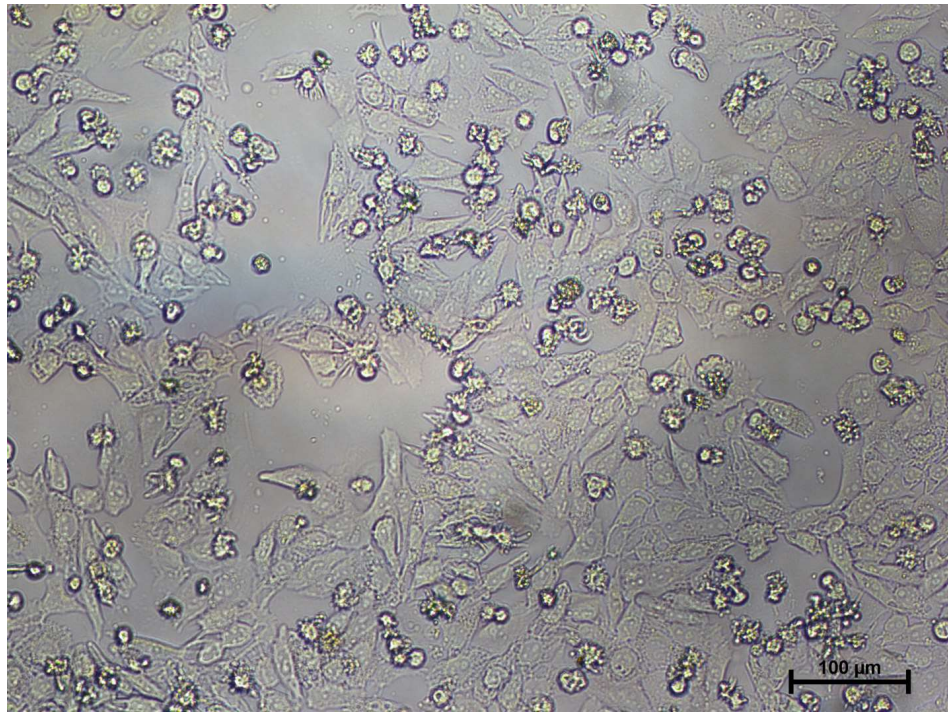


A



B

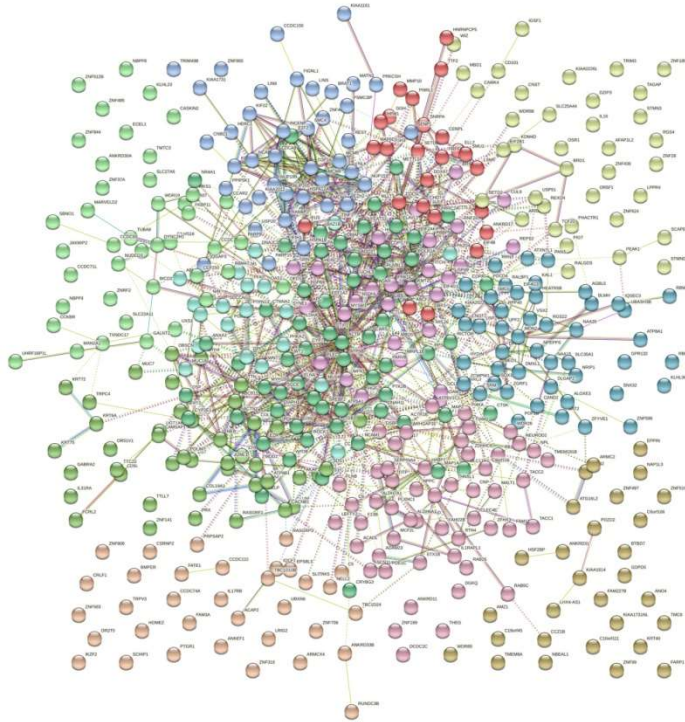
C



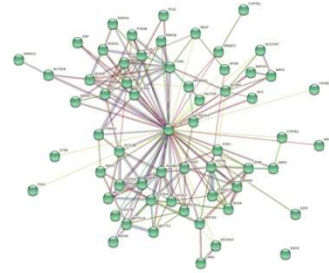
D

Supplementary Figure S1. DSFOxy impaire the UPS system of HEP-2 cells. (A) Decrease in monoubiquitin level, data of 3 independent experiments are given. (B) Estimation of 26S proteasome activity of HEP-2 cells during the initiation of their death by 1 mM DDC combined with 25 μ M B_{12b}. Data from one of 5 typical experiments are given. (C,D) Bortezomib (BTZ, 1 μ M) inhibits this reaction after its addition to the wells of 96-plate (C) and induces the vacuolization of HEP-2 cells after the 24 h of incubation (D).

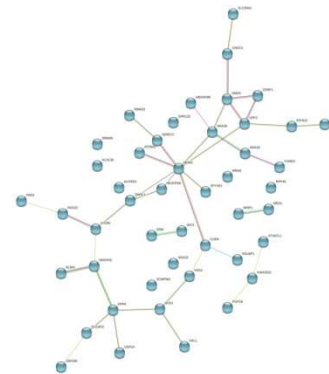
A. PPI enrichment (p-value 7.57×10^{-11})



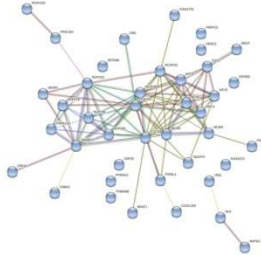
B. ACTB (p-value $< 10^{-16}$)



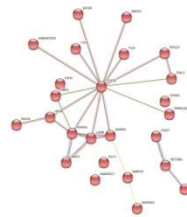
H. MON2 (p-value $< 10^{-16}$)



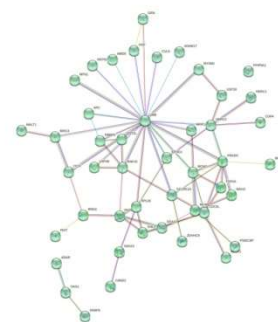
D. DNA&nucleus (p-value $< 10^{-16}$)



E. CDC5L (p-value 9.97×10^{-12})



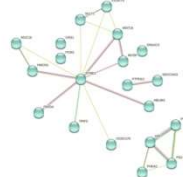
F. UBB (p-value 4.23×10^{-12})



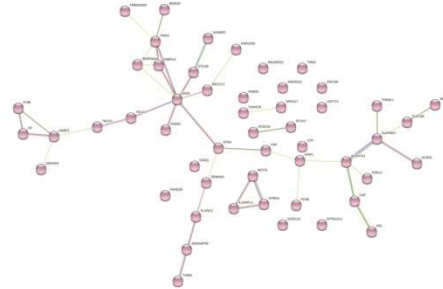
G. OFD1 (p-value $< 10^{-16}$)



C. SYNE1 (p-value $< 10^{-16}$)

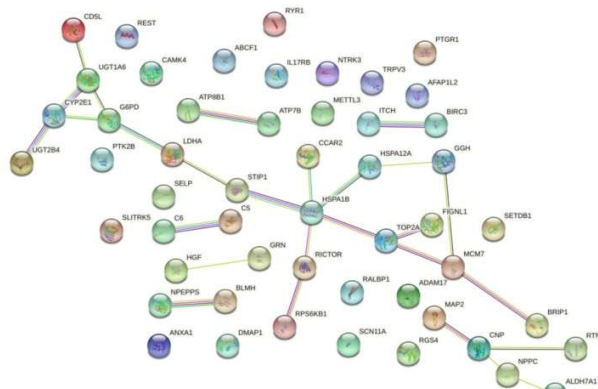


I. VAPA (p-value $< 10^{-16}$)

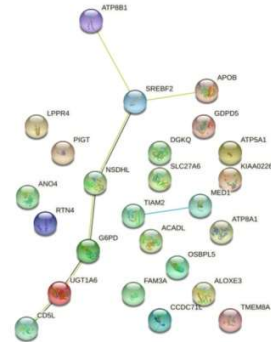


Supplementary Figure S2. PPI in protein clusters according to STRING data base.

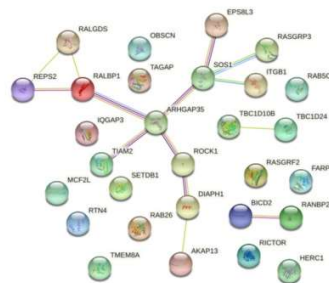
A. PPI enrichment (p-value 0.0443)
Response to stress



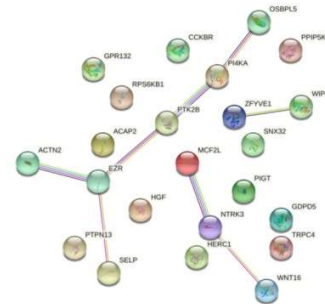
B. PPI enrichment (p-value 0.00368)
Lipid metabolism



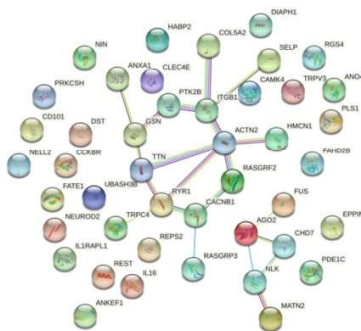
C. PPI enrichment (p-value 9.4×10^{-5})
Ras family



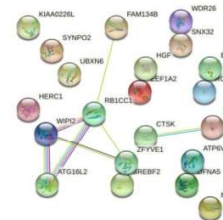
D. PPI enrichment (p-value 0.00513)
PI



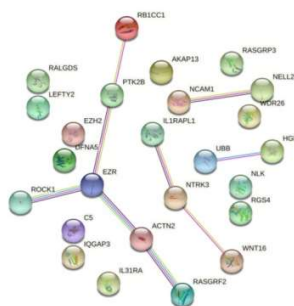
E. PPI enrichment (p-value 0.000325)
Ca metabolism



F. PPI enrichment (p-value 0.00722)
Autophagy



G. PPI enrichment (p-value 0.272)
MAPK cascade



H. PPI enrichment (p-value 0.066)
Transport of Na⁺, K⁺, and Cl⁻ ions

