

Supplementary File

Article

The survival of human intervertebral disc nucleus pulposus cells under oxidative stress relies on the autophagy triggered by delphinidin

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Supplementary Figures

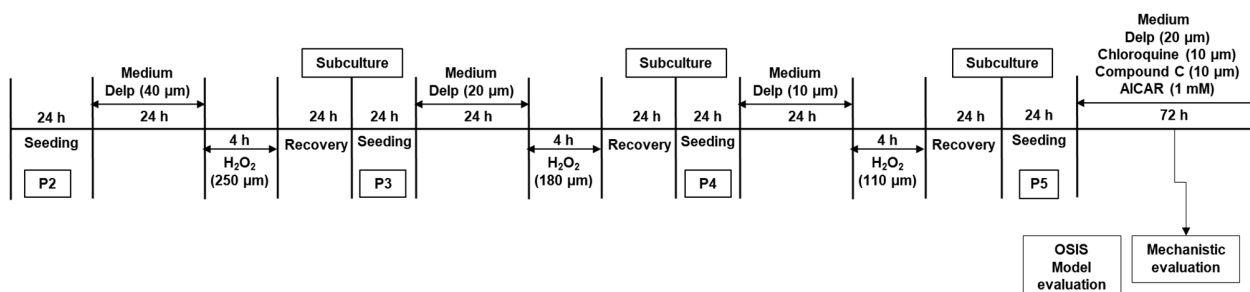


Figure S1: A flow diagram of the establishment of oxidative stress-induced senescence (OSIS). The hNPCs were cultured in NPCM with or without Delp, and then exposed to varying concentrations of H_2O_2 (250, followed by 185 and 110 μ M) across passages (P2 to P5). Senescence was confirmed through assays. The mechanistic evaluation involved culturing senescence cells with normal media or treatments such as Delp, chloroquine, AICAR, or compound C for 72 h.

Supplementary Tables

Table S1. List of antibodies used in western blot

Antibodies	Target	Host	Clonality	Dilution	Catalog #	Company
Primary antibody	COL2A1	Rabbit	Polyclonal	1:500	ABP0074	Abbkine
	Aggrecan	Mouse	Monoclonal	1:500	sc-33695	Santa Cruz
	MMP-13	Mouse	Monoclonal	1:500	sc-515284	Santa Cruz
	ADAMTS-5	Rabbit	Polyclonal	1:1000	ab182795	Abcam
	Cleaved caspase-3	Rabbit	Polyclonal	1:1000	9661	Cell Signaling
	Caspase-3	Rabbit	Polyclonal	1:500	9662	Cell Signaling
	Bcl-2	Mouse	Monoclonal	1:500	sc-7382	Santa Cruz
	p21	Mouse	Monoclonal	1:500	sc-6246	Santa Cruz
	p53	Mouse	Monoclonal	1:500	sc-126	Santa Cruz
	LC3-I/II	Rabbit	Monoclonal	1:1000	12741	Cell Signaling
	p62	Rabbit	Polyclonal	1:1000	5114	Cell Signaling
	Beclin-1	Rabbit	Monoclonal	1:1000	3495	Cell Signaling
	AMPK α	Rabbit	Polyclonal	1:1000	2532	Cell Signaling
	p-AMPK α (Thr172)	Rabbit	Monoclonal	1:2000	4188	Cell Signaling
	mTOR	Rabbit	Polyclonal	1:500	2972	Cell Signaling
	p-mTOR (Ser2448)	Rabbit	Polyclonal	1:500	2971	Cell Signaling
	SIRT1	Rabbit	Monoclonal	1:1000	9475	Cell Signaling
	β -actin	Mouse	Monoclonal	1:500	sc-47778	Santa Cruz
Secondary antibody	Mouse IgG	Goat	Polyclonal	1:10000	STAR117P	Bio-Rad
	Rabbit IgG	Goat	Polyclonal	1:10000	STAR208P	Bio-Rad