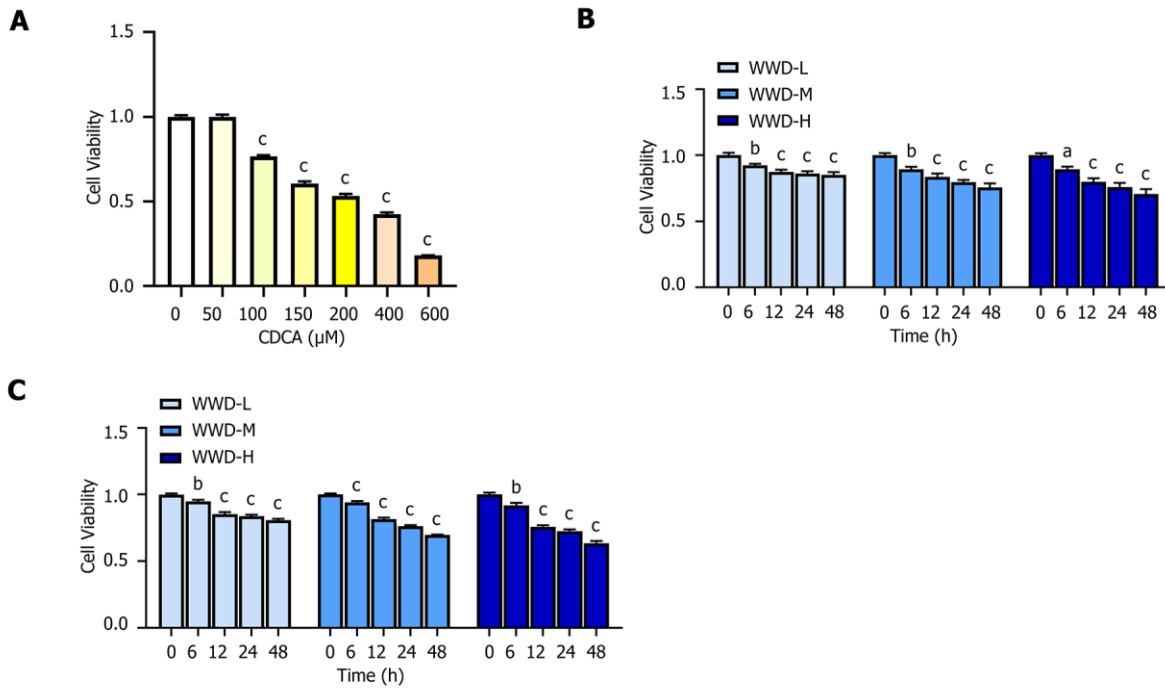


Supplementary materials



Supplementary Figure 1 A: CCK-8 detection of the GES-1 cell viability rates after treated with various concentrations of CDCA for 24 h ($n = 4-5$); B: Cell viability rate of CDCA-pre-treated GES-1 cells after incubated with 10% (V/V) of the corresponding WWD-medicated serum for various time ($n = 4-5$); C: Cell viability rate of AGS cells after incubated with 10% (V/V) of the corresponding WWD-medicated serum for various time ($n = 4-6$). ^a $P < 0.05$, ^b $P < 0.01$, ^c $P < 0.001$ vs control group.

Supplementary Table 1 The sequences of shRNAs

| Gene | Sequences (5'-3') |
|-------------|---|
| NC | Forward: GATCCGTTCTCCGAACGTGTCACGTAATTCAAGAGATTACGTGA CACGTTCCGGAGAATTTTTTC Reverse: AATTGAAAAAATTCTCCGAACGTGTCACGTAATCTCTTGAATTA CGTGACACGTTCCGGAGAACG |
| shOLFM4-1 | Forward: GATCCGCATCATGGAGAAGGATACCATTTCTCTCGAGAGAAAT GGTATCCTTCTCCATGATGTTTTTTG Reverse: AATTCAAAAACATCATGGAGAAGGATACCATTTCTCTCGAGA GAAATGGTATCCTTCTCCATGATGCG |
| shOLFM4-2 | Forward: GATCCGAAAGAGTGTGAGGCCTCTAAAGATCTCGAGATCTTTAG AGGCCTCACACTCTTTCTTTTTTG Reverse: AATTCAAAAAAGAAAGAGTGTGAGGCCTCTAAAGATCTCGAGA TCTTTAGAGGCCTCACACTCTTTTCG |
| shNOD1-1 | Forward: GATCCGTGGACAACCTTGCTGAAGAATCTCGAGATTCTTCAGCAA GTTGTCCACTTTTTTTG Reverse: AATTCAAAAAAGTGGACAACCTTGCTGAAGAATCTCGAGATTCTT CAGCAAGTTGTCCACG |
| shNOD1-2 | Forward: GATCCGAGCAACACTGGCATAACAGACTCGAGTCTGTTATGCC AGTGTTGCTCTTTTTTTG |

Reverse:

AATTCAAAAAAGAGCAACACTGGCATAACAGACTCGAGTCTGT
TATGCCAGTGTGCTCG

Supplementary Table 2 The sequences of RT-qPCR primers

| Species | Gene | Primer sequence (5'-3') |
|----------------------------------|-----------------------------------|-----------------------------------|
| Human | CDX2 | Forward: GTGCTATAAATGCCAGAGCCAACC |
| | | Reverse: CAACCCAAACAGCAGCAACAACA |
| | MUC2 | Forward: CTTGCGTCCATAACAACGACCT |
| | | Reverse: CCGTCAAAGTCGTAGTACTTCCC |
| | VIL1 | Forward: CTCCCAACCCTTAATAATGAGGC |
| | | Reverse: ACAGAATGGCAAACCAGTGTC |
| | TNF- α | Forward: GAAACAGTCTGCGAGGTGTG |
| | | Reverse: TTCTTCTTGCAGCCACACAC |
| IL-6 | Forward: ACTCACCTCTTCAGAACGAATTG | |
| | Reverse: CCATCTTTGGAAGGTTTCAGGTTG | |
| IL-8 | Forward: CCATCTTTGGAAGGTTTCAGGTTG | |
| | Reverse: CTCAGCCCTCTTCAAAAAC | |
| GAPDH | Forward: ACAGCAACAGGGTGGTGGAC | |
| | Reverse: TTTGAGGGTGCAGCGAACTTT | |
| Rat | OLFM4 | Forward: ACTGTGGGCAATTTATGCAACTGA |
| | | Reverse: GAAACAGATGGCTTGTACTGCTTG |
| | NOD1 | Forward: CTCACACCTCCACAGTGCAAG |
| | | Reverse: GCCTCCTCTGCTGTTTCGTTT |
| | CDX2 | Forward: TGGGGCTTCTTCATTCATGCTC |
| | | Reverse: CAGCTCCAAACAGAAATACAGTCT |
| | MUC2 | Forward: GCCACAGATCCCAAACCTCGAC |
| Reverse: AAGTTCAAACCTGCCAGATCCAT | | |
| VIL1 | Forward: ATCTTTGACTTCACTCAGGACGAC | |
| | Reverse: TTGGCGTGTTTCCCTATCCAG | |
| GAPDH | Forward: AGAAGGCTGGGGCTCATTG | |
| | Reverse: AGGGGCCATCCACAGTCTTC | |