

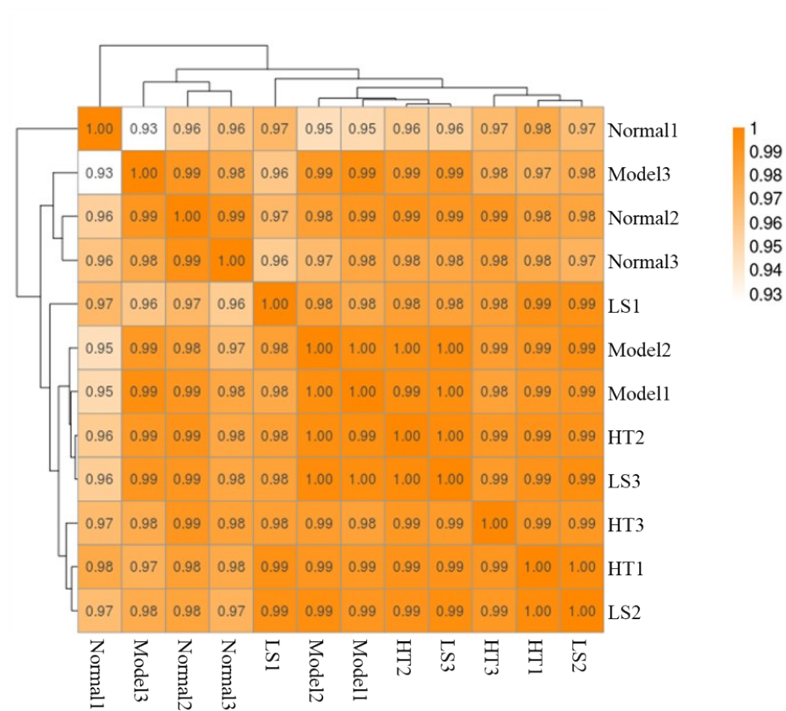


Figure S1 Results of inter-sample correlation analysis

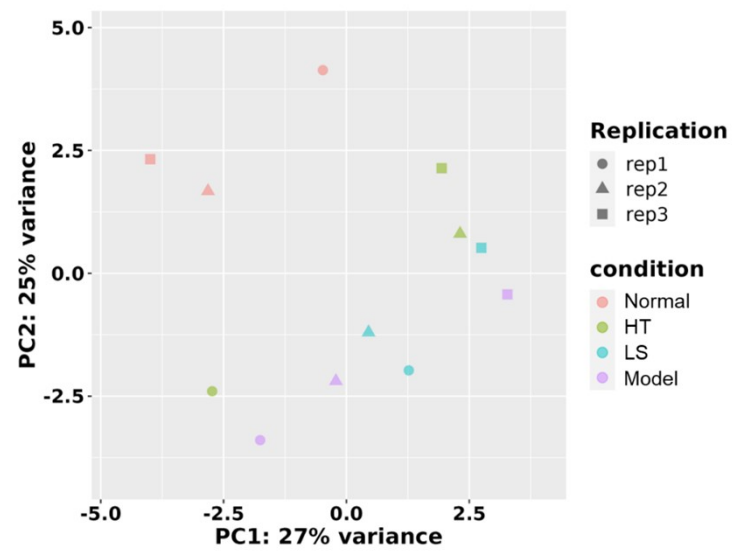


Figure S2 Results of PCA analysis

Table S1 Primer sequences for RT-qPCR

Gene name	Primers (5'-3')
Keap1	Forward CCCC GGGACTCTTATTGTGA
	Reverse TTAGGGGCCCCGCCAT
Nrf2	Forward ACTACAGTCCCAGCAGAGTGAT
	Reverse TCACACACTTTCTGCGTGCT
BDNF	Forward CTCCGGGTTGGTATACTGGG
	Reverse TCTCACCTGGTGGAAGTTCTTT
β -actin	Forward TGAAGGTCGGAGTCAACGG
	Reverse CCTGGAAGATGGTGATGGG
miR-12191-3p	Forward GCGCCCATGGAGCTGTAG
	Reverse AGTGCAGGGTCCGAGGTATT
miR-3102-3p.2-3p	Forward GCGCTCTACTCCCTGCCC
	Reverse AGTGCAGGGTCCGAGGTATT
miR-466f-3p	Forward GCGCGCATACACACACACAT
	Reverse AGTGCAGGGTCCGAGGTATT
miR-7664-3p	Forward CGCGTCTCTTAGGCTGGGTTA
	Reverse AGTGCAGGGTCCGAGGTATT
U6	Forward CTCGCTTCGGCAGCACA
	Reverse AACGCTTCACGAATTTGCGT

Table S2 Effects of different treatment groups on body weight changes in mice

Group	Initial weight (g)	Final weight (g)	Change rate (%)
Normal	22.39 ± 0.53	30.19 ± 0.82	34.14 ± 3.27 ***
Model	23.00 ± 0.86	25.96 ± 0.70 ###	12.92 ± 1.49 ###
DMSA	23.17 ± 1.54	27.12 ± 1.50	17.14 ± 2.27 ***
Na ₂ SeO ₃	22.43 ± 0.77	27.25 ± 1.56	21.41 ± 4.35 ***
LT	23.09 ± 0.99	27.57 ± 1.42	19.40 ± 2.21 ***
MT	22.90 ± 0.60	27.68 ± 1.06	20.87 ± 3.70 ***
HT	23.20 ± 1.05	28.41 ± 0.49 *	22.38 ± 4.58 ***
LS	22.61 ± 1.31	27.48 ± 1.12	21.71 ± 4.94 ***
MS	22.92 ± 0.99	27.40 ± 1.41	19.57 ± 4.52 ***
HS	23.29 ± 1.10	27.95 ± 1.17	20.12 ± 4.22 ***

Note: ### $P < 0.001$ vs. Normal group; * $P < 0.05$, *** $P < 0.001$ vs. Model group.

Table S3 Expression difference analysis result statistics

Control vs. Case	Up-regulation	Down-regulation	Total
Normal vs. Model	18	8	26
Normal vs. HT	8	6	14
Normal vs. LS	5	7	12
Model vs. HT	4	6	10
Model vs. LS	4	3	7
HT vs. LS	0	3	3