

Figure S1. Cell viability assay results were not significantly different among the NG, OP, and HG groups. N.S. means statistically not significant.

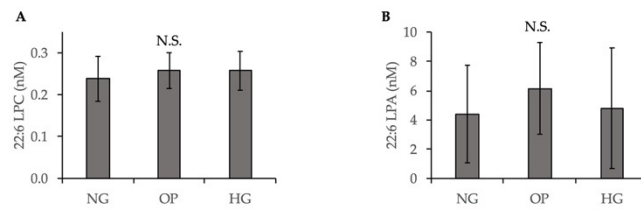


Figure S2. The LPC level 22:6 (A) and the LPA level 22:6 (B) did not differ significantly between the NG and HG groups.

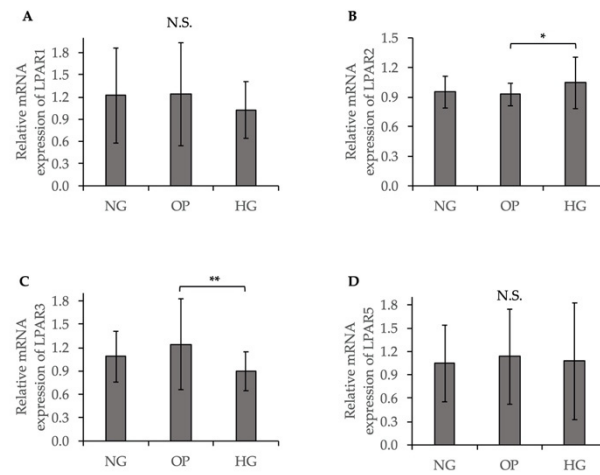


Figure S3. LPAR expression induced by HG in ARPE-19 cells. qRT-PCR quantification of (A) LPAR1, (B) LPAR2, (C) LPAR3, and (D) LPAR5 mRNA expression levels relative to that of GAPDH. * $p < 0.05$ and ** $p < 0.01$ (ANOVA followed by Tukey's multiple comparison test).

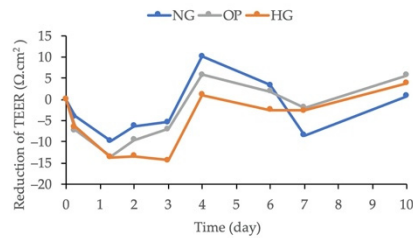


Figure S4. Changes in TEER value at 6, 32, 48, and 72 h and at 4, 6, 7, and 10 days after treatment with NG, OP, and HG media.

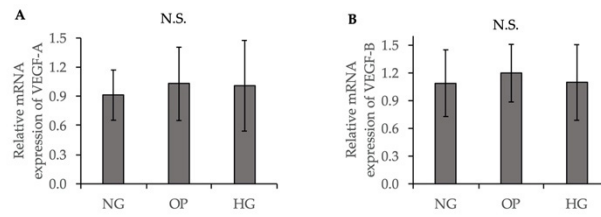


Figure S5. Effects of HG on VEGF expression in ARPE-19 cells. (A) qRT-PCR quantification of (A) VEGF-A and (B) VEGF-B mRNA expression levels relative to that of GAPDH.

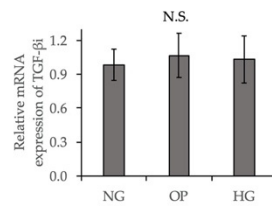


Figure S6. TGF- β i expression induced by HG in ARPE-19 cells. qRT-PCR quantification of TGF- β i mRNA expression relative to that of GAPDH.

Table S1. Primer sequences used for qRT-PCR.

Primers	Forward 5'-3'	Reverse 5'-3'
GAPDH	AATCCATGGCACCGTCAAG	ATCGCCCCACTTGATTTTGG
ATX	ACAACGAGGAGAGCTGCAAT	AGAAGTCCAGGCTGGTGAGA
COL1A1	CAGCCGCTTCACCTACAGC	TTTTGTATTCAATCACTGTCTTGCC
α -SMA	TTGTCCACCGCAAATGCTTC	AGGTAACGAGTCAGAGCTTTGG
VEGF-A	TTCTGCTGTCTTGGGTGCAT	ATTCTGCCCTCCTCCTTCTG
VEGF-B	CAGTGCTGTGAAGCCAGACA	GGAGTGGGATGGGTGATGT
VEGFR-1	ACTCCCACACTAGGCACAC	TGAGAAGTAGGCATCTGTACTG
VEGFR-2	ACAGCCTTTTGTGTCAGTGC	TTCAGGCACCTATGCCTGCAC
TGF- β 1	CCCAGCATCTGCAAAGCTC	GTCAATGTACAGCTGCCGCA
TGF- β 2	TGCCGCCCTTCTTCCCCTC	GGAGCACAAGCTGCCCCTGA
TGF- β 3	GGTTTTCCGCTTCAATGTGT	TATAGCGCTGTTTGGCAATG
TGF- β i	GTCCACAGCCATTGACCTTT	GAGTTTCCAGGGTCTGTCCA