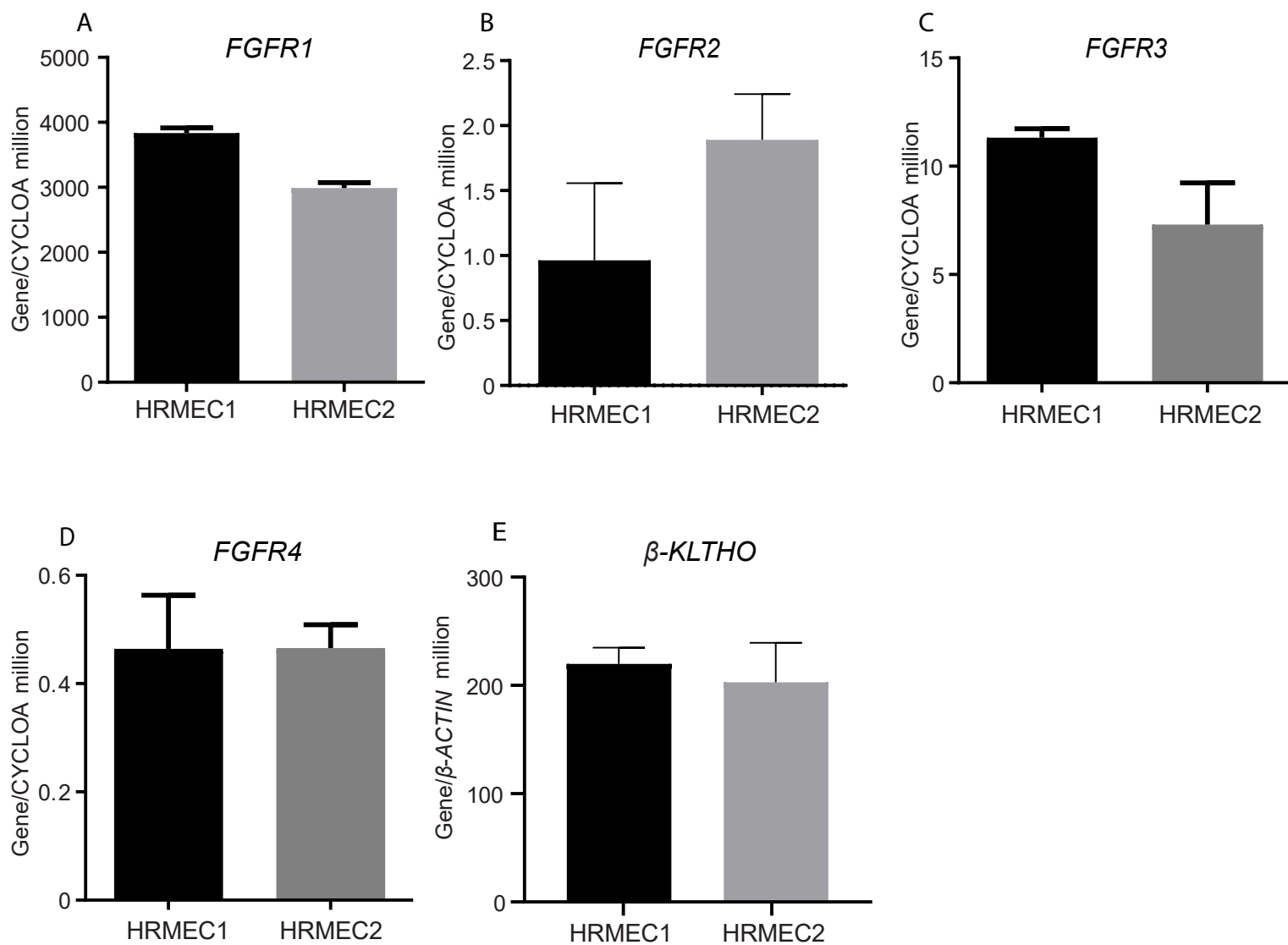


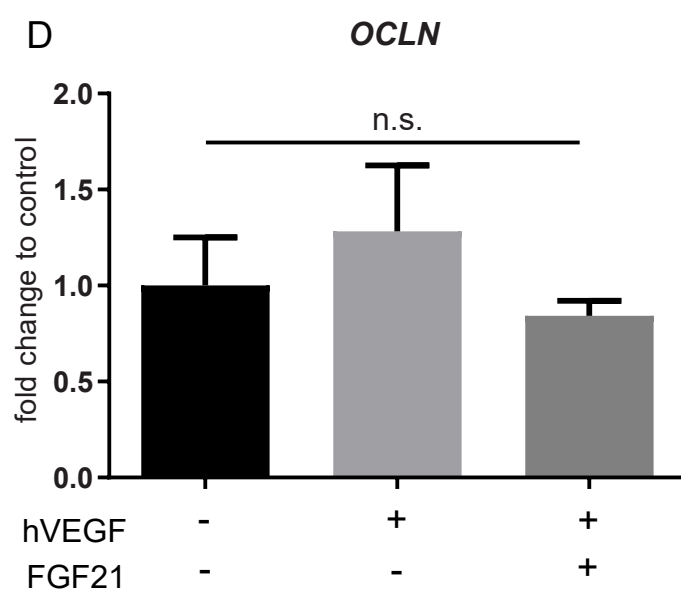
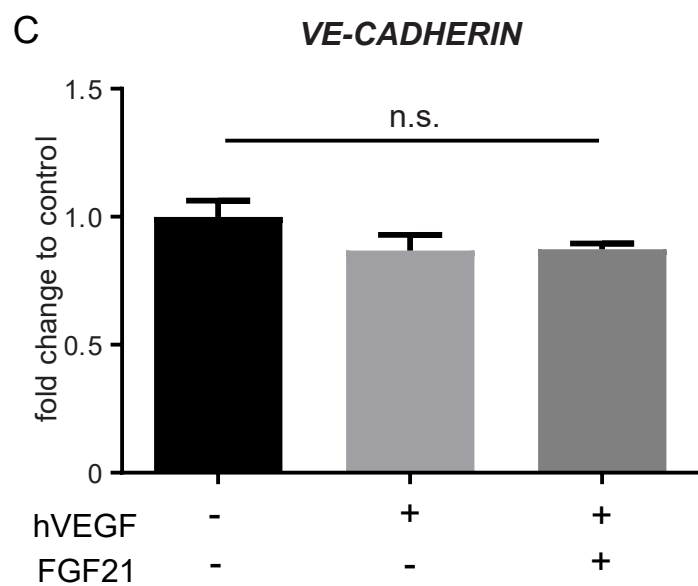
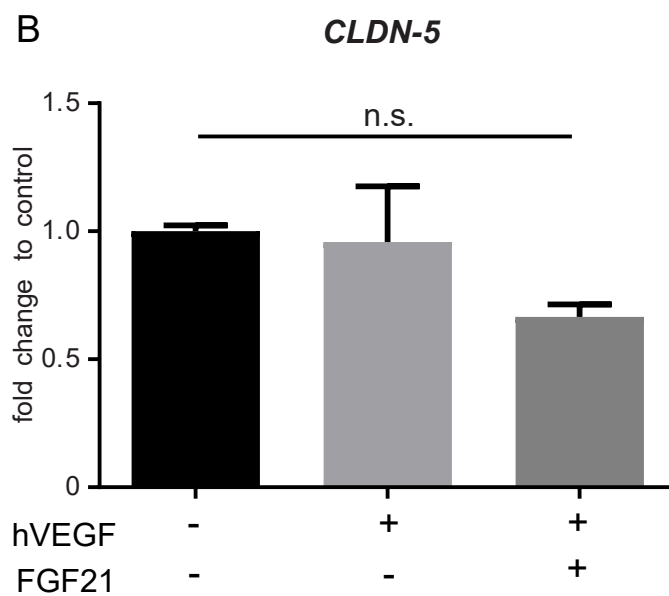
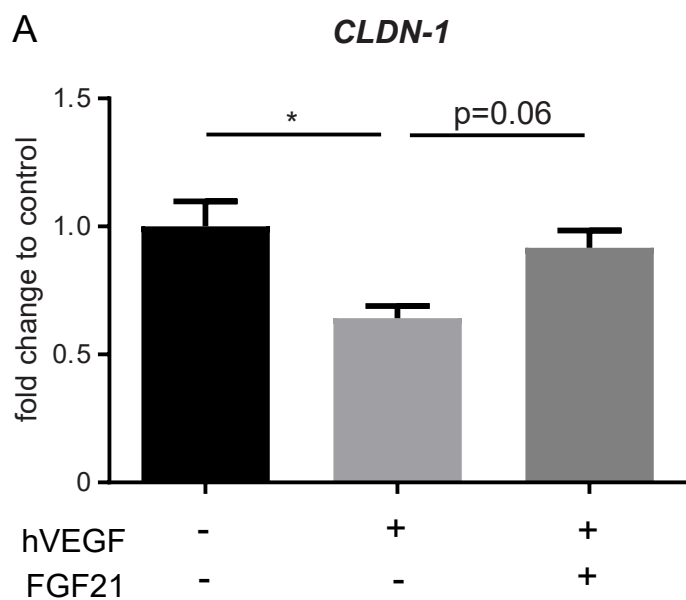
Supplemental figure 1. The mRNA level of crucial receptors of FGF21

Level of mRNA expression of *FGFR1*(A), *FGFR2* (B), *FGFR3* (C), *FGFR4* (D), and β -*KLOTHO* (E) in human (h) VEGF-treated primary human retinal microvascular endothelial cells (HRMECs).

Supplemental figure 2. FGF21 preserves *CLDN-1* mRNA expression in HRMEC

qRT-PCR analysis of effect of FGF21 on *CLDN1* (A), *CLDN5* (B), *VE-CADHERIN* (C), and *OCN* (D) in the HRMECs. Samples were collected 6 hours after hVEGF induction. n.s., not significant. Fold change was calculated (n = 6, * $p < 0.05$).





22 **Supplemental table 1.**

23 **Primers list for RT-PCR**

<i>Gene</i>	<i>Primers</i>
<i>18S-F</i>	5'-ACGGAAGGGCACCACCAGGA -3'
<i>18S-R</i>	5'- CACCACCACCCACGGAATCG-3'
<i>CLDN-1-F</i>	5'- GCATGAAGTGTATGAAGTGCTTGGA-3'
<i>CLDN -1-R</i>	5'- CGATTCTATTGCCATACCATGCTG-3'
<i>CLDN -5-F</i>	5'- CTCTGCTGGTTCGCCAACA-3'
<i>CLDN -5-R</i>	5'- CCCAGCTCGTACTTCTGTGACA-3'
<i>VE-CADHERIN-F</i>	5'- TTGGAACCAGATGCACATTGAT-3'
<i>VE-CADHERIN-R</i>	5'- TCTTGCGACTCACGCTTGAC -3'
<i>OCN-F</i>	5'- ACAAGCGGTTTTATCCAGAGTC-3'
<i>OCN-R</i>	5'- GTCATCCACAGGCGAAGTTAAT-3'
<i>FGFR1-F</i>	5'- CCCGTAGCTCCATATTGGACA-3'
<i>FGFR1-R</i>	5'- TTTGCCATTTTTCAACCAGCG-3'
<i>FGFR2-F</i>	5'- AGCACCATACTGGACCAACAC-3'
<i>FGFR2-R</i>	5'- GGCAGCGAAACTTGACAGTG-3'
<i>FGFR3-F</i>	5'- CCCAAATGGGAGCTGTCTCG-3'
<i>FGFR3-R</i>	5'- CCCGGTCCTTGTCAATGCC-3'
<i>FGFR4-F</i>	5'- CCATAGGGACCCCTCGAATAG-3'
<i>FGFR4-R</i>	5'- CAGCGGAACTTGACGGTGT-3'

<i>β-KLOTHO-F</i>	5'- TTCTGGGGTATTGGGACTGGA-3'
<i>β-KLOTHO-R</i>	5'- CCATTCGTGCTGCTGACATTTT-3'
<i>CYCLOPHILIN-A-F</i>	5'-CCCACCGTGTTCTTCGACATT-3'
<i>CYCLOPHILIN-A-R</i>	5'-GGACCCGTATGCTTTAGGATGA-3'
<i>β-ACTIN-F</i>	5'- AGAGCTACGAGCTGCCTGAC-3'
<i>β-ACTIN-R</i>	5'- AGCACTGTGTTGGCGTACAG-3'

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