SUPPLEMENTAL MATERIAL

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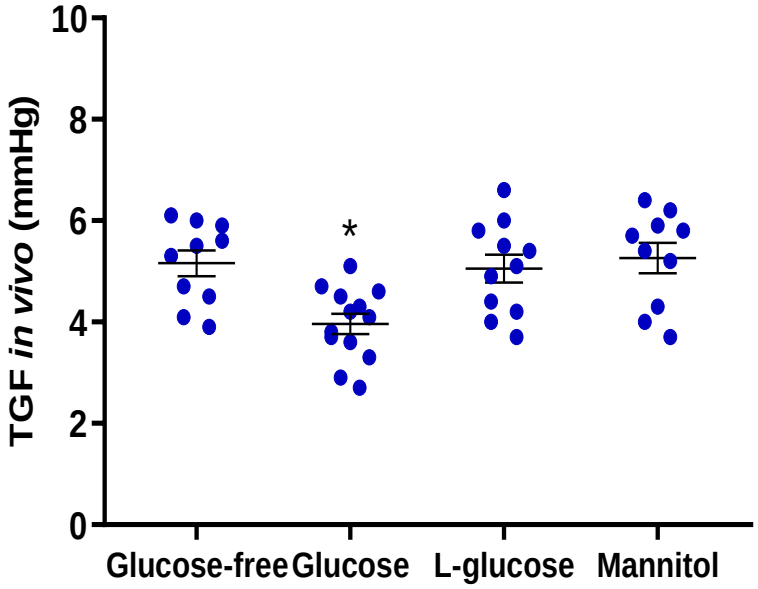
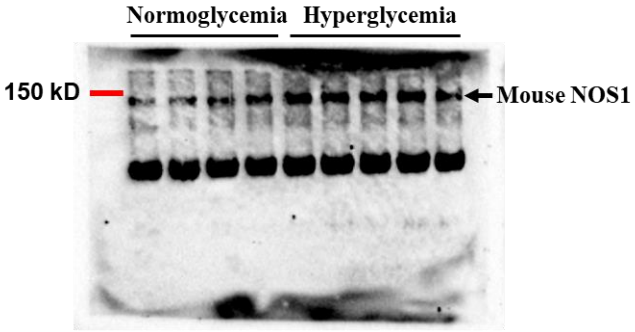
Supplemental Figure S1



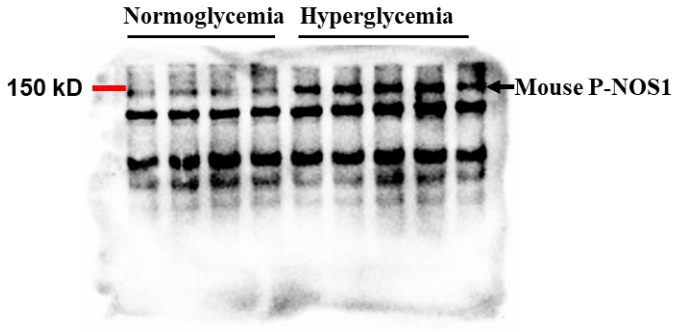
To avoid any systematic error introduced by consecutive measurements of ΔP_{sf} in the same nephron, TGF response *in vivo* was also assessed directly under high glucose condition. The ΔP_{sf} measured with ATF containing 16.7 mM glucose was significantly lower than the control measurements with glucose-free ATF, ATF containing 16.7 mM L-glucose or ATF containing 16.7 mM mannitol. n=3-5 mice/10-13 tubules. *p<0.05 vs glucose-free ATF. Statistical difference was calculated by one-way ANOVA.

Supplemental Figure S2

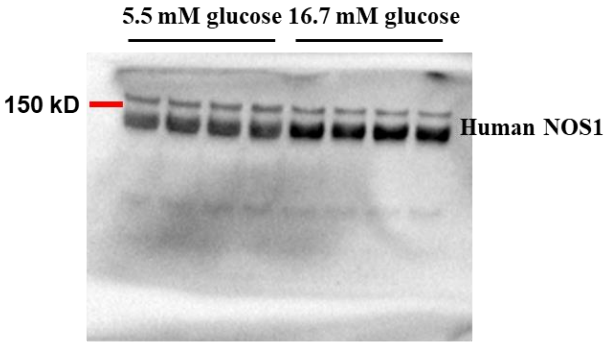
A.



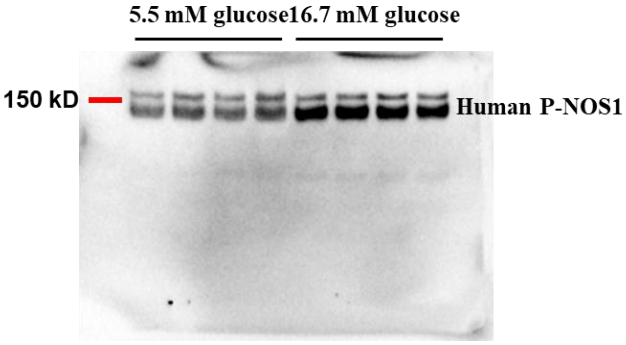
B.



C.



D.



The complete gels for the Western blot of NOS1 and P-NOS1 in the mouse renal cortex (A and B) and human kidney biopsy (C and D).