

SUPPLEMENTAL MATERIAL

Supplemental Tables:

Table I: Sequence of the primers used for the quantitative real time RT-PCR.

Gene	Sequence
Mouse α_{1D} -adrenergic receptor F Mouse α_{1D} -adrenergic receptor R	GCTGGTCCCCTTTTCTTC ATTGAAGTAGCCCAGCCAGA
Mouse α_{1B} -adrenergic receptor F Mouse α_{1B} -adrenergic receptor R	AACCTTGGGCATTGTAGTCG AGGCAGCTGTTGAAGTAGCC
Mouse α_{1A} -adrenergic receptor R Mouse α_{1A} -adrenergic receptor F	CTGCCATTCTTCCTCGTGAT GGCTGGAGCATGGGTATATG
Mouse GAPDH F Mouse GAPDH R	AACTTTGGCATTGTGGAAGG GGATGCAGGGATGATGTTCT

Supplemental Figures:

Figure I

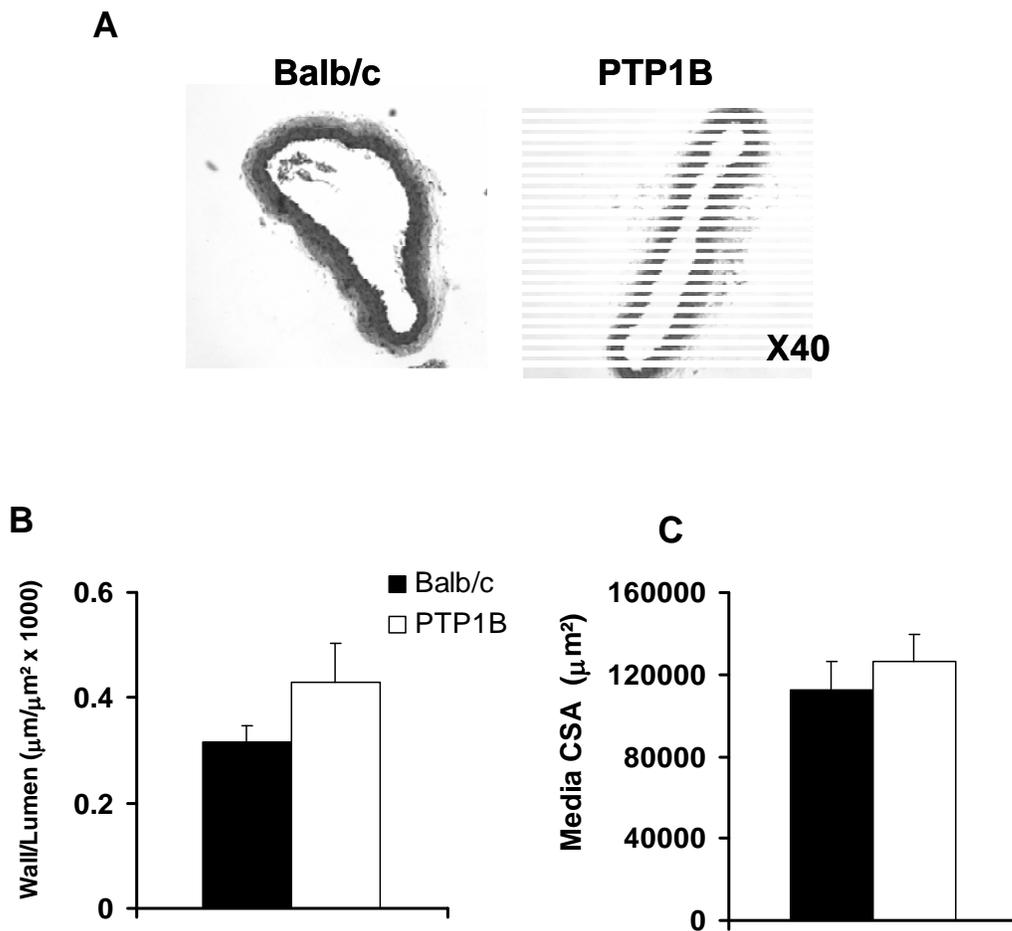
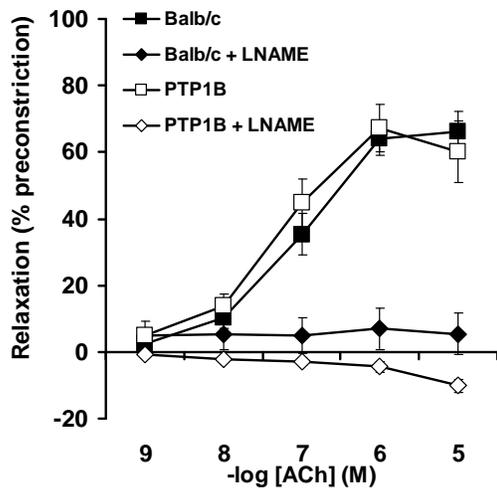


Figure II

A



B

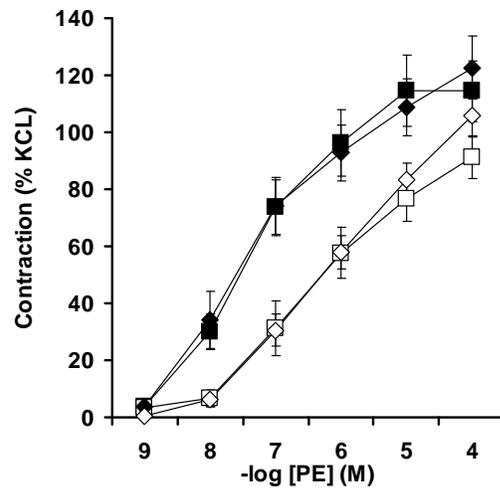


Figure III

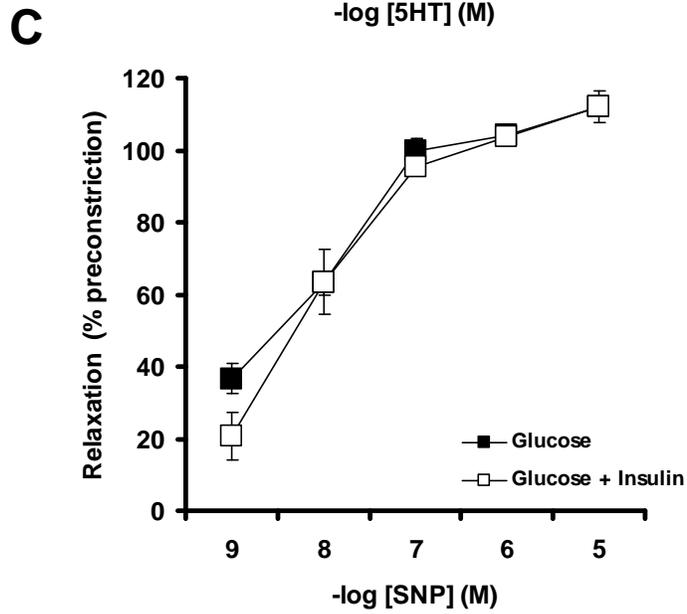
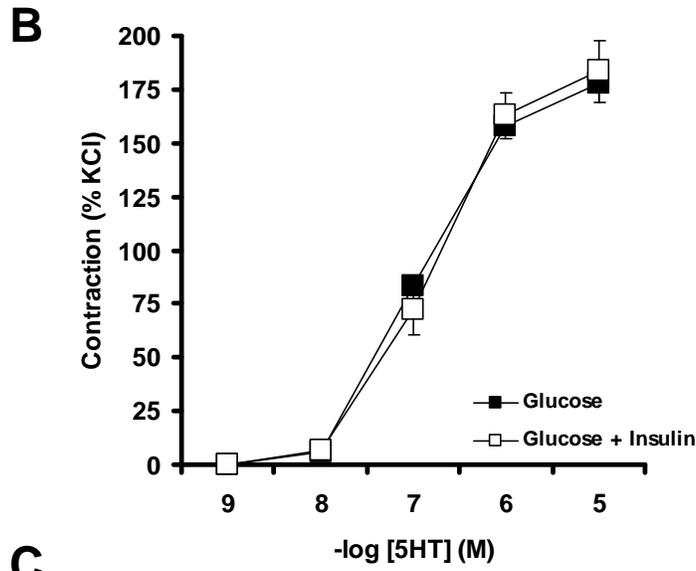
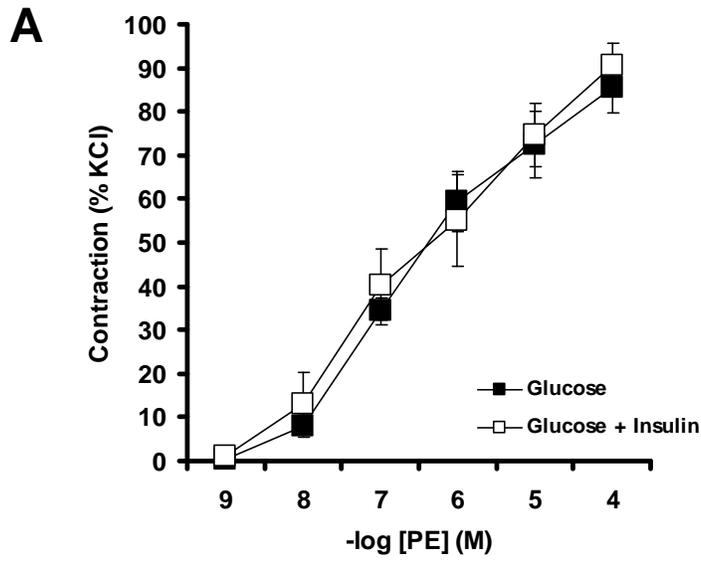
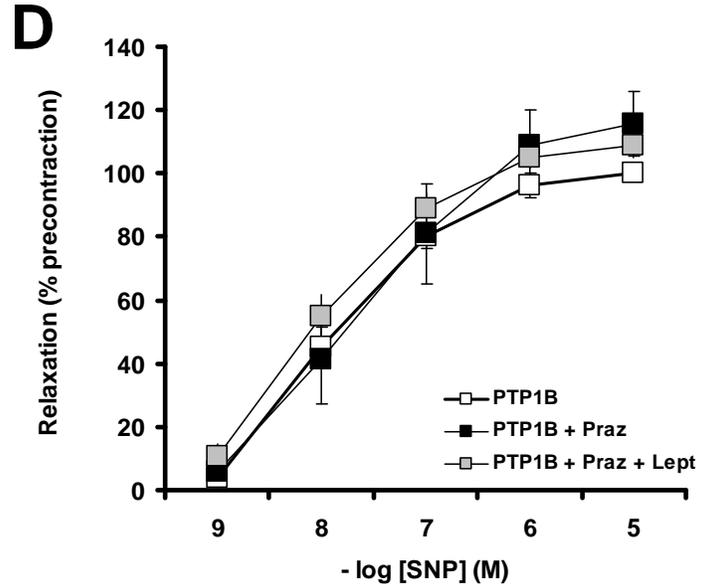
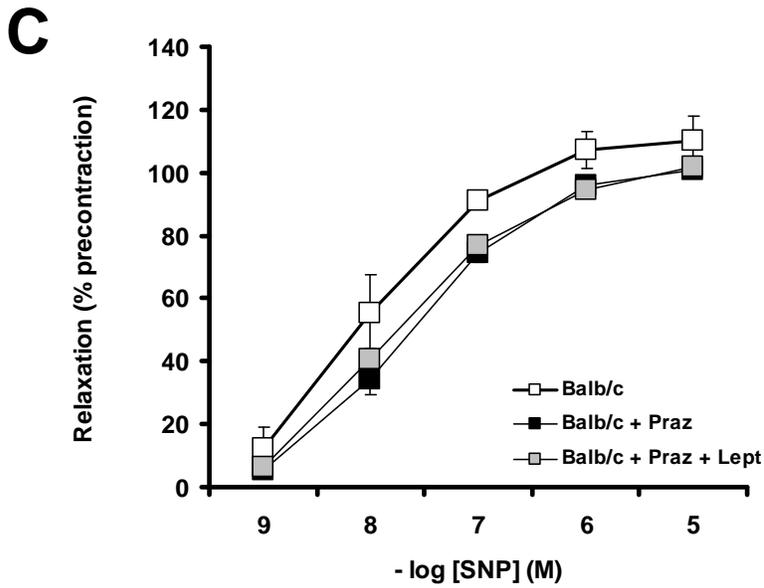
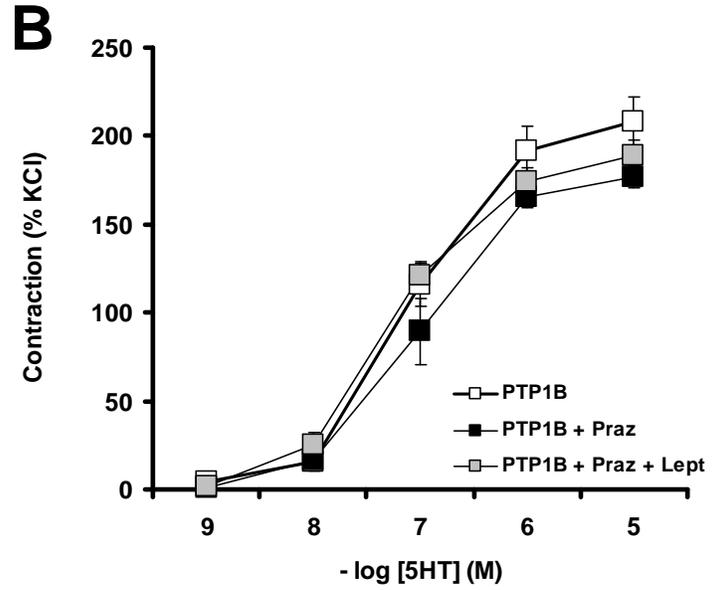
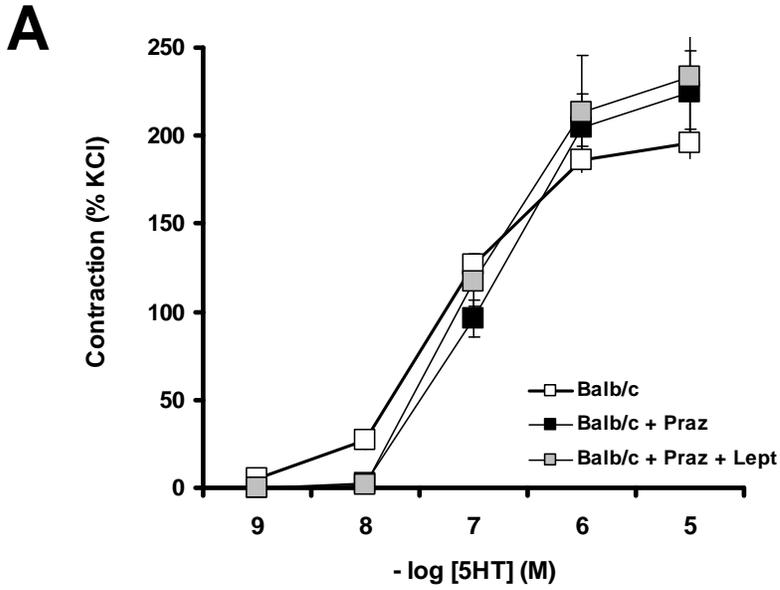


Figure IV



Supplemental Legends:

Figure I: PTP1B deletion did not affect vascular structure. A) Representative pictures of aortic sections. B) Wall to lumen ration and C) quantification of the media cross sectional area in the Balb/c (n=5) and PTP1B KO mice (n=6). Data are presented as mean \pm sem.

Figure II: PTP1B deletion did not impair endothelial function. A) Cumulative concentration response curve to Acetylcholine (ACh) performed in the presence or absence of eNOS inhibitor (L-NAME, 10 mM). B) Cumulative concentration response curve to phenylephrine (PE) performed in the presence or absence of eNOS inhibitor (L-NAME, 10 mM). Data are presented as mean \pm sem. n= 8-10 per group.

Figure III: Chronic insulin treatment in PTP1B KO mice did not affect the vascular reactivity. Cumulative concentration response curve to (A) PE, (B) 5HT and (C) SNP, performed in PTP1B KO mice treated with glucose or with glucose + leptin. Data are presented as mean \pm sem.

Figure IV: Chronic sympatho-inhibition did not affect vascular reactivity to serotonin and sodium Nitroprusside. Cumulative concentration response curve to 5HT (A, in Balb/c and B, in PTP1B KO mice) and SNP (C, in Balb/c and D, in PTP1B KO mice), in mice treated with prazosin and prazosin + leptin. Data are presented as mean \pm sem.