SUPPLEMENTARY INFORMATION

Lysyl oxidase (LOX) limits VSMC proliferation and neointimal thickening through its extracellular enzymatic activity

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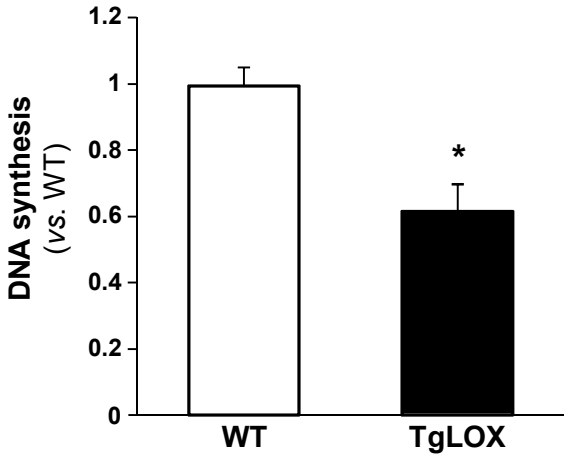
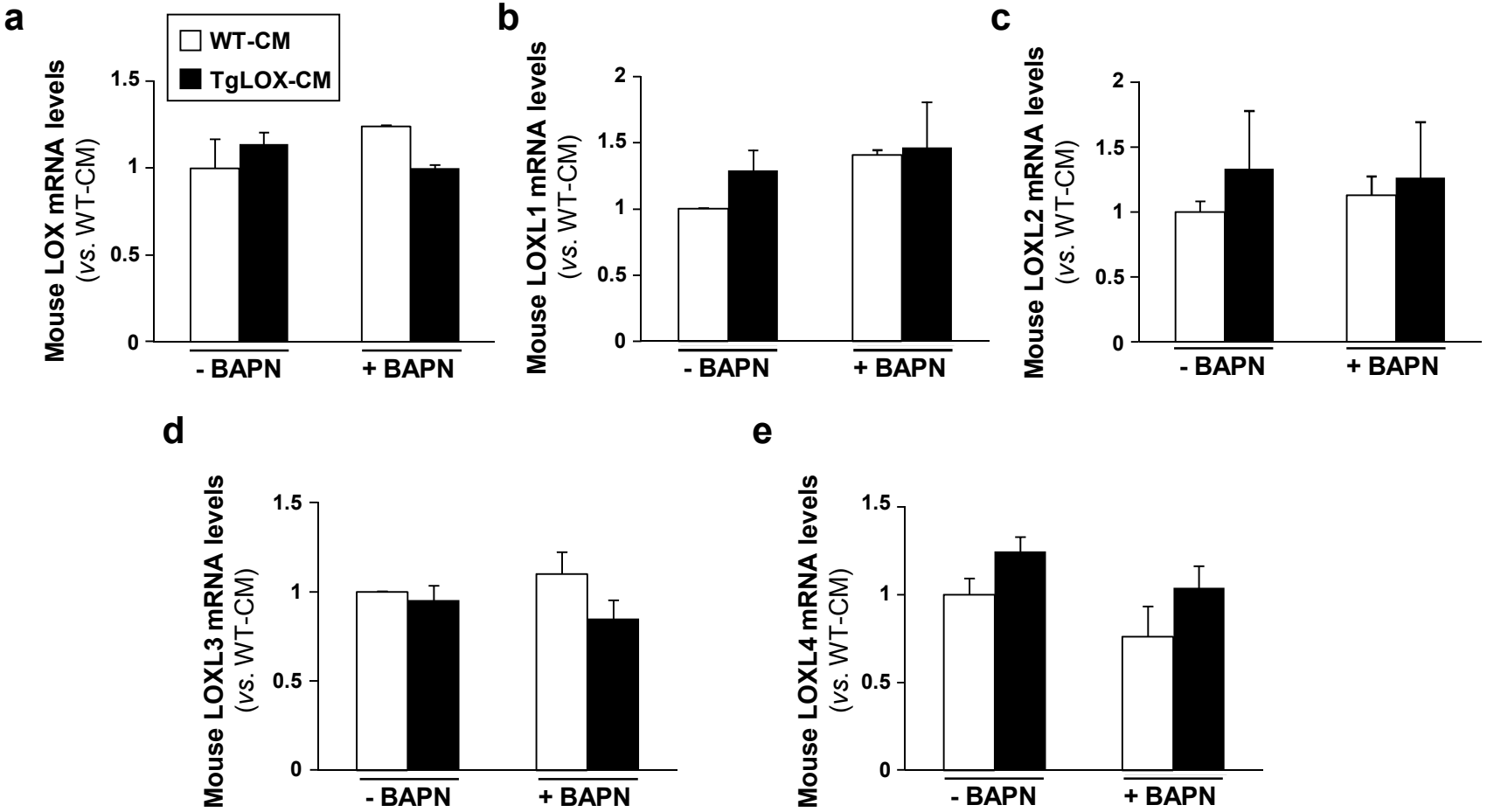
Supplementary Figure S1



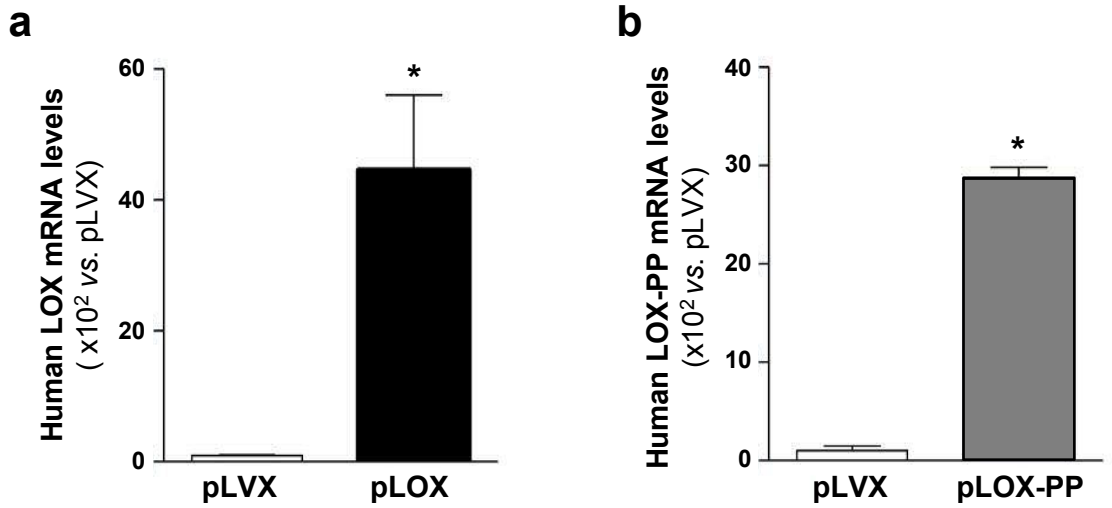
Supplementary Fig. S1. LOX transgenesis reduces VSMC proliferative rates. A. Aortic VSMC isolated from wild type mice (WT; white bars) or TgLOX mice (black bars) were serum-starved for 24 h and then stimulated with 20% FCS. Cell proliferation was analyzed by the [^{3}H]-thymidine incorporation method. Results are represented as mean ± SD. *P<0.01 *vs.* WT cells (Mann–Whitney test; n=5).

Supplementary Figure S2



Supplementary Fig. S2. BAPN did not alter the endogenous expression of LOX and LOXL isoenzymes. Aortic VSMC isolated from wild type mice (WT) were serum-starved for 24 h and then exposed to conditioned media from transgenic VSMC (TgLOX-CM; black bars) or wild-type cells (WT-CM; white bars) treated or not with BAPN. LOX **(a)** and LOXLs **(b-e)** mRNA levels were analyzed by real-time PCR. Results are represented as mean ± SD (Two-way ANOVA; n=4).

Supplementary Figure S3



Supplementary Fig. S3. Over-expression of LOX and LOX-PP in VSMC by lentiviral transduction. Human VSMC were transduced with the control lentiviral vector pLVX, pLVX/LOX (pLOX) or pLVX/LOX-PP (pLOX-PP). LOX **(a)** and LOX-PP **(b)** over-expression was verified by real-time PCR. Results are represented as mean ± SD. *P<0.01 vs. pLVX transduced cells (Mann–Whitney test; n=5).