

Figure S1

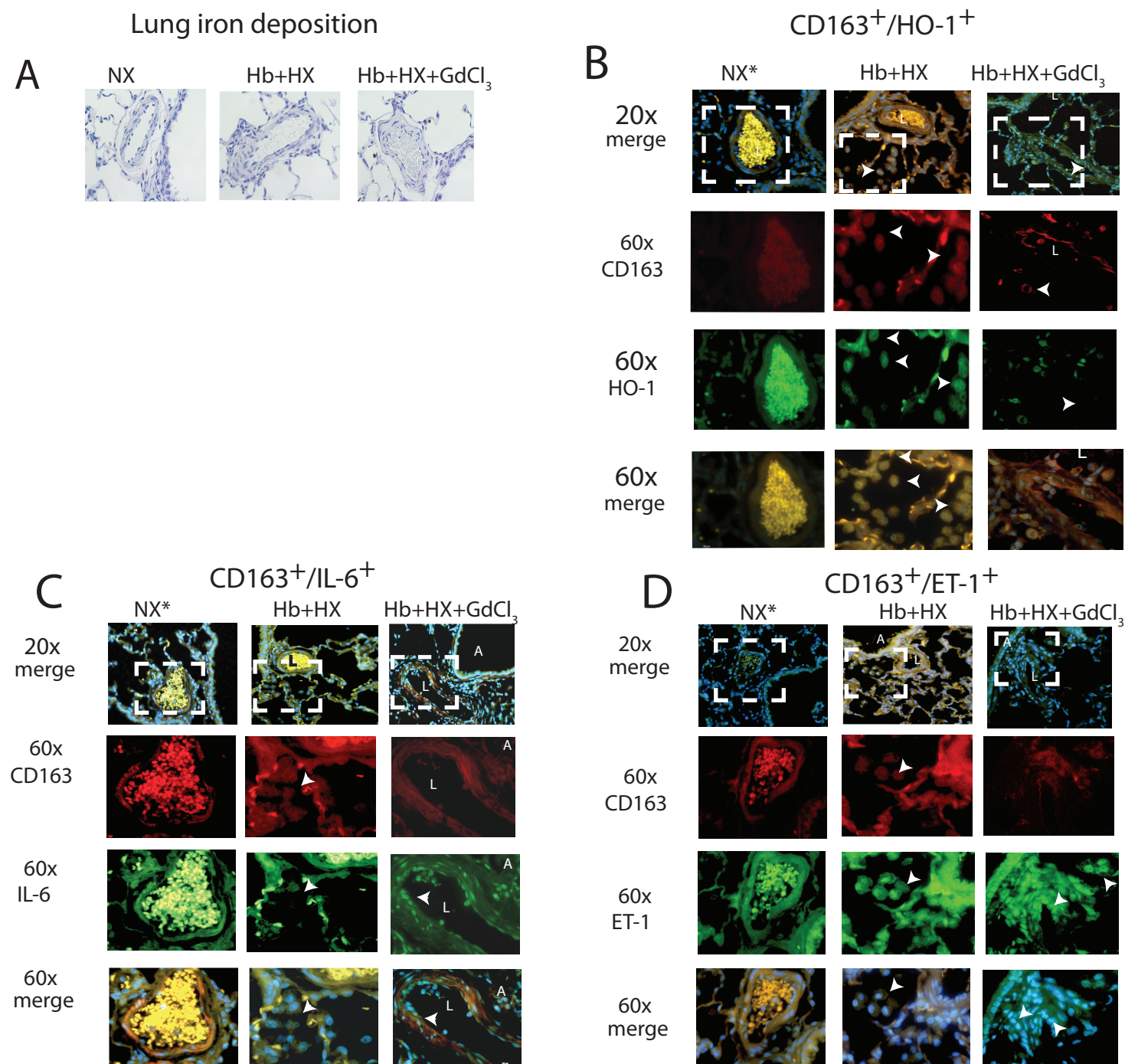


Figure S1. Microscopic examination of pulmonary perivascular macrophages at day 18. Representative microphotographs of vascular expression of: **(A)** non-heme iron visualization. **(B)** Pulmonary perivascular and alveolar cells co-expressing CD163 (red) and HO-1 (green). **(C)** Perivascular and alveolar cells co-expressing CD163 (red) and IL-6 (green). **(D)** Perivascular and alveolar cells co-expressing CD163 (red) and ET-1 (green). * representative NX ctrl microphotographs are the same used for comparisons in Fig 3 and 4 main text.

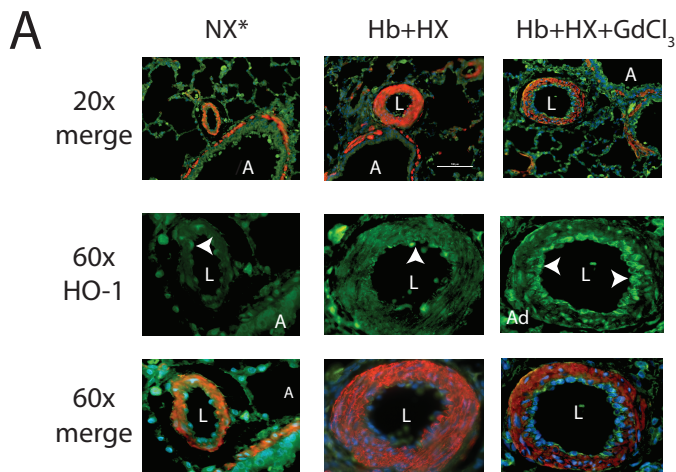
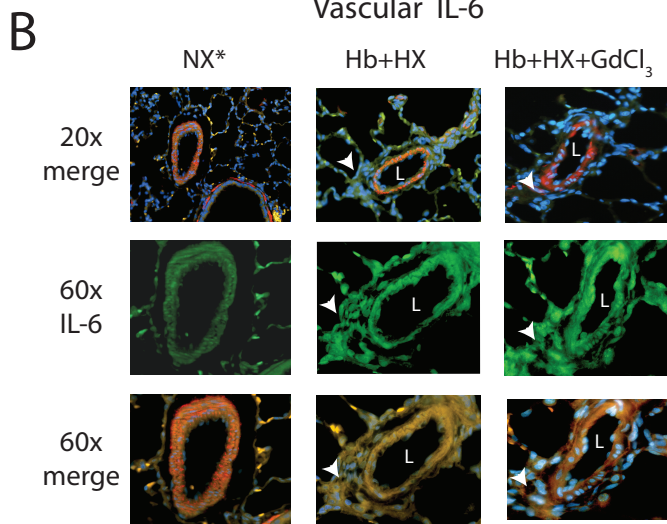
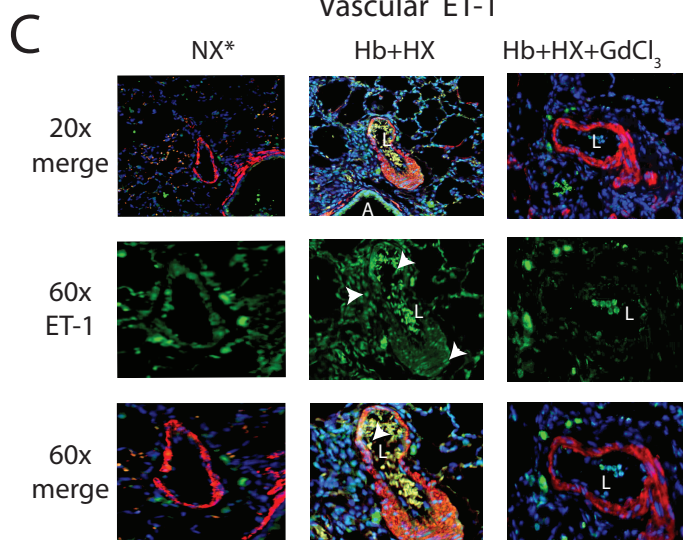
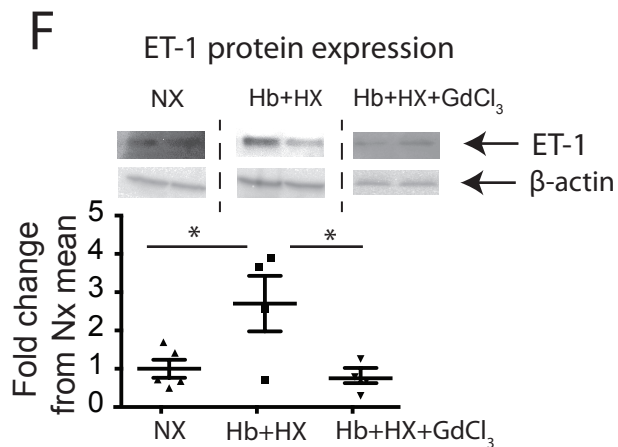
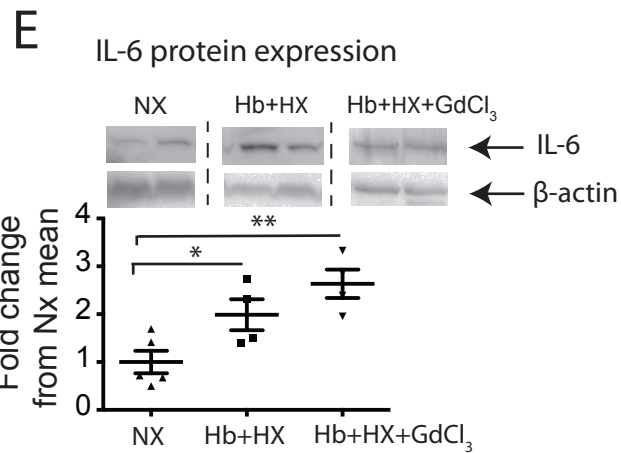
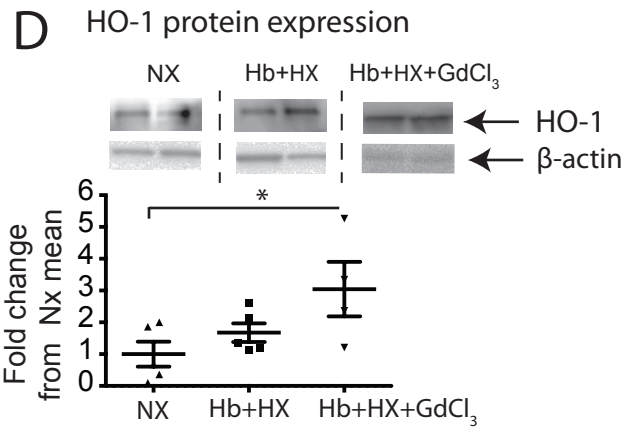
FIGURE S2**Vascular HO-1****Vascular IL-6****Vascular ET-1****whole lung protein expression**

Figure S2. Microscopic examination and protein analysis of pulmonary HO-1, IL-6 and ET-1 at day 18. Representative microphotographs of vascular expression of: **(A)** HO-1 (green) and smooth muscle actin (red). **(B)** IL-6 (green) and smooth muscle acting (red). **(C)** ET-1 (green) and smooth muscle acting (red). Whole lung protein quantification of: **(D)** HO-1. **(E)** IL-6. **(F)** ET-1. Protein quantification was completed from 18 day lung tissue (n=4-5) samples from NX, Hb+HX, and Hb+HX+GdCl₃ treated rats. * representative NX ctrl microphotographs are the same used for comparisons in Fig 3 and 4 main text. NX and Hb+HX samples or NX and Hb+HX+GdCl₃ were run on contiguous gels and normalized (fold change) to NX. The same NX samples were used on both gels, and gels were run side by side. *p<0.05. **p<0.01

FIGURE S3

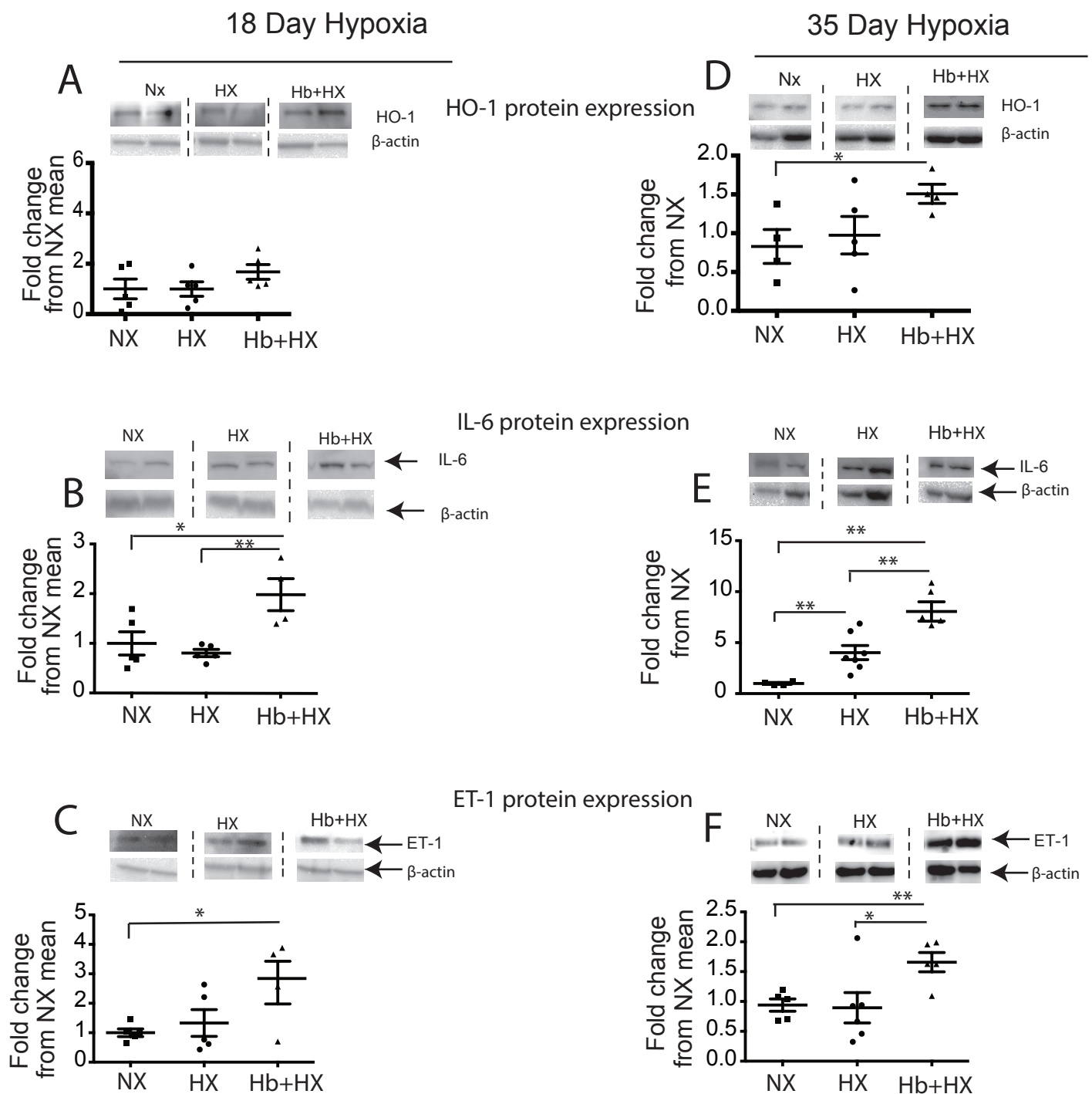


Figure S3. Whole lung protein quantification and analysis of HO-1, IL-6 and ET-1 between normoxic (NX) and hypoxic (HX) and hemoglobin plus hypoxia (Hb+HX) rats: (A) Day 18 lung tissue. (B) Day 35 lung tissue. Protein quantification was completed from (n=4-5) samples per group of rats. NX, HX and Hb+HX samples were run on a contiguous gel. Statistical analysis was completed by ANOVA *p<0.05. **p<0.01