## Appendix from Francis et al., "Effects of tetrahydrobiopterin oral treatment in hypoxia-induced pulmonary hypertension in rat" (PC, vol. 4, no. 3, p. 462)

## Supplemental material

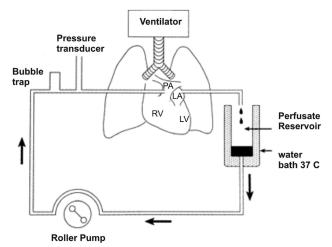


Figure S1. Schematic illustration of the basic components of perfused lung system used in acute pharmacological studies in rats. LA: left atrium; PA: pulmonary artery; RV: right ventricle; LV: left ventricle.

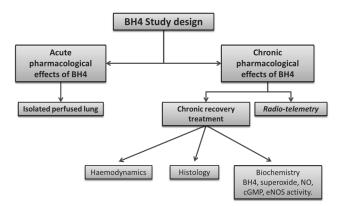


Figure S2. A general diagram showing the overall study design. BH4: tetrahydrobiopterin; cGMP: cyclic guanosine monophosphate; eNOS: endothelial nitric oxide synthase; NO: nitric oxide.

Variable	BH <sub>4</sub> (pmol/mg protein)	BH4 : BH2 ratio	Total biopterin (pmol/mg protein)
Control $(n = 10)$	$18.3\pm7.6$	5.1 ± 2.4	$22.2\pm7.8$
Two weeks hypoxia $(n = 5)$	$28.5\pm12.2$	$7.3\pm2.9$	$33.2\pm12.8$
Four weeks hypoxia placebo ( $n = 10$ )	$33.3 \pm 17.3$	$4.8\pm1.7$	$41.1\pm21.8$
Four weeks hypoxia BH <sub>4</sub> 10 mg/kg ( $n = 5$ )	$35.7 \pm 19.8$	$3.4 \pm 1.6$	$45.9\pm20.9$
Four weeks hypoxia $BH_4$ 100 mg/kg ( $n = 6$ )	$20.9\pm17.5$	$3.1\pm2.0$	$27.4 \pm 16.8$

**Table S1**. Measurements of lung tissue tetrahydrobiopterin (BH<sub>4</sub>), dihydrobiopterin (BH<sub>2</sub>), and total biopterin performed by high-performance liquid chromatography followed by serial electrochemical and fluorescent detection

Note: Total biopterins were quantified by summing BH4, BH2, and biopterin. Biopterin levels were expressed as picomoles per gram tissue.