Figure 1

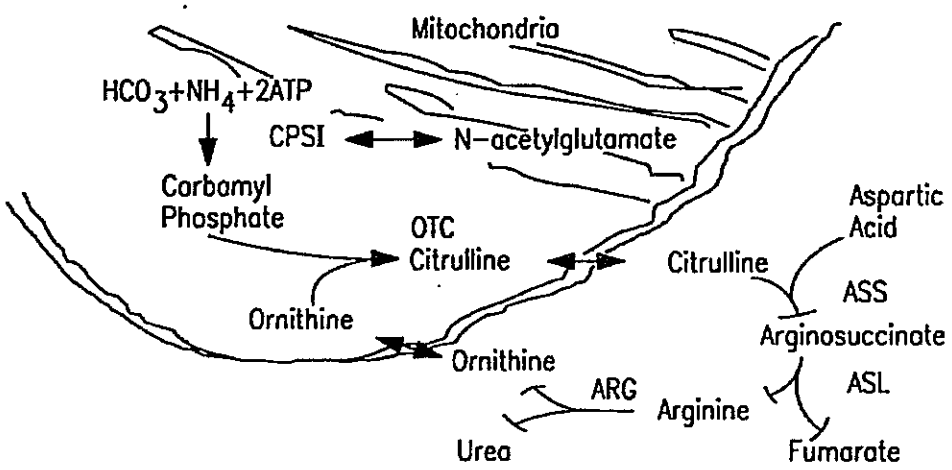

Mitochondria
HCO_3+NH_4+2ATP
CPSI
N-acetylglutamate
Carbamyl Phosphate
OTC
Citrulline
Ornithine
Citrulline
Aspartic Acid
ASS
Arginosuccinate
Ornithine
ARG
Arginine
ASL
Urea
Fumarate

Figure 2

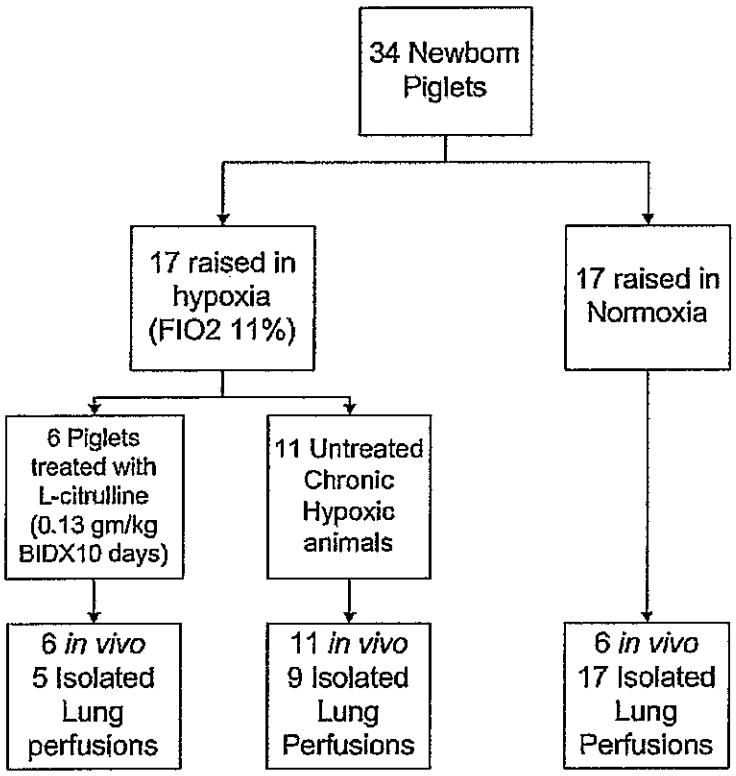

34 Newborn Piglets
17 raised in hypoxia (FIO2 11%)
17 raised in Normoxia
6 Piglets treated with L-citrulline (0.13 gm/kg BIDX10 days)
11 Untreated Chronic Hypoxic animals
6 in vivo 5 Isolated Lung perfusions
11 in vivo 9 Isolated Lung Perfusions
6 in vivo 17 Isolated Lung Perfusions

Figure 3

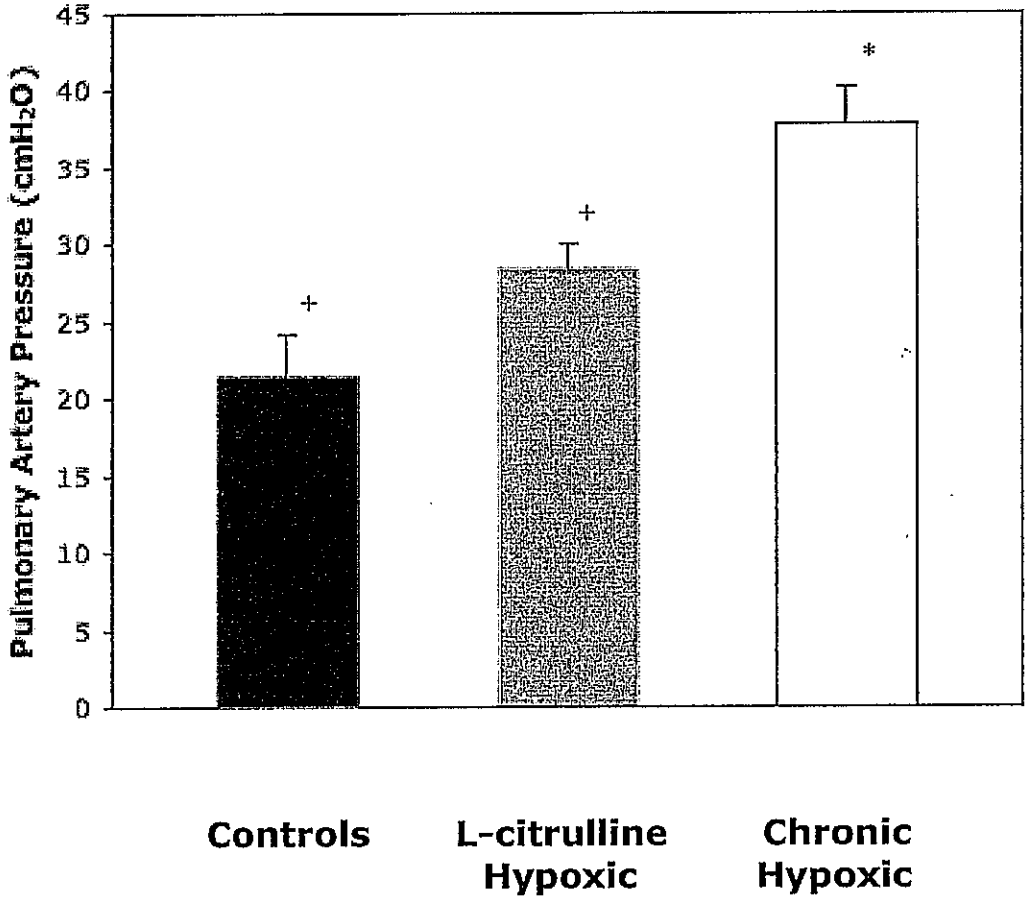

Pulmonary Artery Pressure (cmH_2O)
45
40
35
30
25
20
15
10
5
0
+
+
*
Controls
L-citrulline Hypoxic
Chronic Hypoxic

Figure 4

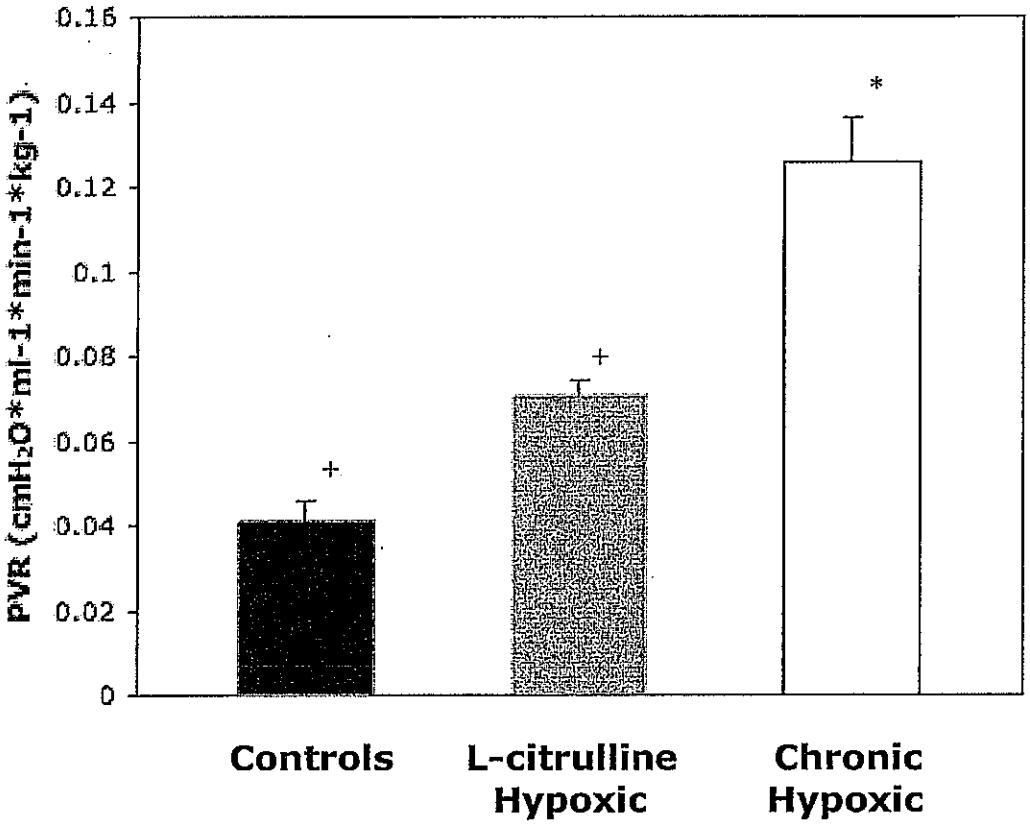

0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
PVR (cmH2O*ml-1*min-1*kg-1)
+
+
*
Controls
L-citrulline Hypoxic
Chronic Hypoxic

Figure 5

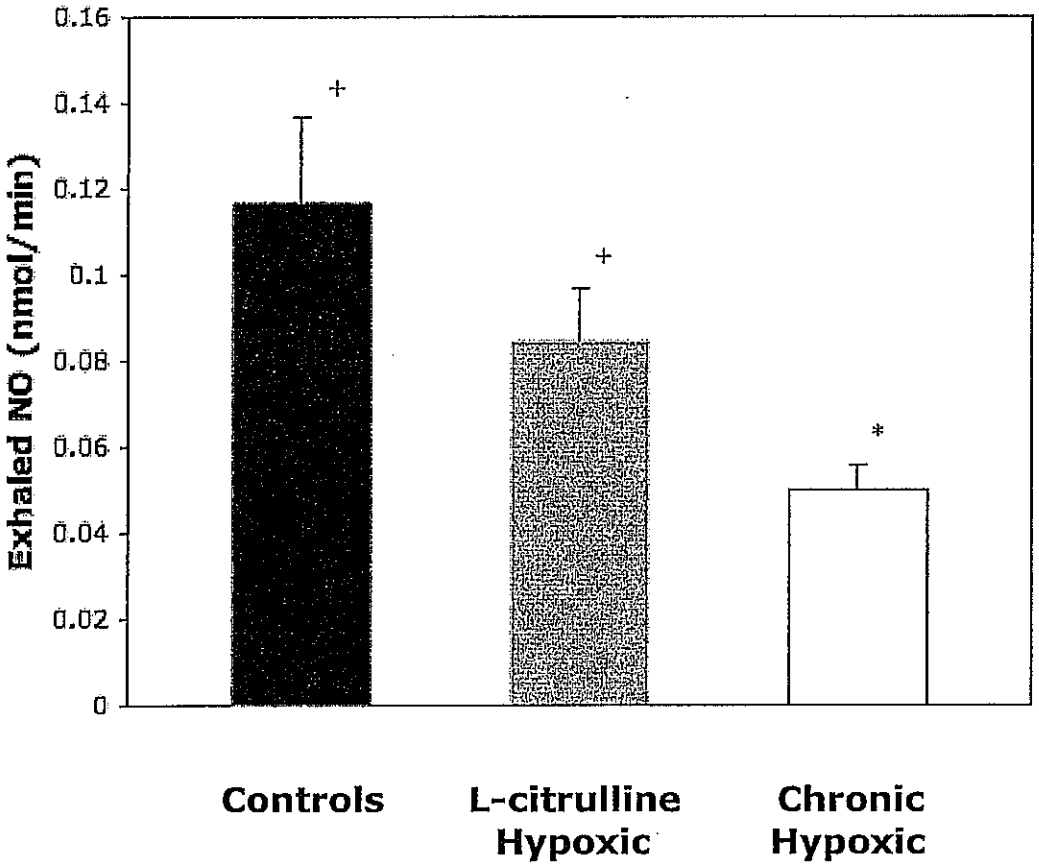

0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
Exhaled NO (nmol/min)
+
+
*
Controls
L-citrulline Hypoxic
Chronic Hypoxic

Figure 6

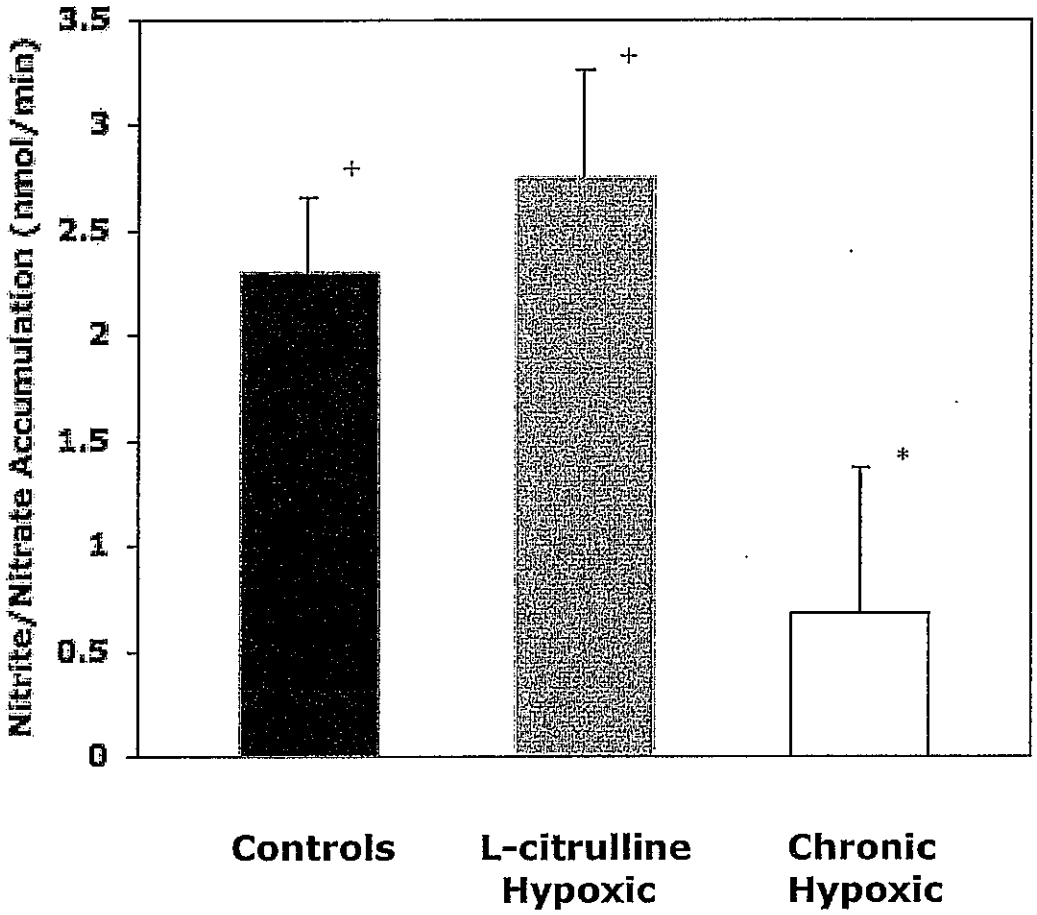

Nitrite/Nitrate Accumulation (nmol/min)
3.5
3
2.5
2
1.5
1
0.5
0
+
+
*
Controls
L-citrulline Hypoxic
Chronic Hypoxic

Figure 7A

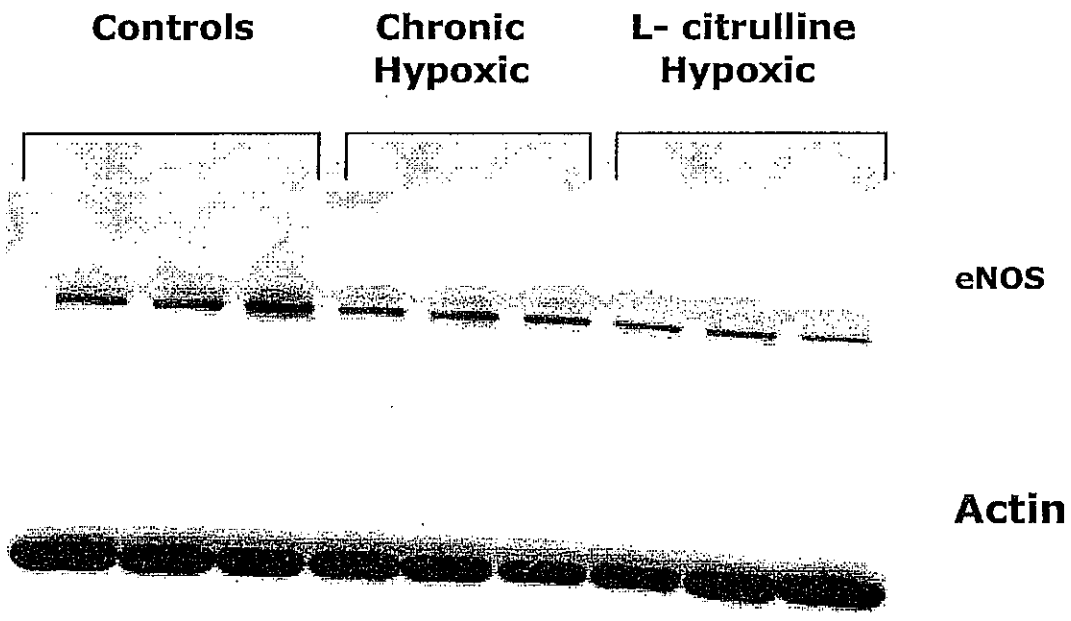
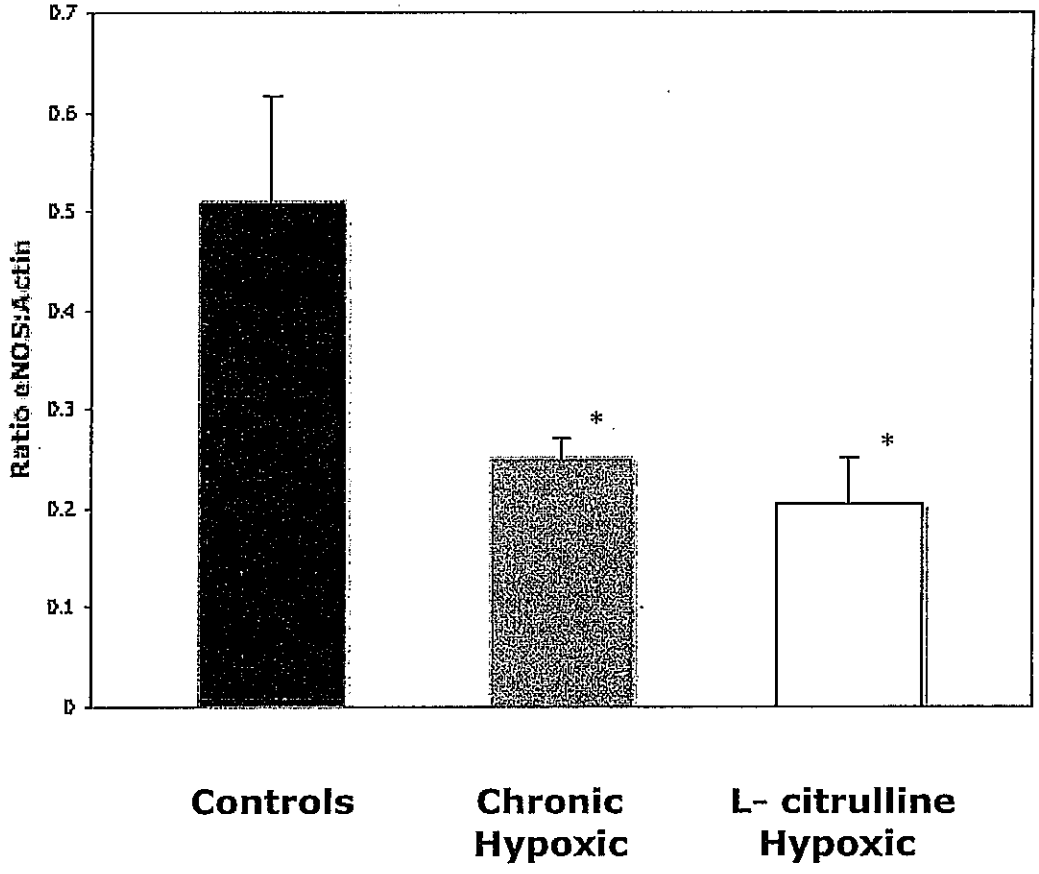


Figure 7B


Ratio eNOS:Actin
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
*
*
Controls
Chronic Hypoxic
L- citrulline Hypoxic