Mean Alveolar Area (µm²)

Control

Hyperoxia+Recovery

p=0.001
Figure 1B

Chord Length (µm)

Control

Hyperoxia+Recovery

p=0.0004
Figure 2B

Septal Thickness (µm)

Control

Hyperoxia+Recovery
Figure 3A

RV/(LV+S)

Fulton's Index

Control

Hyperoxia+Recovery

p=0.034
Figure 3B

![Graph showing the number of vessels per high powered field. The graph compares Control and Hyperoxia+Recovery groups. The p-value is 0.0002.](image_url)
Figure 4A

p = 0.0425

Medial Wall Thickness

Control

Hyperoxia + Recovery
Figure 5A

PA sGCα Expression Relative to Control

Control

Hyperoxia+Recovery
Figure 5C

PA sGCβ Expression Relative to Control

Control

Hyperoxia+Recovery

p=0.04
Figure 5E

PA PDE5 Expression Relative to Control

Control

Hyperoxia+Recovery
sGC Activity (pmol cGMP/ml/mg protein)

Figure 6A
Figure 6B

Graph showing cGMP (pmol/mg protein) levels in Control and Hyperoxia+Recovery groups.
Figure 6C

PDE5 Activity (pmol/min/mg protein)

Control

Hyperoxia+Recovery

p = 0.0086
Figure 7A

- Control+Vehicle vs. Control+Sildenafil: p<0.0001
- Hyperoxia+Vehicle vs. Hyperoxia+Sildenafil: p<0.0001

Mean Alveolar Area (µm²)
Figure 7B

Chord Length (µm)

Control+Vehicle  Control+Sildenafil  Hyperoxia+Vehicle  Hyperoxia+Sildenafil

p<0.0001  p<0.0001
Figure 8A

Alveolar Counts (per 10X Field)

Control+Vehicle  Control+Sildenafil  Hyperoxia+Vehicle  Hyperoxia+Sildenafil

p<0.0001
Figure 8B

![Graph showing Septal Thickness (µm) across different conditions: Control+Vehicle, Control+Sildenafil, Hyperoxia+Vehicle, Hyperoxia+Sildenafil. The x-axis represents the different conditions, and the y-axis represents Septal Thickness (µm). The data points are shown with error bars.]
Figure 9A

- Control + Vehicle
- Control + Sildenafil
- Hyperoxia + Vehicle
- Hyperoxia + Sildenafil

Fulton's Index

\[ \frac{RV}{(LV+S)} \]

- \( p = 0.0005 \)
- \( p = 0.0469 \)
- \( p = 0.0339 \)
Figure 9B

- Control + Vehicle
- Control + Sildenafil
- Hyperoxia + Vehicle
- Hyperoxia + Sildenafil

p < 0.0001

Graph showing the number of vessels per high powered field for different conditions.
Figure 10A

Medial Wall Thickness

Control + Vehicle
Control + Sildenafil
Hyperoxia + Vehicle
Hyperoxia + Sildenafil

p = 0.0133
Figure 11A

PA sGCα Expression Relative to Control

- Control+Vehicle
- Control+Sildenafil
- Hyperoxia+Vehicle
- Hyperoxia+Sildenafil
Figure 11C

PA sGCβ Expression Relative to Control

Control+Vehicle
Control+Sildenafil
Hyperoxia+Vehicle
Hyperoxia+Sildenafil
Figure 11E

PA PDE5 Expression Relative to Control

Control+Vehicle  Control+Sildenafil  Hyperoxia+Vehicle  Hyperoxia+Sildenafil
Figure 12A

cGMP (pmol/mg protein)

Control+Vehicle  Control+Sildenafil  Hyperoxia+Vehicle  Hyperoxia+Sildenafil
PDE5 Activity (pmol/min/mg protein)

- Control + Vehicle
- Control + Sildenafil
- Hyperoxia + Vehicle
- Hyperoxia + Sildenafil

Figure 12B

- $p = 0.0132$
- $p = 0.0144$