FIG. 1

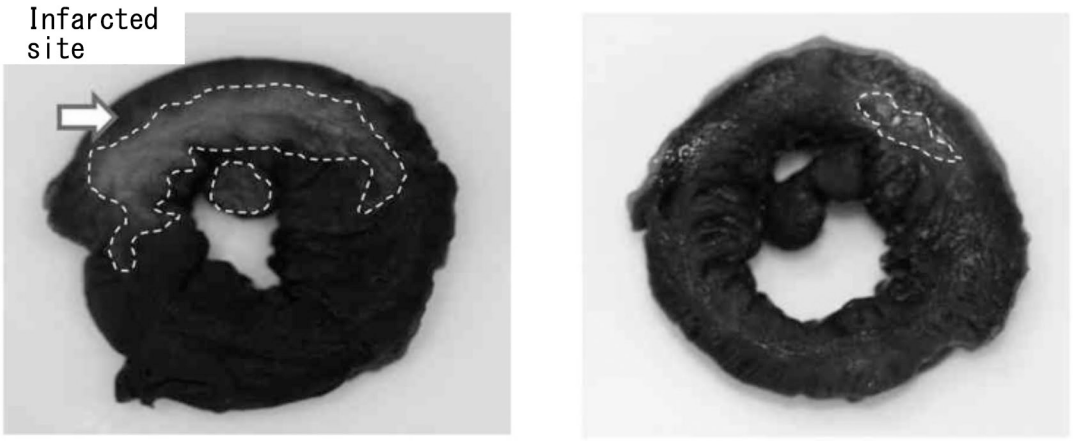


FIG. 2

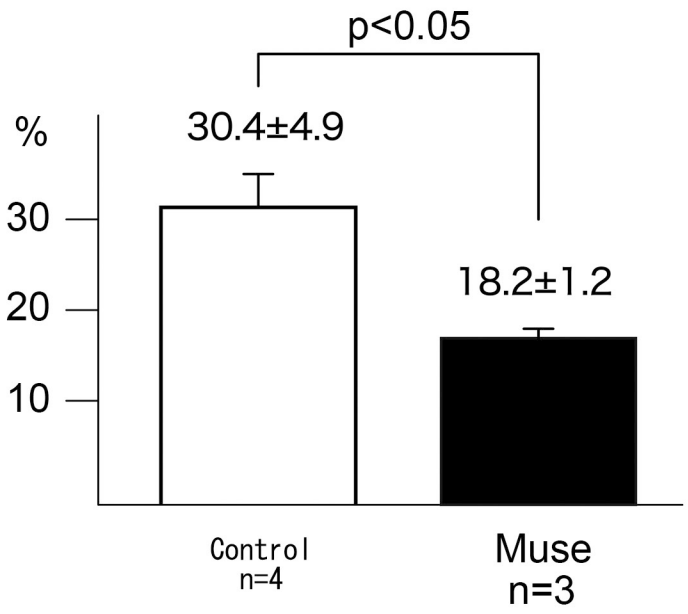


FIG. 3

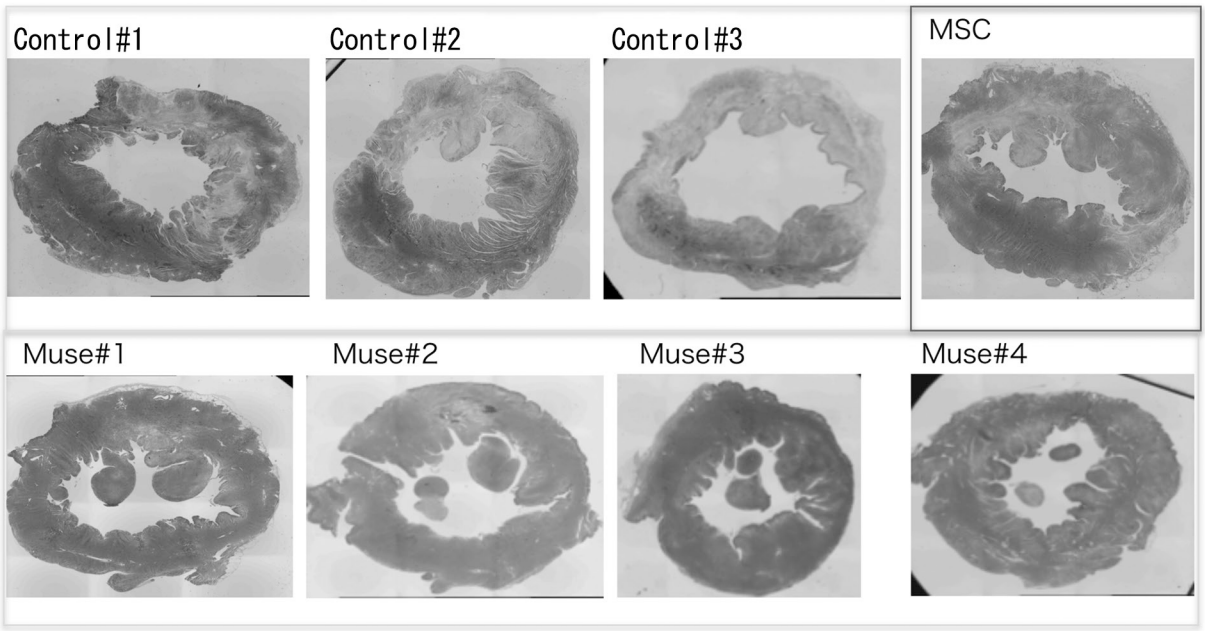

Control#1
Control#2
Control#3
MSC
Muse#1
Muse#2
Muse#3
Muse#4

FIG. 4

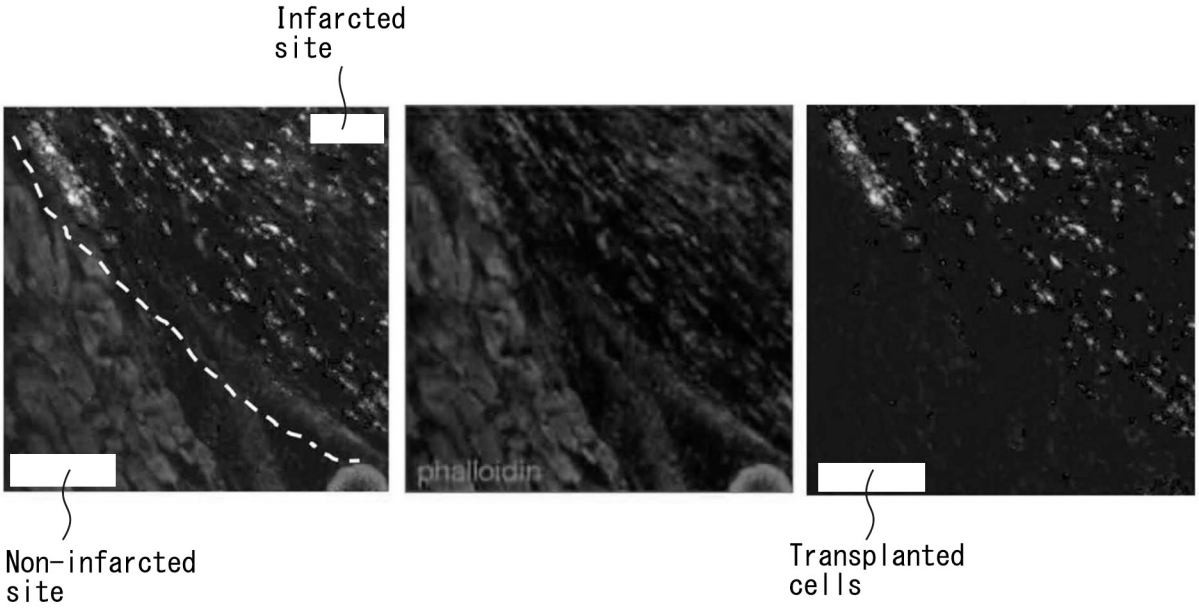

Infarcted site
phalloidin
Non-infarcted site
Transplanted cells

FIG. 5

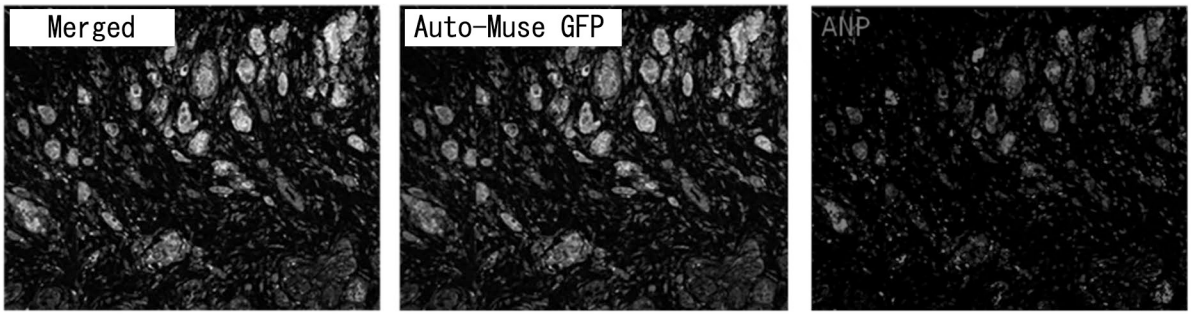

Merged
Auto-Muse GFP
ANP

FIG. 6

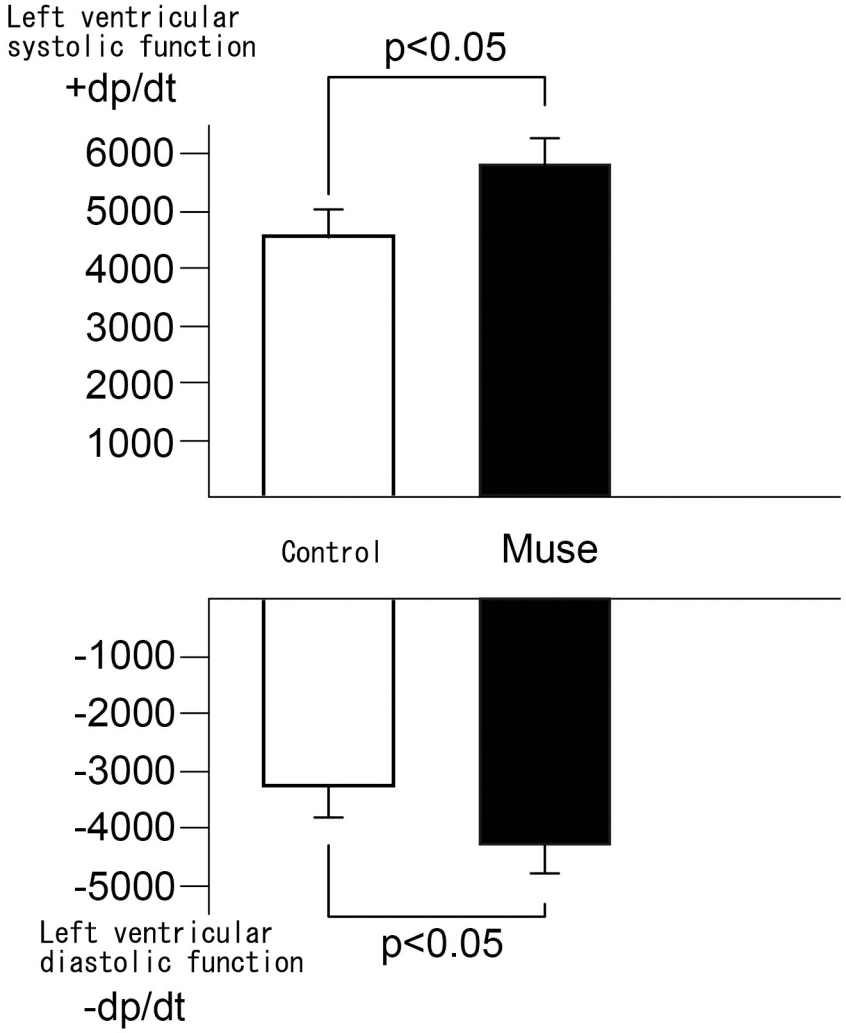

Left ventricular systolic function
+dp/dt
p<0.05
6000
5000
4000
3000
2000
1000
Control
Muse
-1000
-2000
-3000
-4000
-5000
Left ventricular diastolic function
-dp/dt
p<0.05

FIG. 7

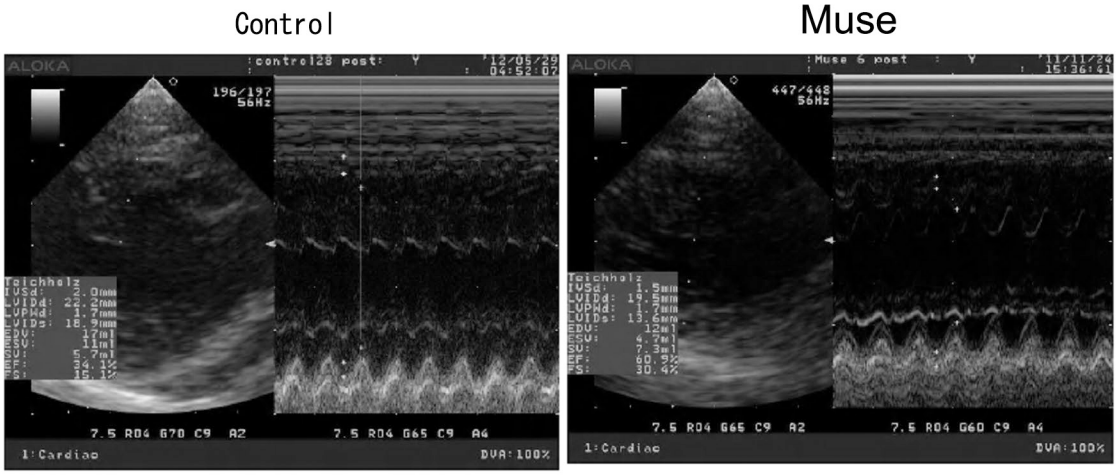


FIG. 8

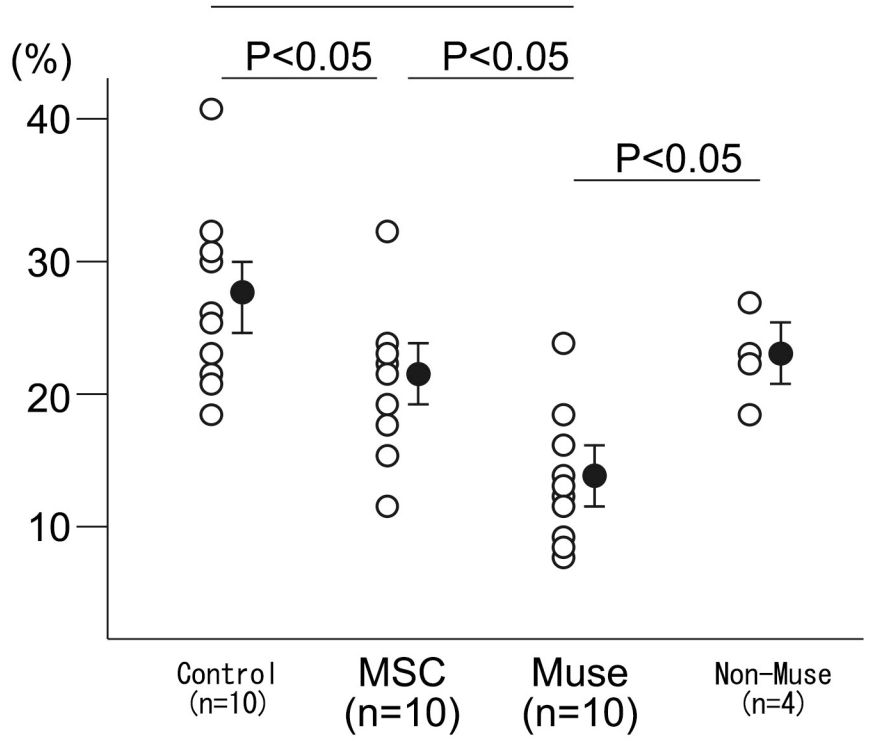

(%)
40
30
20
10
P<0.05
P<0.05
P<0.05
Control
(n=10)
MSC
(n=10)
Muse
(n=10)
Non-Muse
(n=4)

FIG. 9

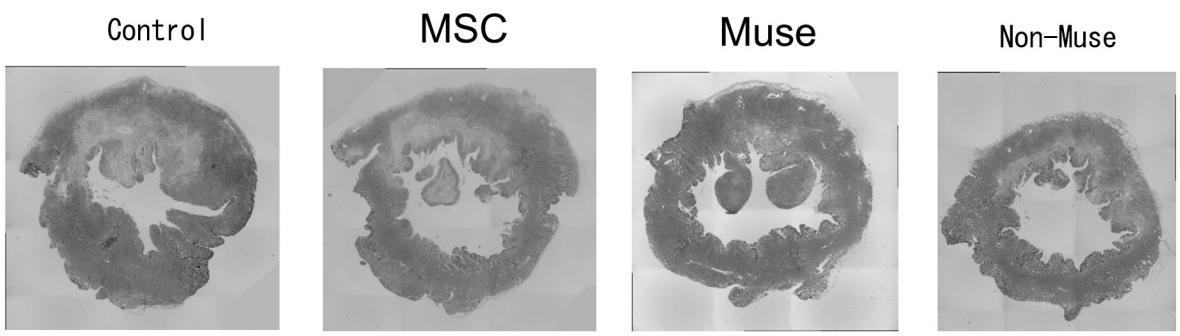

Control
MSC
Muse
Non-Muse

FIG. 10

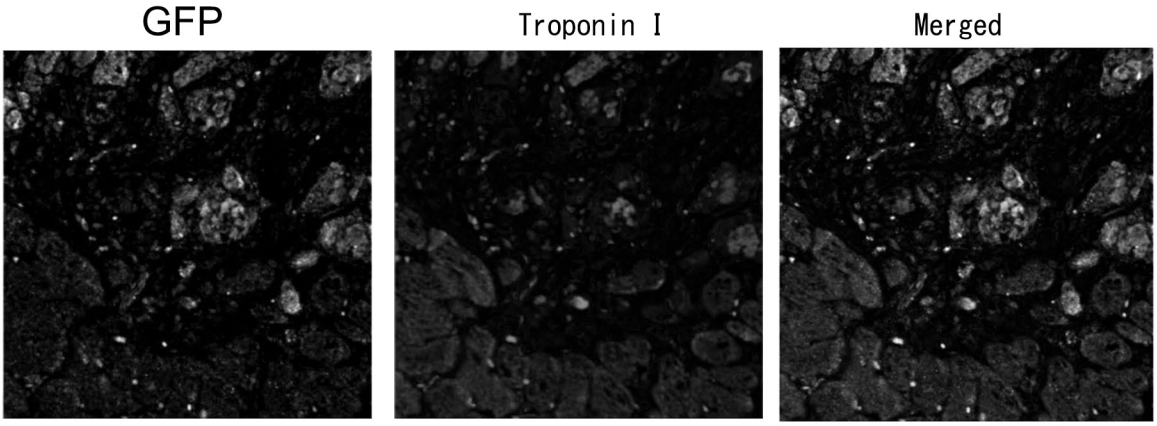


FIG. 11

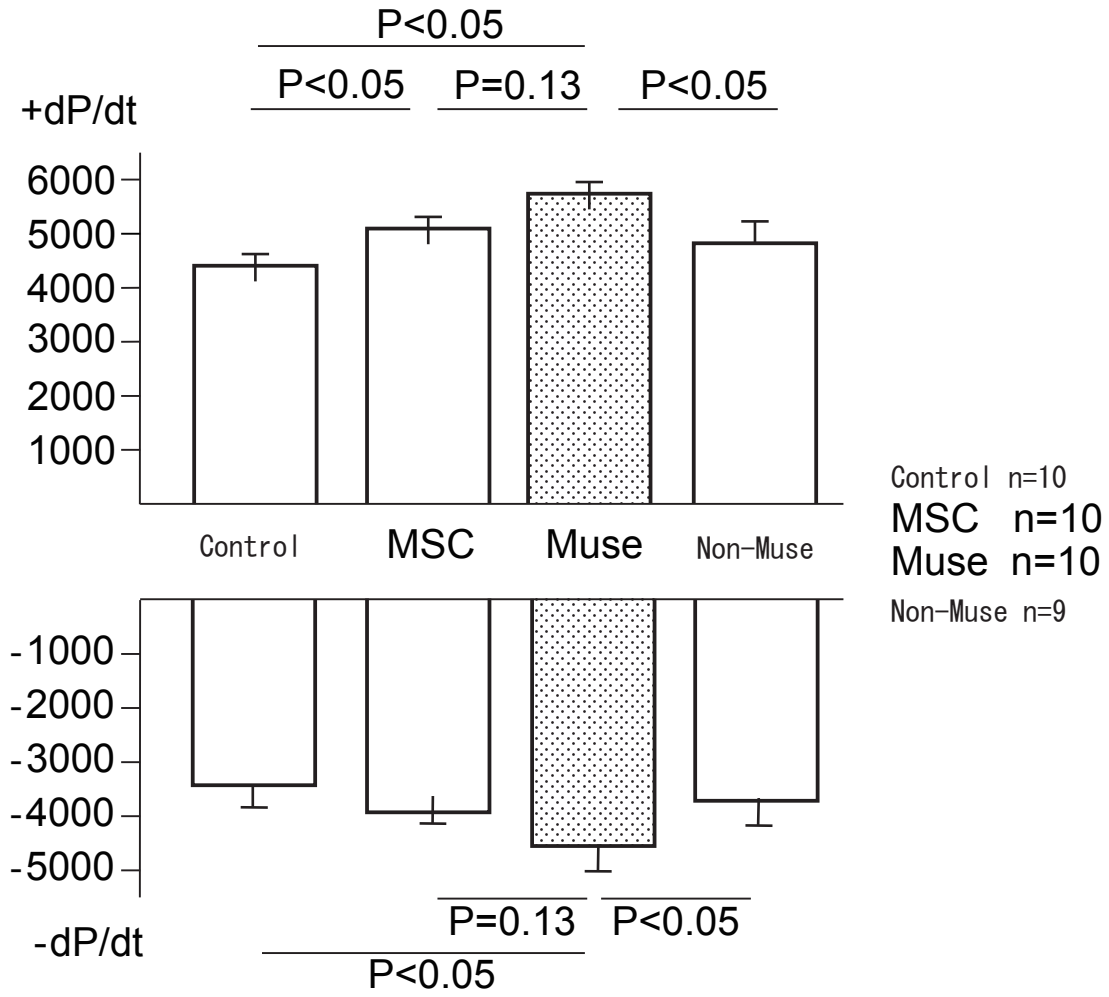

P<0.05
P<0.05
P=0.13
P<0.05
+dP/dt
6000
5000
4000
3000
2000
1000
Control
MSC
Muse
Non-Muse
-1000
-2000
-3000
-4000
-5000
-dP/dt
P=0.13
P<0.05
P<0.05
Control n=10
MSC n=10
Muse n=10
Non-Muse n=9

FIG. 12

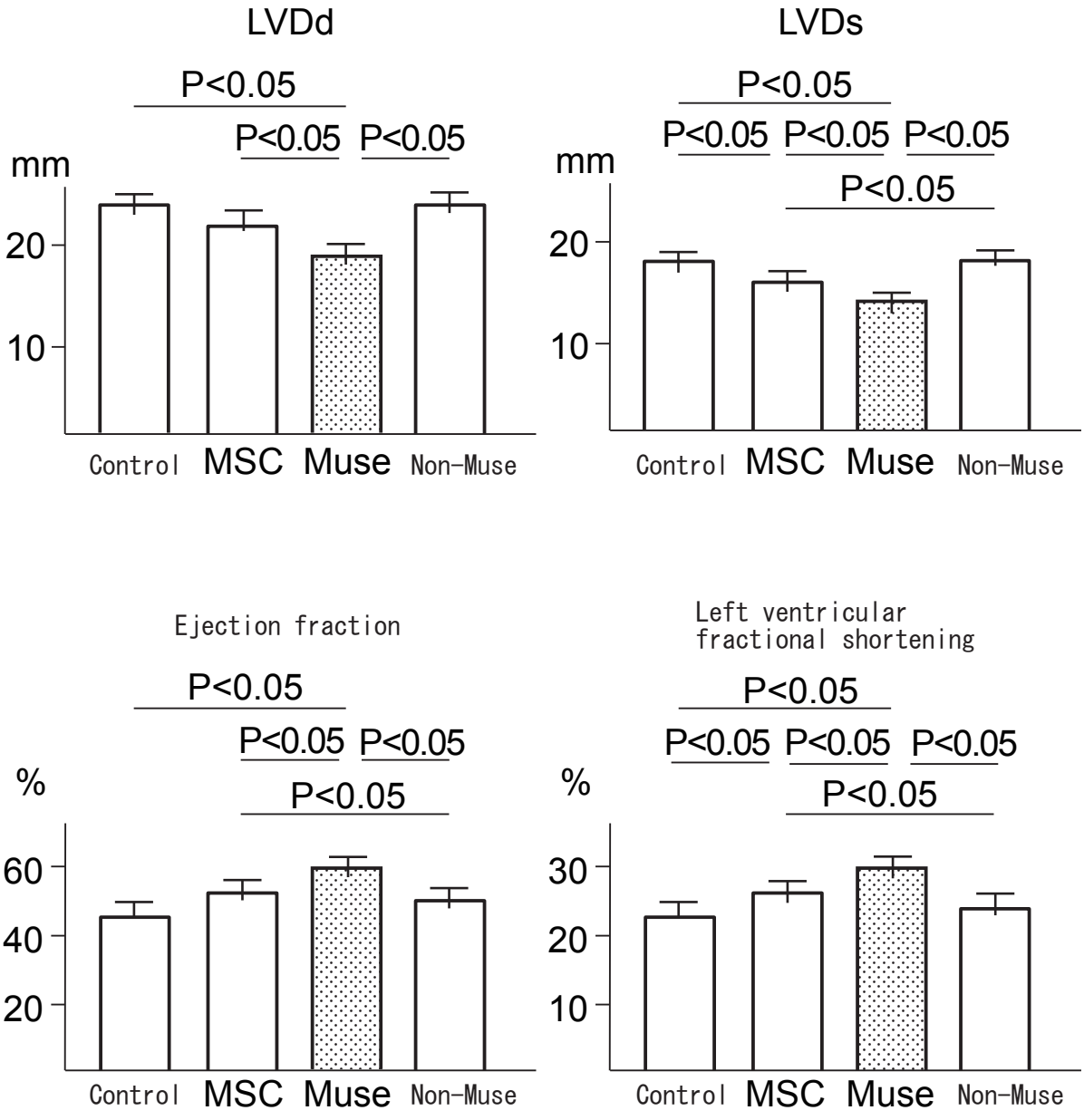
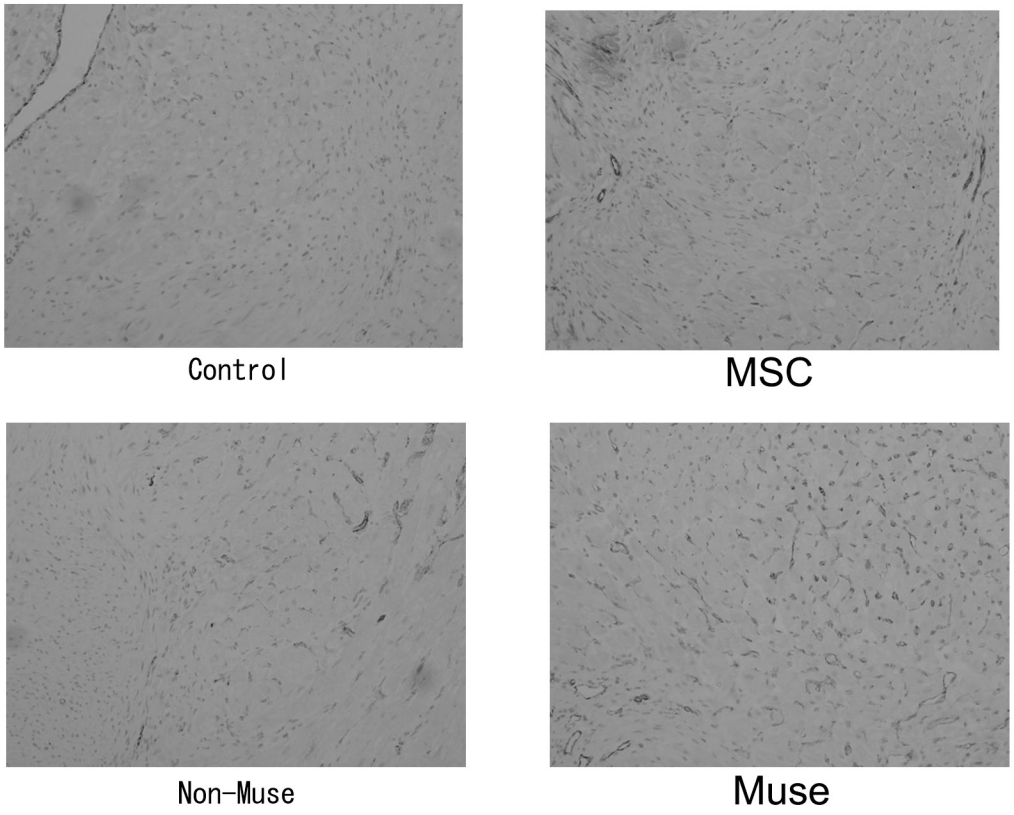
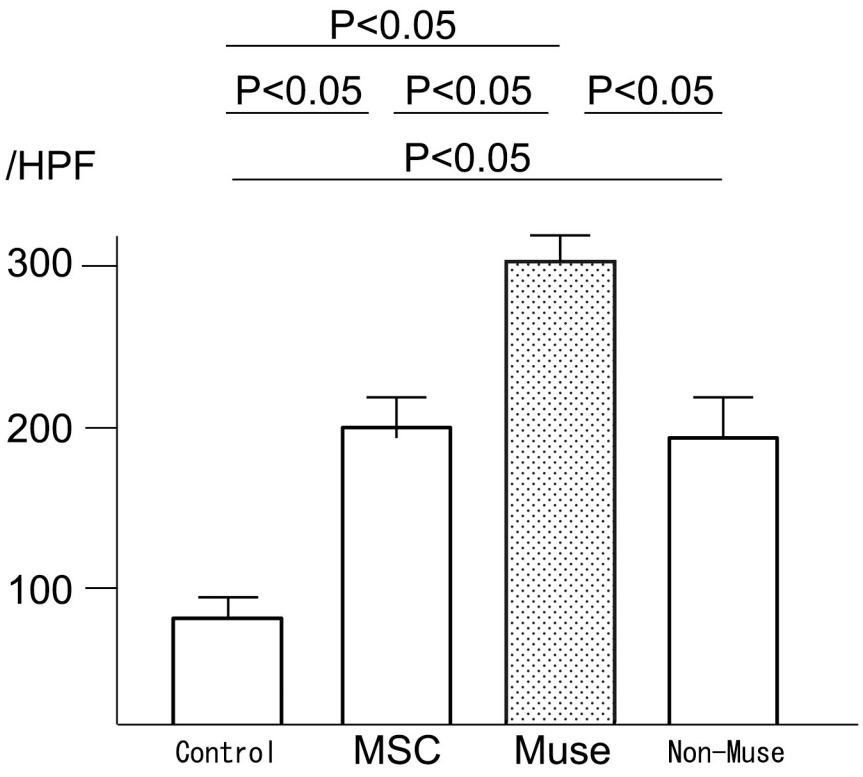

LVDd
P<0.05
P<0.05 P<0.05
mm
20
10
Control MSC Muse Non-Muse
LVDs
P<0.05
P<0.05 P<0.05 P<0.05
P<0.05
mm
20
10
Control MSC Muse Non-Muse
Ejection fraction
P<0.05
P<0.05 P<0.05
P<0.05
%
60
40
20
Control MSC Muse Non-Muse
Left ventricular
fractional shortening
P<0.05
P<0.05 P<0.05 P<0.05
P<0.05
%
30
20
10
Control MSC Muse Non-Muse

FIG. 13


Control
MSC
Non-Muse
Muse


P<0.05
P<0.05
P<0.05
P<0.05
P<0.05
/HPF
300
200
100
Control
MSC
Muse
Non-Muse