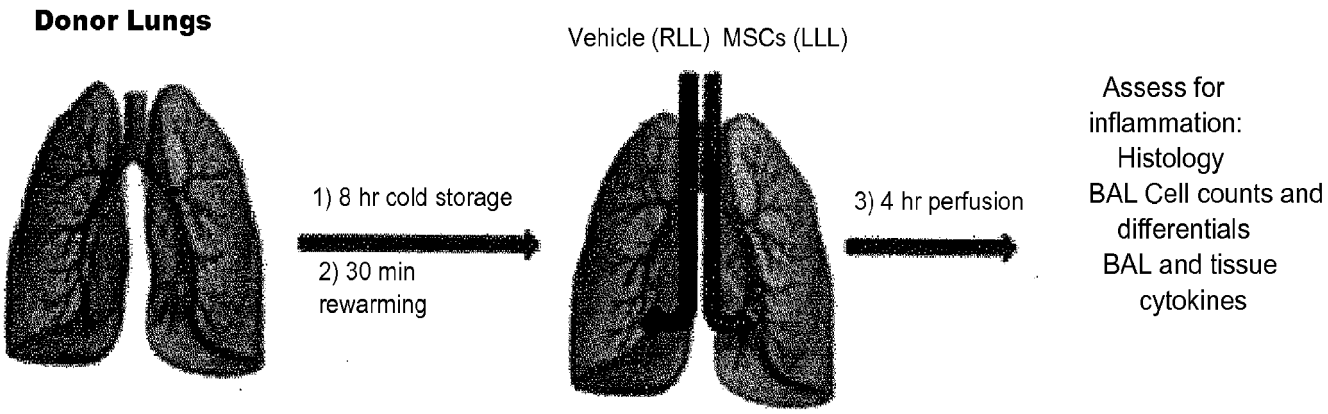

Donor Lungs
Vehicle (RLL) MSCs (LLL)
1) 8 hr cold storage
2) 30 min rewarming
3) 4 hr perfusion
Assess for inflammation:
Histology
BAL Cell counts and differentials
BAL and tissue cytokines

Fig. 1



Fig. 2

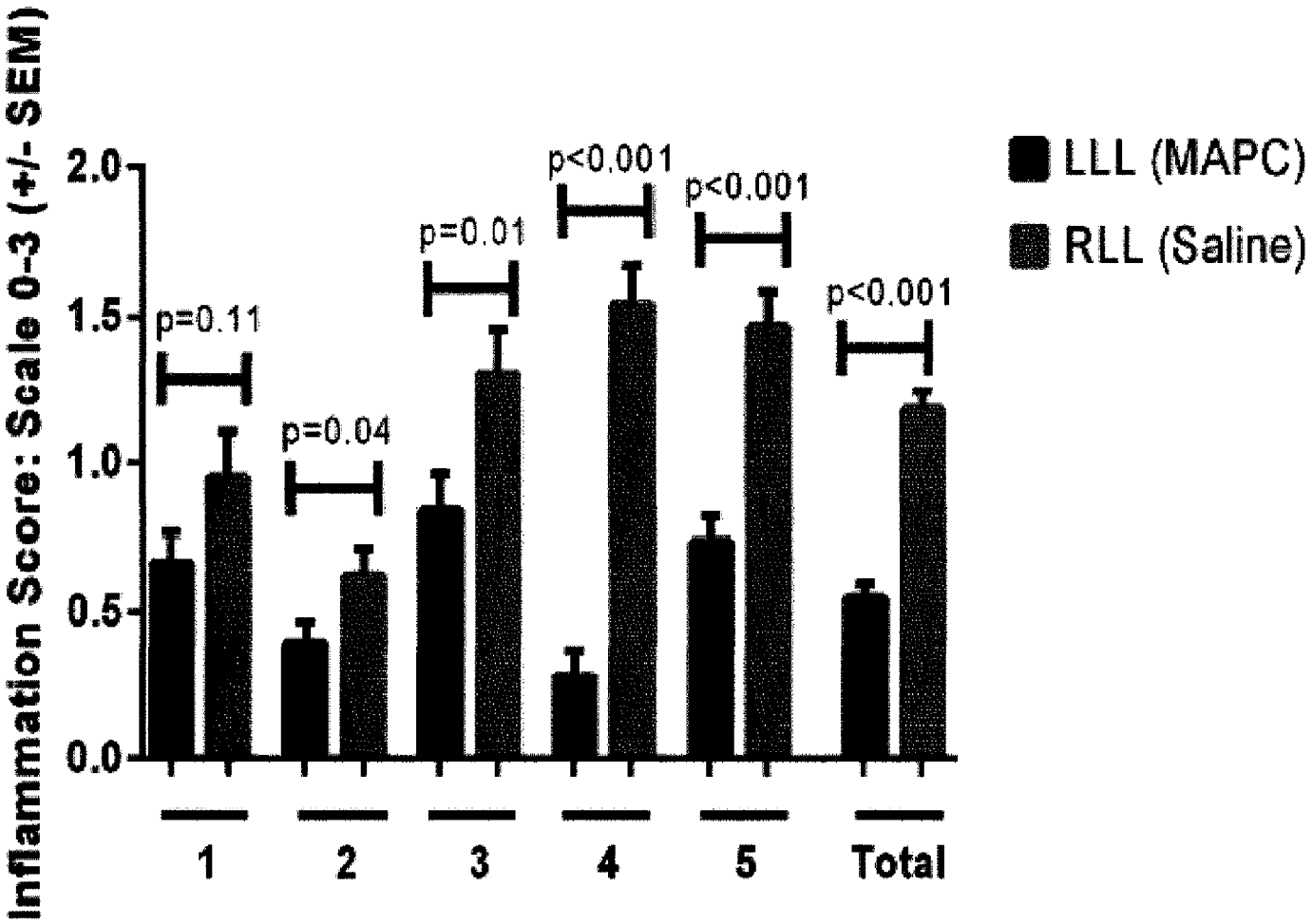

Inflammation Score: Scale 0-3 (+/- SEM)
2.0
1.5
1.0
0.5
0.0
p=0.11
p=0.04
p=0.01
p<0.001
p<0.001
p<0.001
1
2
3
4
5
Total
LLL (MAPC)
RLL (Saline)

Fig. 3

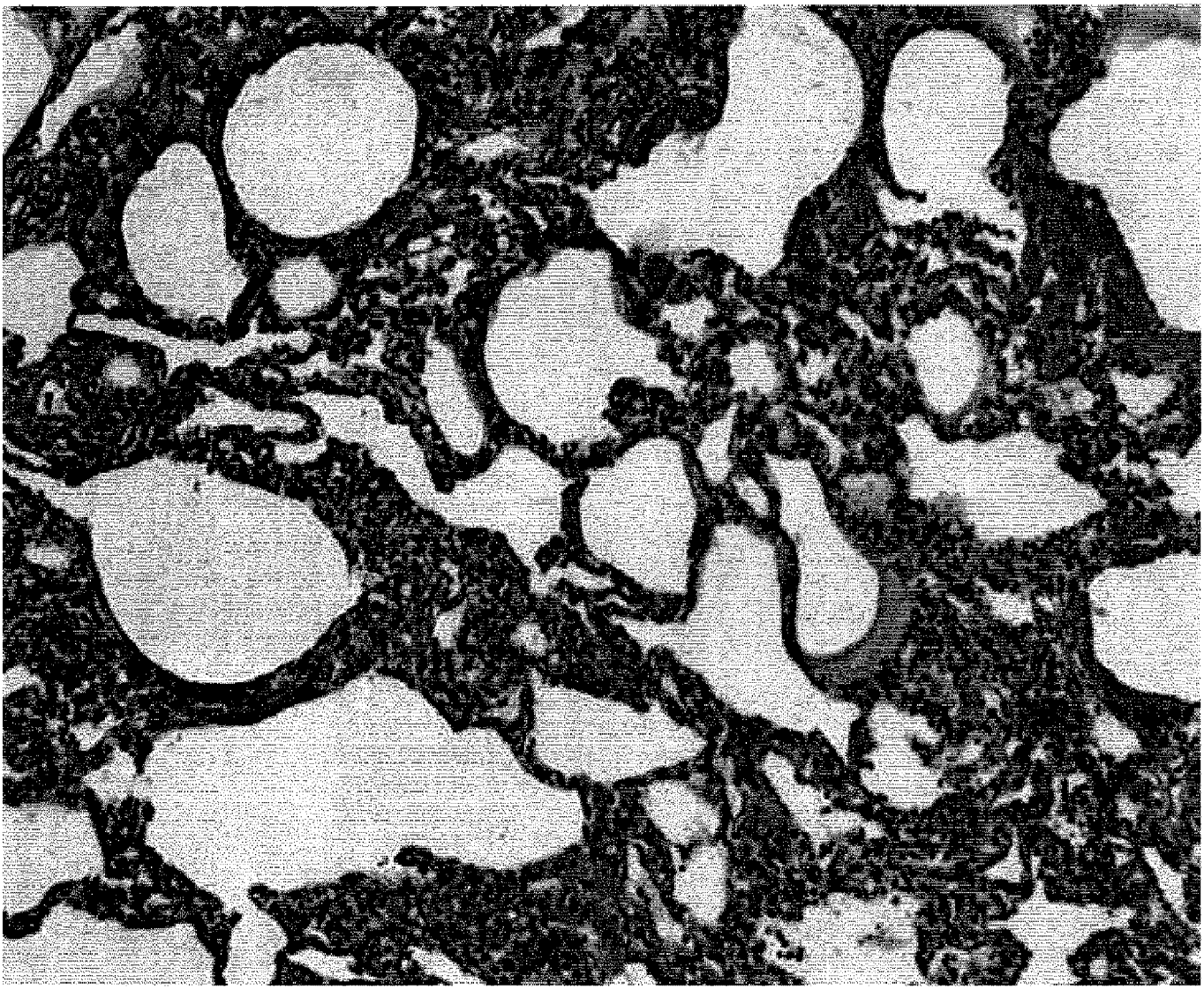


Fig. 4A

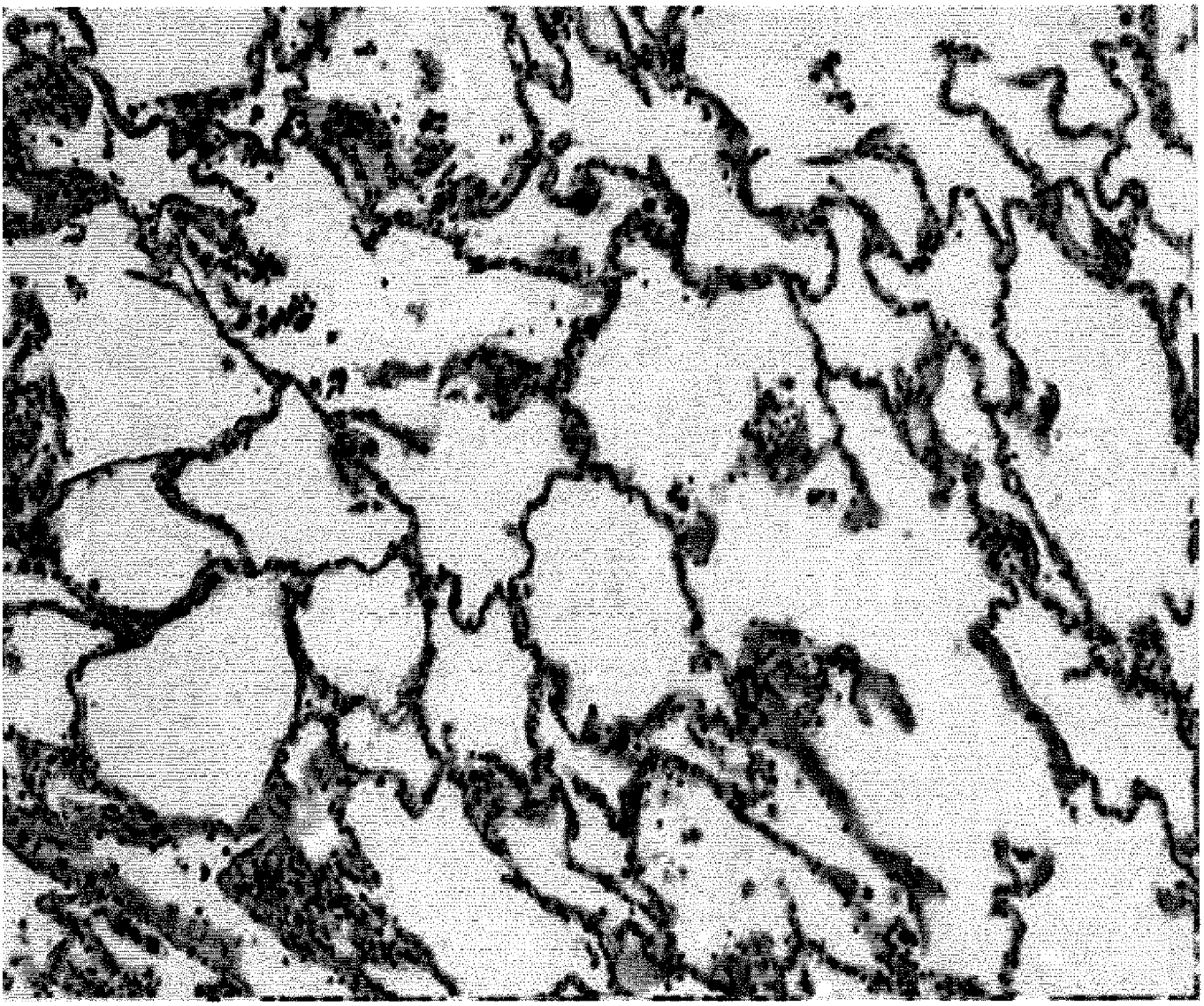


Fig. 4B

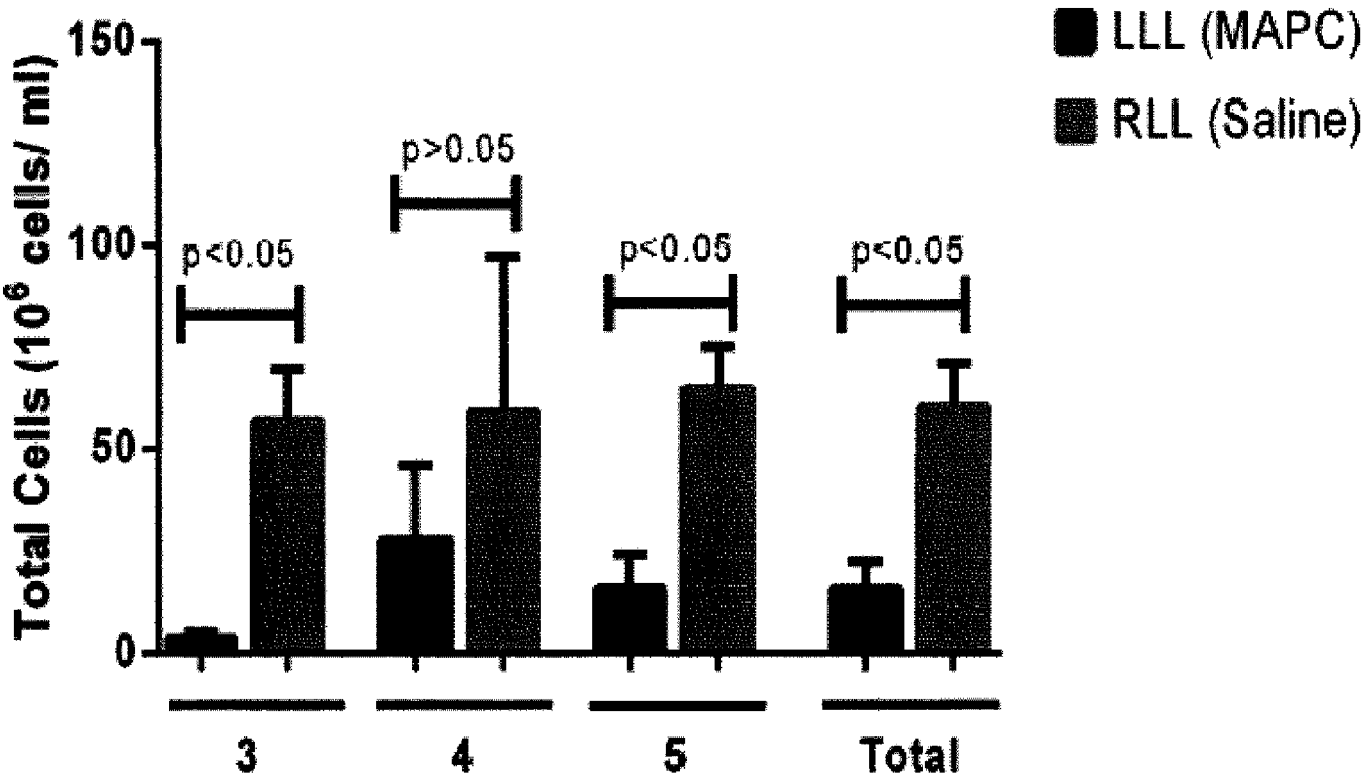

LLL (MAPC)
RLL (Saline)
Total Cells (10^6 cells/ ml)
150
100
50
0
p<0.05
p>0.05
p<0.05
p<0.05
3
4
5
Total

Fig. 5A

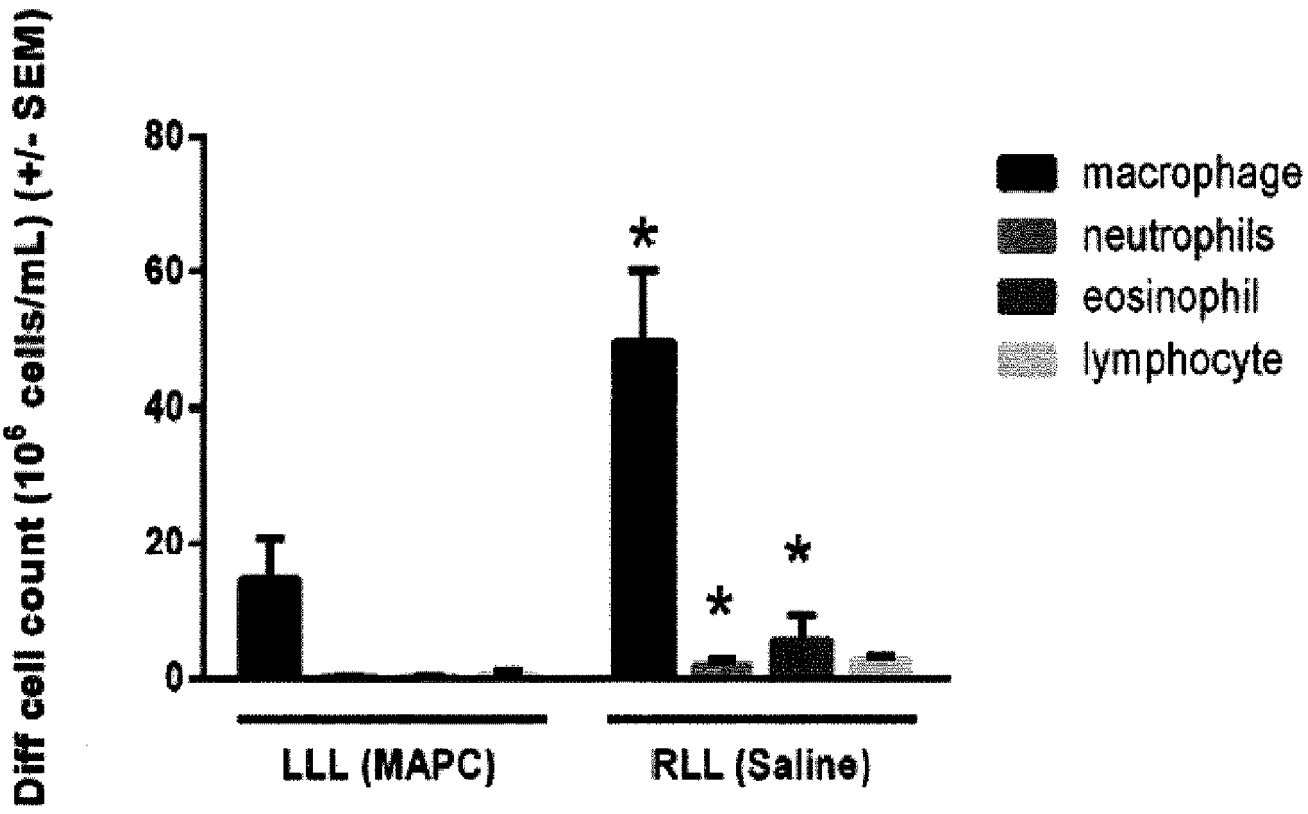

Diff cell count (10^6 cells/mL) (+/- SEM)
80
60
40
20
0
*
*
*
LLL (MAPC)
RLL (Saline)
macrophage
neutrophils
eosinophil
lymphocyte

Fig. 5B

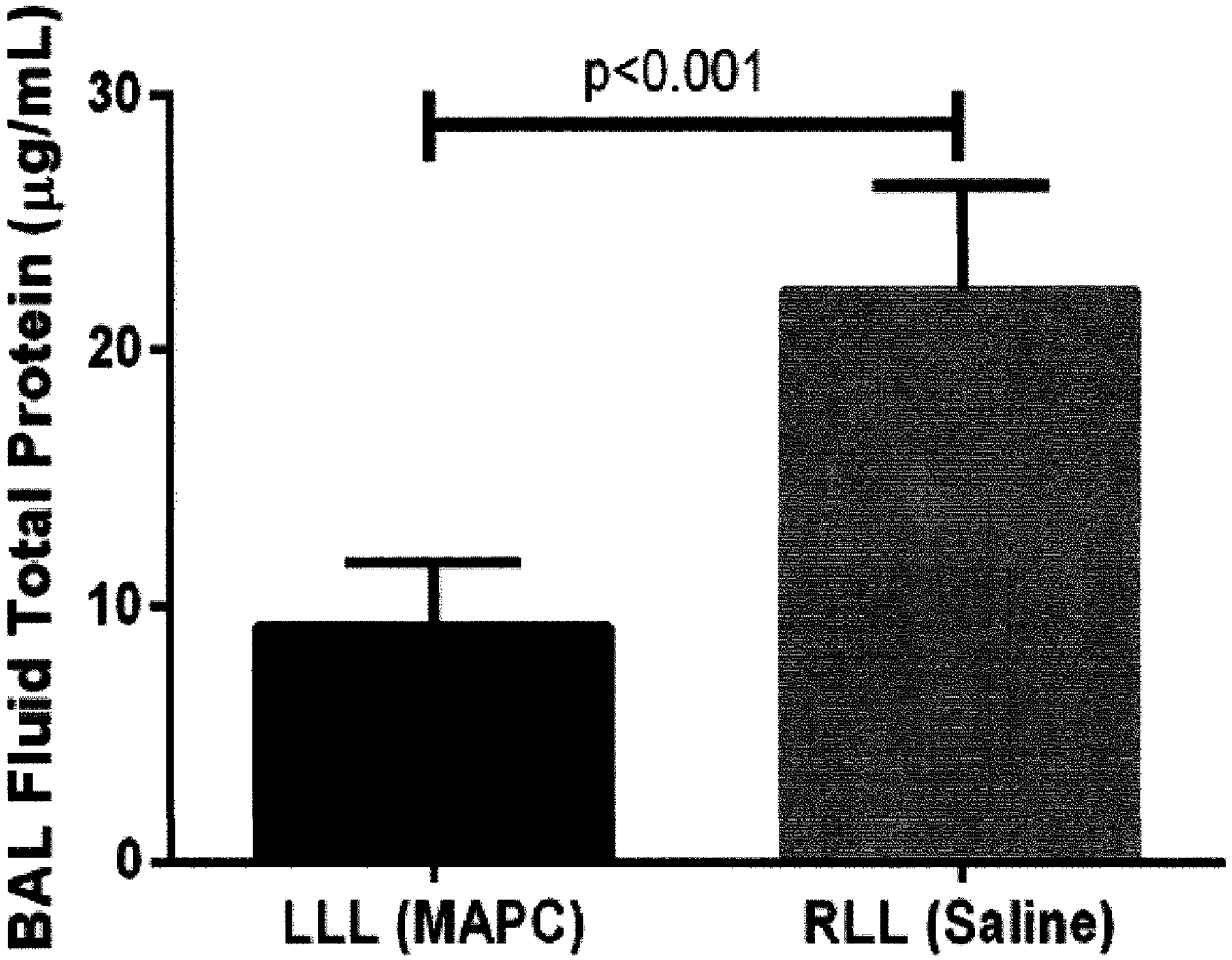

BAL Fluid Total Protein (µg/mL)
30
20
10
0
p<0.001
LLL (MAPC)
RLL (Saline)

Fig. 5C

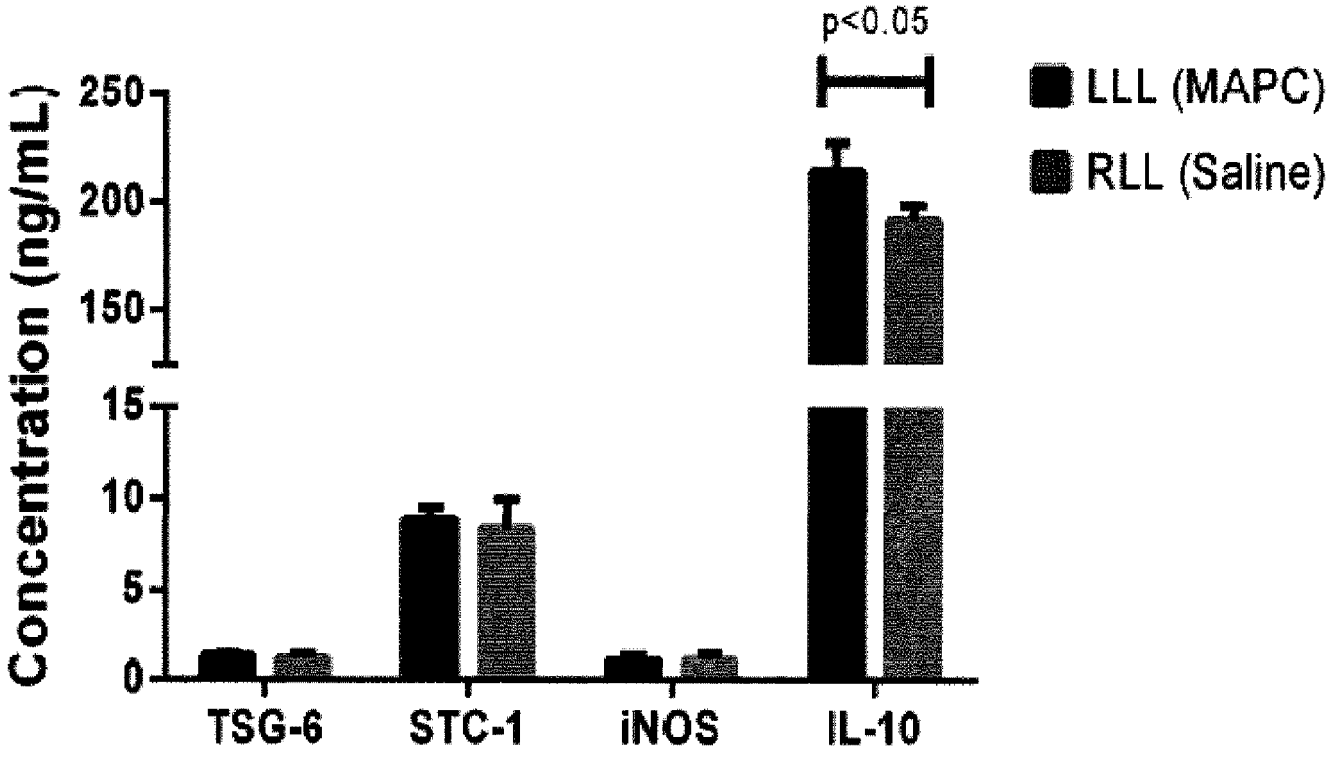

p<0.05
LLL (MAPC)
RLL (Saline)
Concentration (ng/mL)
250
200
150
15
10
5
0
TSG-6
STC-1
iNOS
IL-10

Fig. 6

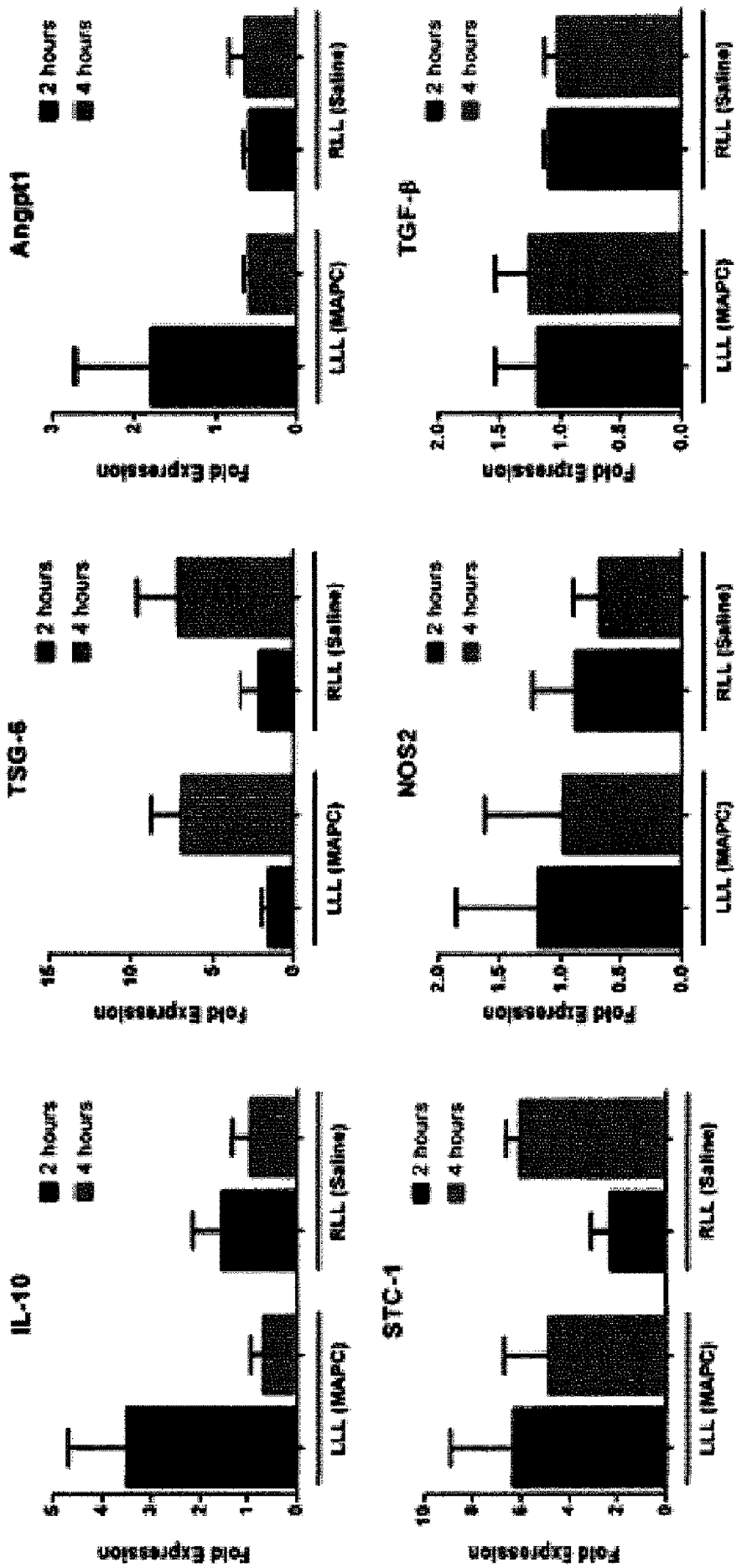

Angpt1
TGF-β
TSG-6
NOS2
IL-10
STC-1
2 hours
4 hours
Fold Expression
LLL (MAPC)
RLL (Saline)

Fig. 7