

Figure 1



Figure 2

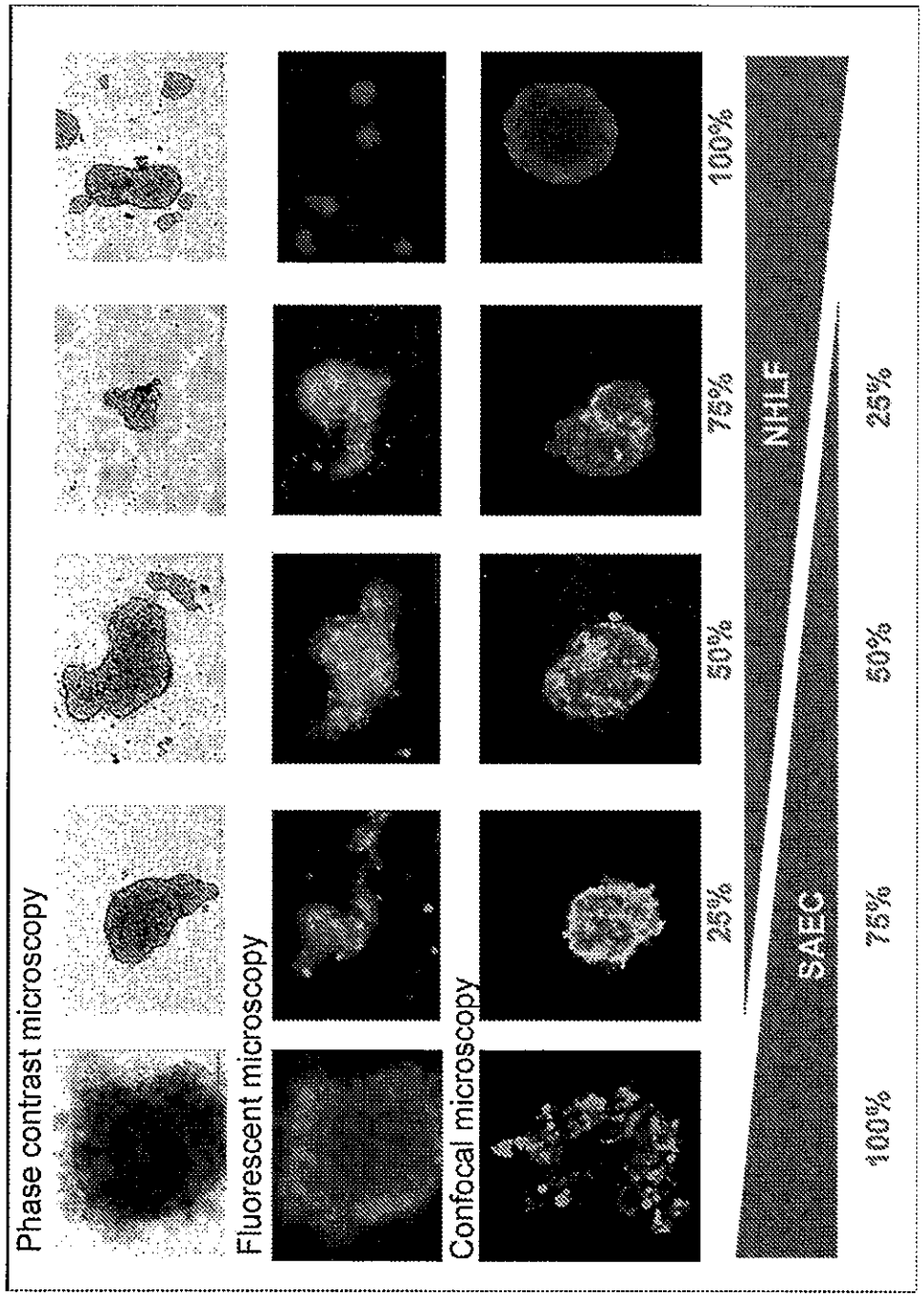

Phase contrast microscopy
Fluorescent microscopy
Confocal microscopy
25%
50%
75%
100%
100%
75%
50%
25%
SAEC
NHLF

Figure 3

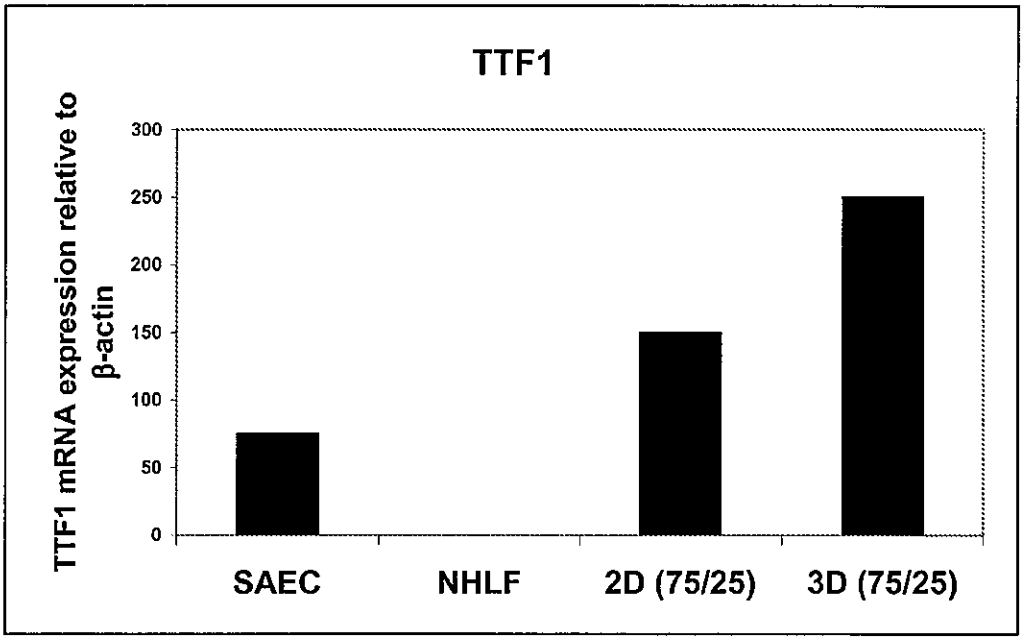


Figure 4.a

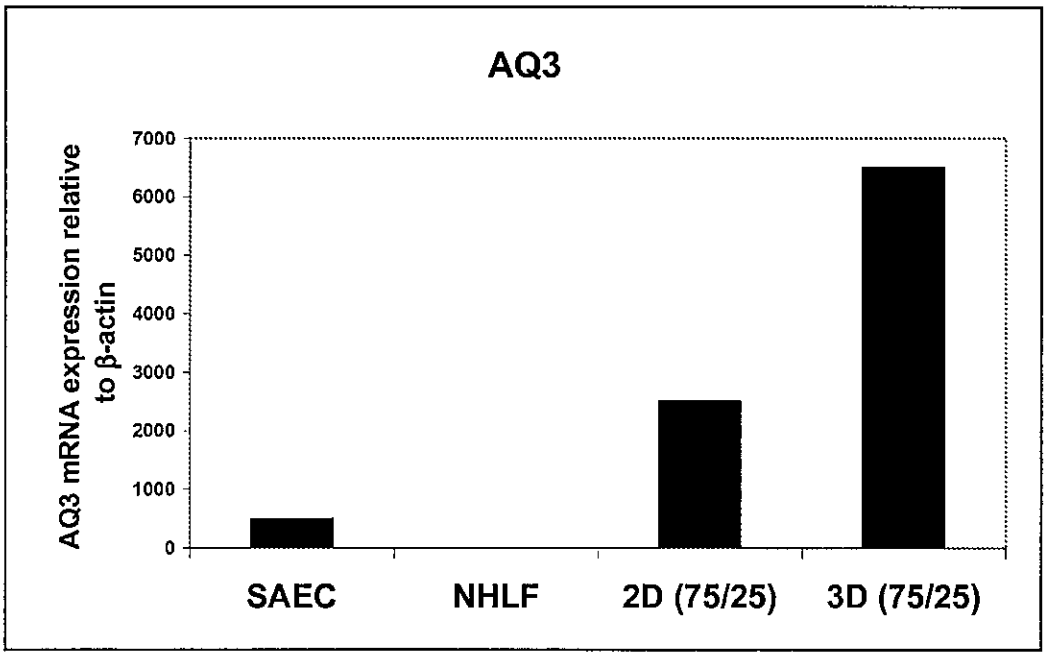


Figure 4.b

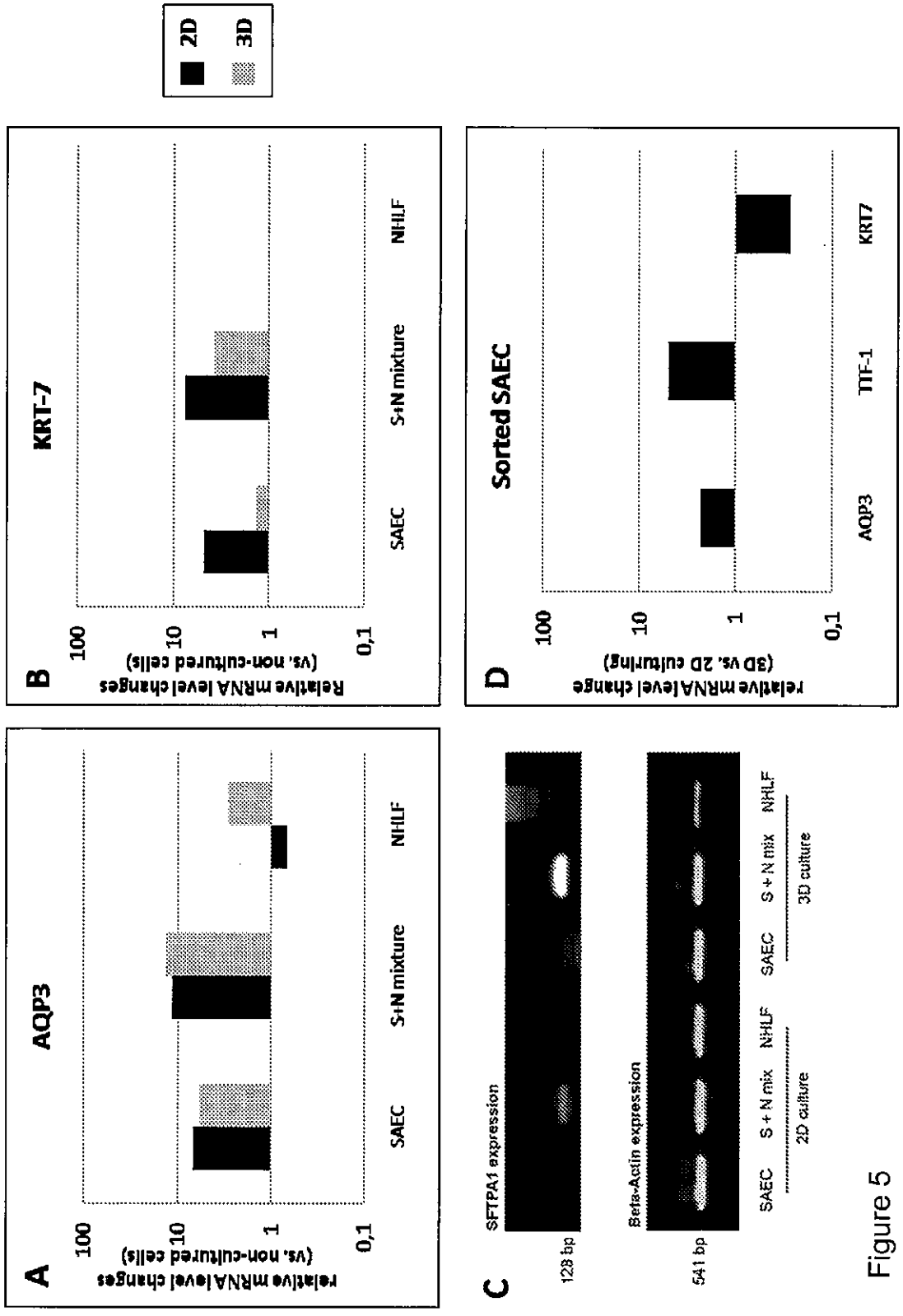

A
AQP3
relative mRNA level changes
(vs. non-cultured cells)
100
10
1
0,1
SAEC
S+N mixture
NHLF
B
KRT-7
Relative mRNA level changes
(vs. non-cultured cells)
2D
3D
C
SFTPA1 expression
128 bp
Beta-Actin expression
541 bp
SAEC
S + N mix
NHLF
SAEC
S + N mix
NHLF
2D culture
3D culture
D
Sorted SAEC
relative mRNA level change
(3D vs. 2D culturing)
AQP3
TTF-1
KRT7

Figure 5

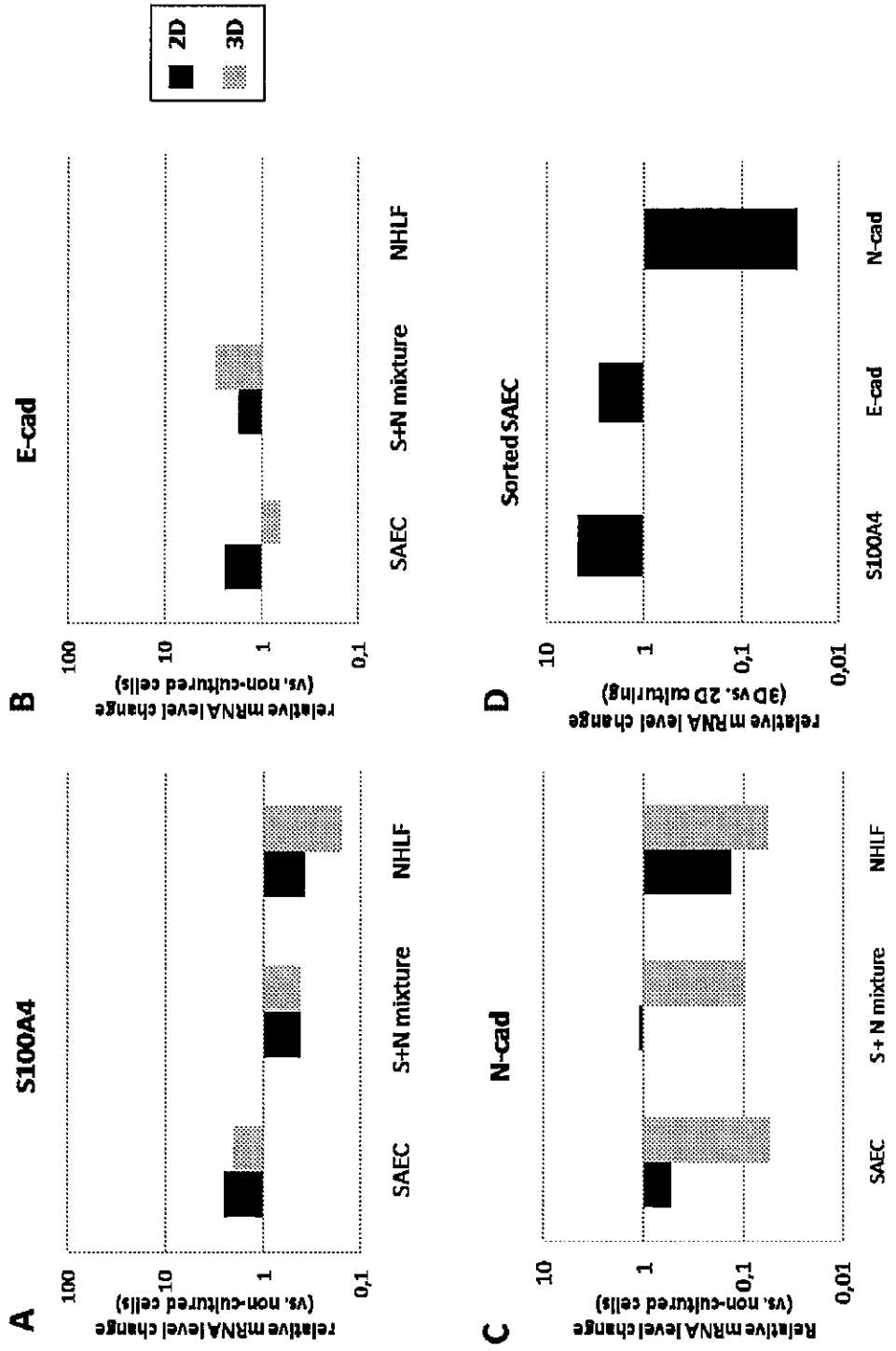

A
S100A4
relative mRNA level change (vs. non-cultured cells)
100
10
1
0,1
SAEC
S+N mixture
NHLF
B
E-cad
2D
3D
relative mRNA level change (vs. non-cultured cells)
100
10
1
0,1
SAEC
S+N mixture
NHLF
C
N-cad
Relative mRNA level change (vs. non-cultured cells)
10
1
0,1
0,01
SAEC
S+ N mixture
NHLF
D
Sorted SAEC
relative mRNA level change (3D vs. 2D culturing)
10
1
0,1
0,01
S100A4
E-cad
N-cad

Figure 6

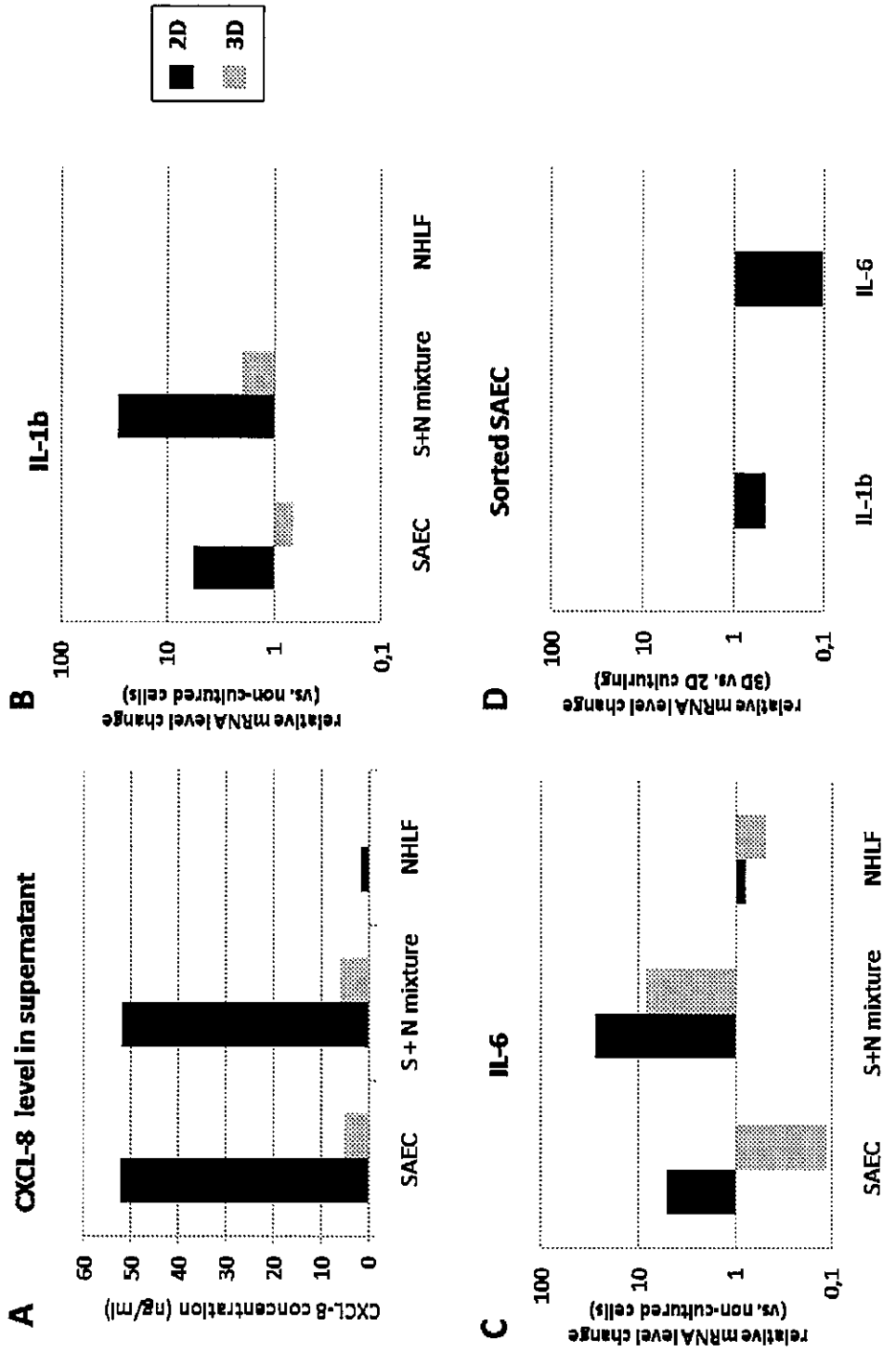

A
CXCL-8 level in supernatant
CXCL-8 concentration (ng/ml)
60
50
40
30
20
10
0
SAEC
S + N mixture
NHLF
B
IL-1b
relative mRNA level change (vs. non-cultured cells)
100
10
1
0,1
SAEC
S+N mixture
NHLF
2D
3D
C
IL-6
relative mRNA level change (vs. non-cultured cells)
100
10
1
0,1
SAEC
S+N mixture
NHLF
D
Sorted SAEC
relative mRNA level change (3D vs. 2D culturing)
100
10
1
0,1
IL-1b
IL-6

Figure 7

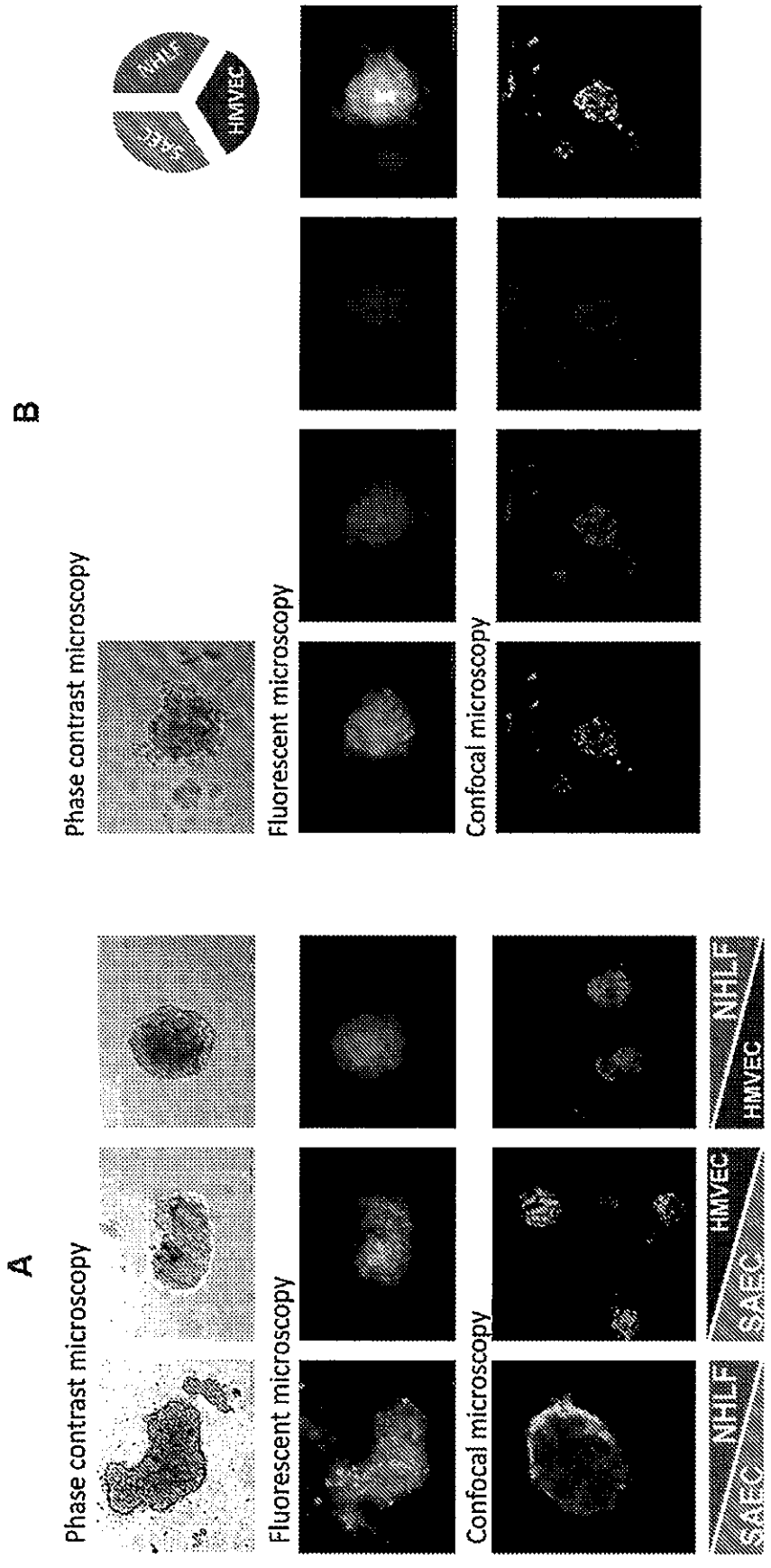

A
Phase contrast microscopy
Fluorescent microscopy
Confocal microscopy
NHLF
SAEC
HMVEC
B
Phase contrast microscopy
Fluorescent microscopy
Confocal microscopy
NHLF
SAEC
HMVEC

Figure 8

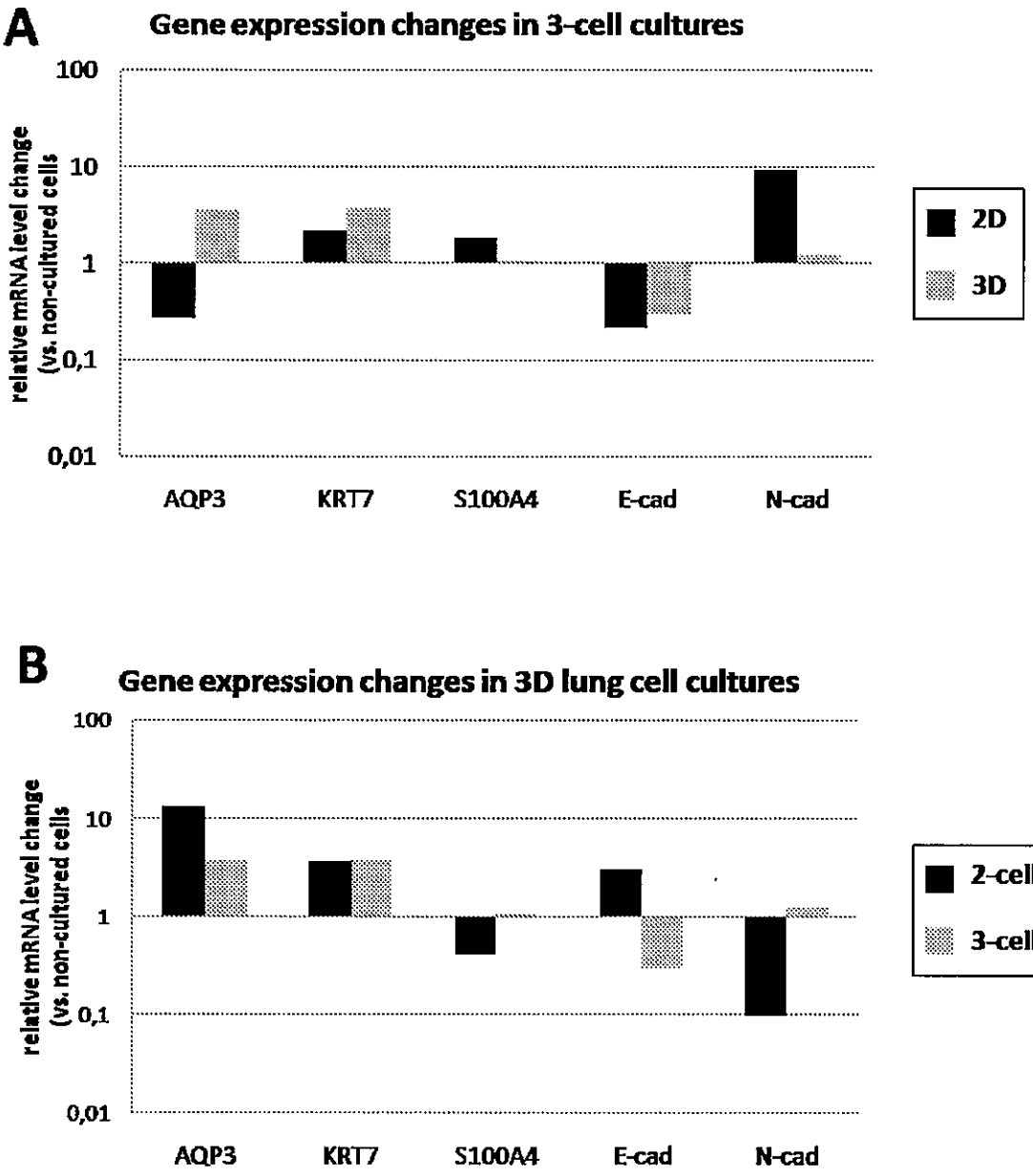

A
Gene expression changes in 3-cell cultures
relative mRNA level change (vs. non-cultured cells)
100
10
1
0,1
0,01
AQP3
KRT7
S100A4
E-cad
N-cad
2D
3D
B
Gene expression changes in 3D lung cell cultures
relative mRNA level change (vs. non-cultured cells)
100
10
1
0,1
0,01
AQP3
KRT7
S100A4
E-cad
N-cad
2-cell cultures
3-cell cultures

Figure 9

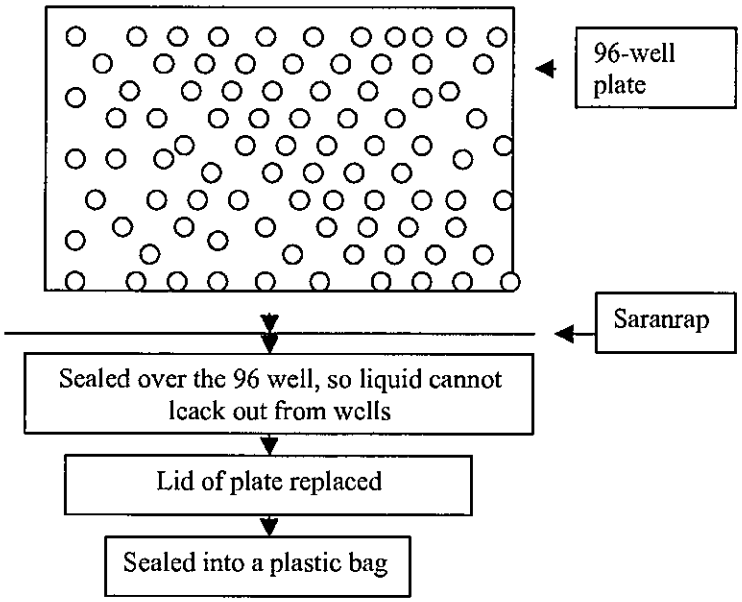


Figure 10

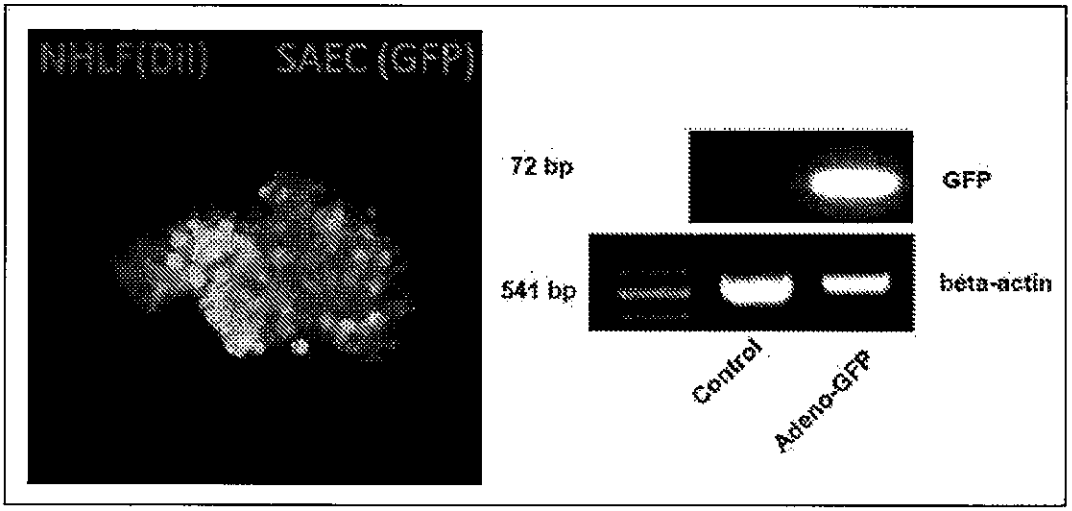


Figure 11.a

Figure 11.b