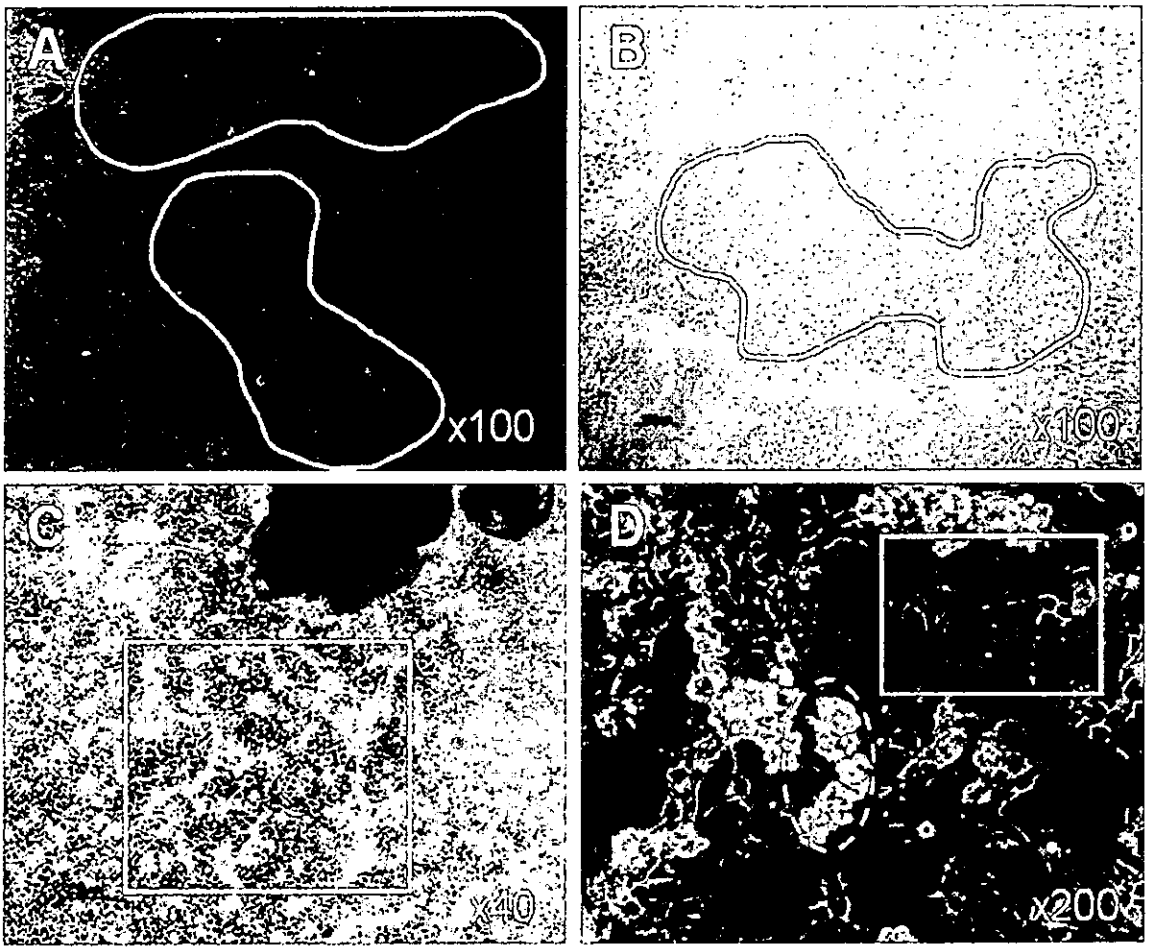


Fig. 1

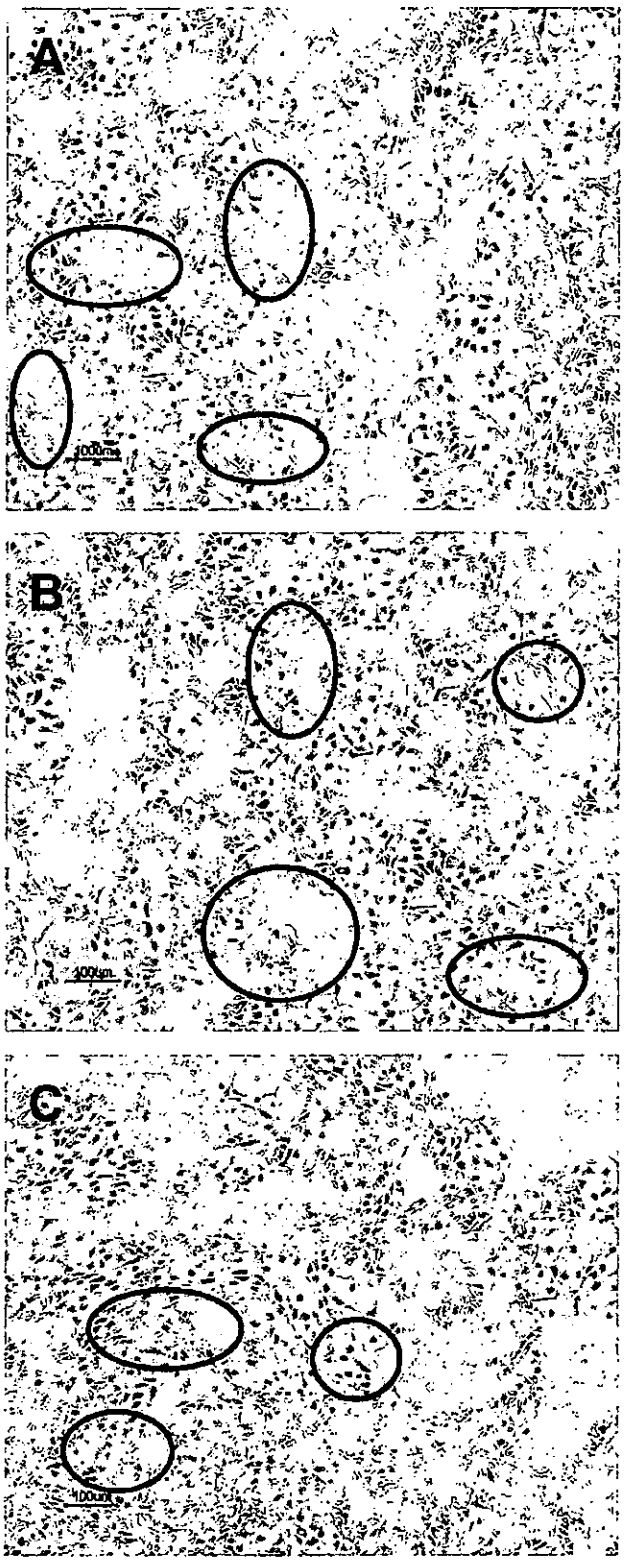


Fig. 2



Fig. 3

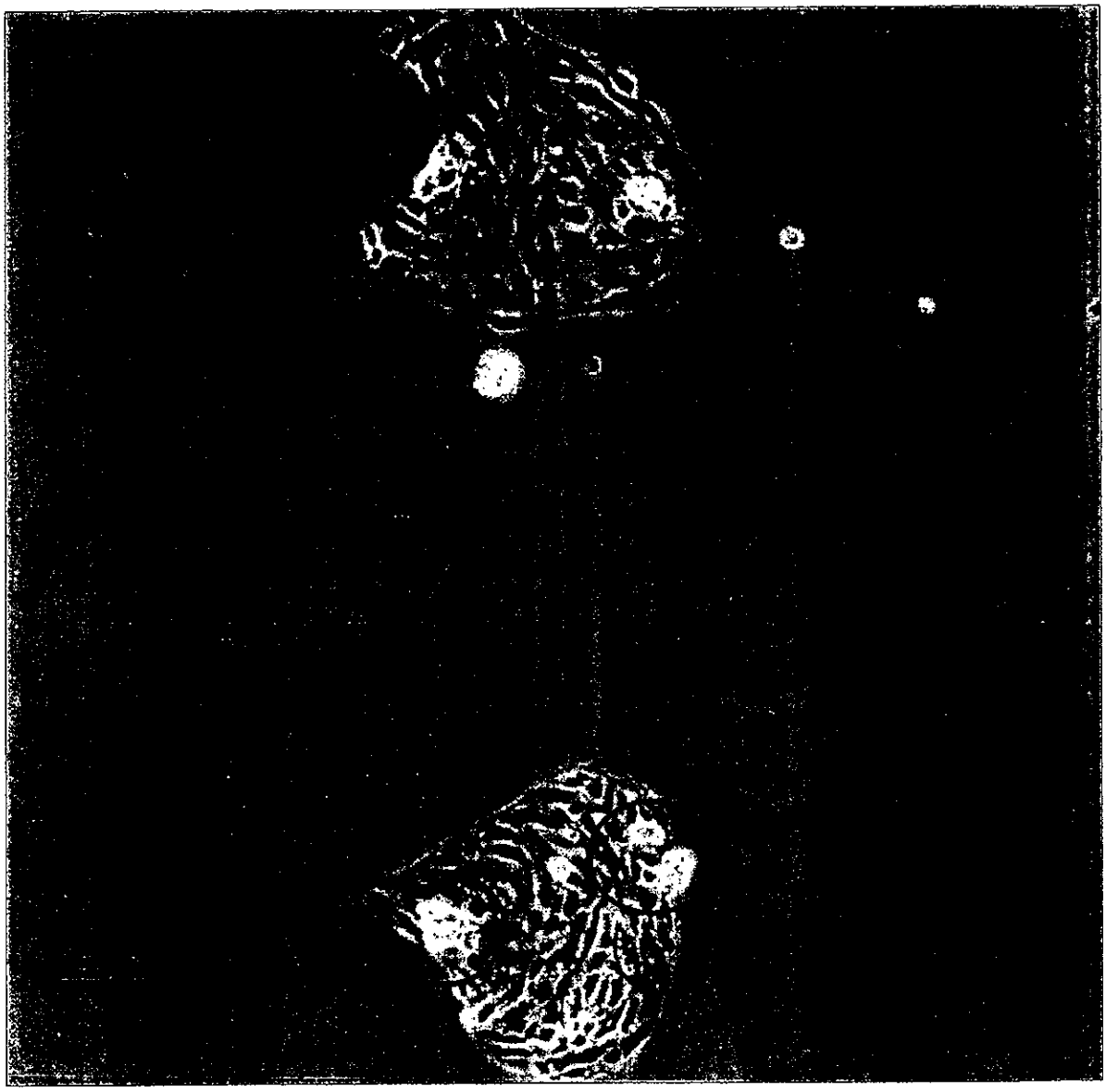


Fig. 4

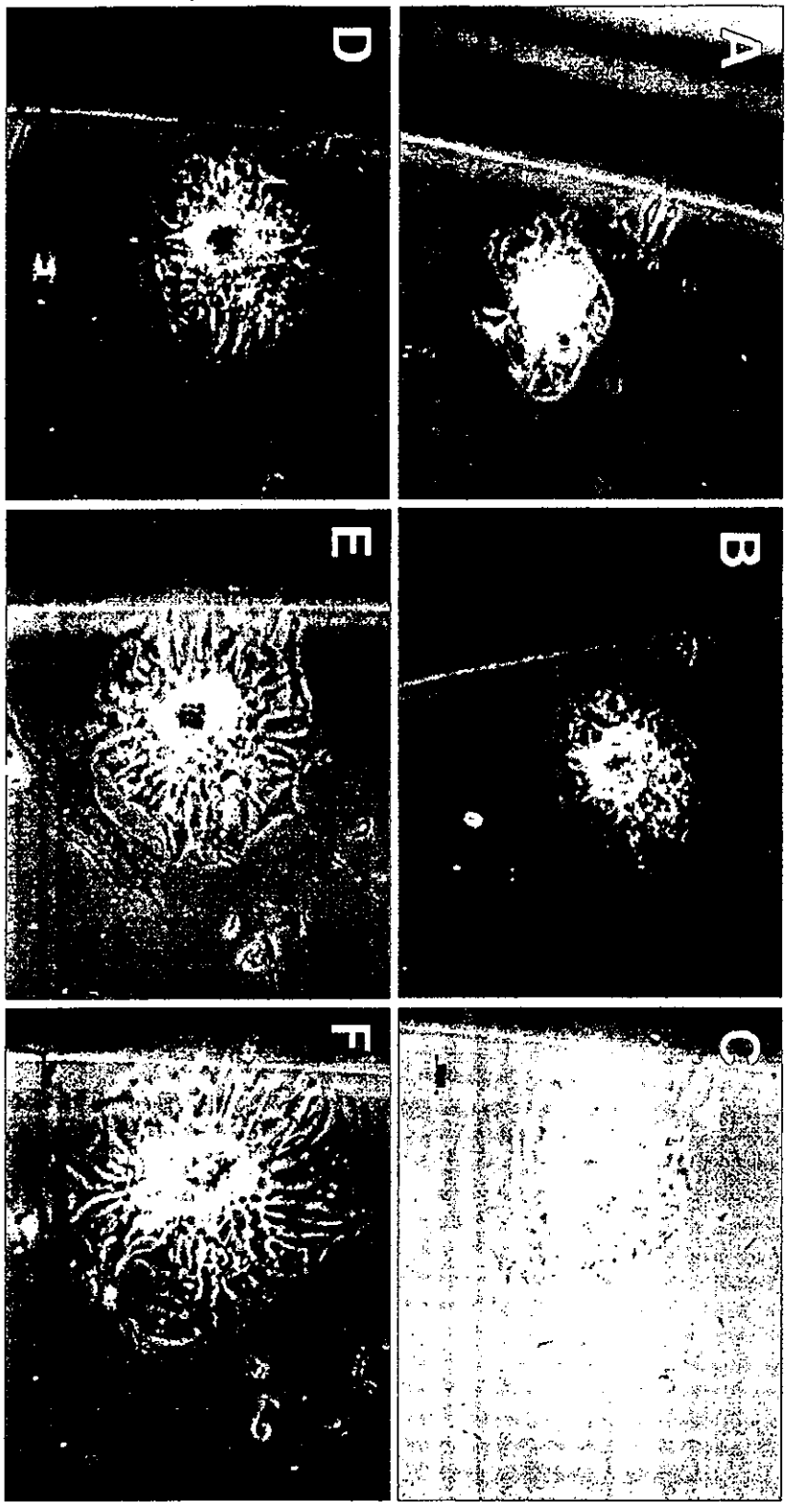


Fig. 5

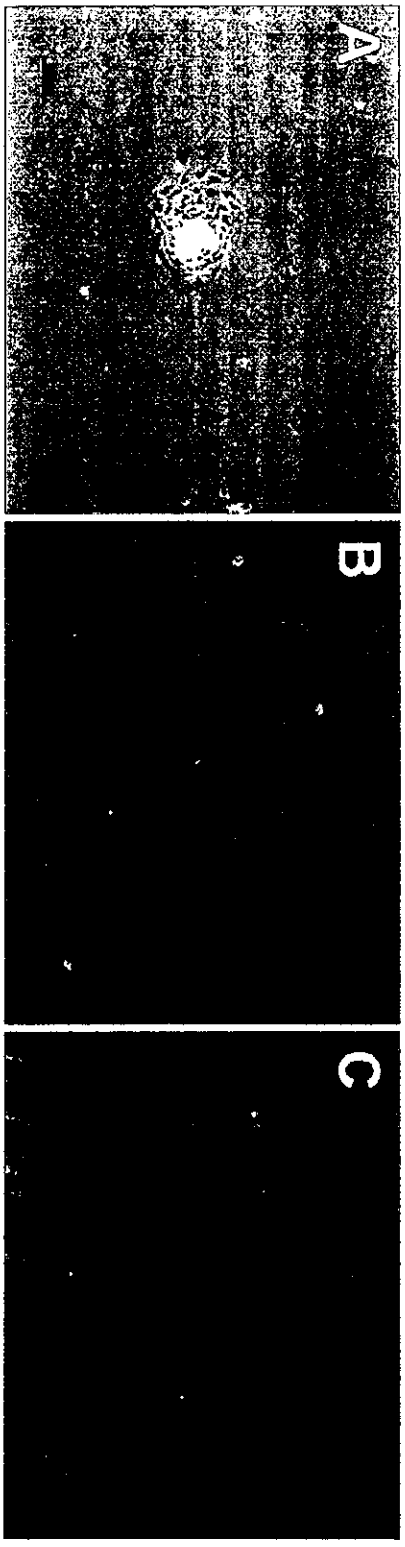


Fig. 6

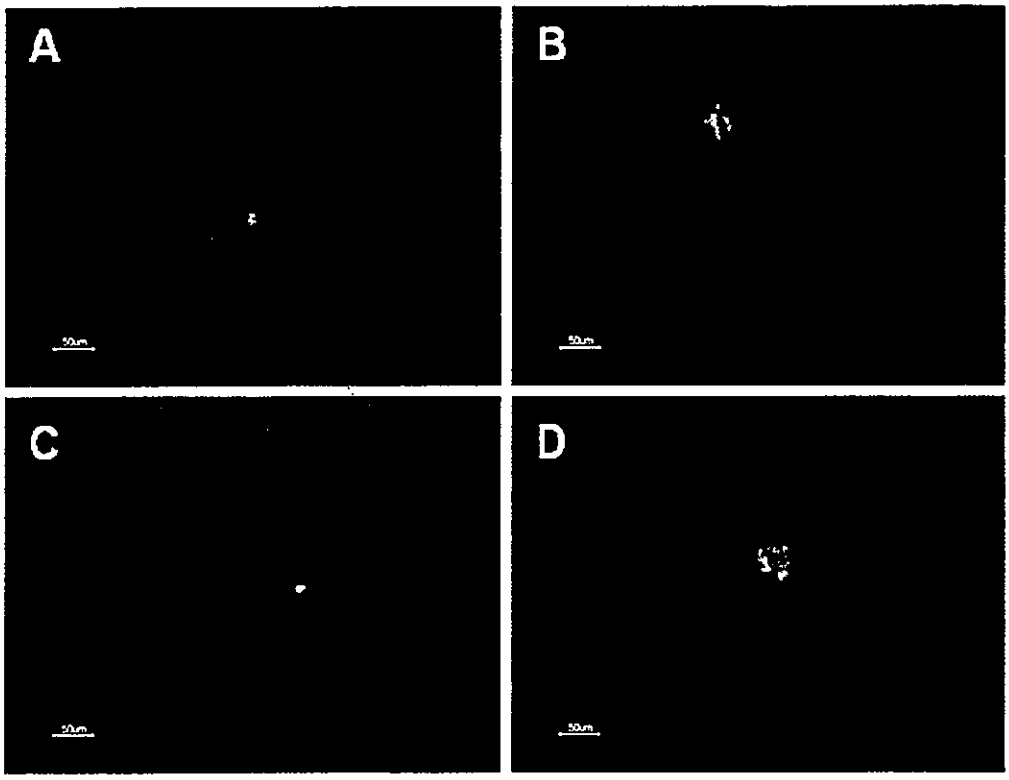


Fig. 7

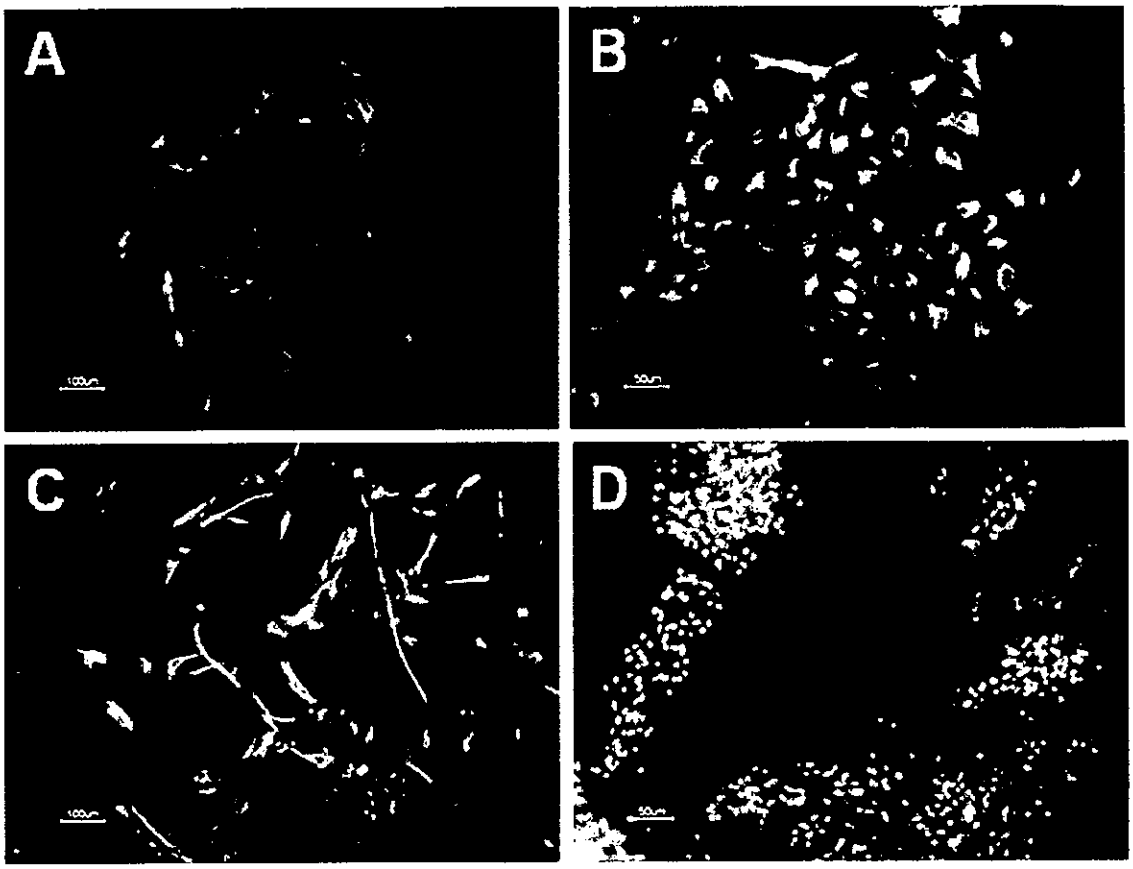


Fig. 8

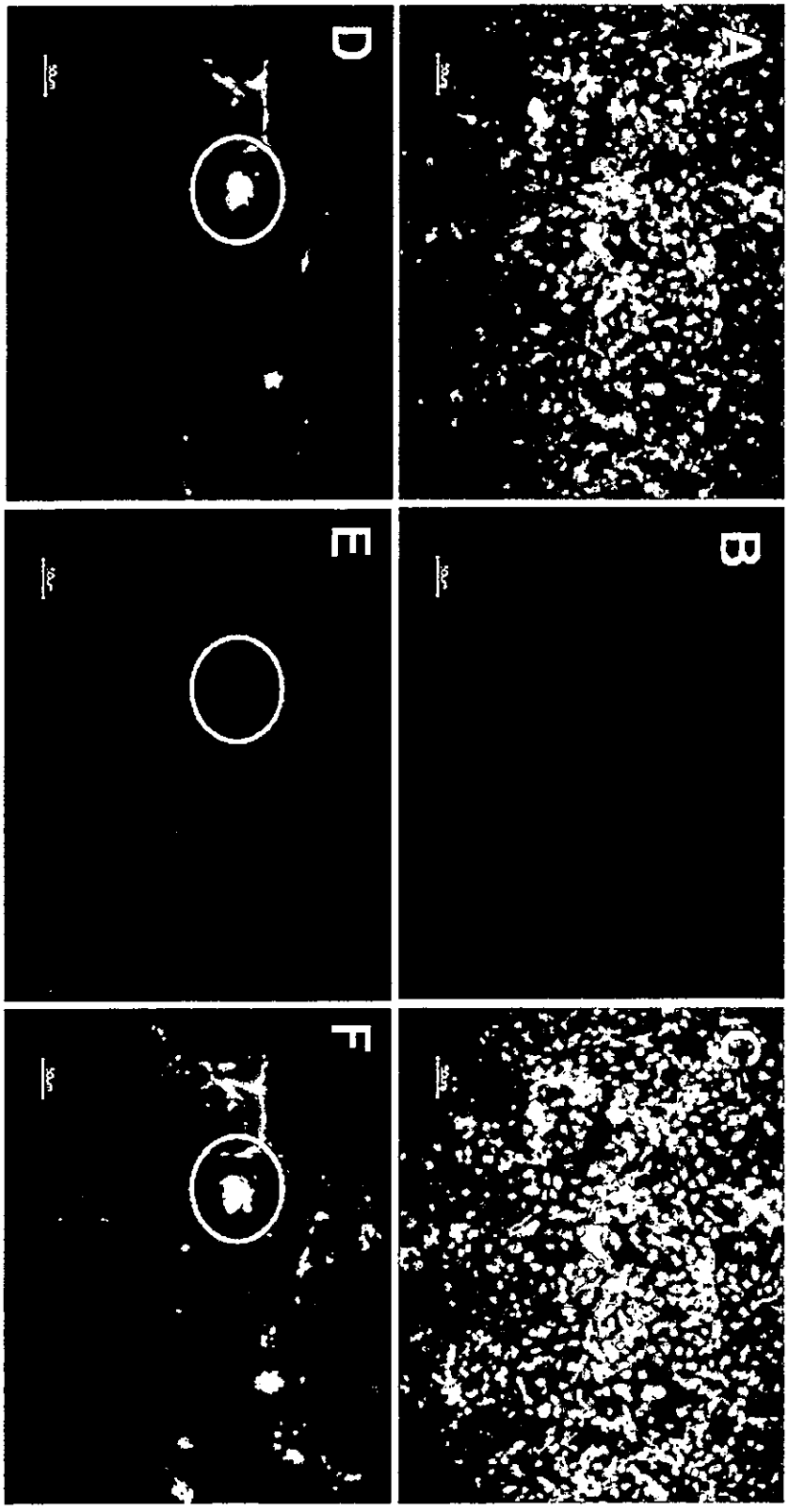


Fig. 9

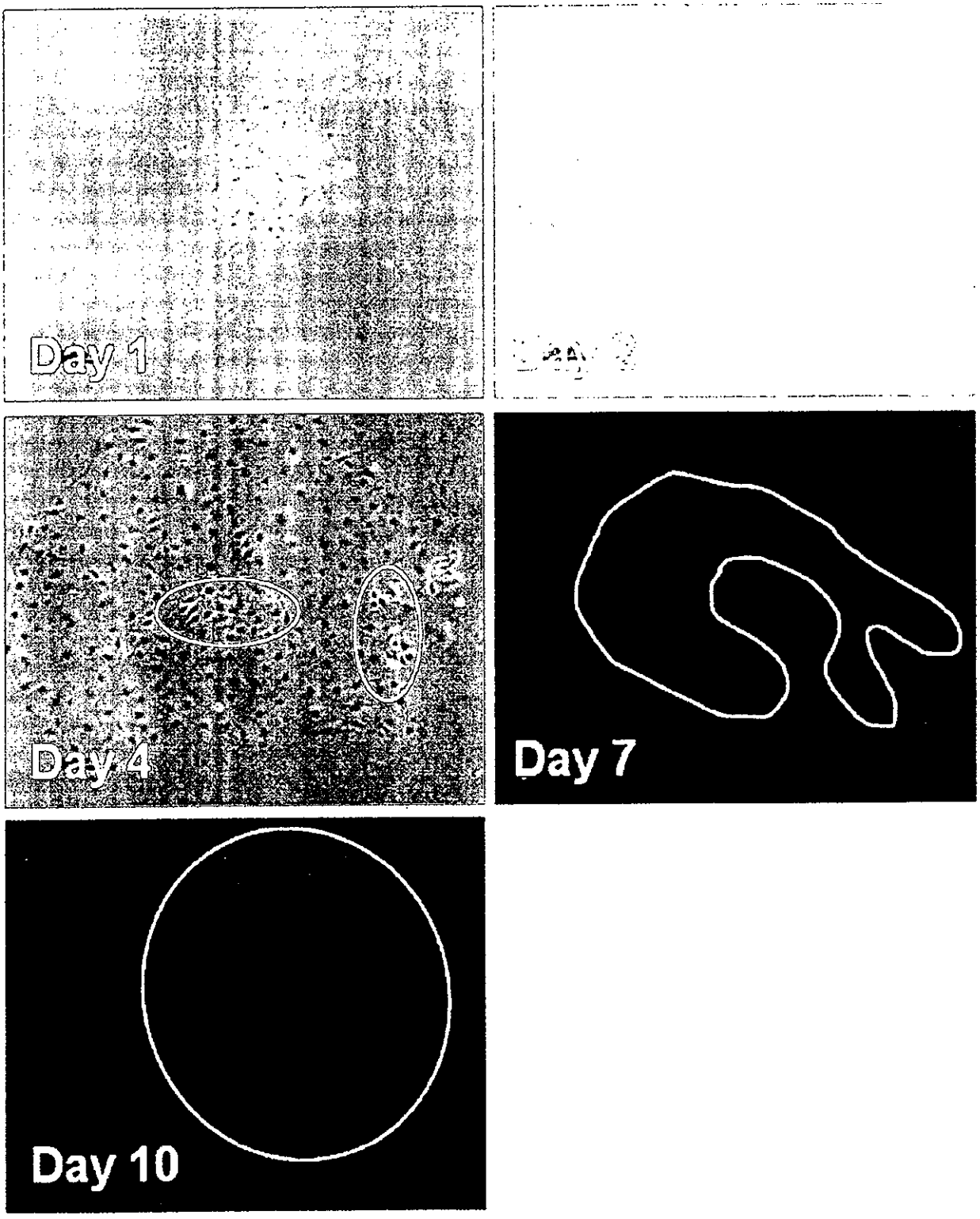


Fig. 10

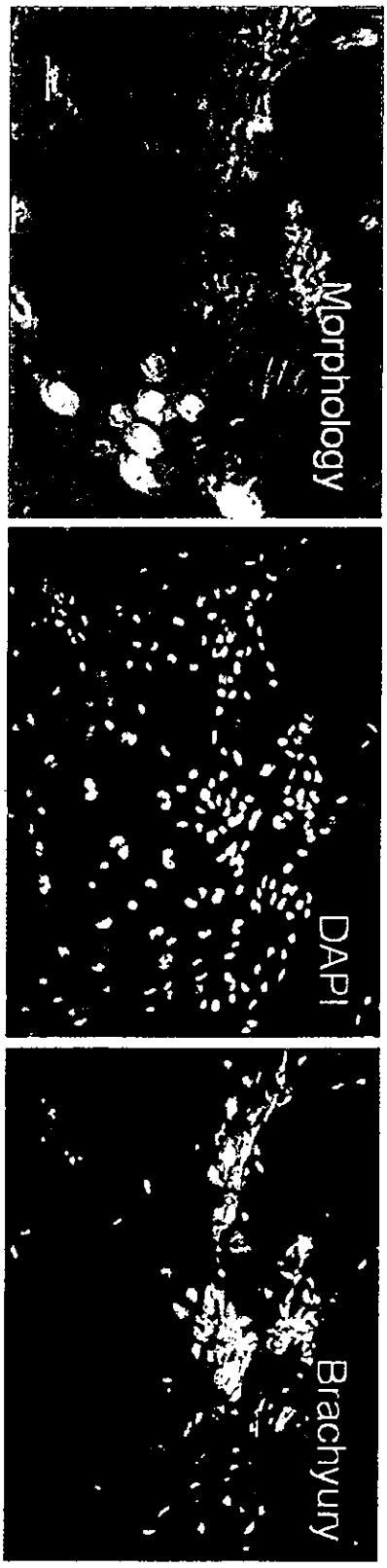


Fig. 11

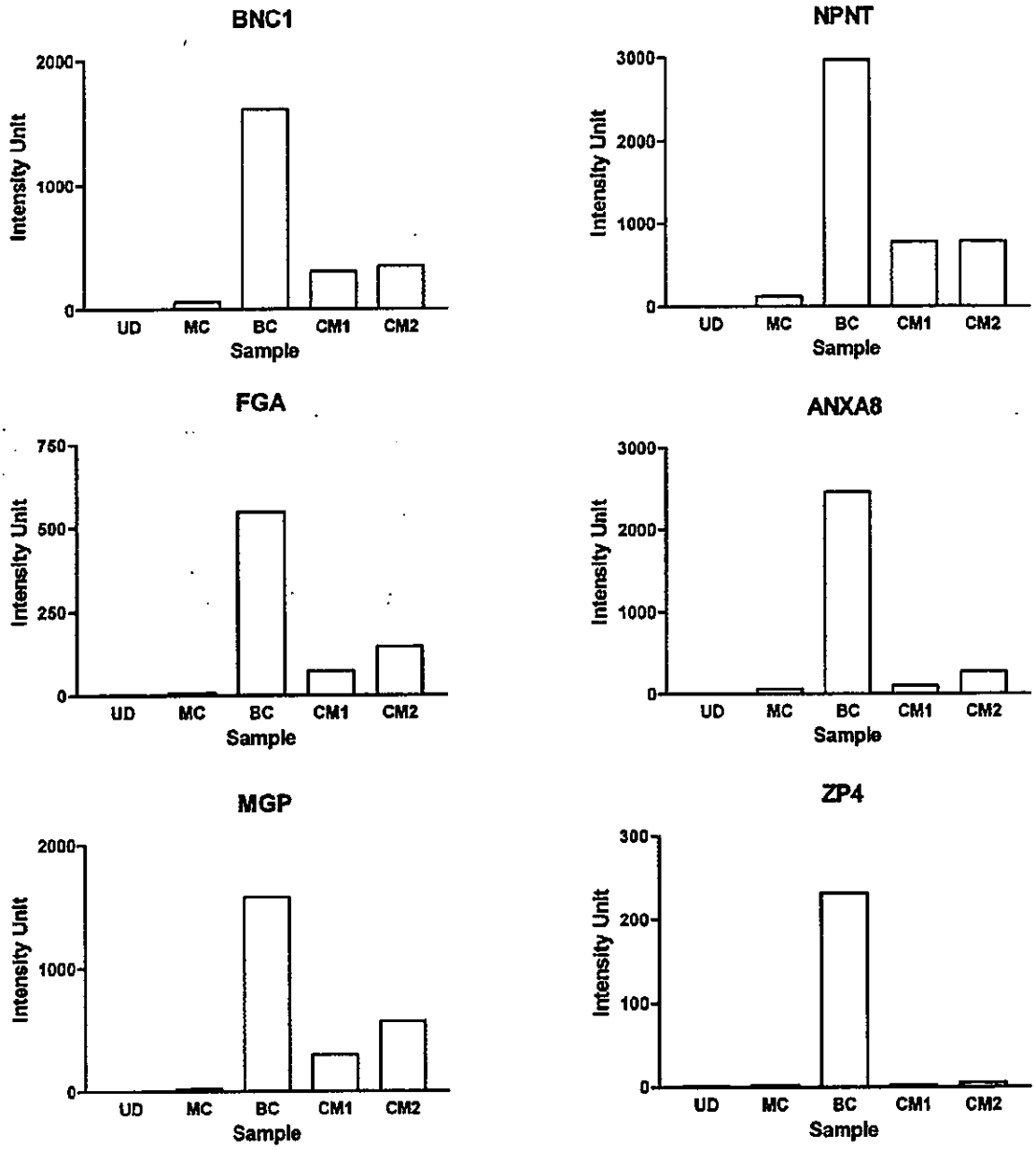

BNC1
Intensity Unit
2000
1000
0
UD
MC
BC
CM1
CM2
Sample
NPNT
Intensity Unit
3000
2000
1000
0
UD
MC
BC
CM1
CM2
Sample
FGA
Intensity Unit
750
500
250
0
UD
MC
BC
CM1
CM2
Sample
ANXA8
Intensity Unit
3000
2000
1000
0
UD
MC
BC
CM1
CM2
Sample
MGP
Intensity Unit
2000
1000
0
UD
MC
BC
CM1
CM2
Sample
ZP4
Intensity Unit
300
200
100
0
UD
MC
BC
CM1
CM2
Sample

Fig. 12 A

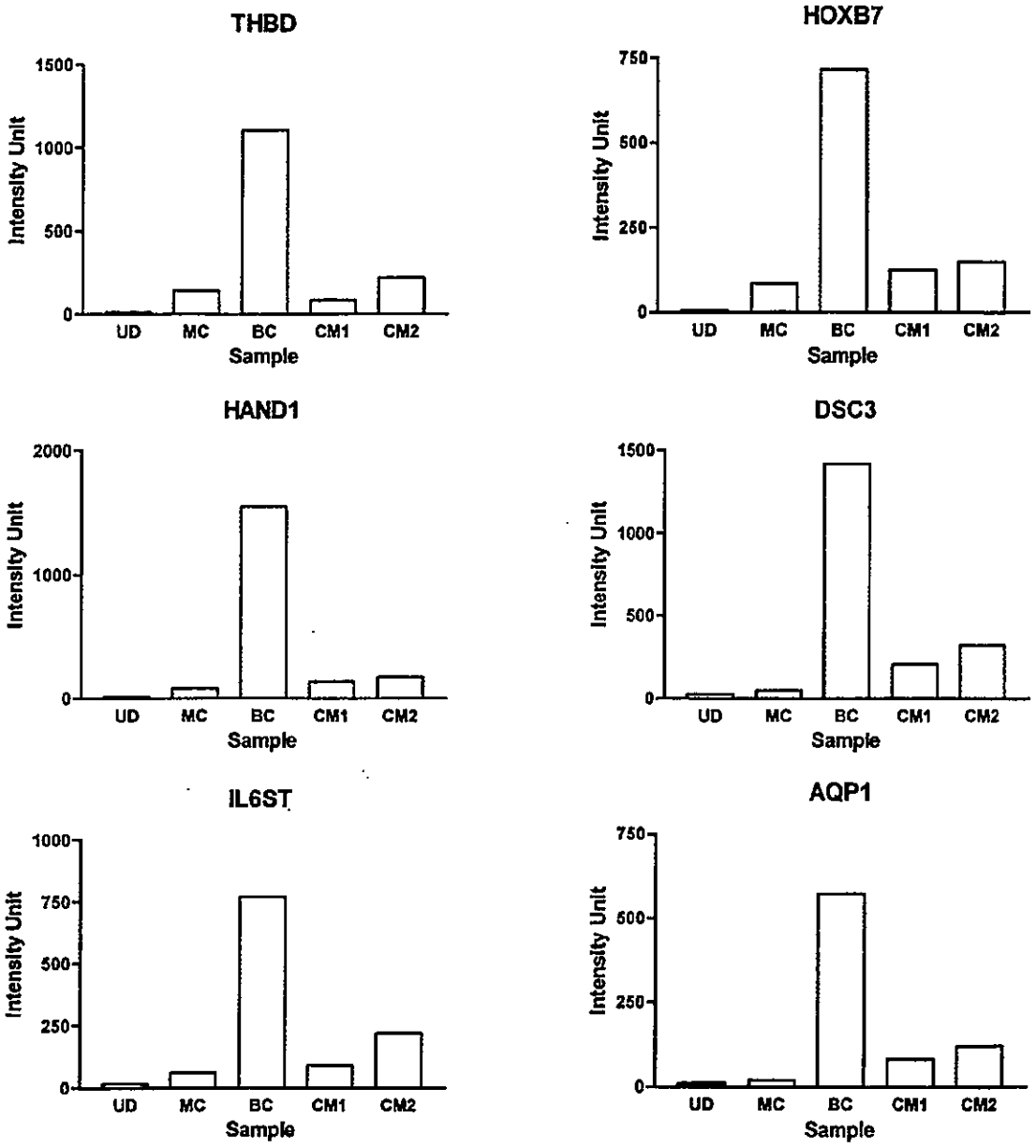

THBD
Intensity Unit
1500
1000
500
0
UD
MC
BC
CM1
CM2
Sample
HOXB7
Intensity Unit
750
500
250
0
UD
MC
BC
CM1
CM2
Sample
HAND1
Intensity Unit
2000
1000
0
UD
MC
BC
CM1
CM2
Sample
DSC3
Intensity Unit
1500
1000
500
0
UD
MC
BC
CM1
CM2
Sample
IL6ST
Intensity Unit
1000
750
500
250
0
UD
MC
BC
CM1
CM2
Sample
AQP1
Intensity Unit
750
500
250
0
UD
MC
BC
CM1
CM2
Sample

Fig. 12 B

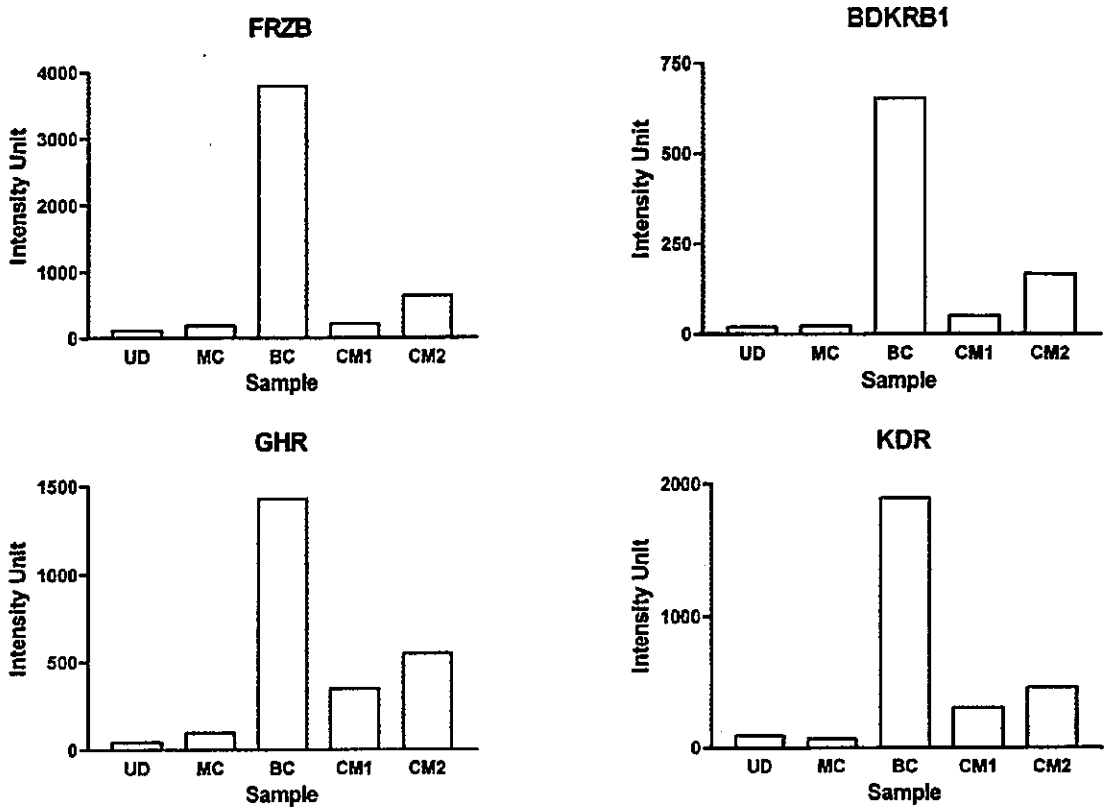

FRZB
Intensity Unit
4000
3000
2000
1000
0
UD
MC
BC
CM1
CM2
Sample
BDKRB1
Intensity Unit
750
500
250
0
UD
MC
BC
CM1
CM2
Sample
GHR
Intensity Unit
1500
1000
500
0
UD
MC
BC
CM1
CM2
Sample
KDR
Intensity Unit
2000
1000
0
UD
MC
BC
CM1
CM2
Sample

Fig. 12 C

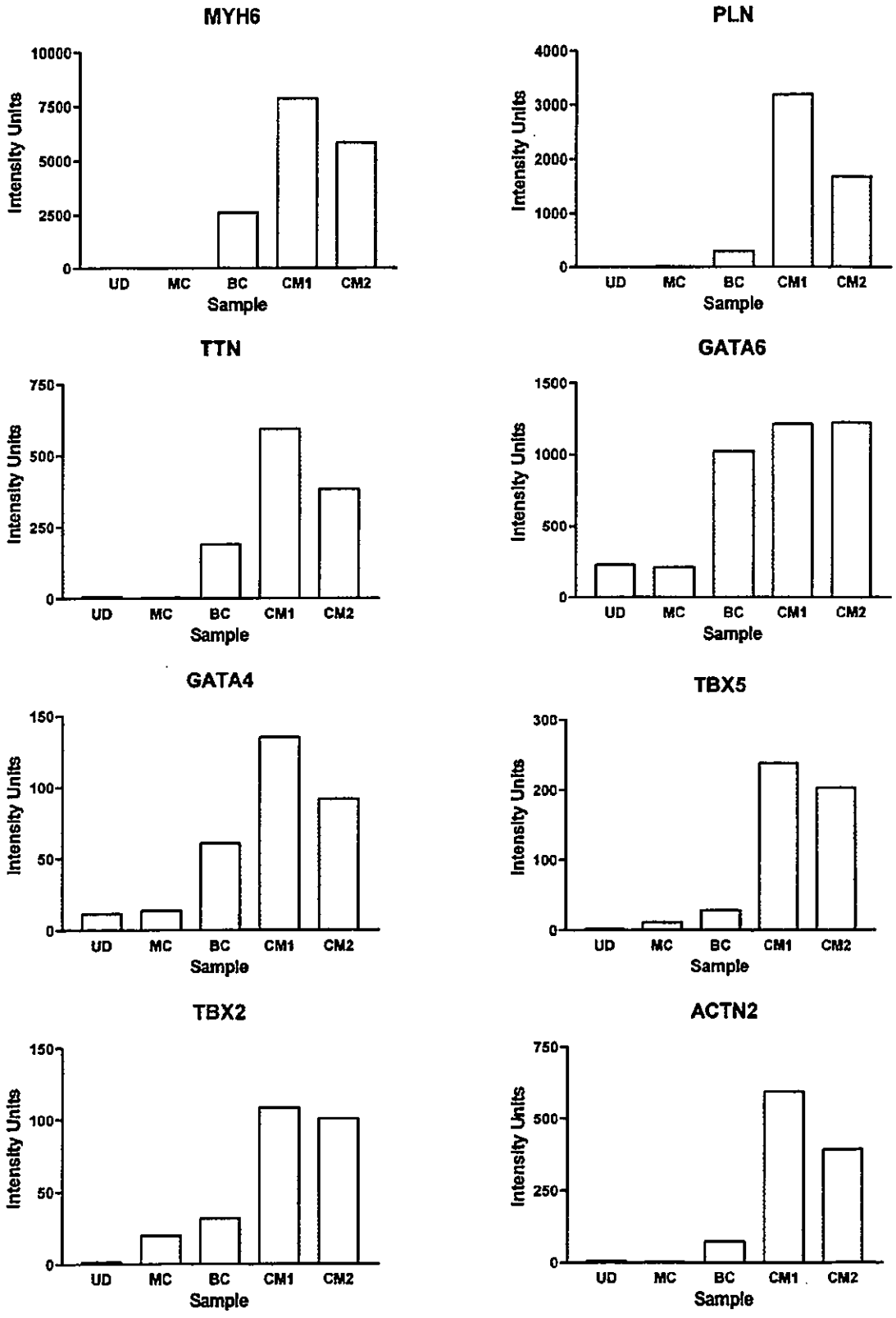

MYH6
Intensity Units
10000
7500
5000
2500
0
UD
MC
BC
CM1
CM2
Sample
PLN
Intensity Units
4000
3000
2000
1000
0
UD
MC
BC
CM1
CM2
Sample
TTN
Intensity Units
750
500
250
0
UD
MC
BC
CM1
CM2
Sample
GATA6
Intensity Units
1500
1000
500
0
UD
MC
BC
CM1
CM2
Sample
GATA4
Intensity Units
150
100
50
0
UD
MC
BC
CM1
CM2
Sample
TBX5
Intensity Units
300
200
100
0
UD
MC
BC
CM1
CM2
Sample
TBX2
Intensity Units
150
100
50
0
UD
MC
BC
CM1
CM2
Sample
ACTN2
Intensity Units
750
500
250
0
UD
MC
BC
CM1
CM2
Sample

Fig. 13 A

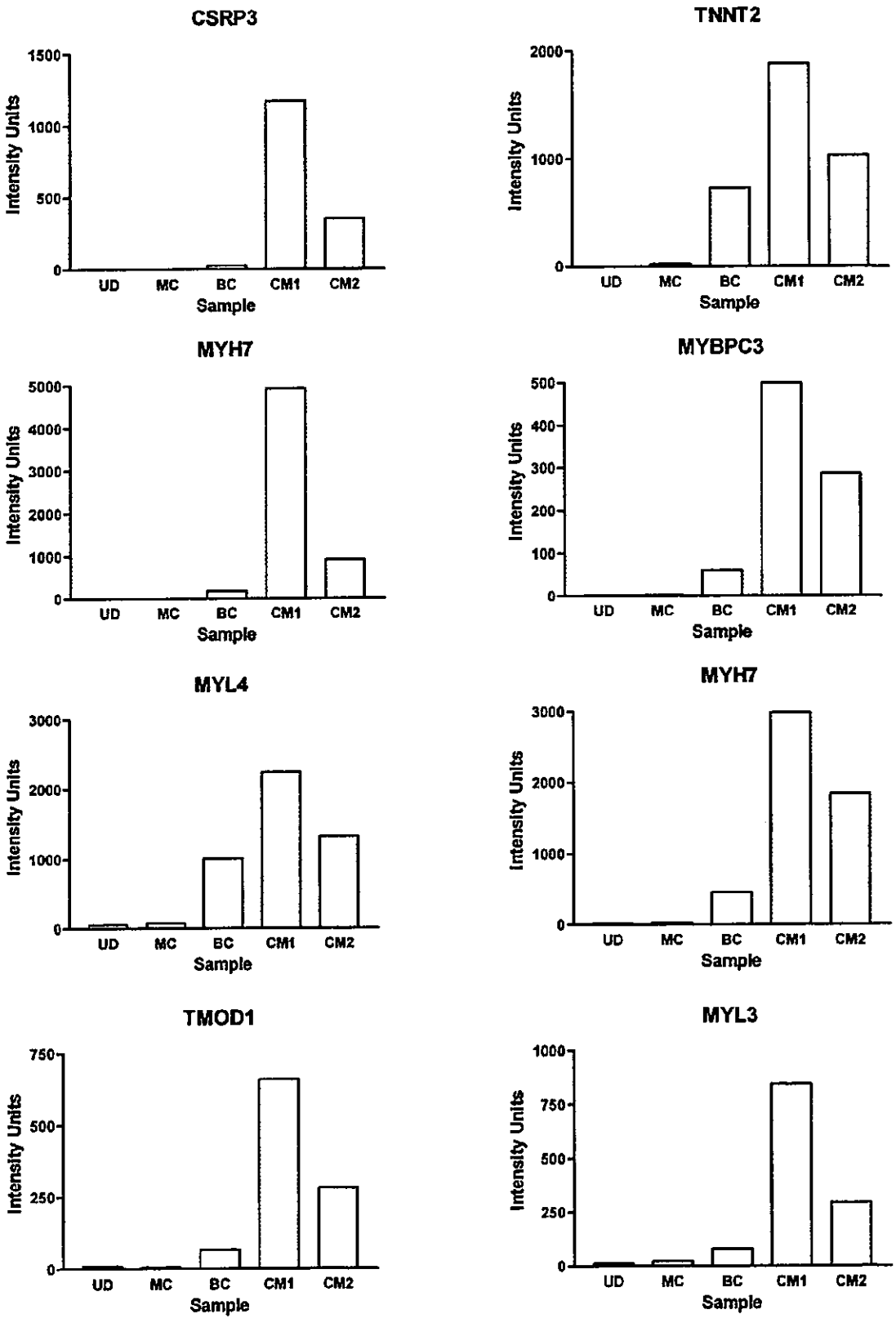

CSRP3
Intensity Units
1500
1000
500
0
UD
MC
BC
CM1
CM2
Sample
TNNT2
Intensity Units
2000
1000
0
UD
MC
BC
CM1
CM2
Sample
MYH7
Intensity Units
5000
4000
3000
2000
1000
0
UD
MC
BC
CM1
CM2
Sample
MYBPC3
Intensity Units
500
400
300
200
100
0
UD
MC
BC
CM1
CM2
Sample
MYL4
Intensity Units
3000
2000
1000
0
UD
MC
BC
CM1
CM2
Sample
MYH7
Intensity Units
3000
2000
1000
0
UD
MC
BC
CM1
CM2
Sample
TMOD1
Intensity Units
750
500
250
0
UD
MC
BC
CM1
CM2
Sample
MYL3
Intensity Units
1000
750
500
250
0
UD
MC
BC
CM1
CM2
Sample

Fig. 13 B

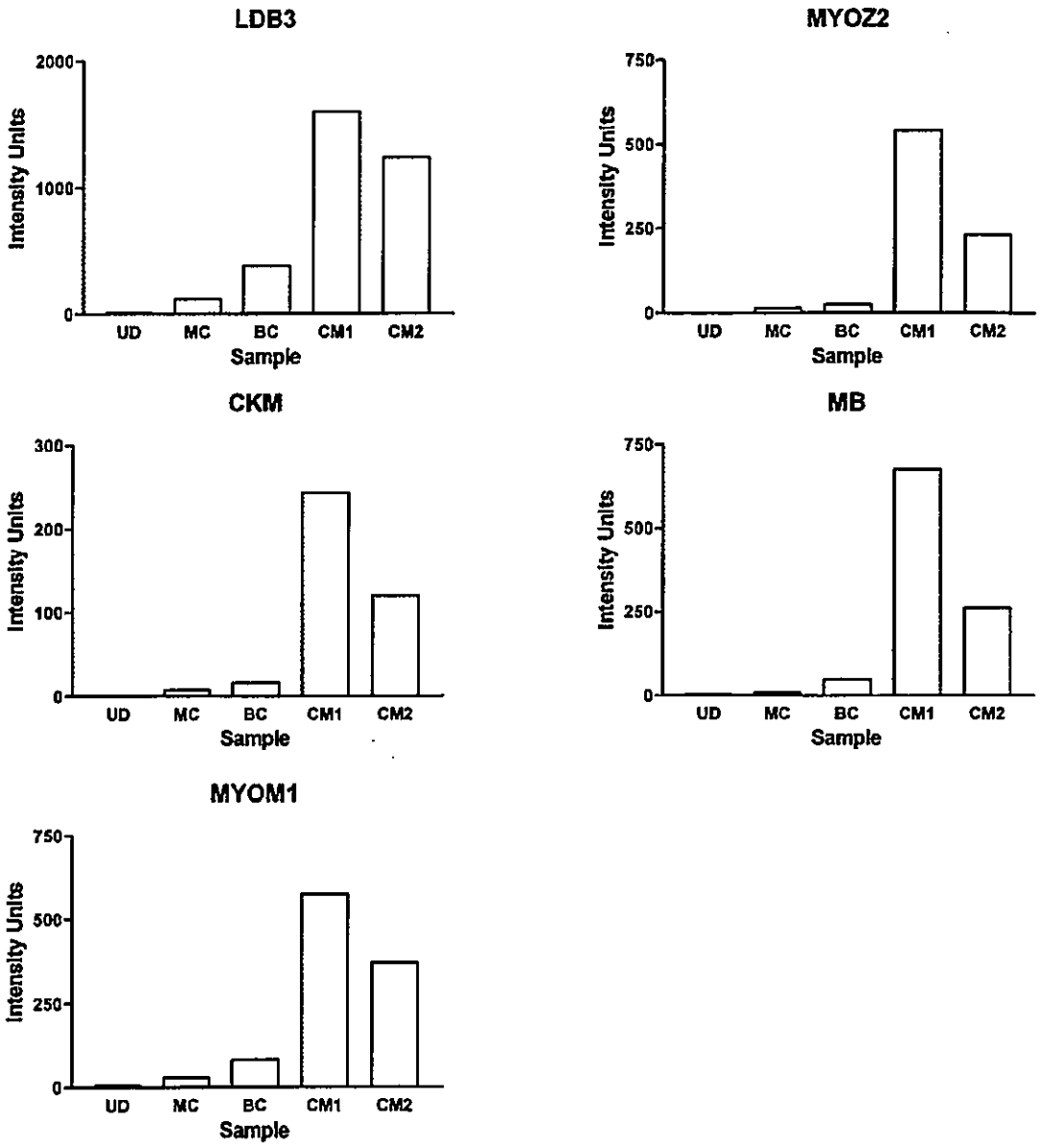

LDB3
Intensity Units
2000
1000
0
UD
MC
BC
CM1
CM2
Sample
MYOZ2
Intensity Units
750
500
250
0
UD
MC
BC
CM1
CM2
Sample
CKM
Intensity Units
300
200
100
0
UD
MC
BC
CM1
CM2
Sample
MB
Intensity Units
750
500
250
0
UD
MC
BC
CM1
CM2
Sample
MYOM1
Intensity Units
750
500
250
0
UD
MC
BC
CM1
CM2
Sample

Fig. 13 C

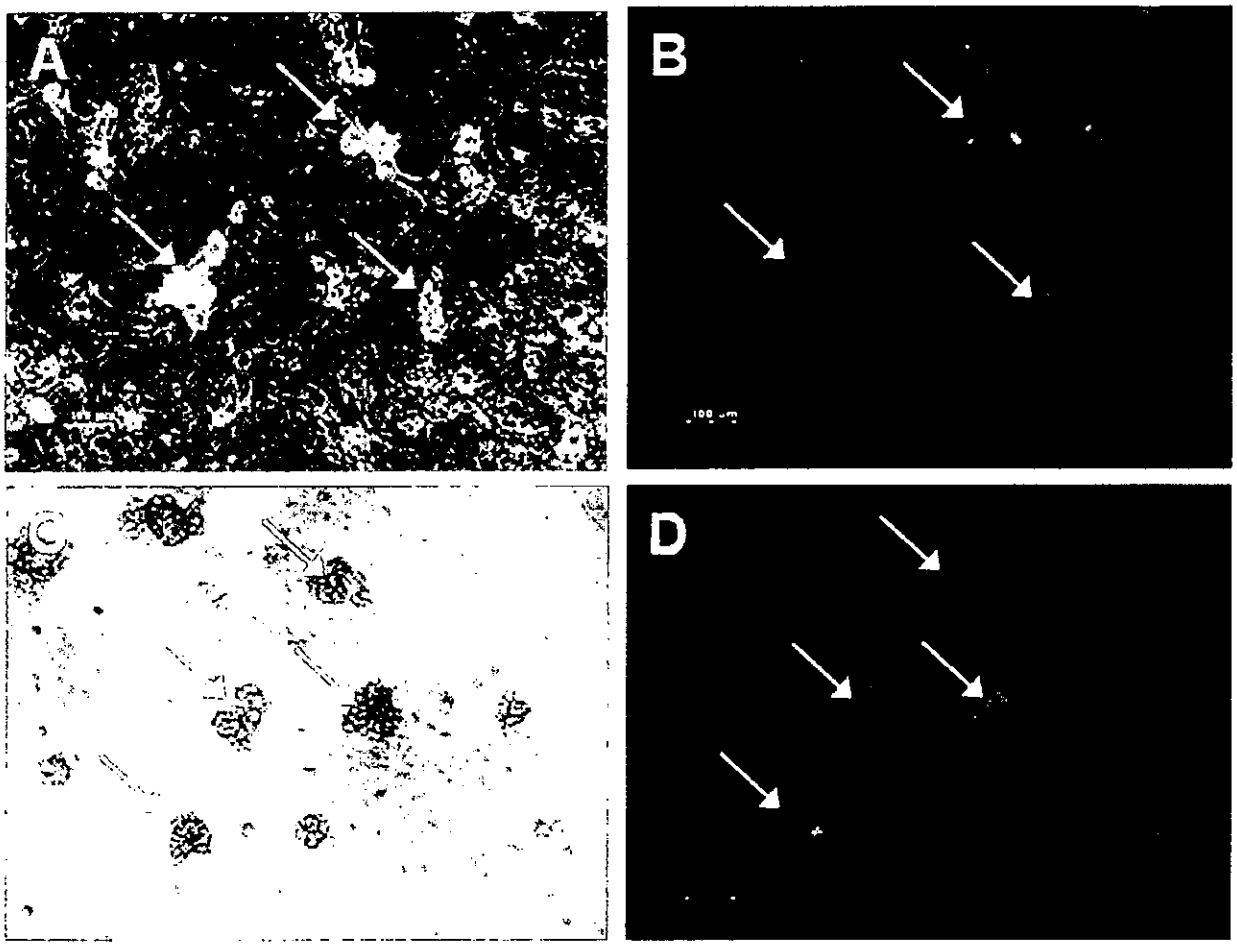


Fig. 14

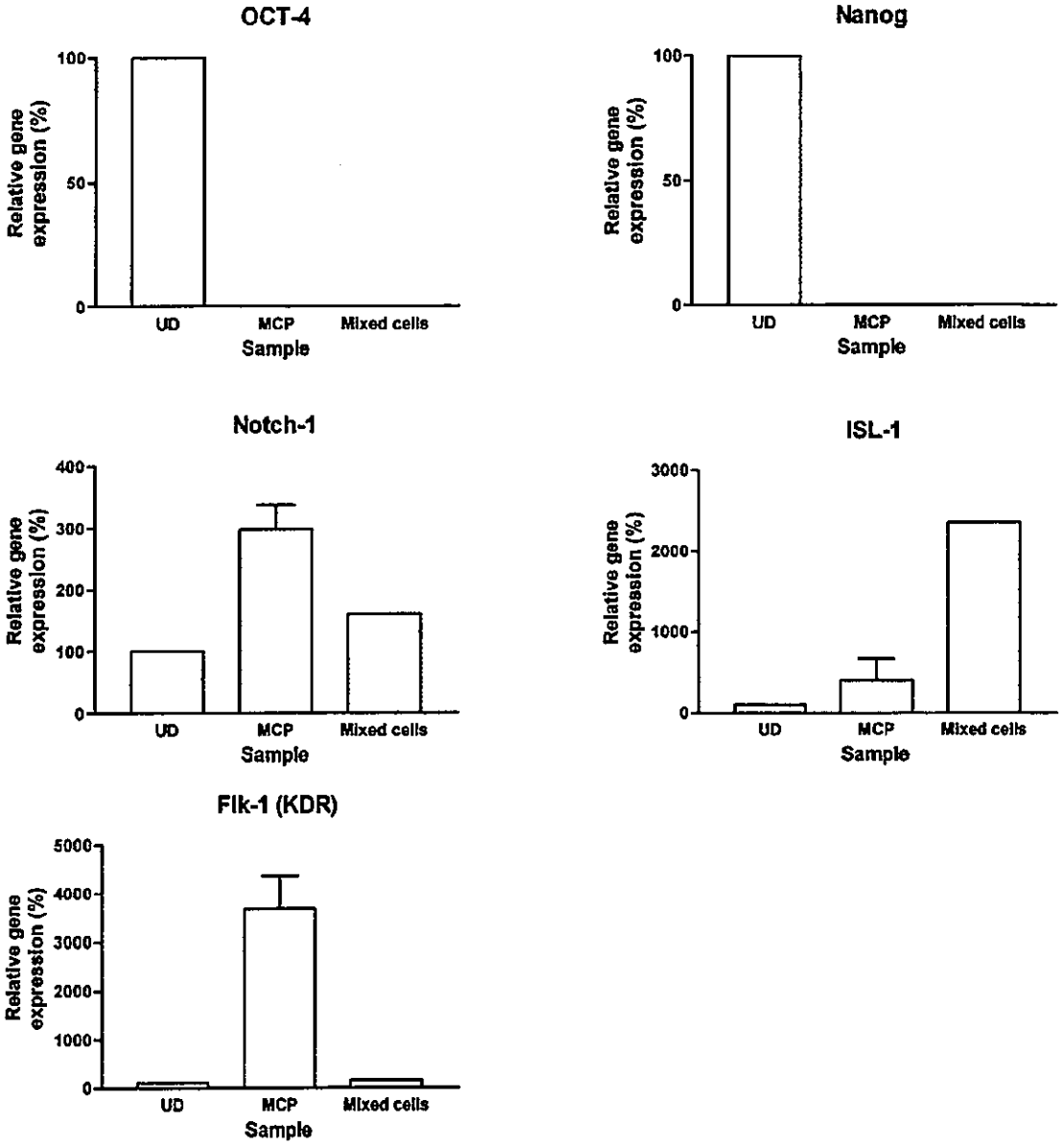

OCT-4
Relative gene expression (%)
100
50
0
UD
MCP
Mixed cells
Sample
Nanog
Relative gene expression (%)
100
50
0
UD
MCP
Mixed cells
Sample
Notch-1
Relative gene expression (%)
400
300
200
100
0
UD
MCP
Mixed cells
Sample
ISL-1
Relative gene expression (%)
3000
2000
1000
0
UD
MCP
Mixed cells
Sample
Flk-1 (KDR)
Relative gene expression (%)
5000
4000
3000
2000
1000
0
UD
MCP
Mixed cells
Sample

Fig. 15 A

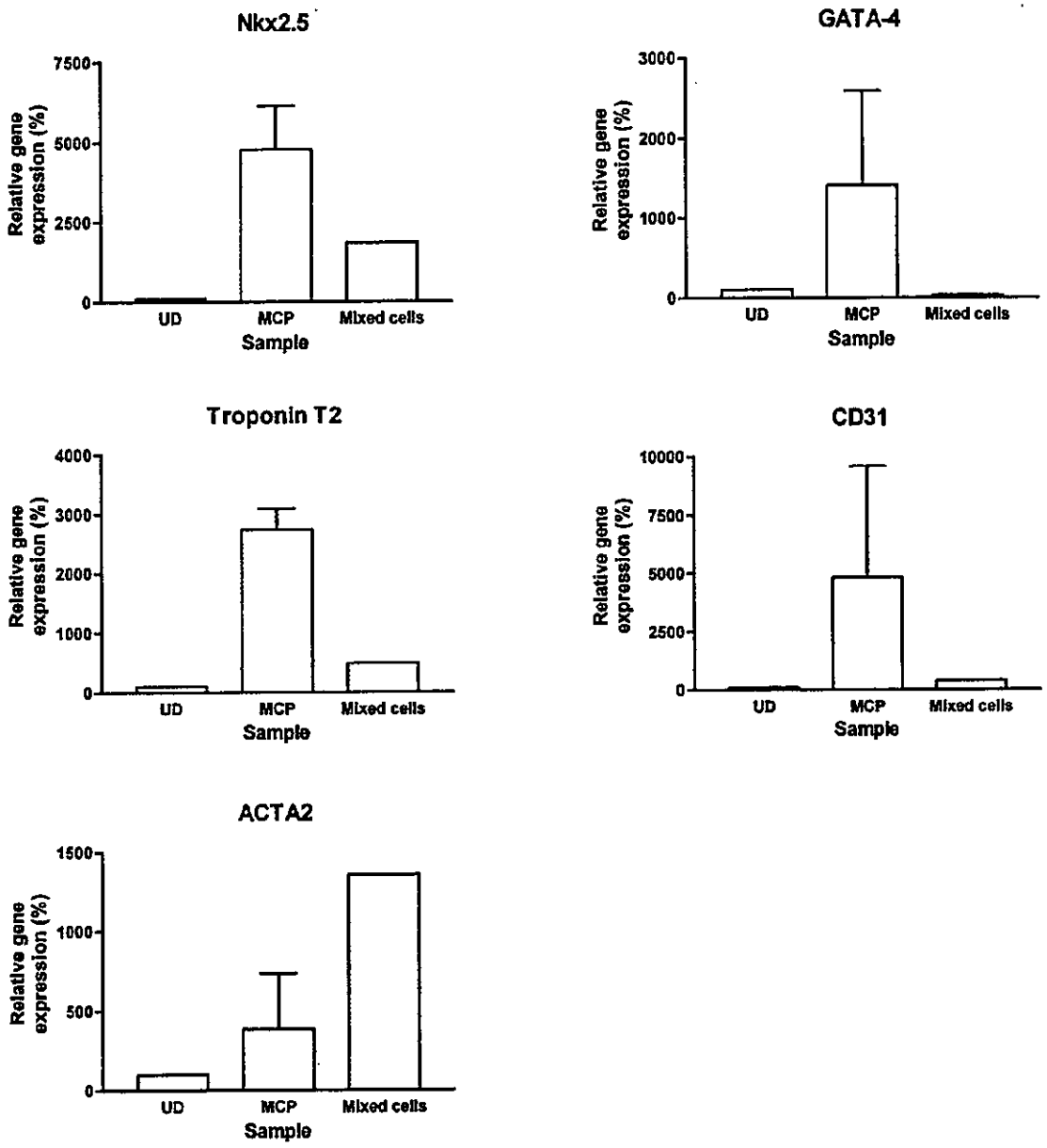

Nkx2.5
Relative gene expression (%)
7500
5000
2500
0
UD
MCP
Mixed cells
Sample
GATA-4
Relative gene expression (%)
3000
2000
1000
0
UD
MCP
Mixed cells
Sample
Troponin T2
Relative gene expression (%)
4000
3000
2000
1000
0
UD
MCP
Mixed cells
Sample
CD31
Relative gene expression (%)
10000
7500
5000
2500
0
UD
MCP
Mixed cells
Sample
ACTA2
Relative gene expression (%)
1500
1000
500
0
UD
MCP
Mixed cells
Sample

Fig. 15 B

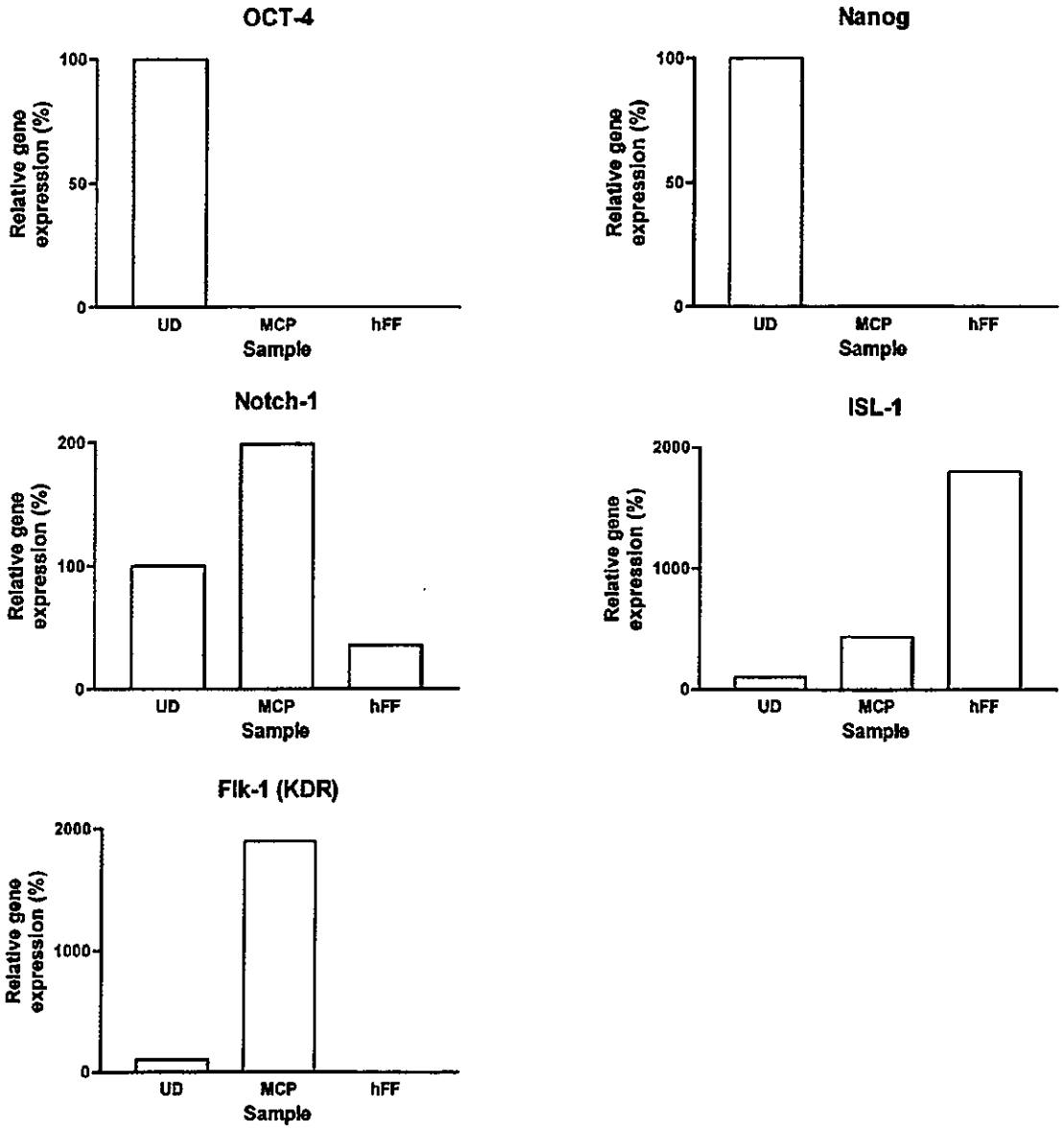

OCT-4
Relative gene expression (%)
100
50
0
UD
MCP
hFF
Sample
Nanog
Relative gene expression (%)
100
50
0
UD
MCP
hFF
Sample
Notch-1
Relative gene expression (%)
200
100
0
UD
MCP
hFF
Sample
ISL-1
Relative gene expression (%)
2000
1000
0
UD
MCP
hFF
Sample
Flk-1 (KDR)
Relative gene expression (%)
2000
1000
0
UD
MCP
hFF
Sample

Fig. 16 A

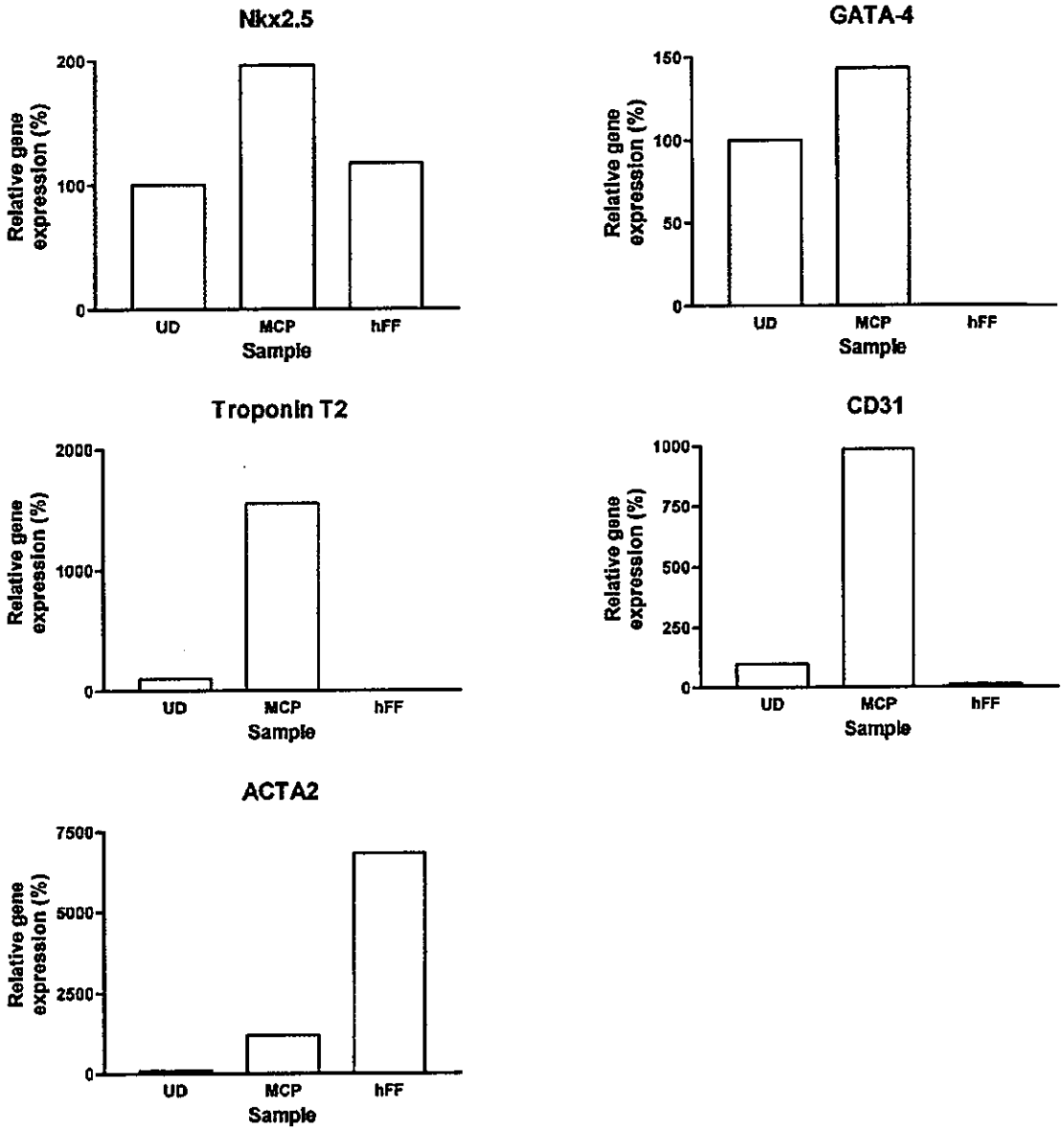

Nkx2.5
Relative gene expression (%)
200
100
0
UD
MCP
hFF
Sample
GATA-4
Relative gene expression (%)
150
100
50
0
UD
MCP
hFF
Sample
Troponin T2
Relative gene expression (%)
2000
1000
0
UD
MCP
hFF
Sample
CD31
Relative gene expression (%)
1000
750
500
250
0
UD
MCP
hFF
Sample
ACTA2
Relative gene expression (%)
7500
5000
2500
0
UD
MCP
hFF
Sample

Fig. 16 B

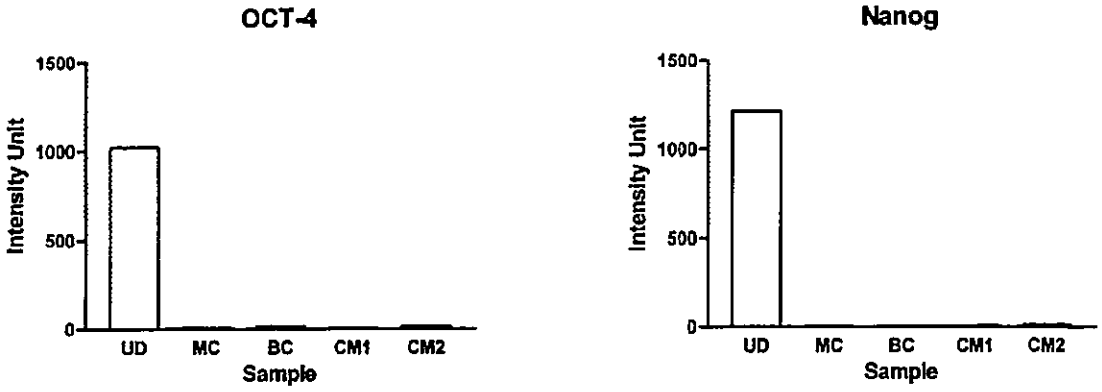

OCT-4
Intensity Unit
1500
1000
500
0
UD
MC
BC
CM1
CM2
Sample
Nanog
Intensity Unit
1500
1000
500
0
UD
MC
BC
CM1
CM2
Sample

Fig. 17

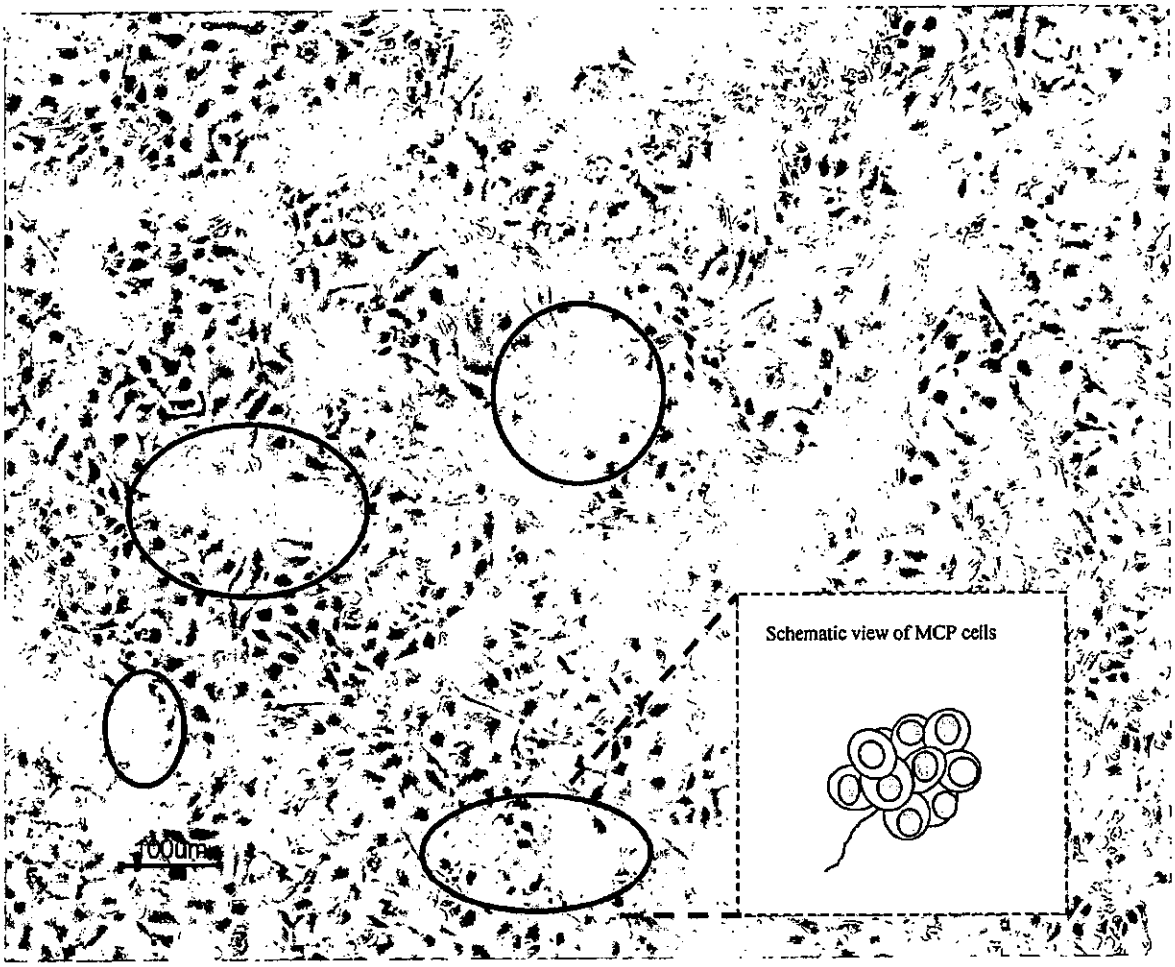


Fig. 18

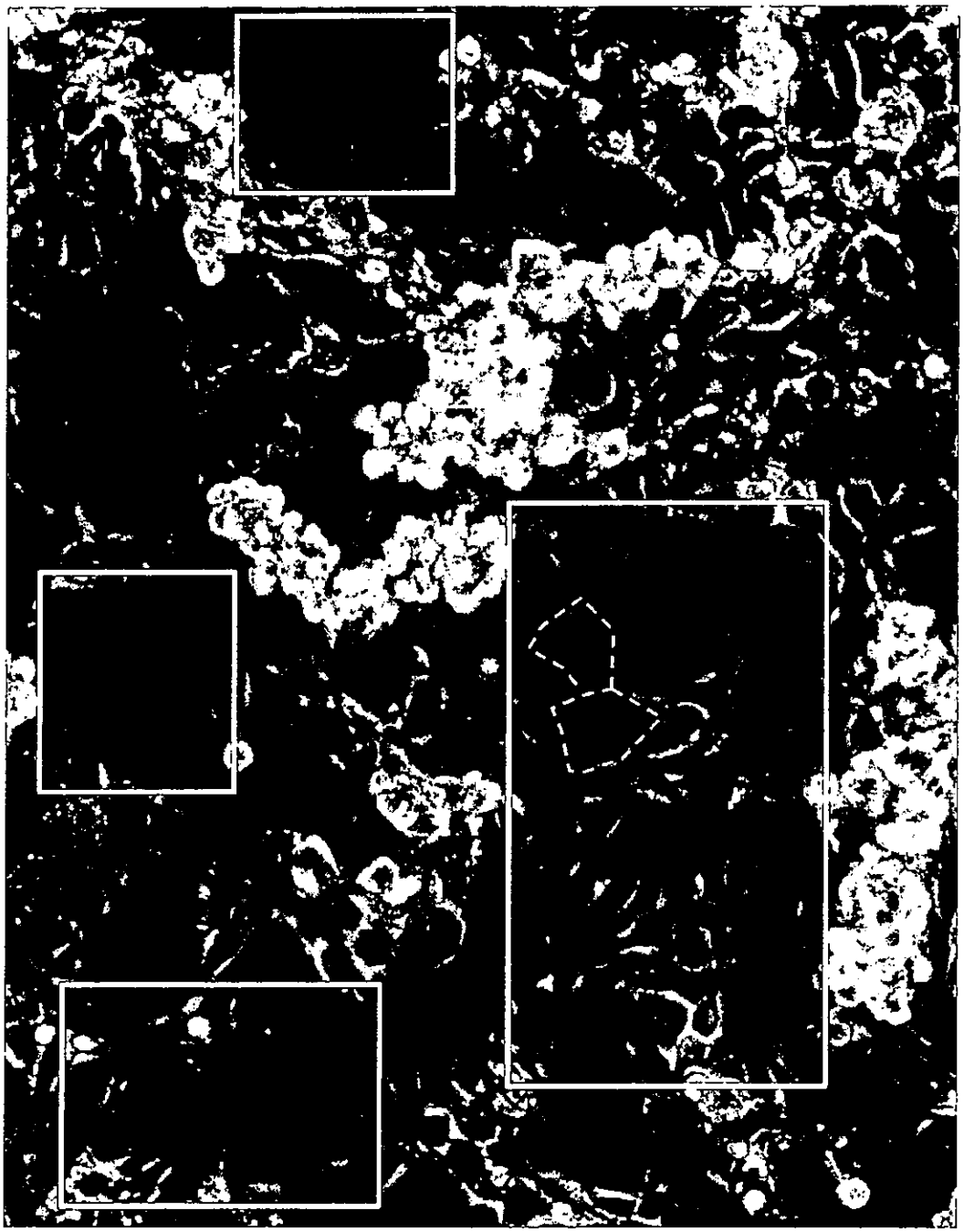


Fig. 19