Fig. 1

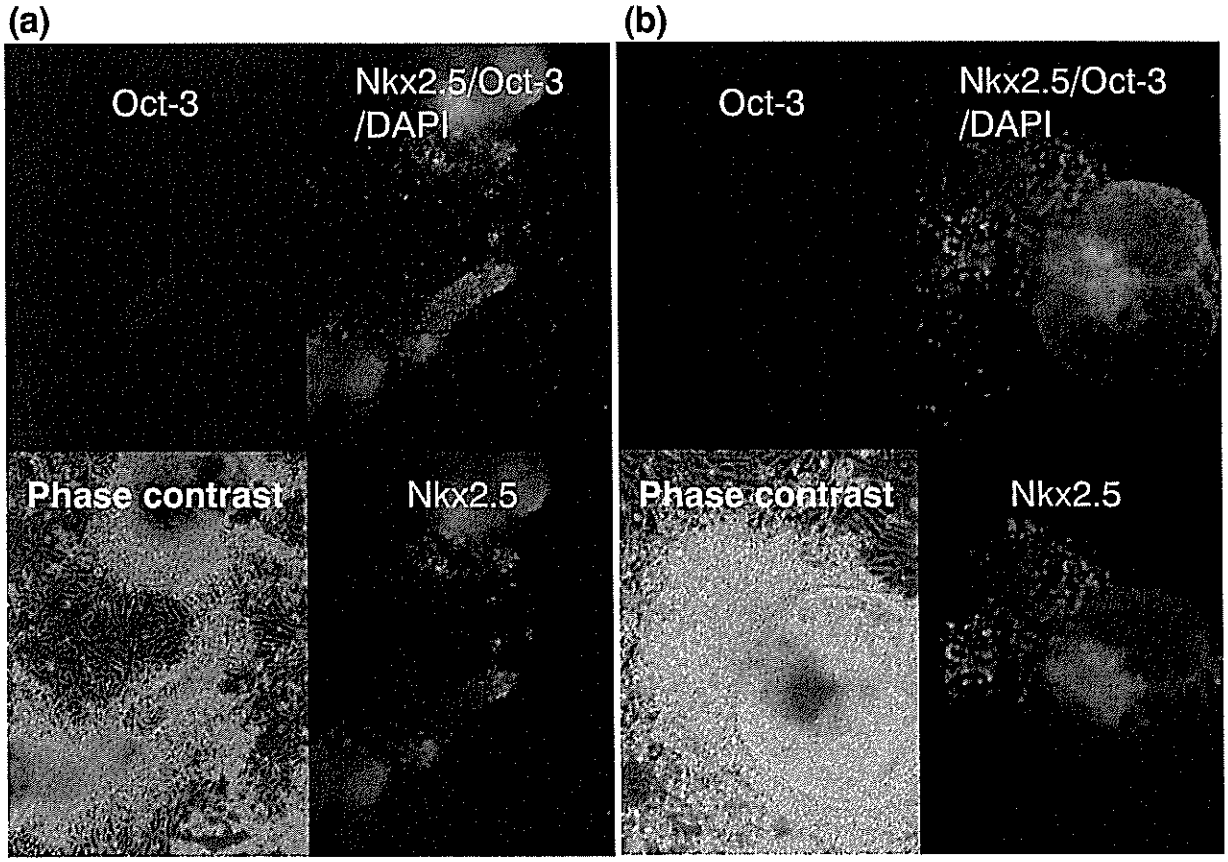

(a)
Oct-3
Nkx2.5/Oct-3
/DAPI
Phase contrast
Nkx2.5
(b)
Oct-3
Nkx2.5/Oct-3
/DAPI
Phase contrast
Nkx2.5

Fig. 2

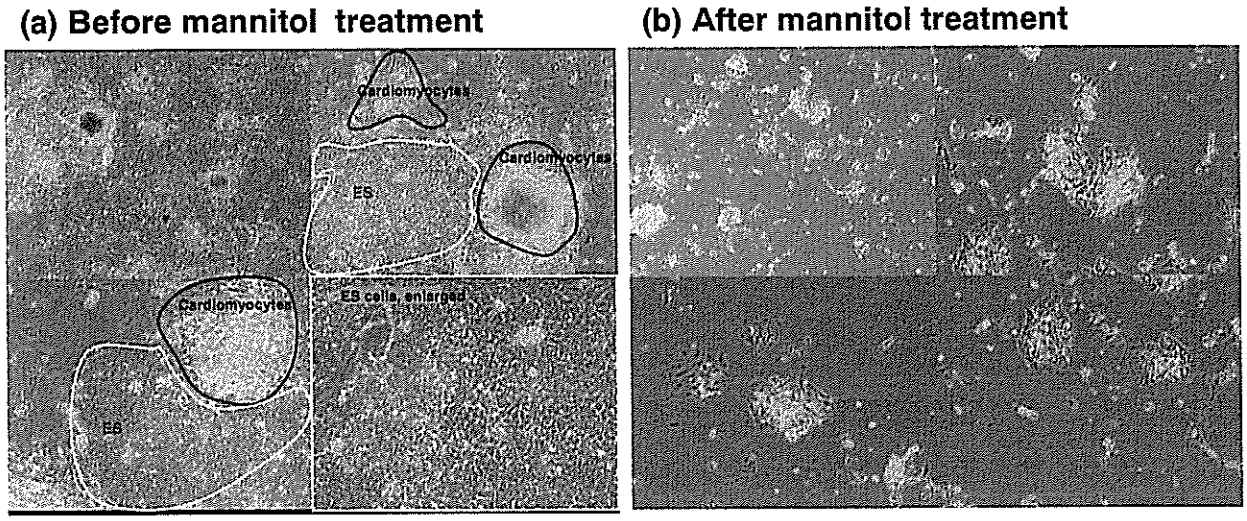

(a) Before mannitol treatment
(b) After mannitol treatment
Cardiomyocytes
Cardiomyocytes
ES
Cardiomyocytes
ES cells enlarged
ES

Fig. 3

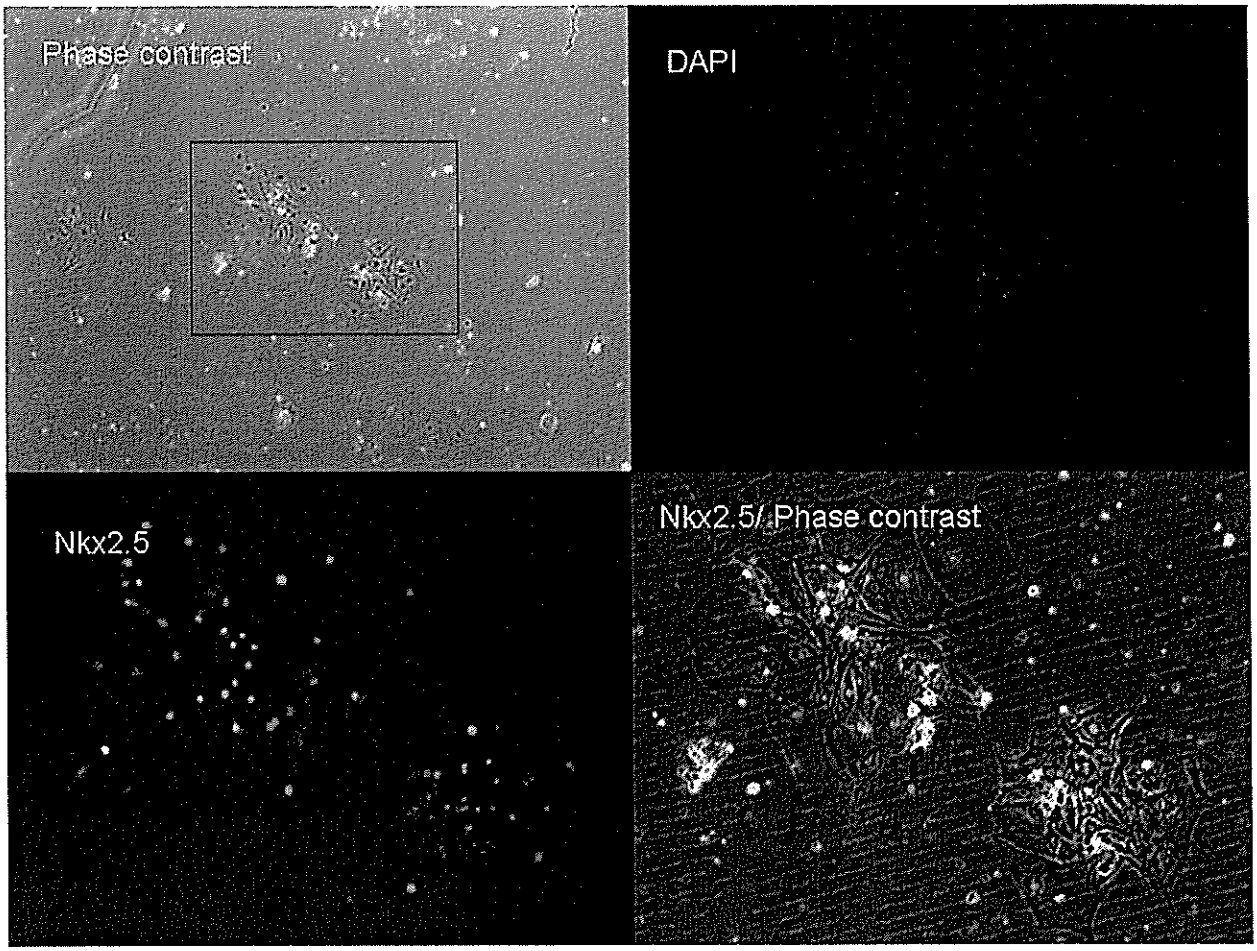


Fig. 4

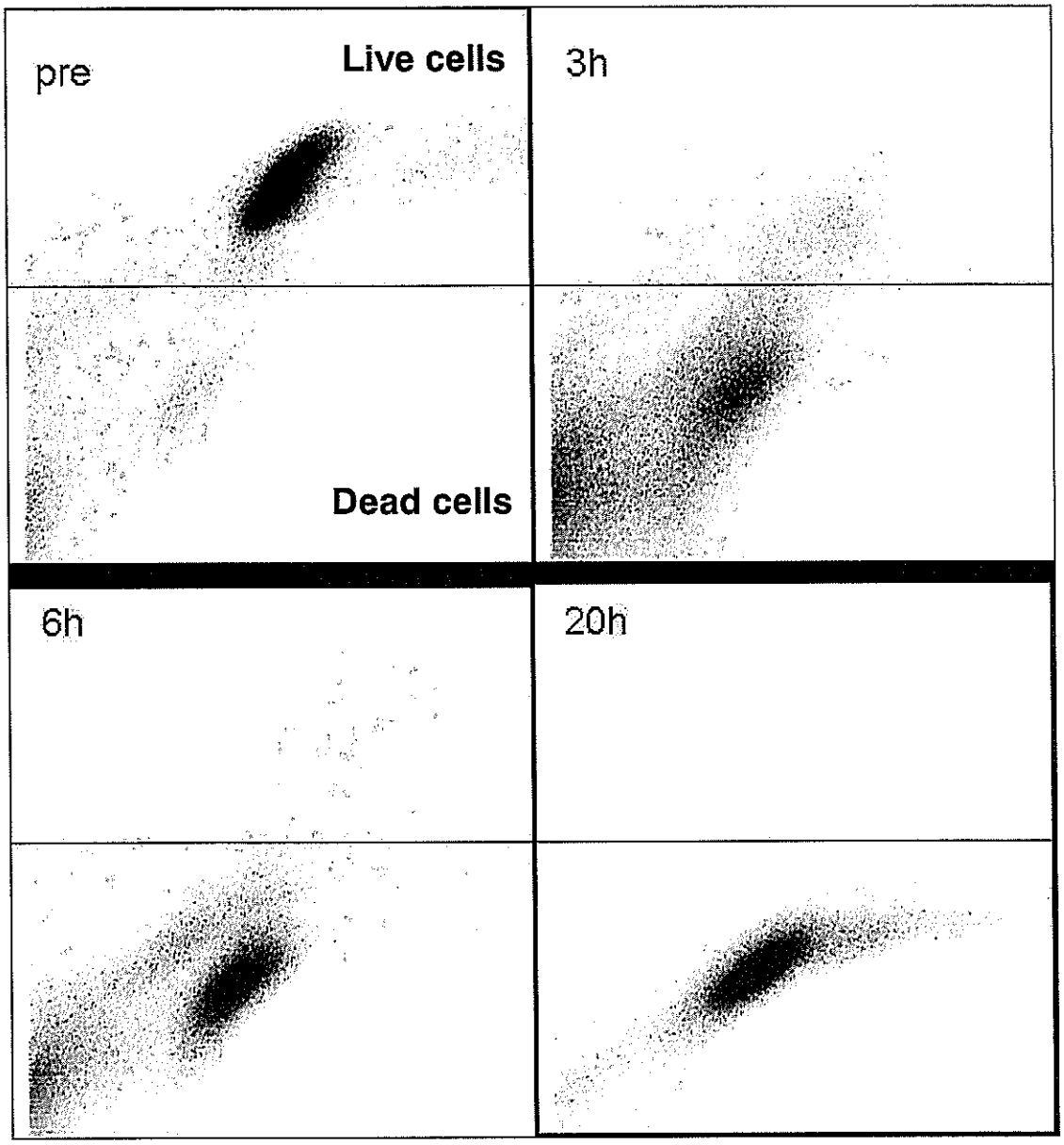


Fig. 5

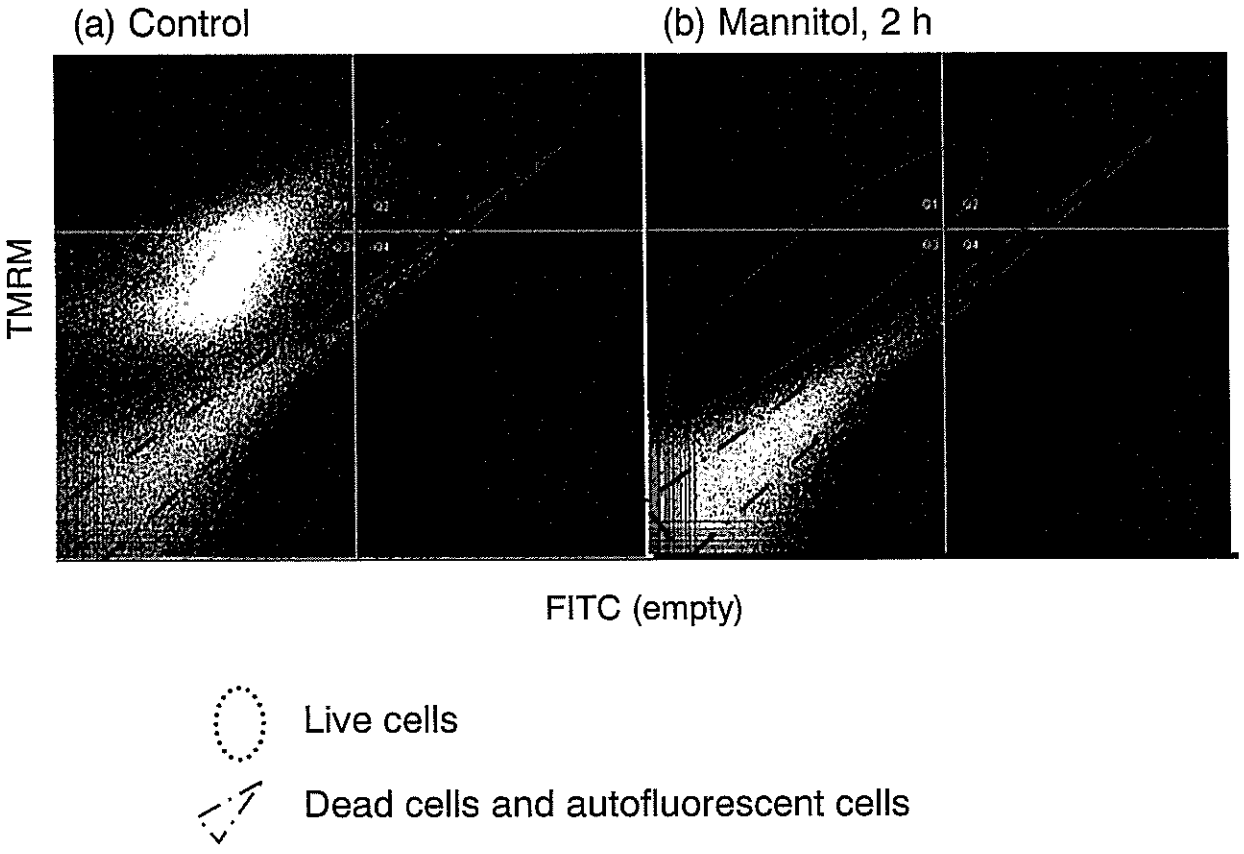

(a) Control
(b) Mannitol, 2 h
TMRM
FITC (empty)
Live cells
Dead cells and autofluorescent cells

Fig. 6

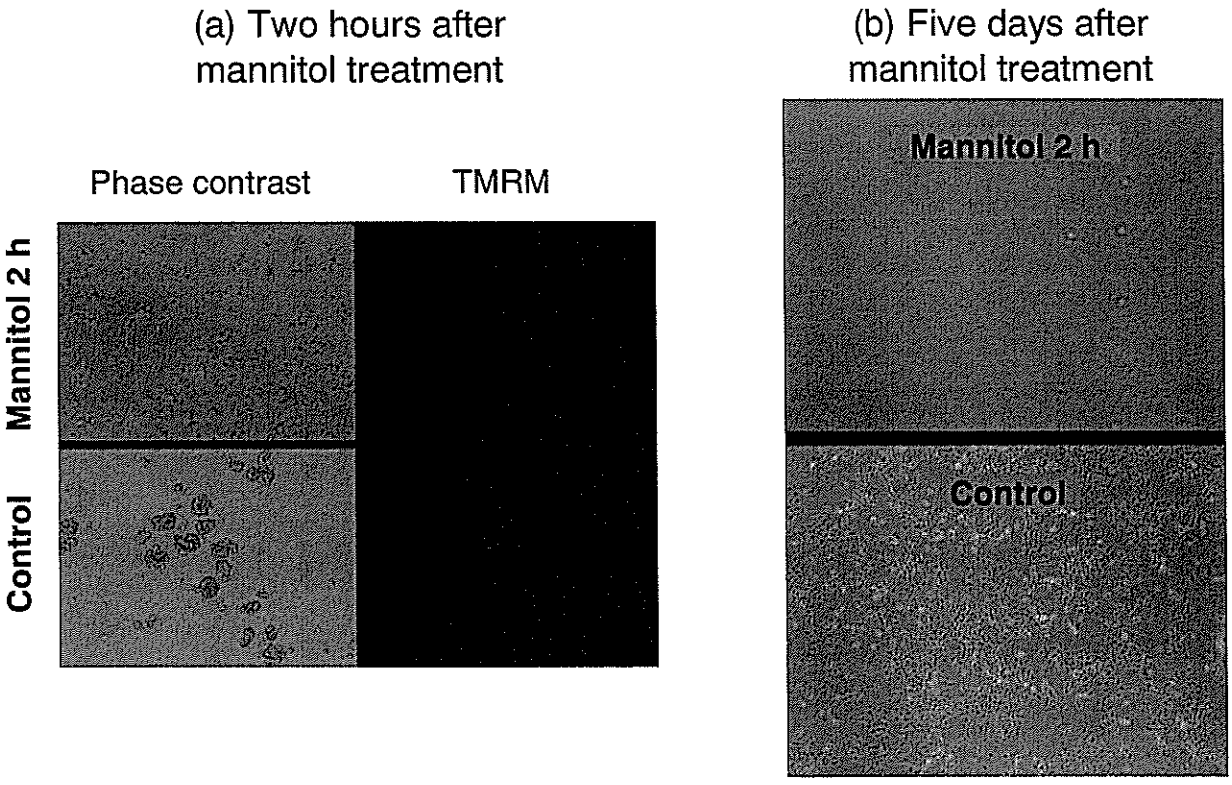

(a) Two hours after mannitol treatment
Phase contrast
TMRM
Mannitol 2 h
Control
(b) Five days after mannitol treatment
Mannitol 2 h
Control

Fig. 7

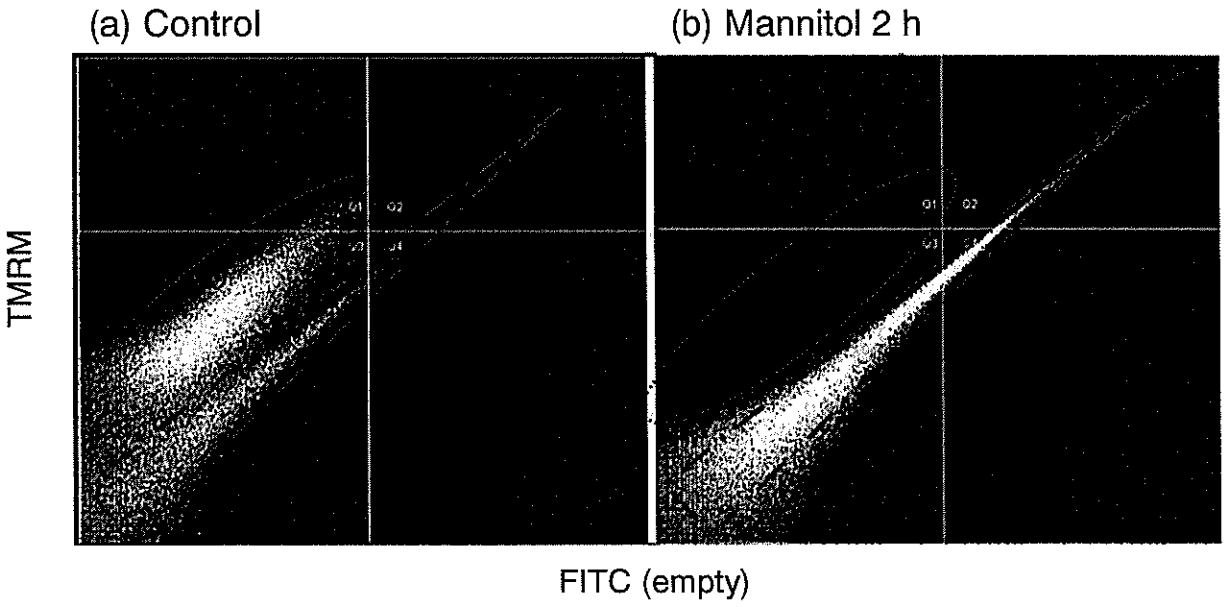

(a) Control
(b) Mannitol 2 h
TMRM
FITC (empty)
Live cells
Dead cells and autofluorescent cells

Fig. 8

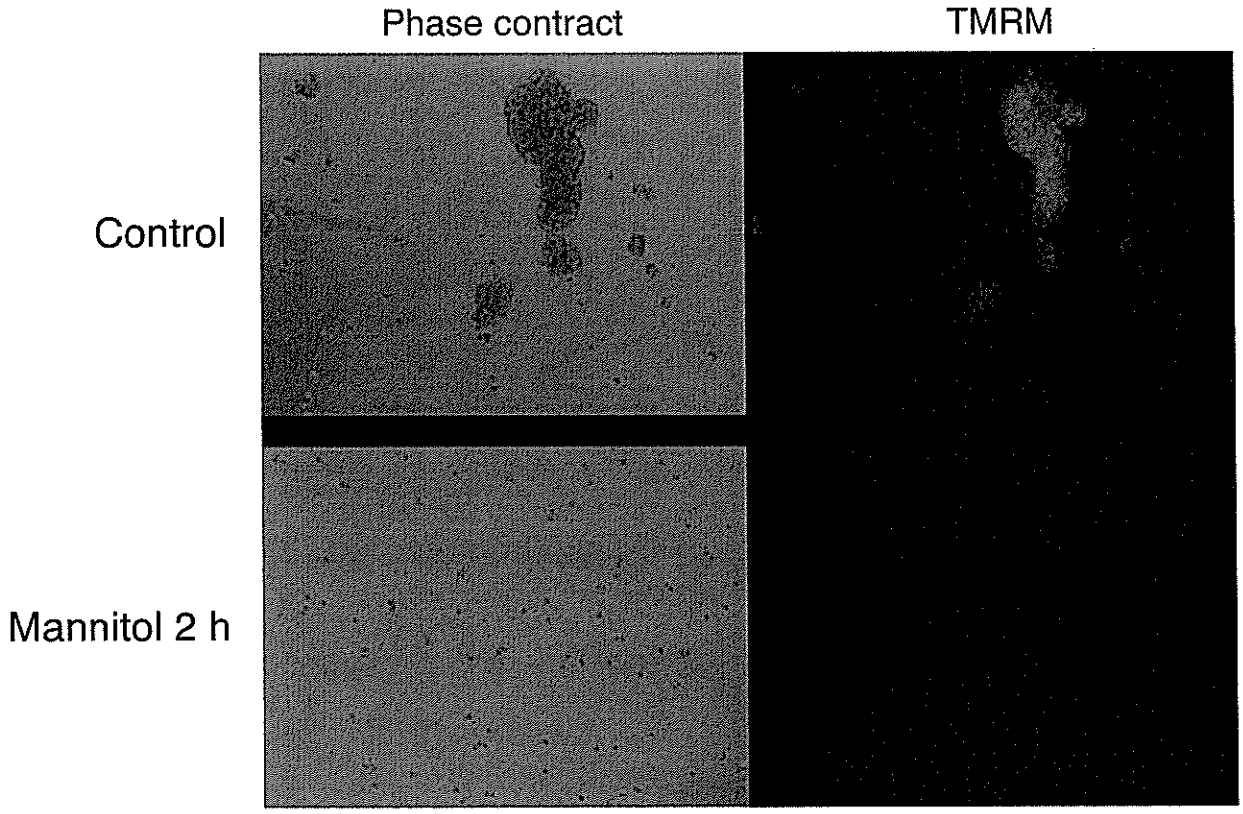


Fig. 9

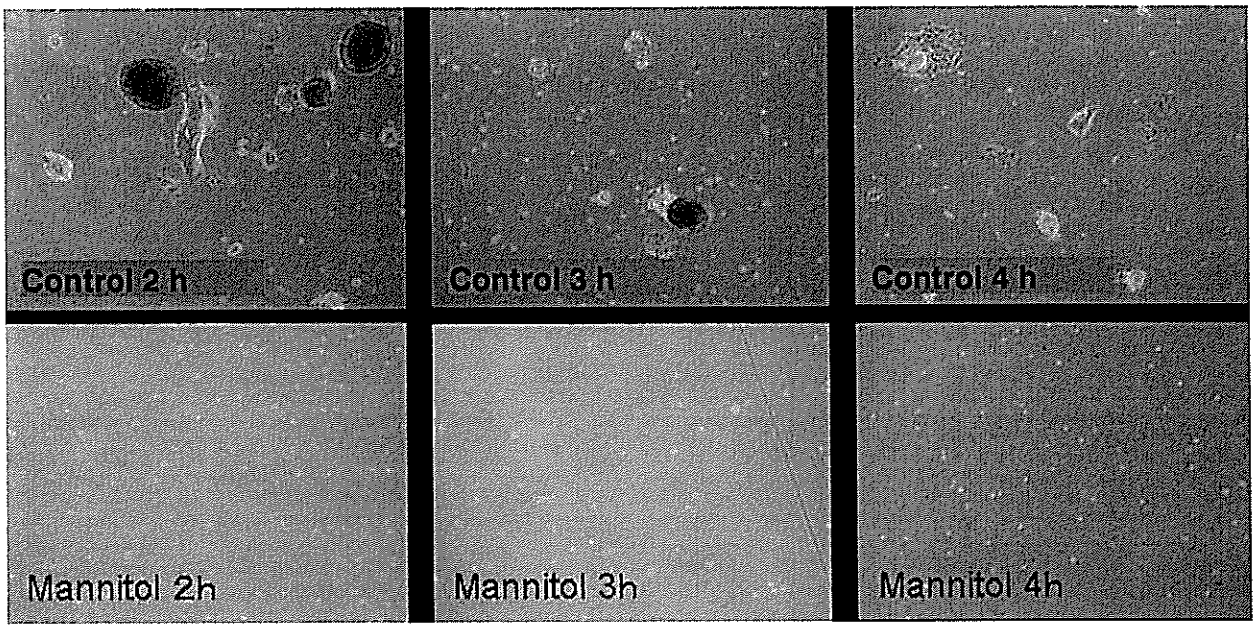

Control 2 h
Control 3 h
Control 4 h
Mannitol 2h
Mannitol 3h
Mannitol 4h

Fig. 10

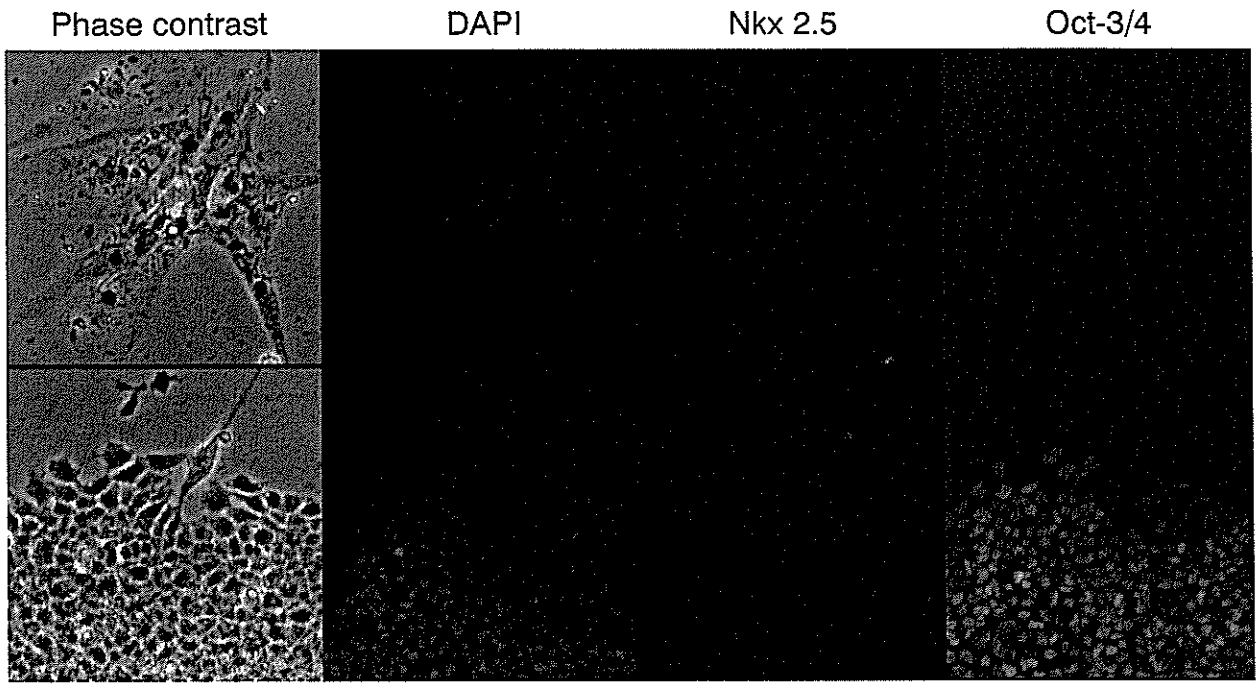


Fig. 11

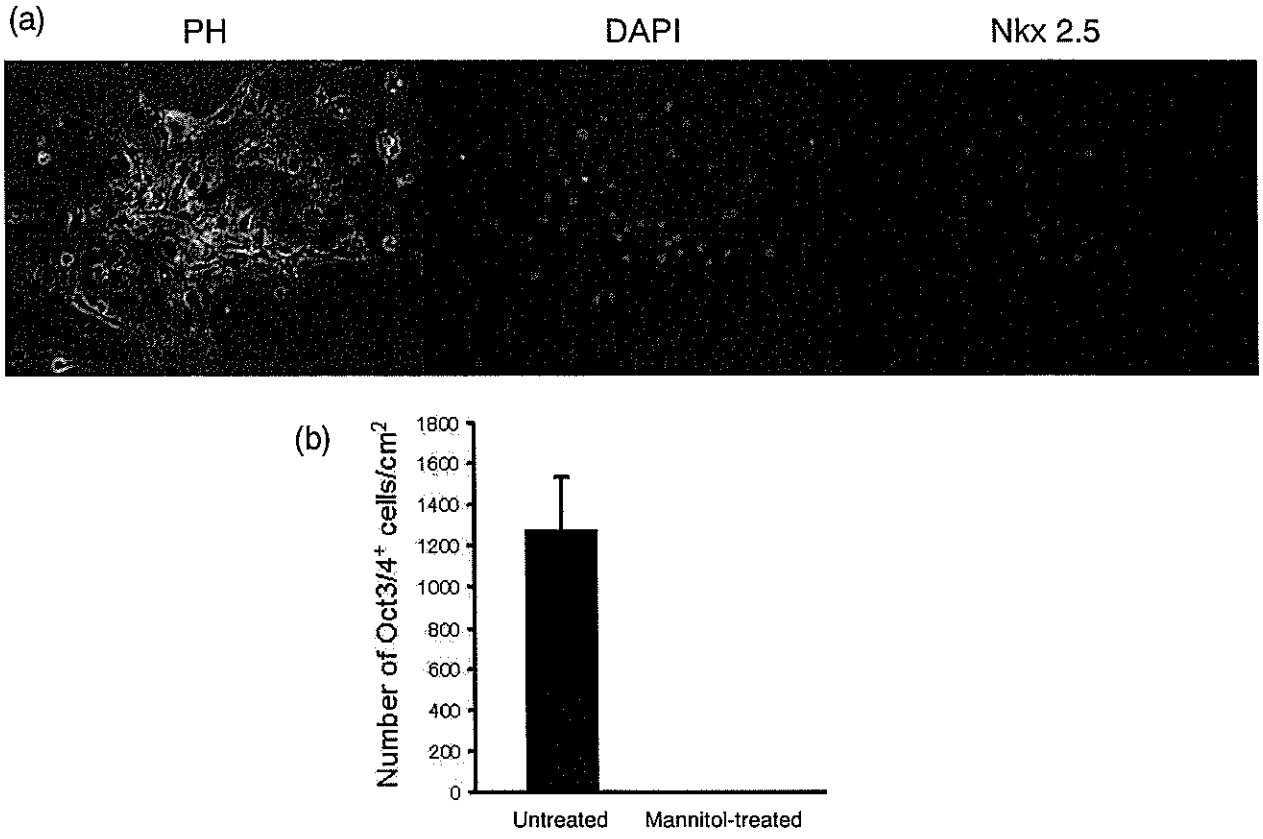

(a)
PH
DAPI
Nkx 2.5
(b)
Number of Oct3/4+ cells/cm2
1800
1600
1400
1200
1000
800
600
400
200
0
Untreated
Mannitol-treated

Fig. 12

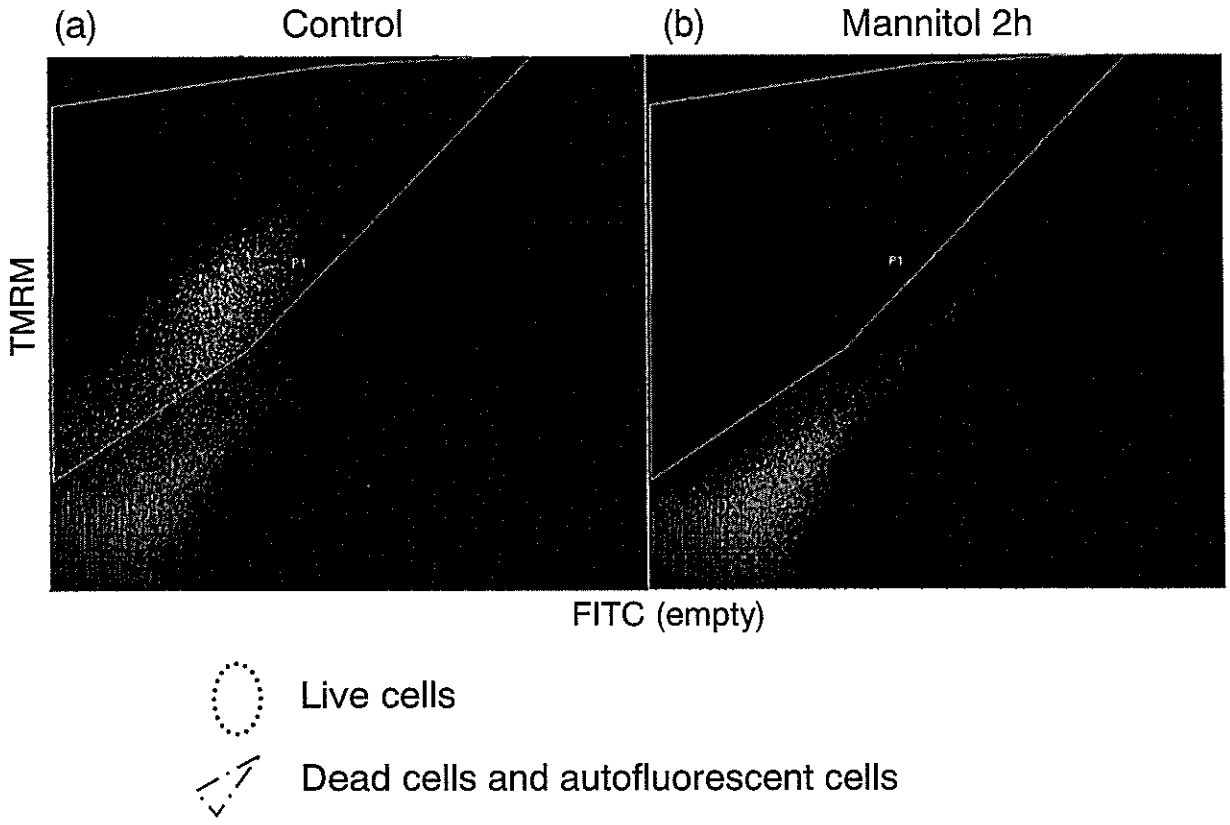

(a)
Control
(b)
Mannitol 2h
TMRM
P1
P1
FITC (empty)
Live cells
Dead cells and autofluorescent cells

Fig. 13

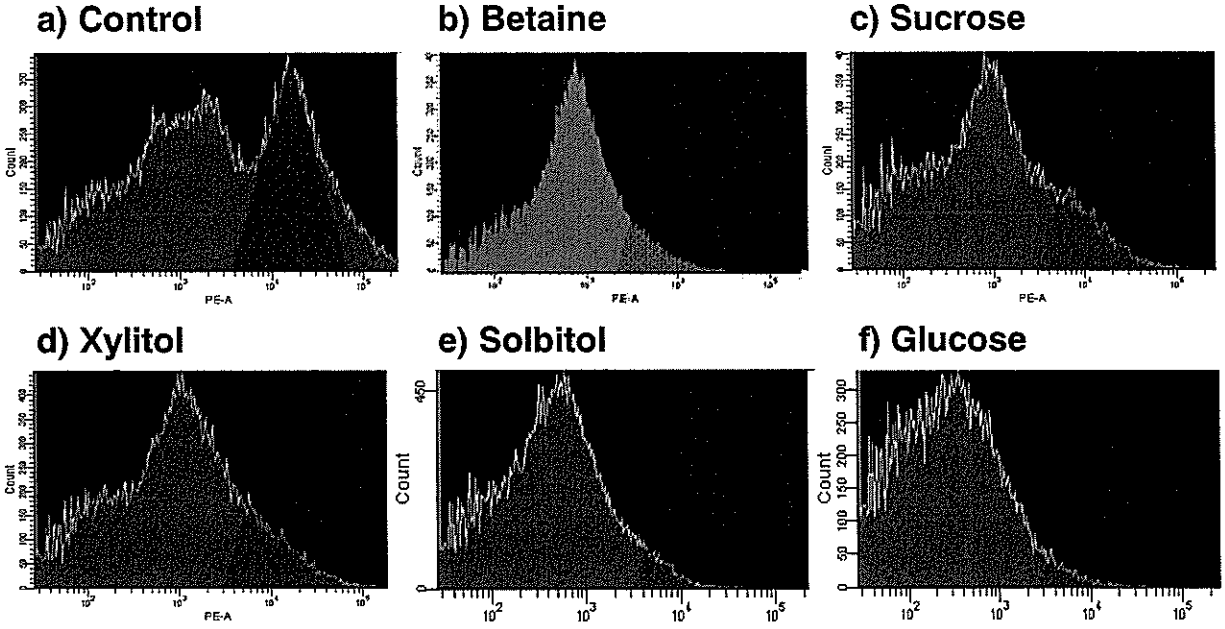

a) Control
b) Betaine
c) Sucrose
d) Xylitol
e) Solbitol
f) Glucose
Count
PE-A

Fig. 14

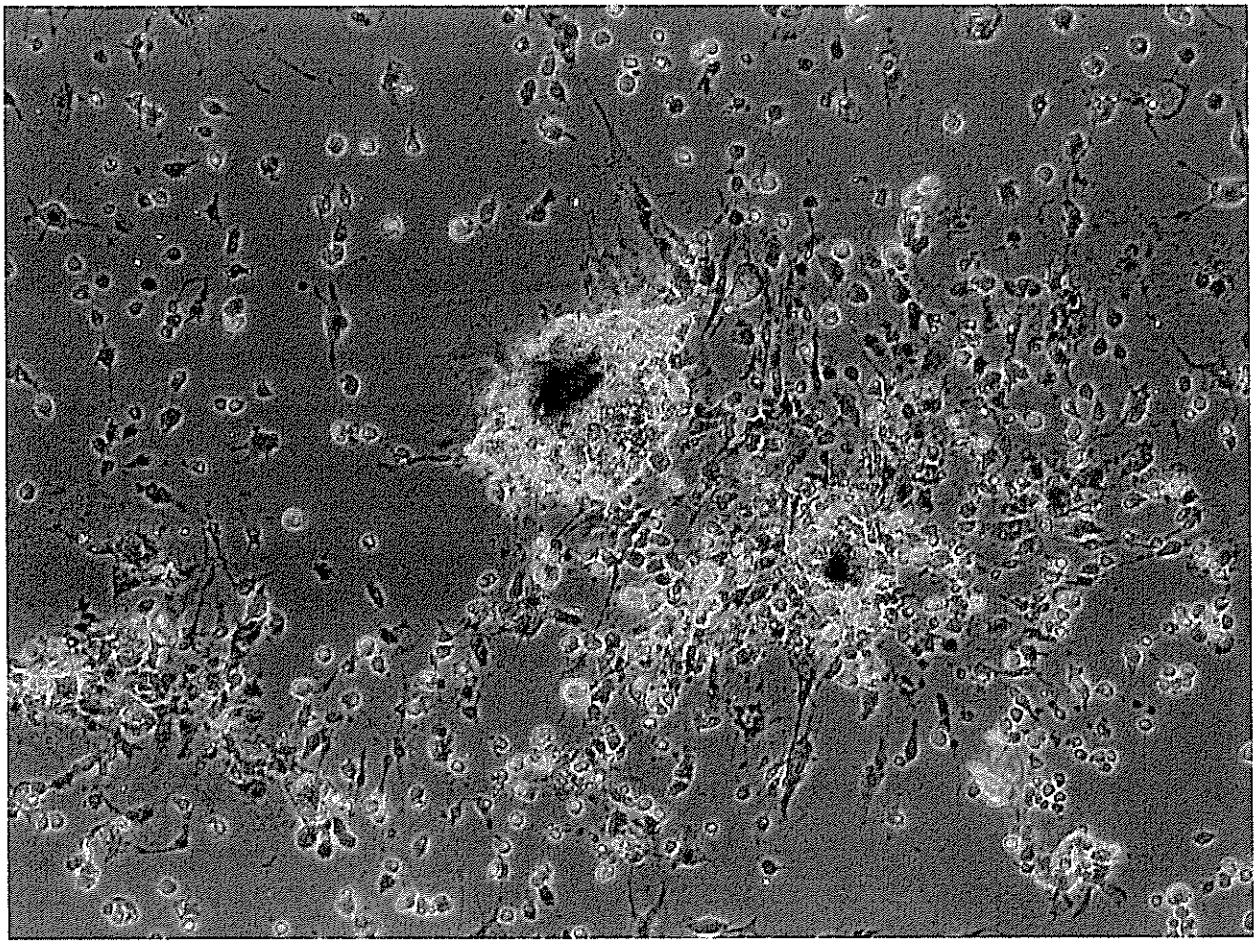


Fig. 15

