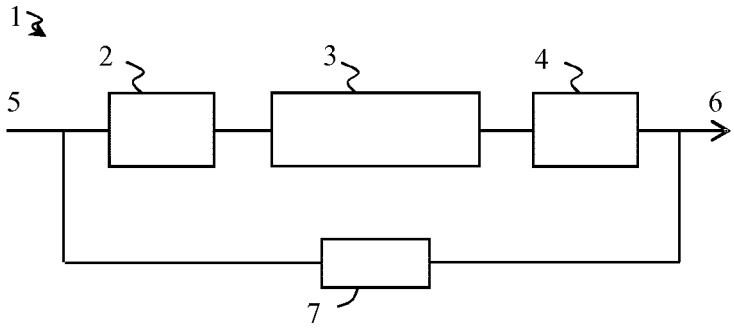


FIGURE 1

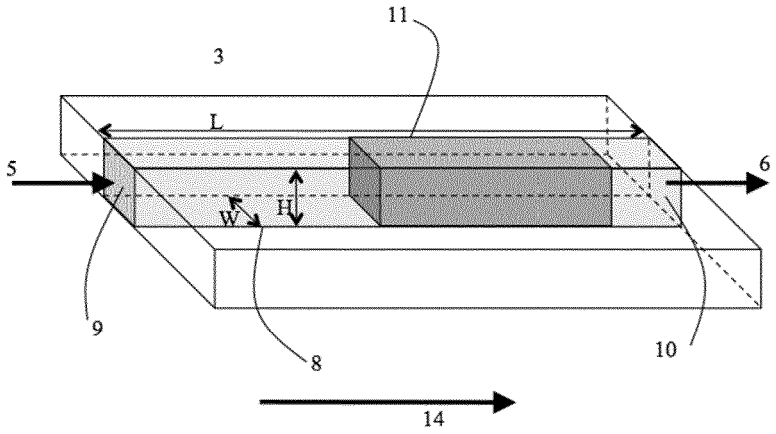


FIGURE 2

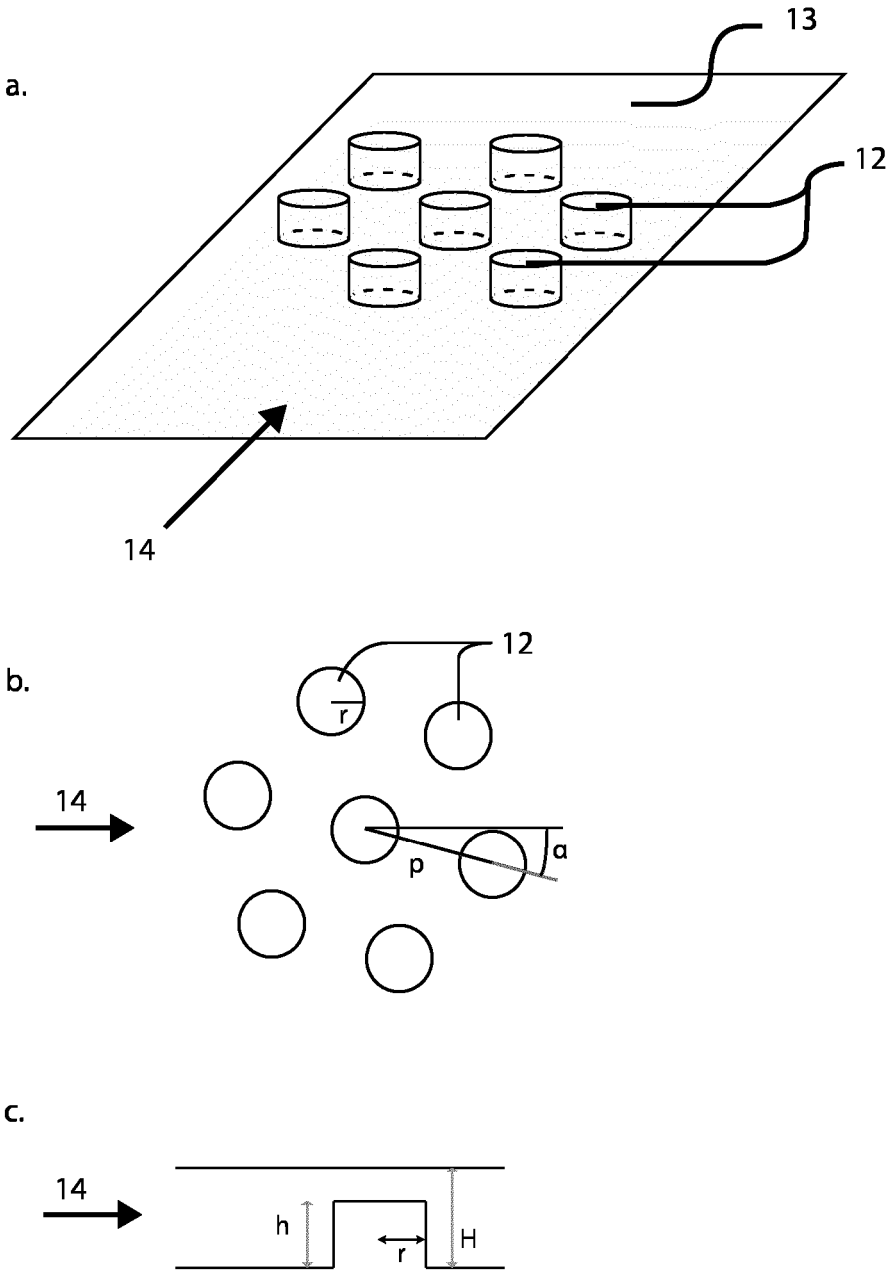


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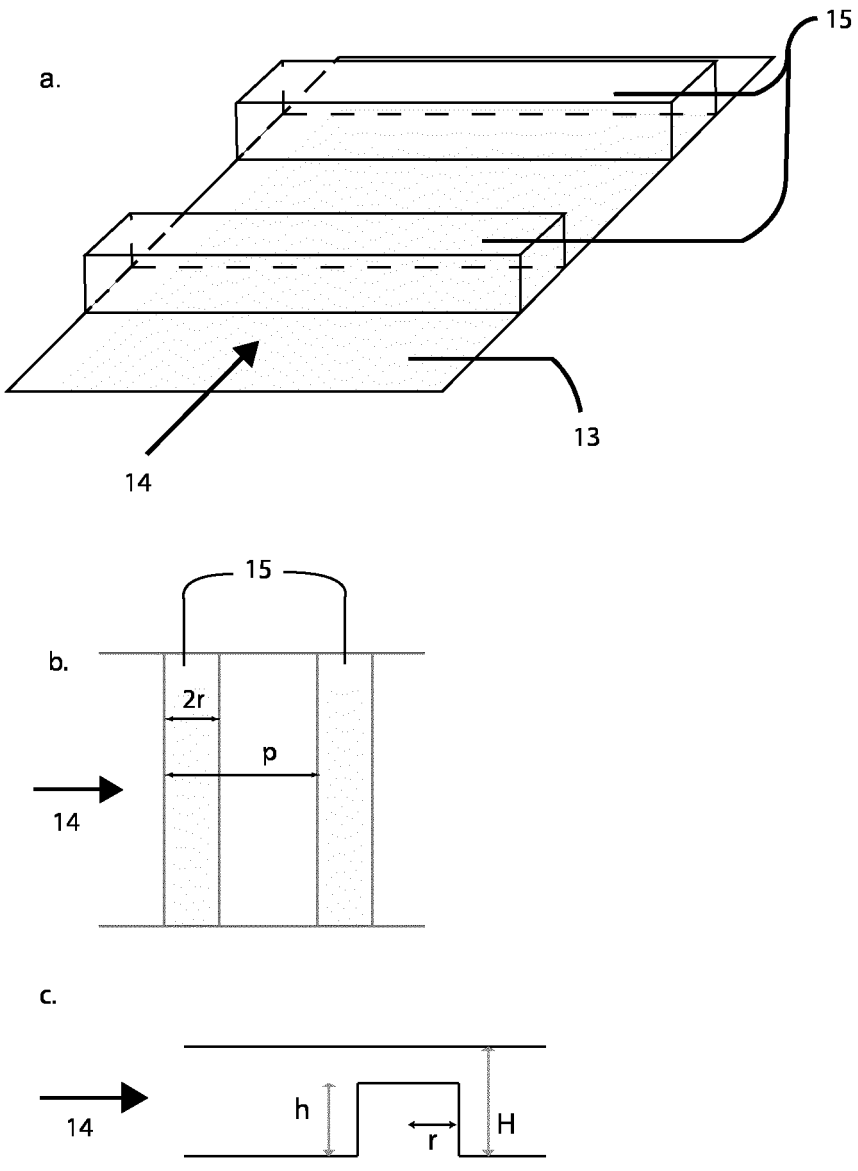


FIGURE 4

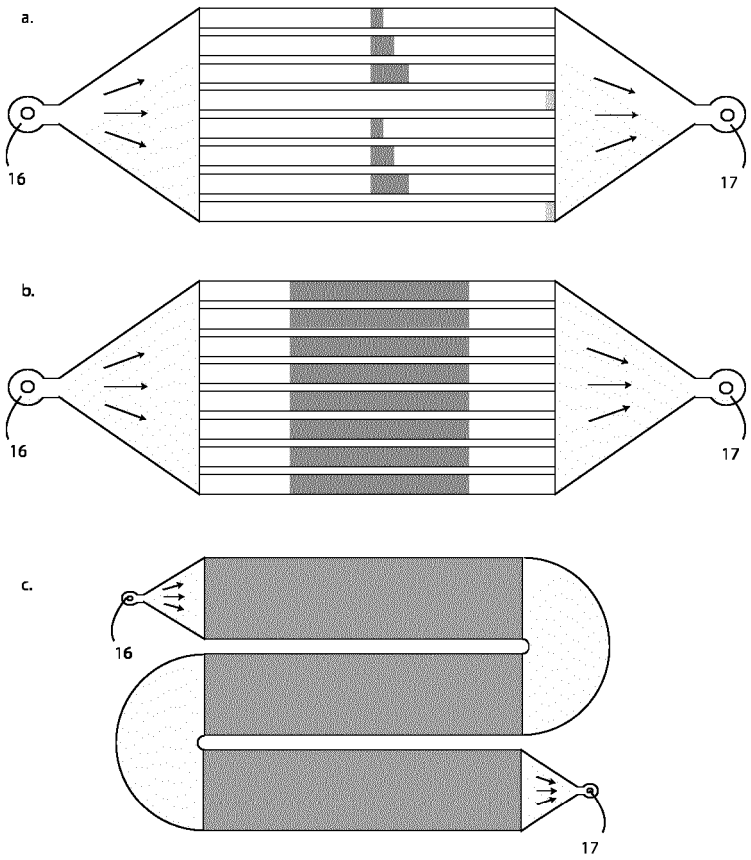


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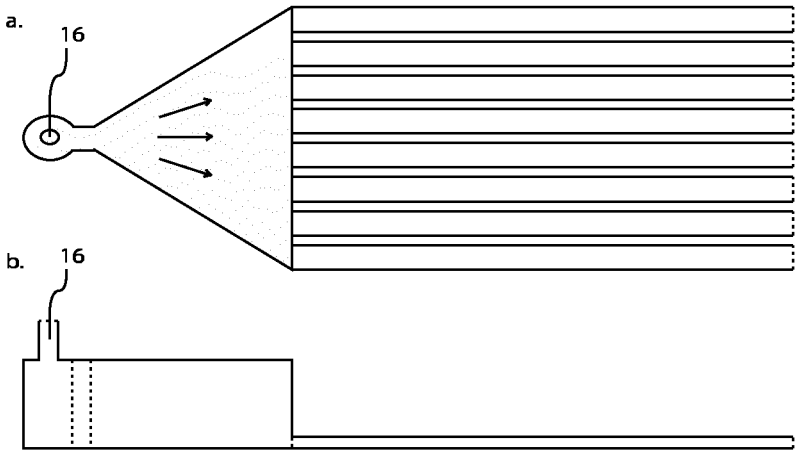


FIGURE 6

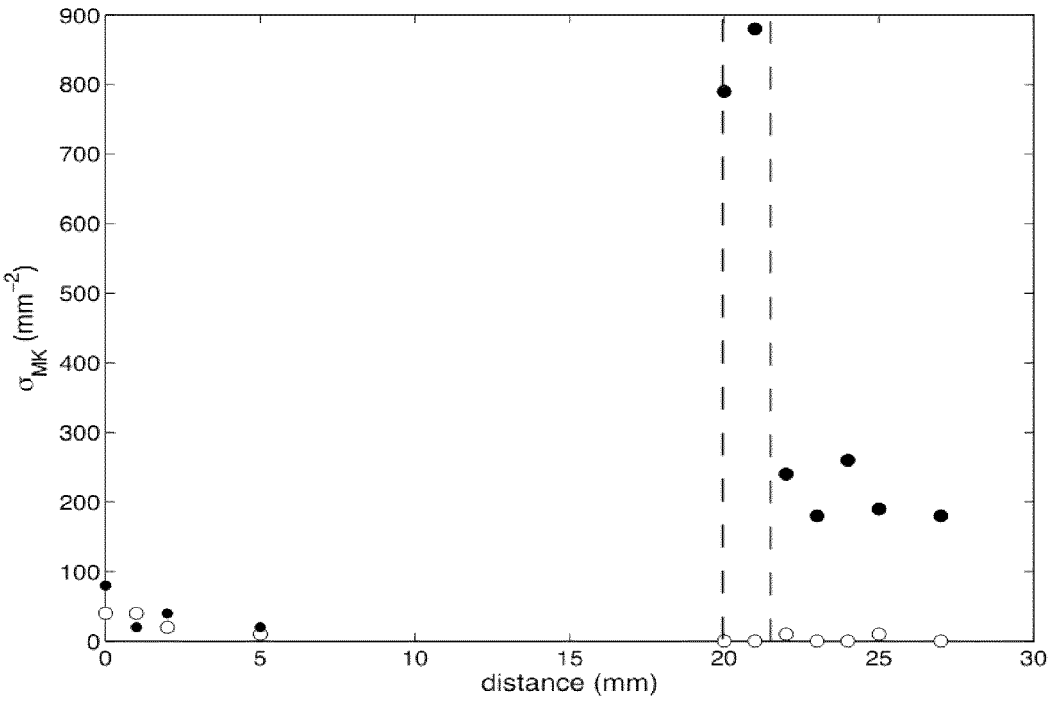

900
800
700
600
500
400
300
200
100
0
0
5
10
15
20
25
30
σMK (mm-2)
distance (mm)

FIGURE 7

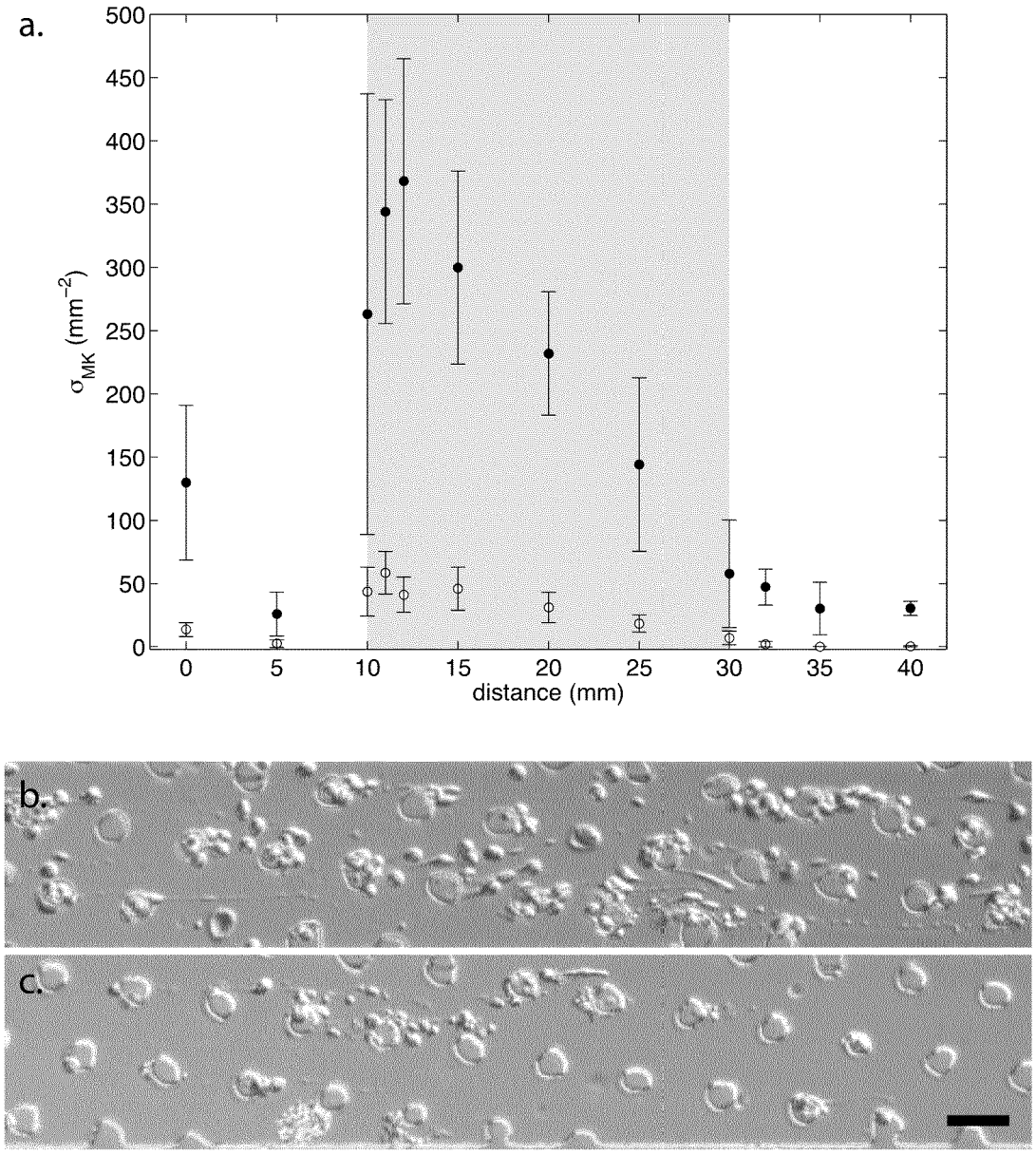

a.
500
450
400
350
300
250
200
150
100
50
0
σ_{MK} (mm^{-2})
0
5
10
15
20
25
30
35
40
distance (mm)
b.
c.

FIGURE 8

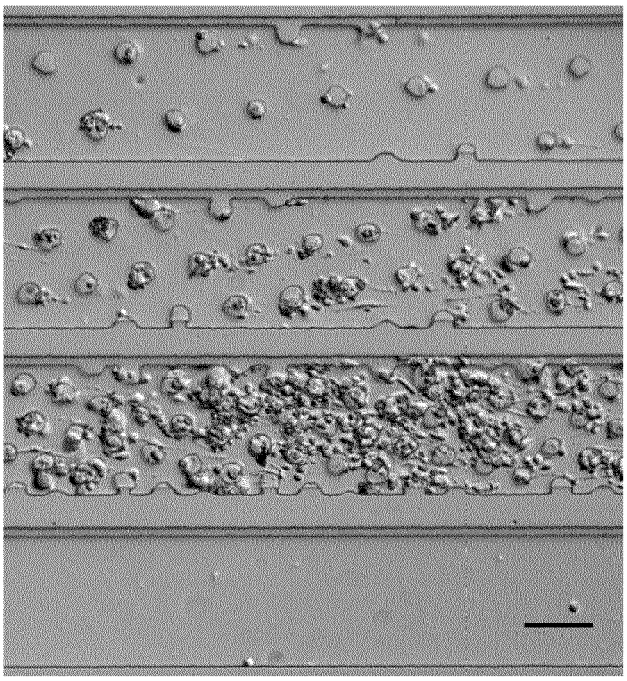


FIGURE 9

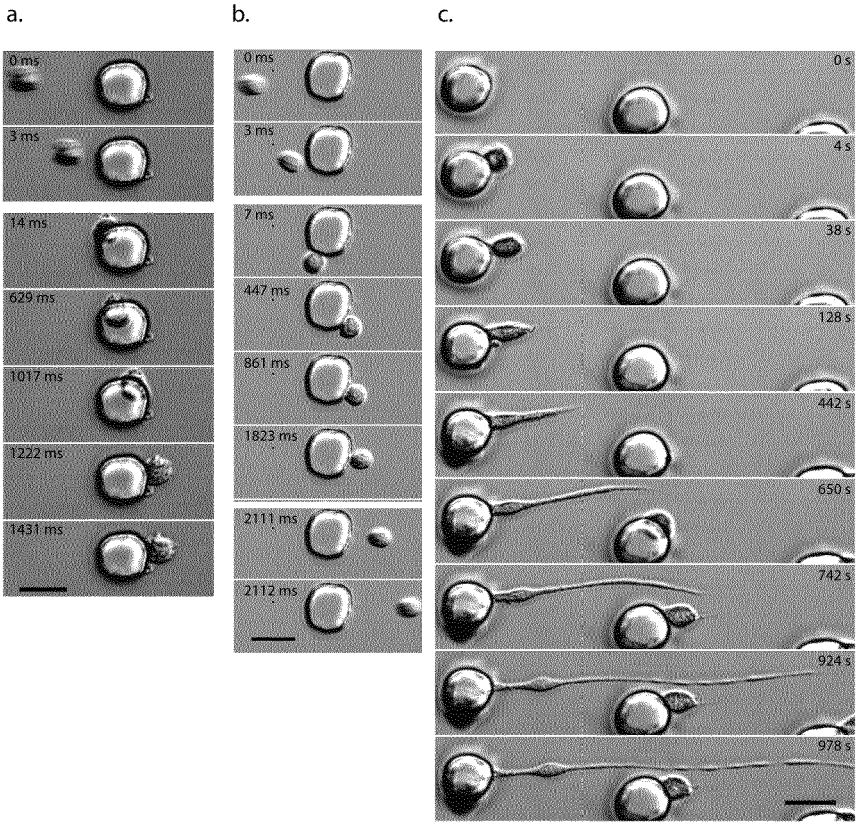


FIGURE 10

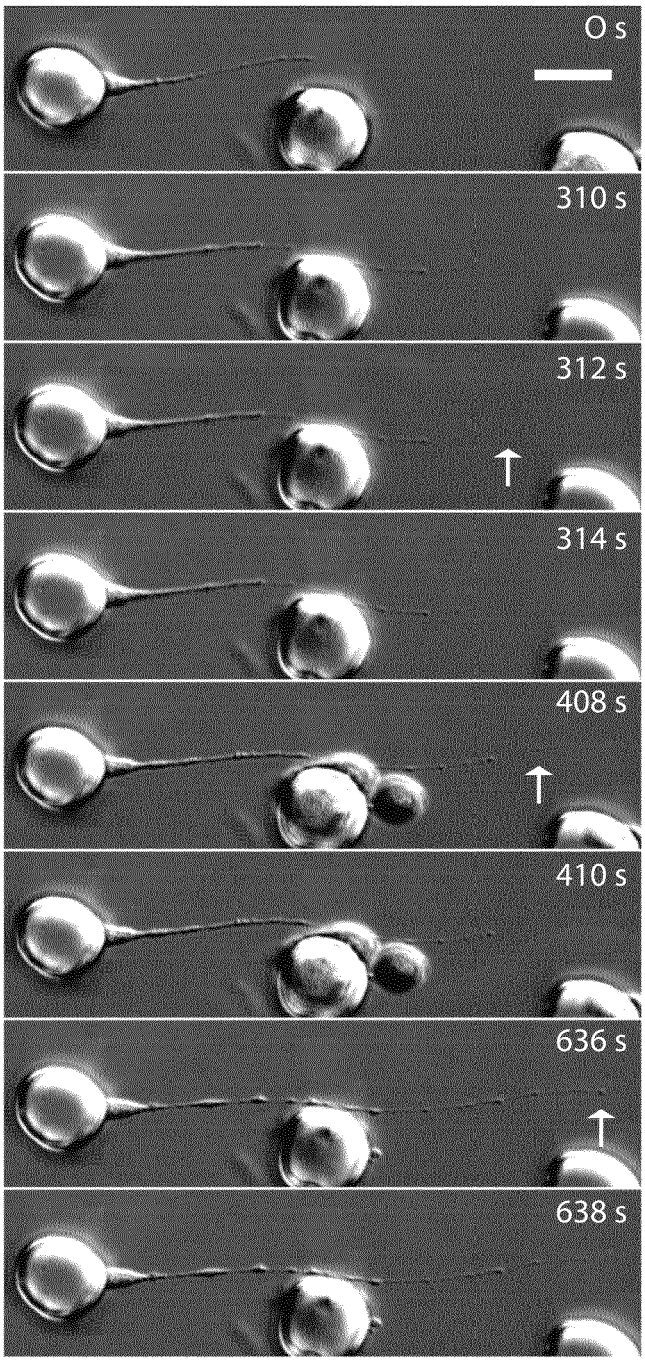


FIGURE 11

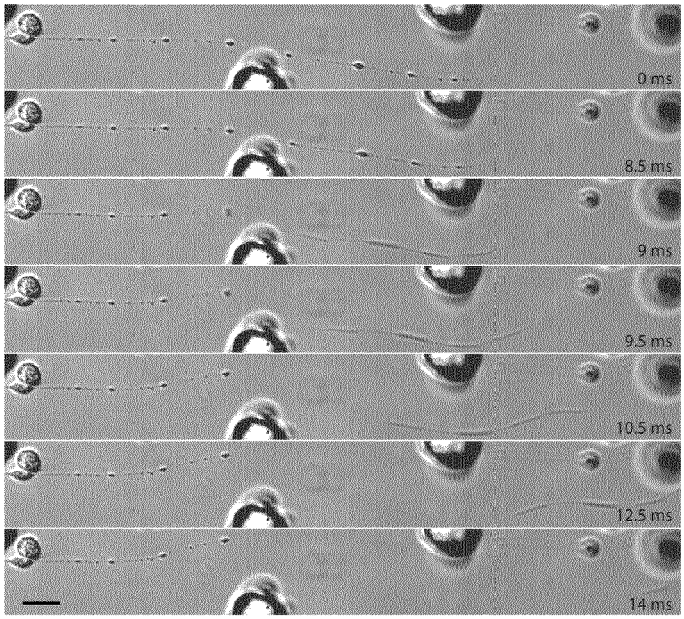


FIGURE 12

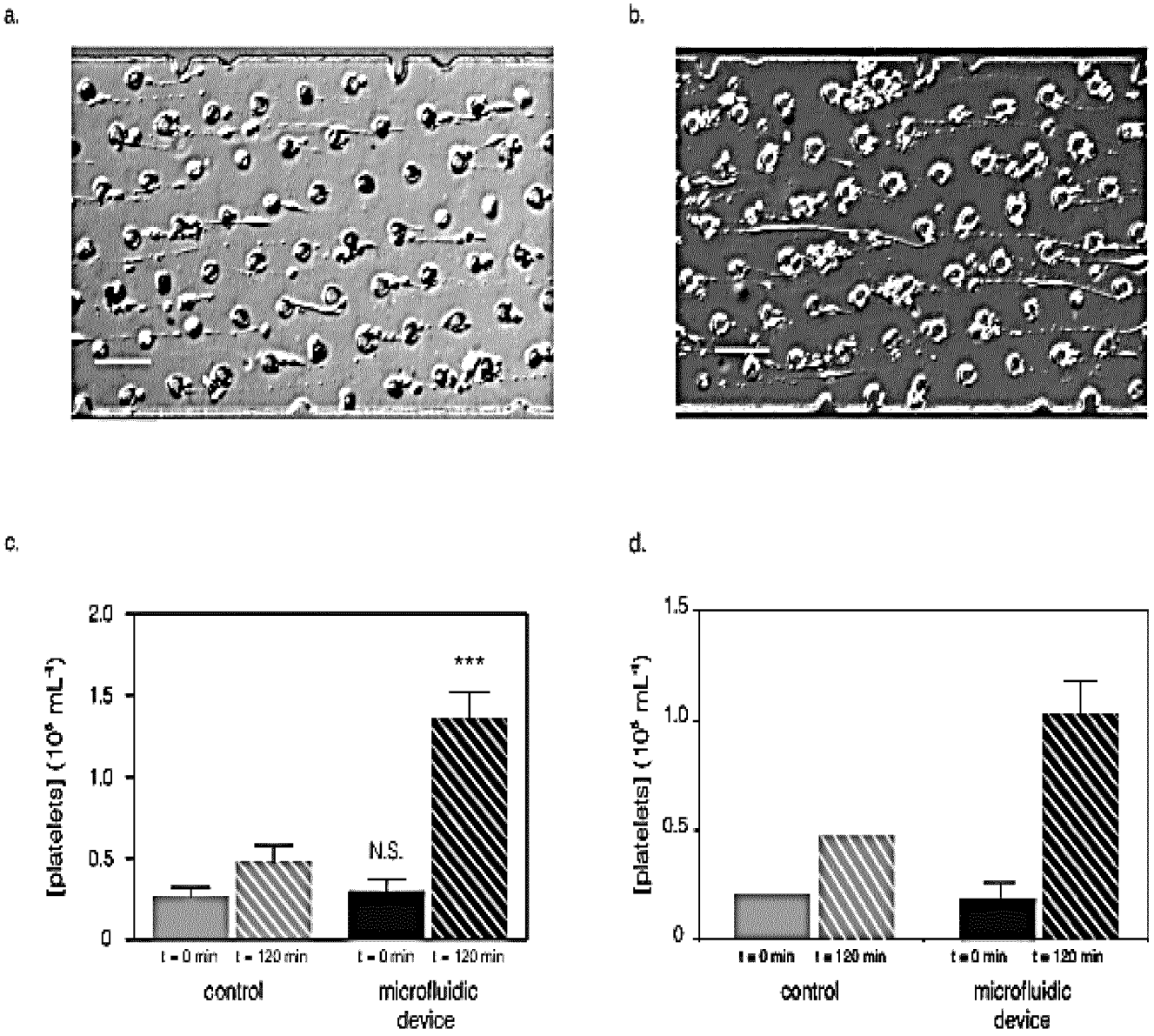

a.
b.
c.
d.
[platelets] (10^6 mL^{-1})
2.0
1.5
1.0
0.5
0
***
N.S.
t = 0 min
t = 120 min
control
microfluidic device
1.5
1.0
0.5
0

FIGURE 13

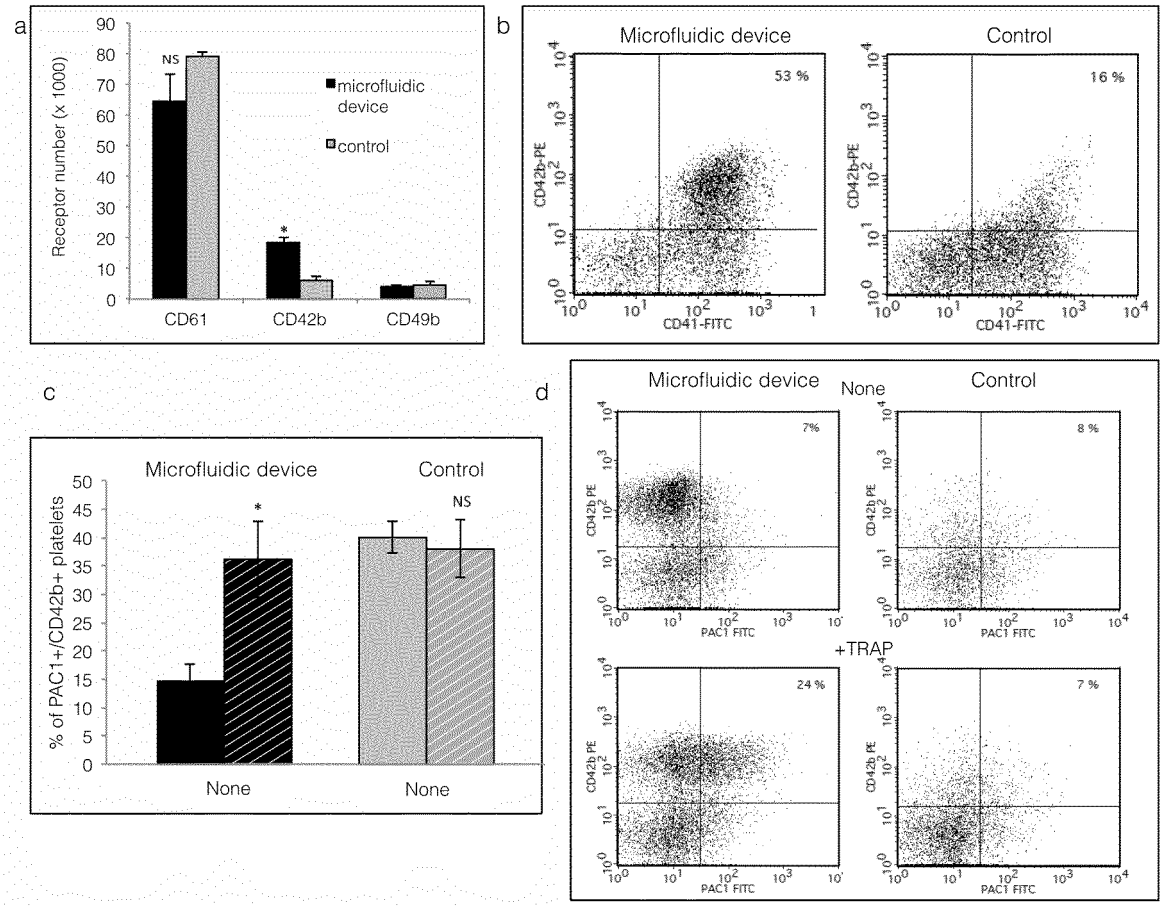
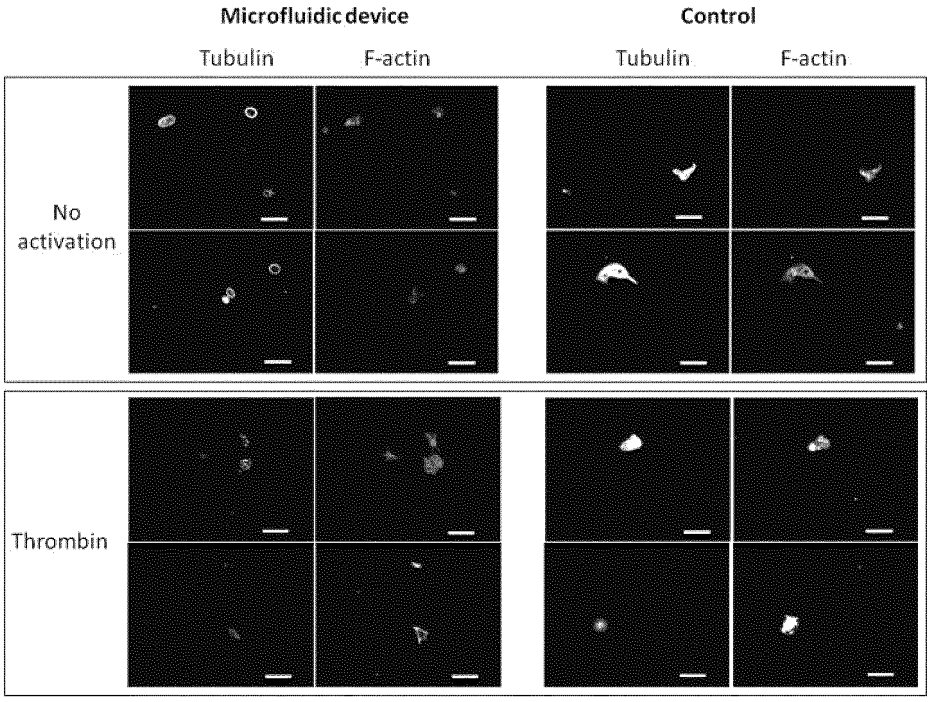

a
Receptor number (x 1000)
NS
*
microfluidic device
control
CD61
CD42b
CD49b
b
Microfluidic device
Control
53 %
16 %
CD42b-PE
CD41-FITC
c
Microfluidic device
Control
NS
*
% of PAC1+/CD42b+ platelets
None
None
d
Microfluidic device
None
Control
7%
8 %
+TRAP
24 %
7 %
CD42b PE
PAC1 FITC

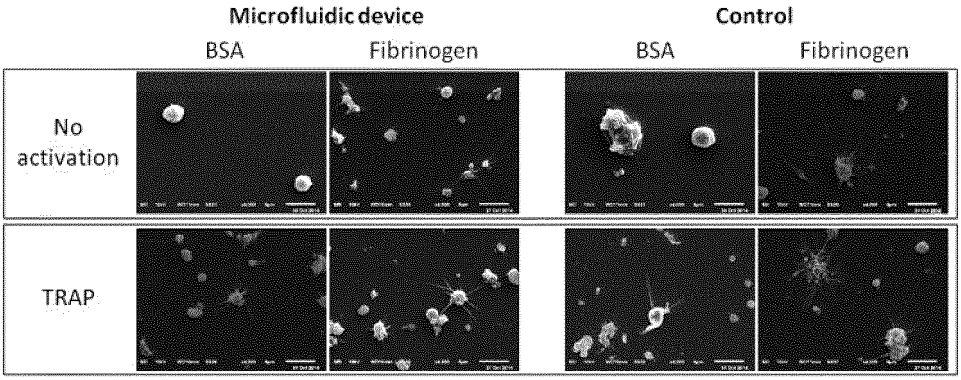
FIGURE 14

FIGURE 15

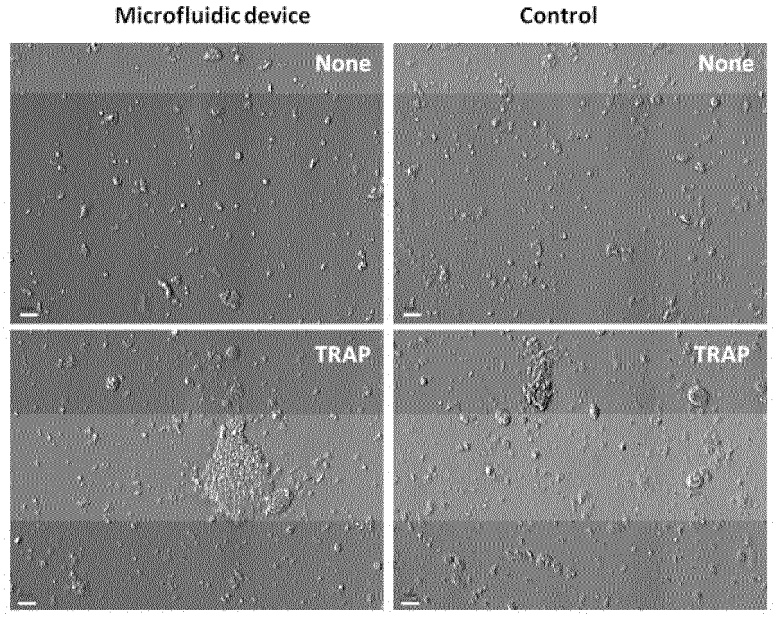
a.



b.



c.



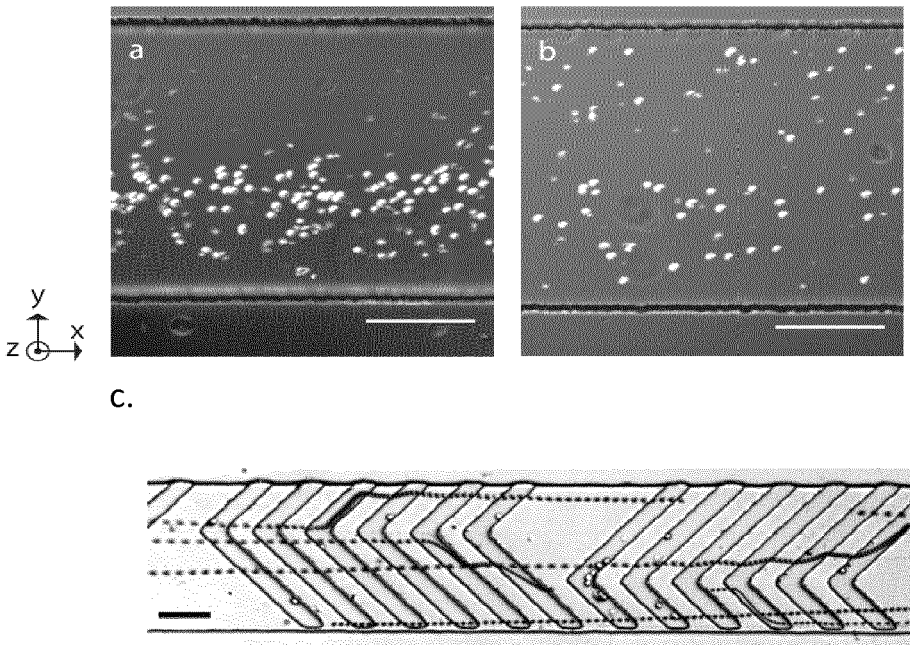


FIGURE 16

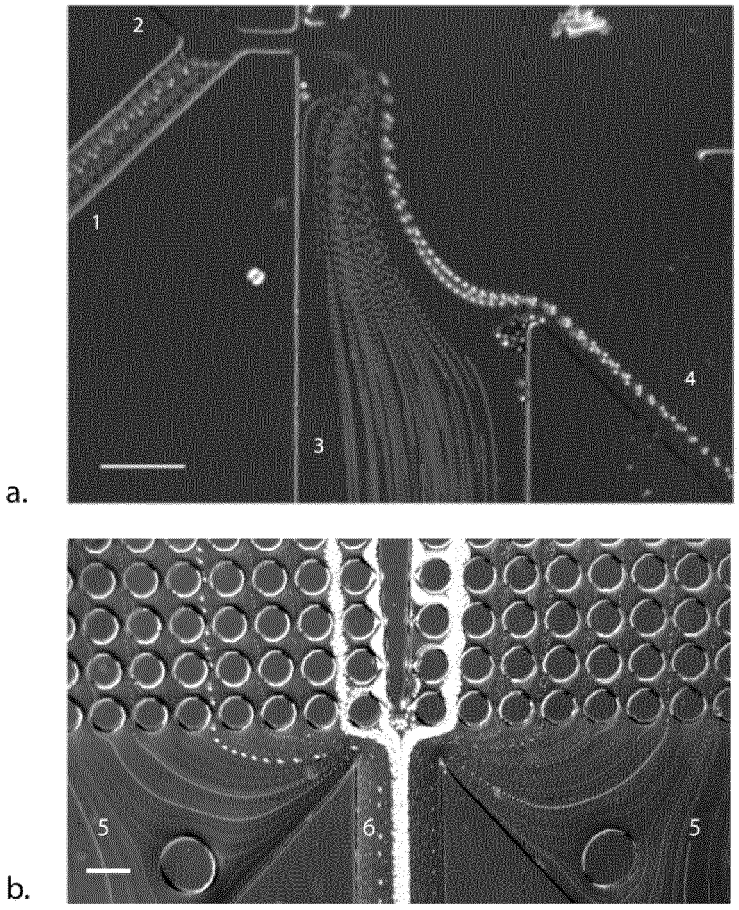


FIGURE 17