Fig.1

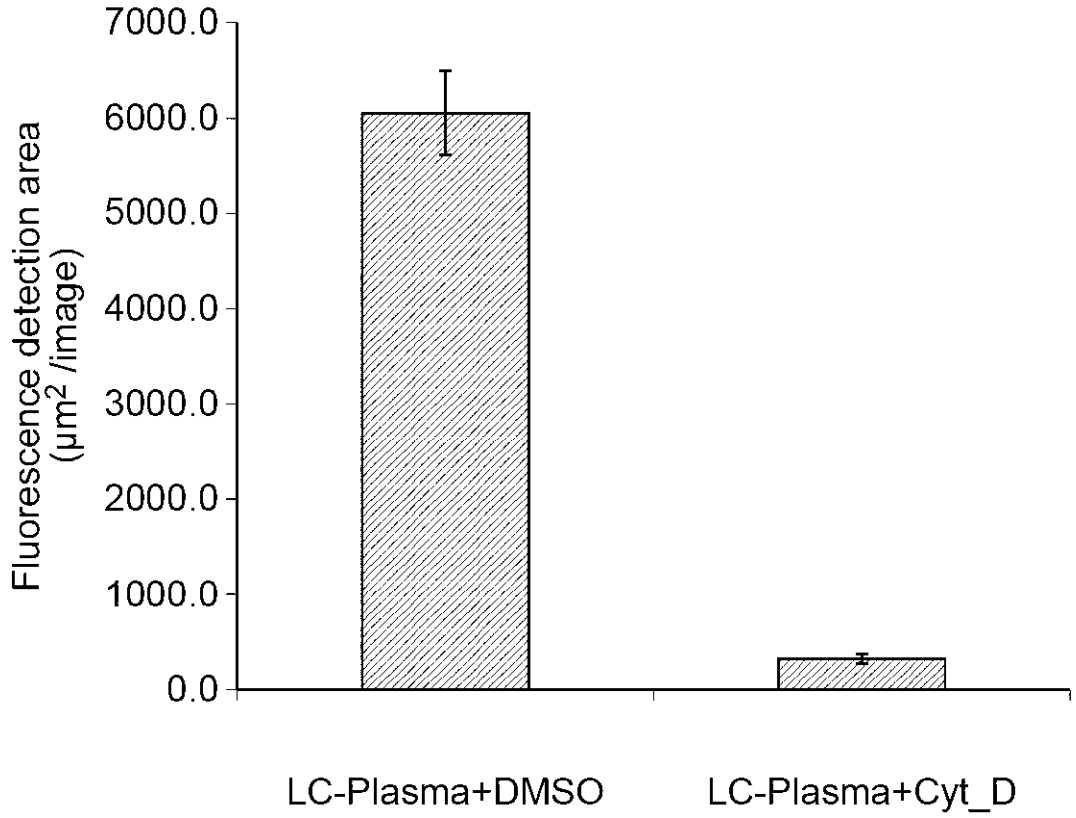

7000.0
6000.0
5000.0
4000.0
3000.0
2000.0
1000.0
0.0
Fluorescence detection area
(μm2 /image)
LC-Plasma+DMSO
LC-Plasma+Cyt_D

Fig.2

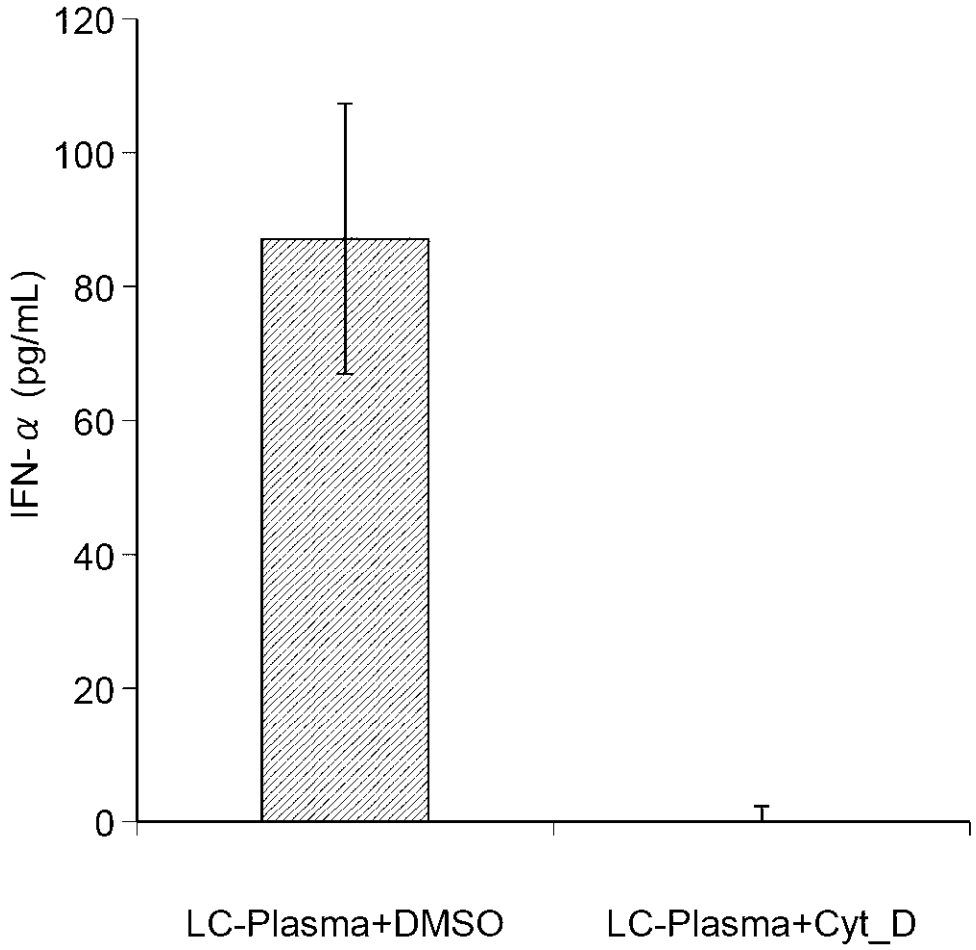


Fig.3

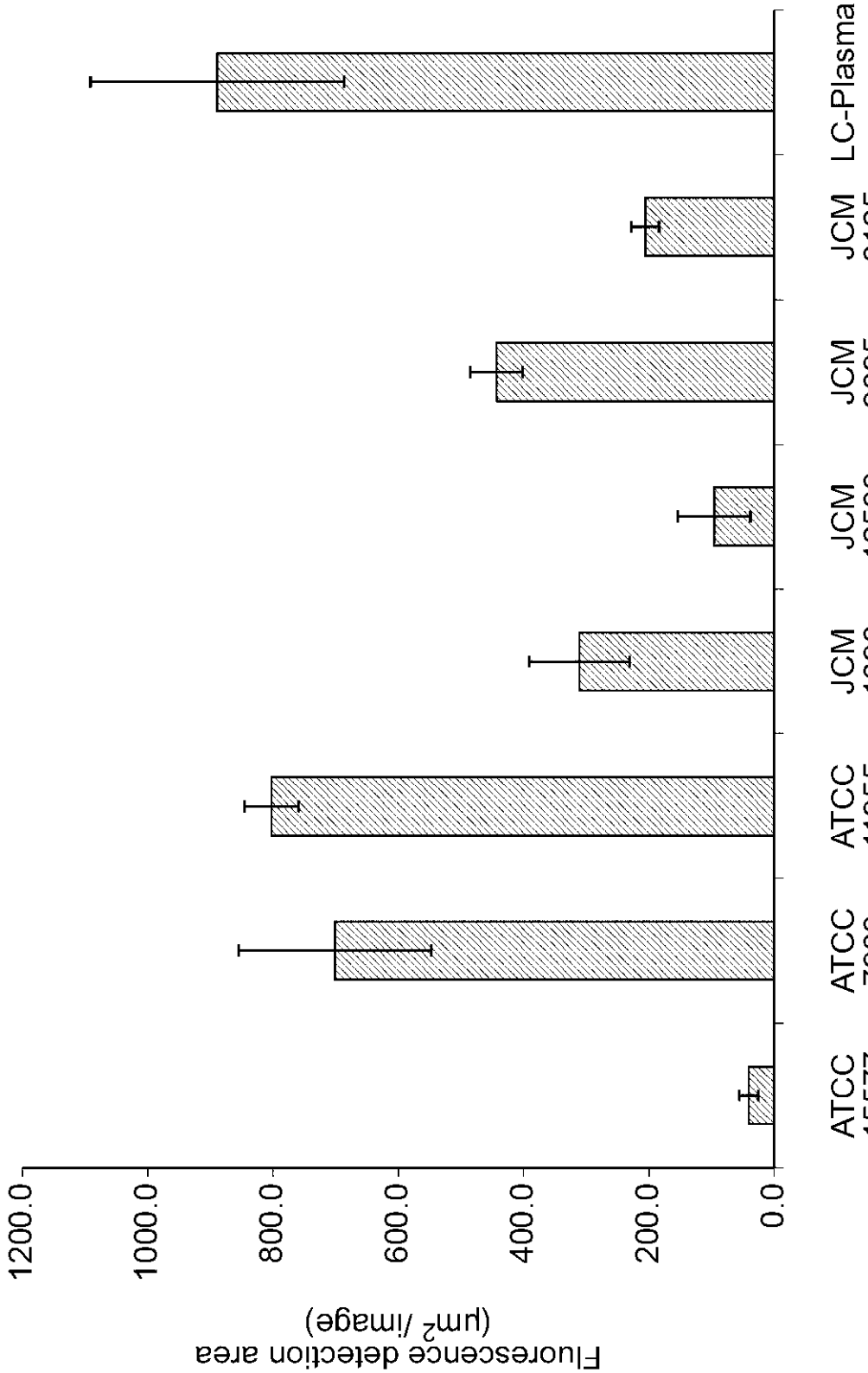

Fluorescence detection area
(μm² /image)
1200.0
1000.0
800.0
600.0
400.0
200.0
0.0
ATCC 15577
ATCC 7963
ATCC 11955
JCM 1096
JCM 12533
JCM 9695
JCM 6125
LC-Plasma

Fig.4

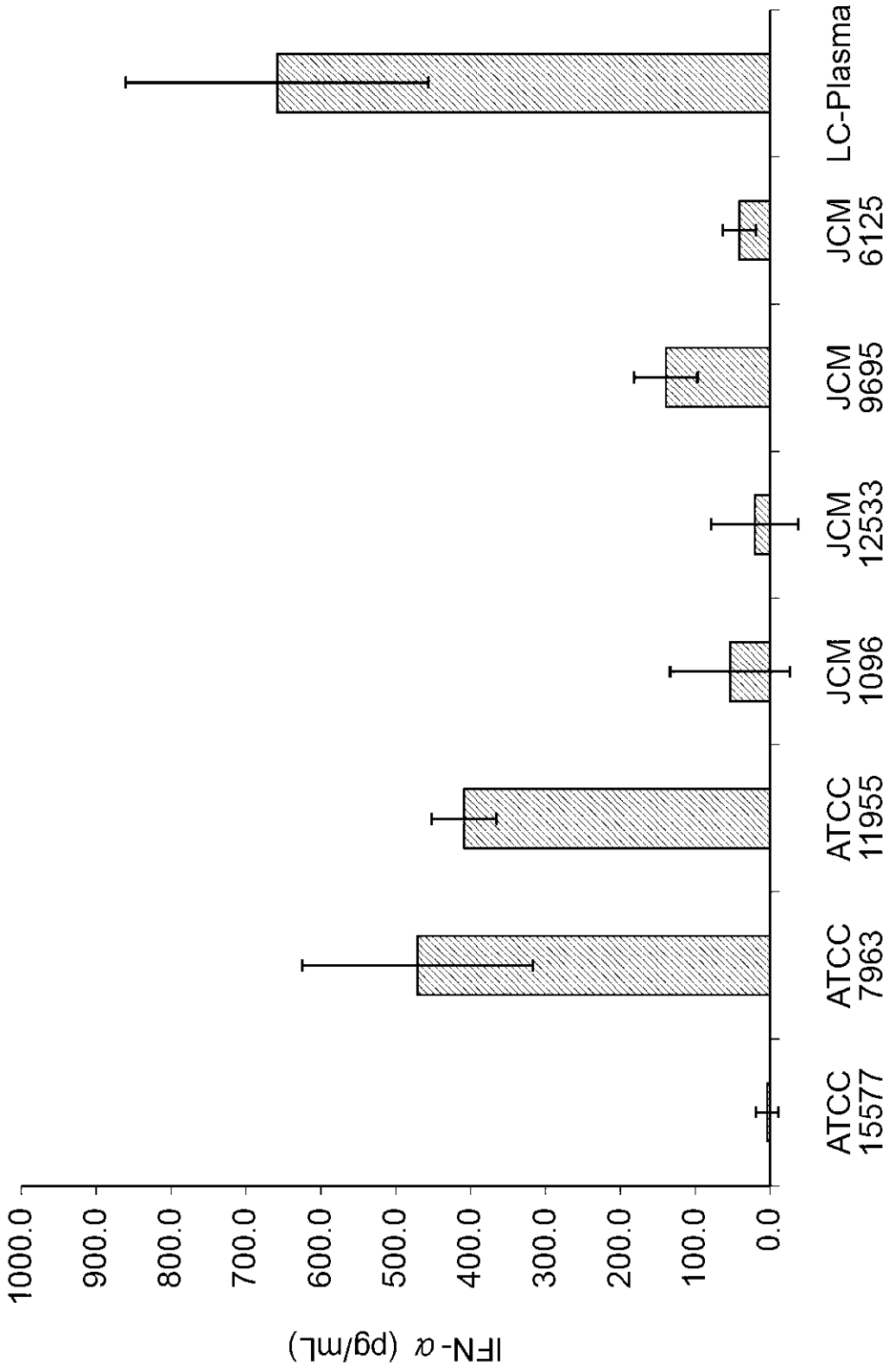

IFN-α (pg/mL)
1000.0
900.0
800.0
700.0
600.0
500.0
400.0
300.0
200.0
100.0
0.0
ATCC 15577
ATCC 7963
ATCC 11955
JCM 1096
JCM 12533
JCM 9695
JCM 6125
LC-Plasma

Fig.5

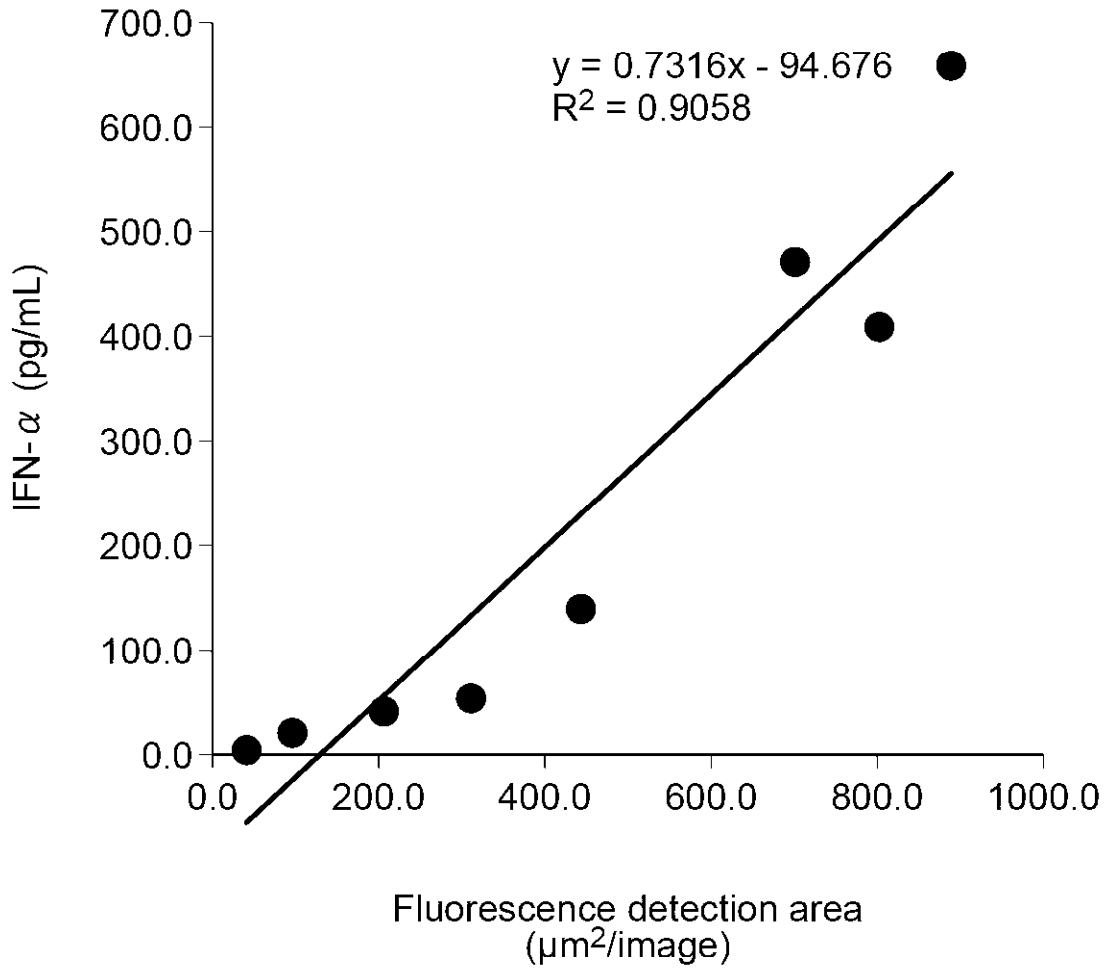

700.0
600.0
500.0
400.0
300.0
200.0
100.0
0.0
IFN-α (pg/mL)
y = 0.7316x - 94.676
R2 = 0.9058
0.0
200.0
400.0
600.0
800.0
1000.0
Fluorescence detection area
(μm2/image)

Fig.6

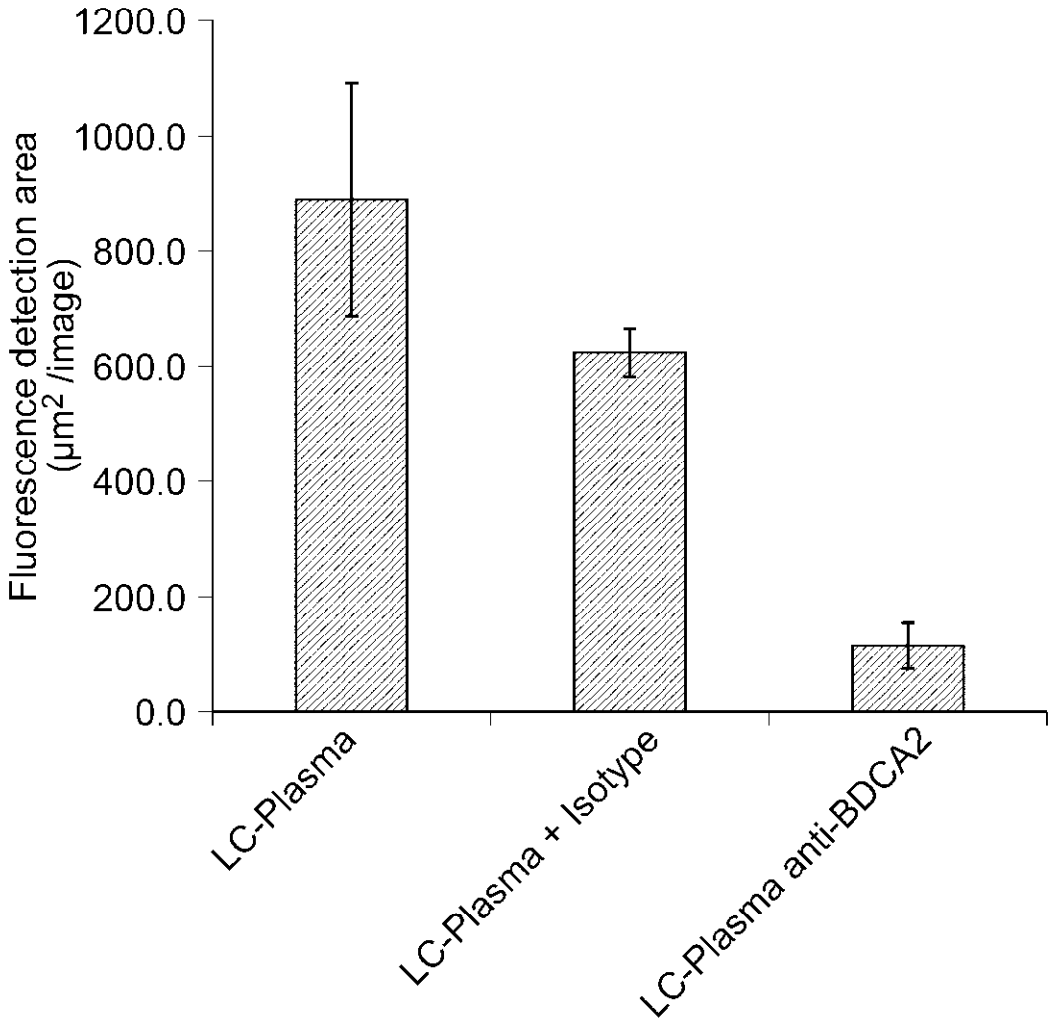

1200.0
1000.0
800.0
600.0
400.0
200.0
0.0
Fluorescence detection area
(μm² /image)
LC-Plasma
LC-Plasma + Isotype
LC-Plasma anti-BDCA2

Fig.7

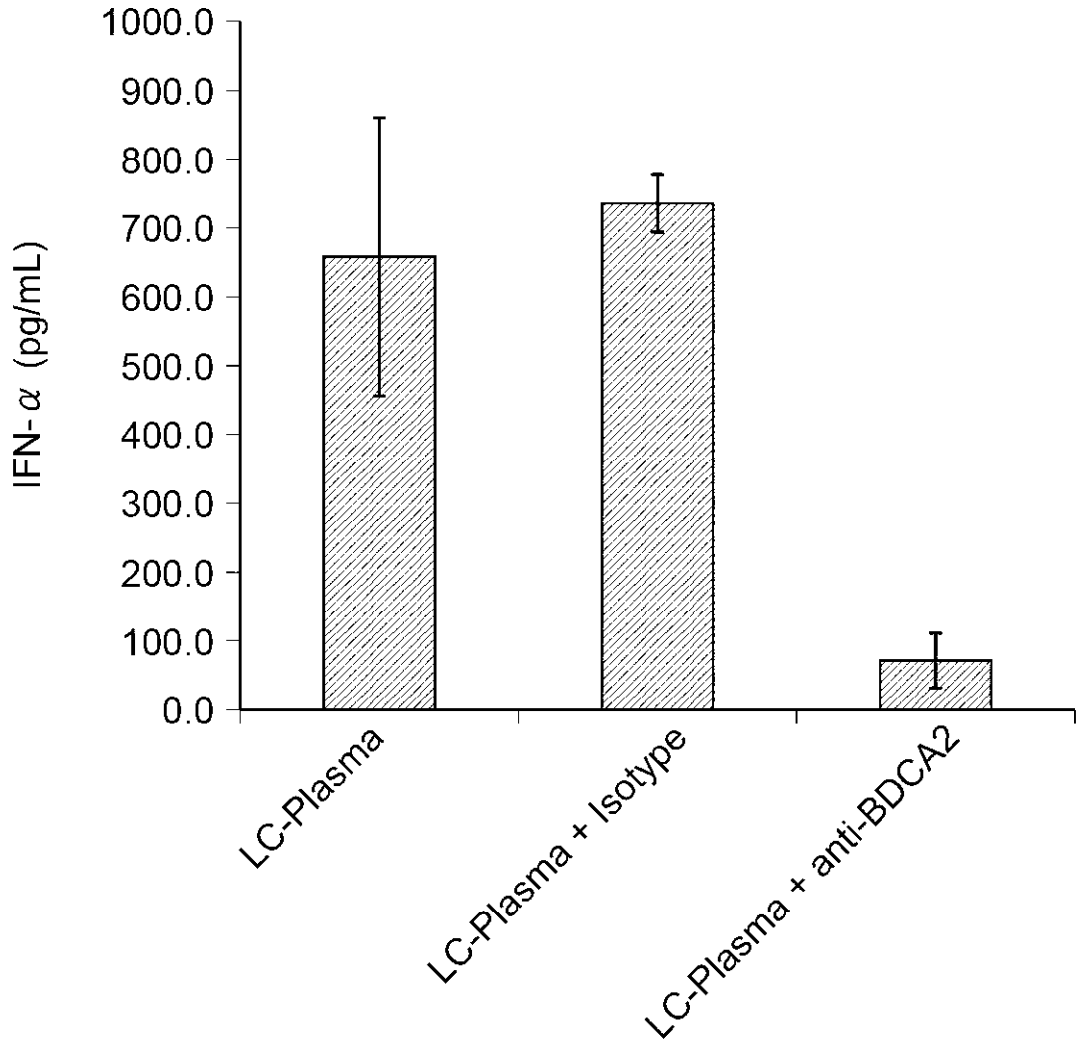

1000.0
900.0
800.0
700.0
600.0
500.0
400.0
300.0
200.0
100.0
0.0
IFN-α (pg/mL)
LC-Plasma
LC-Plasma + Isotype
LC-Plasma + anti-BDCA2

Fig.8

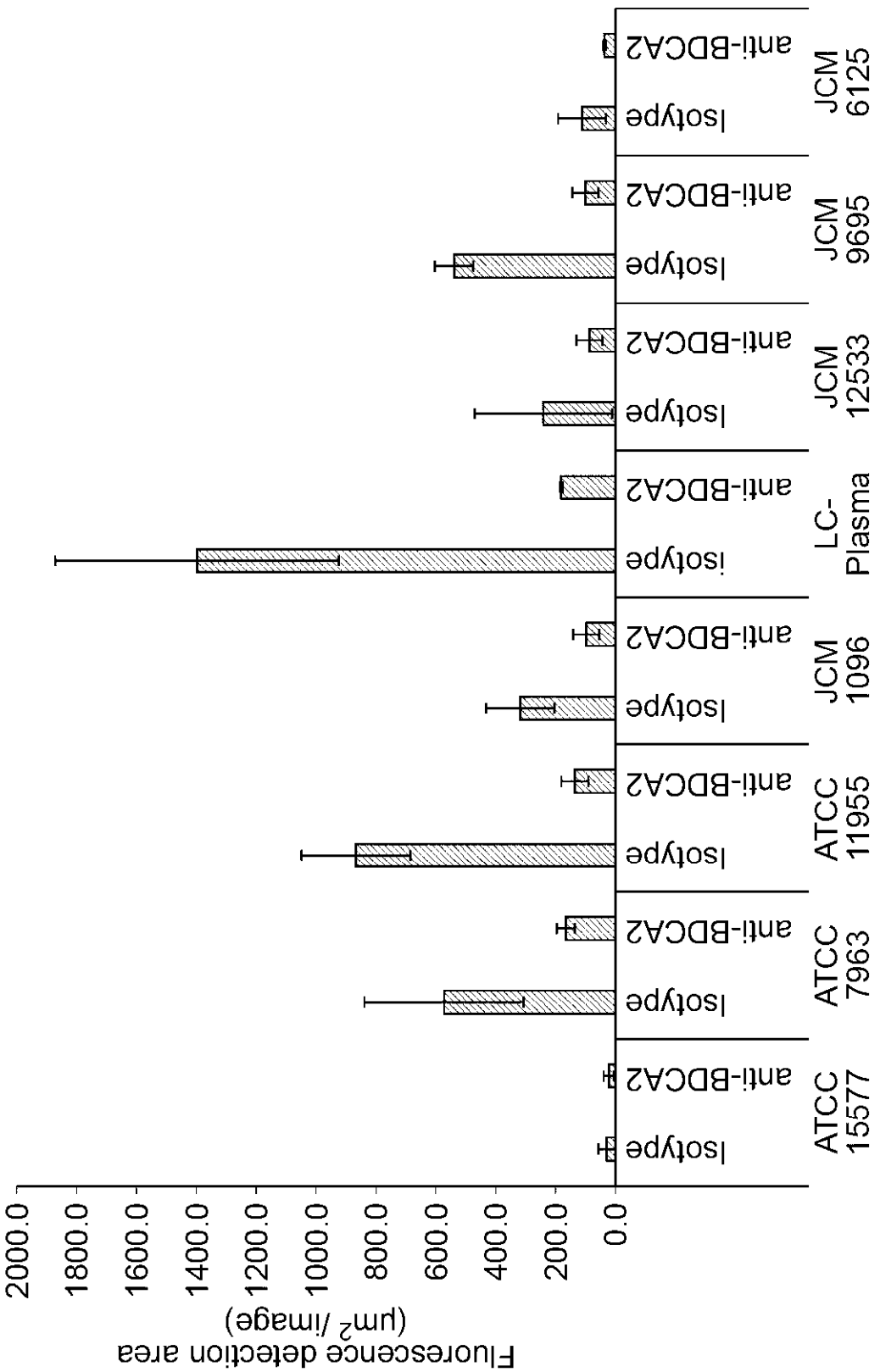

Fluorescence detection area
(μm² /image)
2000.0
1800.0
1600.0
1400.0
1200.0
1000.0
800.0
600.0
400.0
200.0
0.0
Isotype
anti-BDCA2
ATCC 15577
ATCC 7963
ATCC 11955
JCM 1096
LC-Plasma
JCM 12533
JCM 9695
JCM 6125

Fig.9

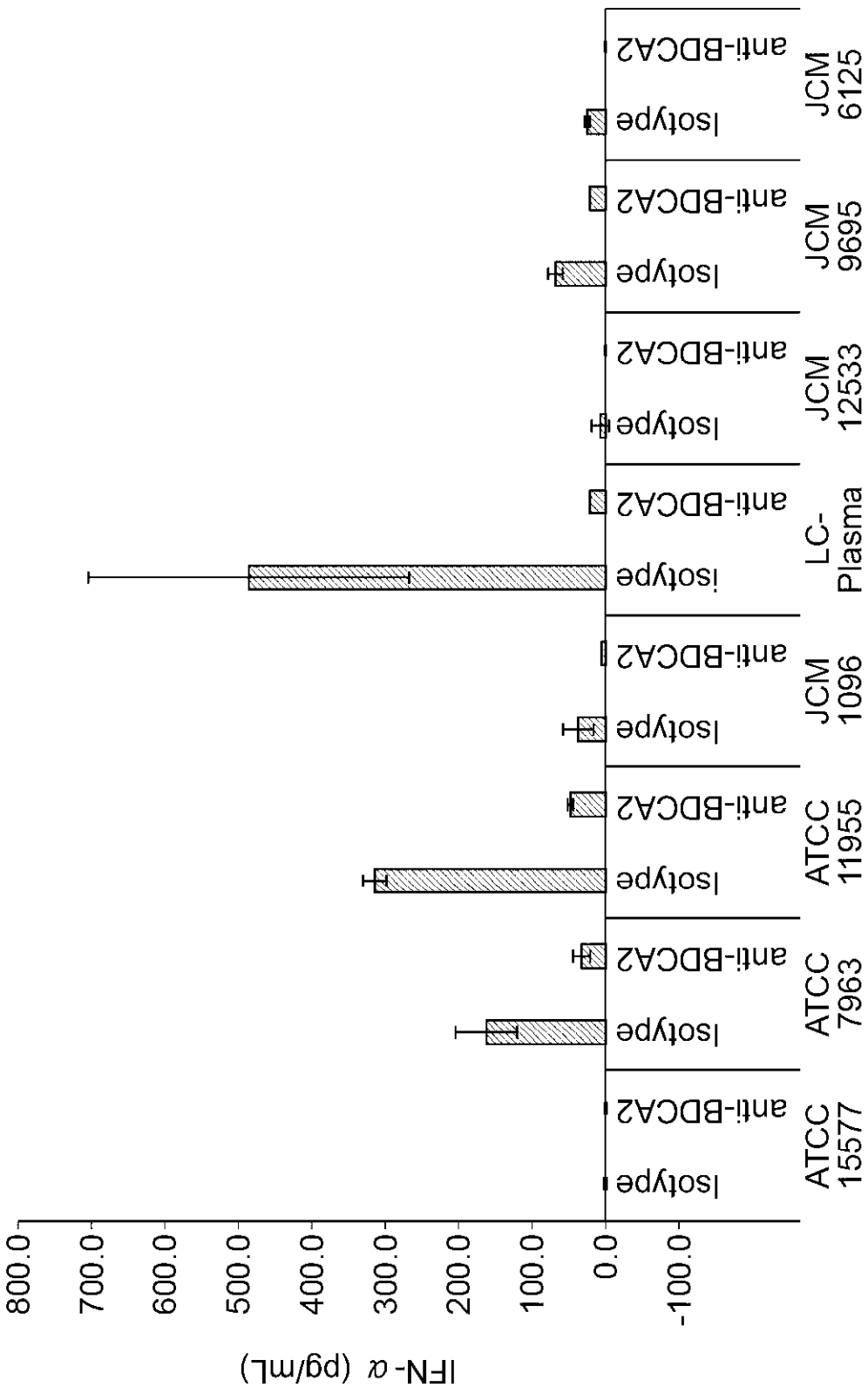

IFN-α (pg/mL)
800.0
700.0
600.0
500.0
400.0
300.0
200.0
100.0
0.0
-100.0
ATCC 15577
ATCC 7963
ATCC 11955
JCM 1096
LC-Plasma
JCM 12533
JCM 9695
JCM 6125
Isotype
anti-BDCA2

Fig.10

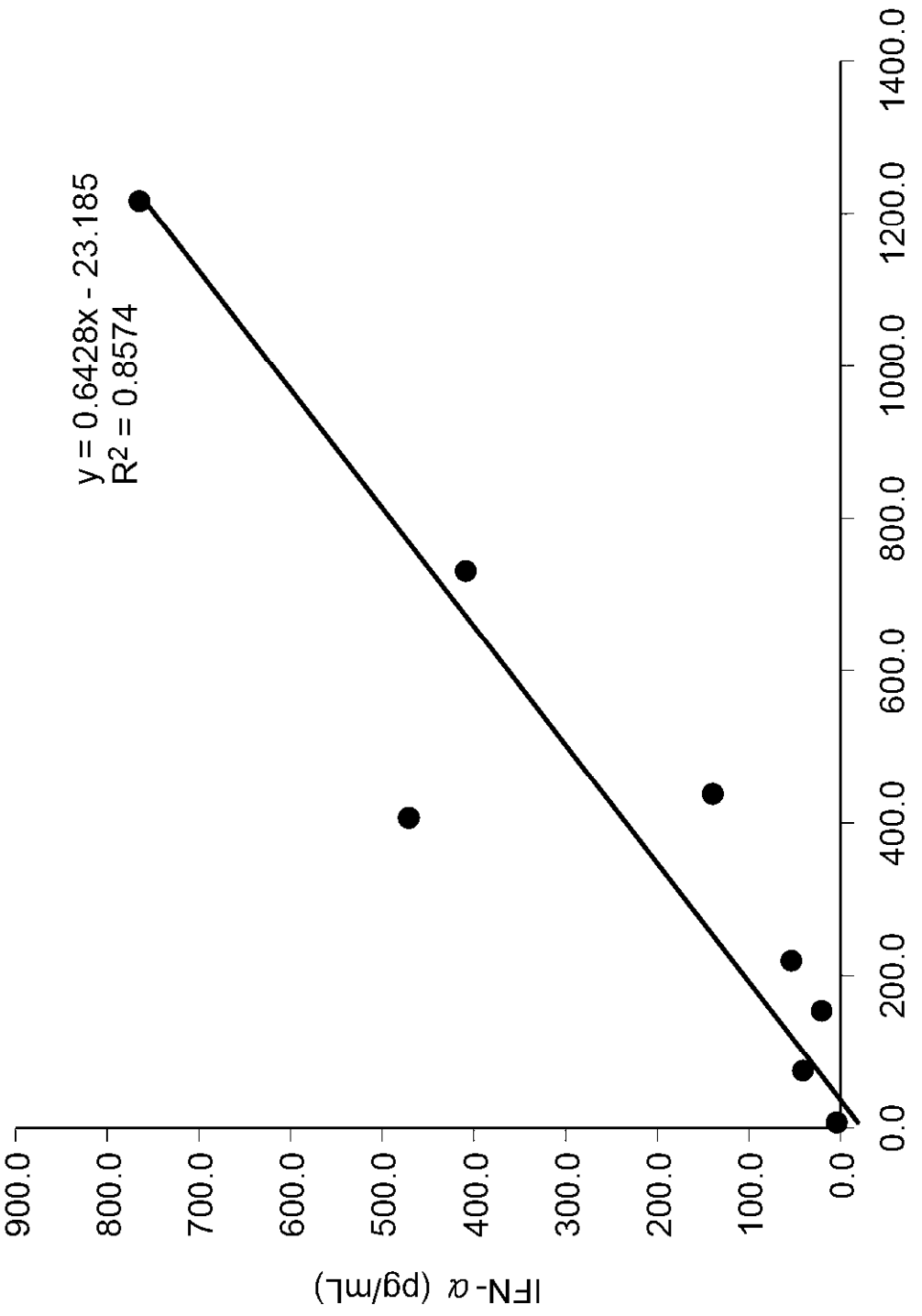

y = 0.6428x - 23.185
R2 = 0.8574
IFN-α (pg/mL)
0.0
100.0
200.0
300.0
400.0
500.0
600.0
700.0
800.0
900.0
0.0
200.0
400.0
600.0
800.0
1000.0
1200.0
1400.0
Amount of phagocytosis via binding to BDCA2
(μm2/image)

Fig.11

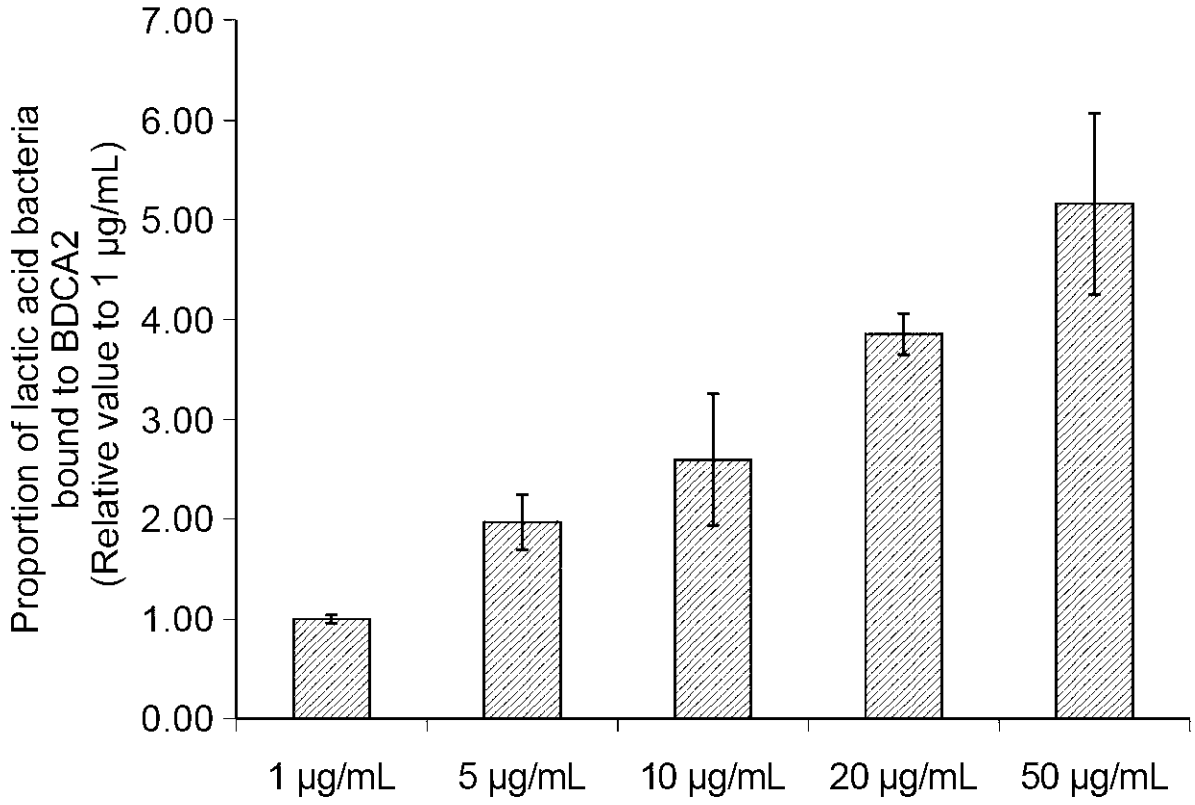

Proportion of lactic acid bacteria bound to BDCA2 (Relative value to 1 μg/mL)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
1 μg/mL
5 μg/mL
10 μg/mL
20 μg/mL
50 μg/mL

Fig.12

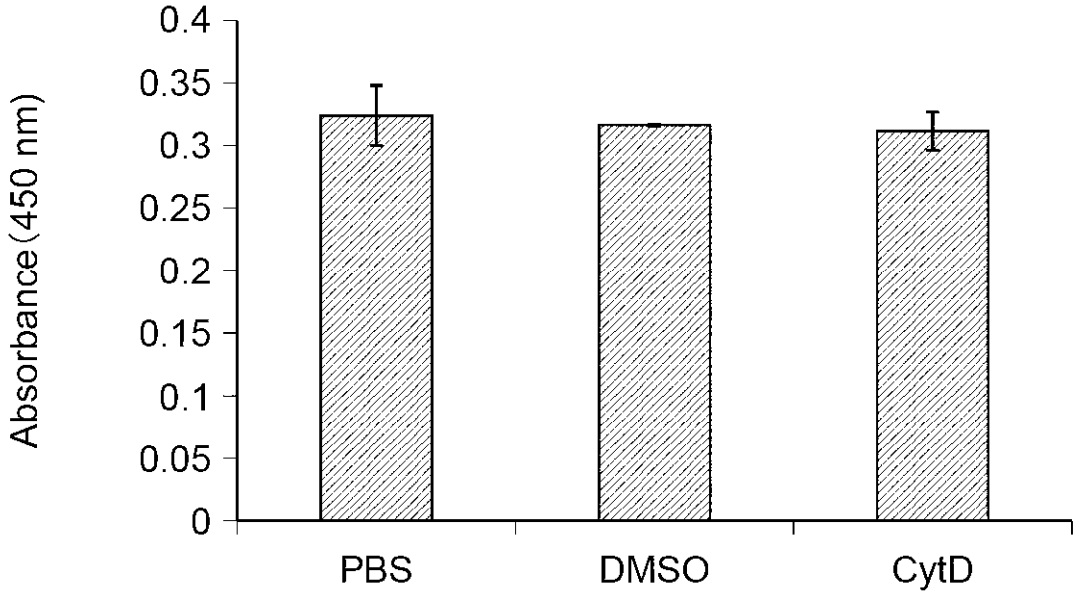


Fig.13

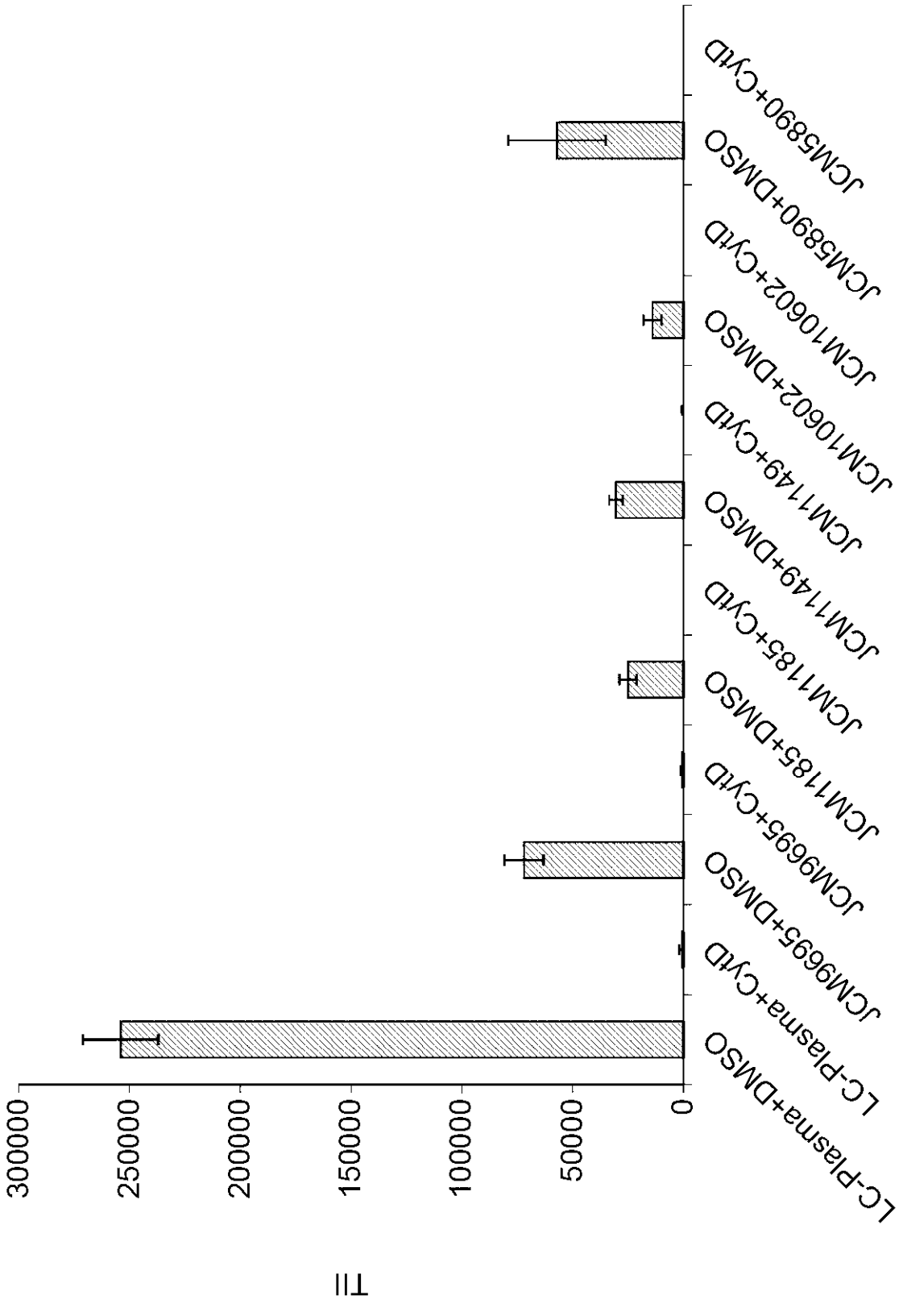
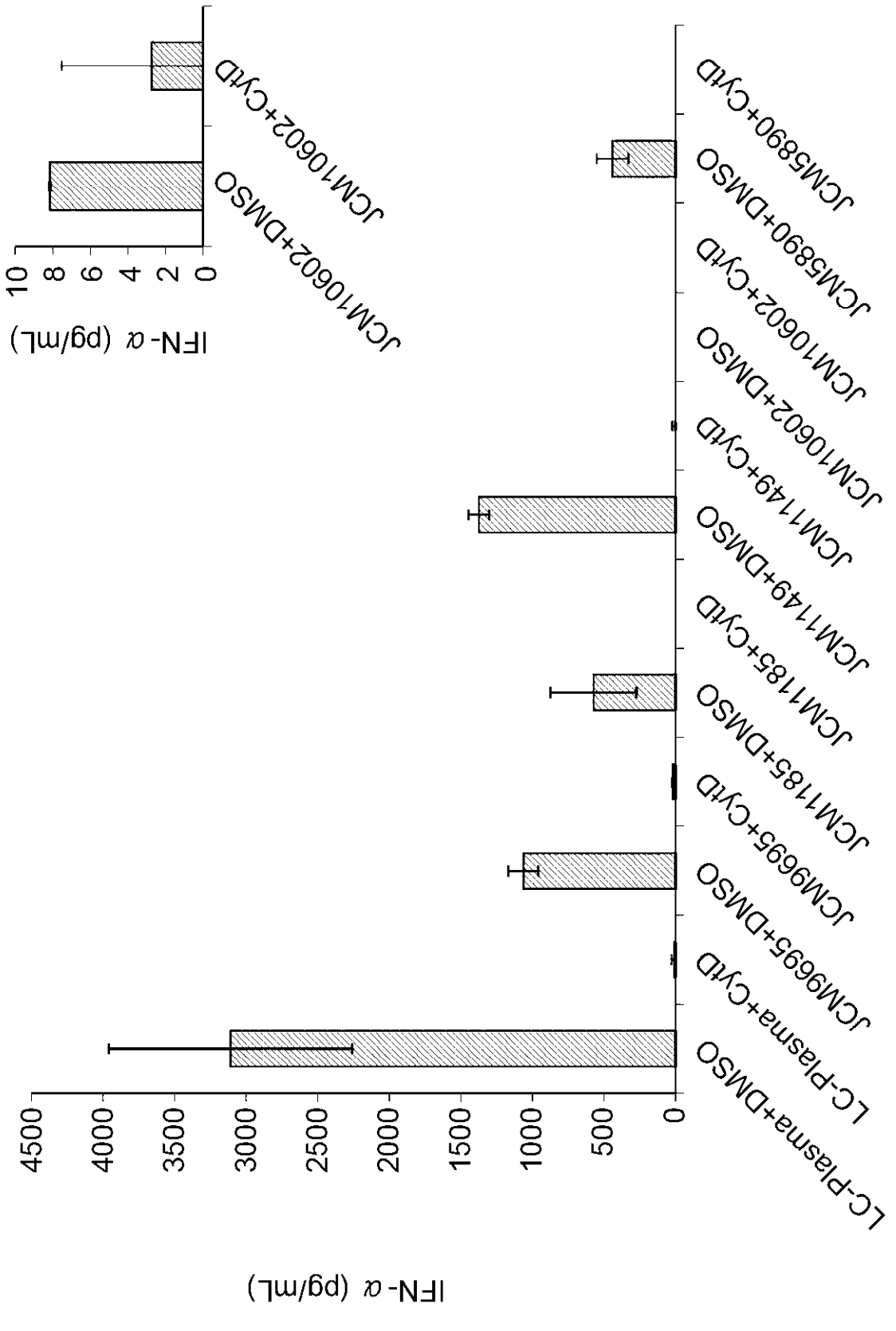

TII
300000
250000
200000
150000
100000
50000
0
LC-Plasma+DMSO
LC-Plasma+CytD
JCM9695+DMSO
JCM9695+CytD
JCM1185+DMSO
JCM1185+CytD
JCM1149+DMSO
JCM1149+CytD
JCM10602+DMSO
JCM10602+CytD
JCM5890+DMSO
JCM5890+CytD

Fig.14


IFN-α (pg/mL)
LC-Plasma+DMSO
LC-Plasma+CytD
JCM9695+DMSO
JCM9695+CytD
JCM1185+DMSO
JCM1185+CytD
JCM1149+DMSO
JCM1149+CytD
JCM10602+DMSO
JCM10602+CytD
JCM5890+DMSO
JCM5890+CytD
0
500
1000
1500
2000
2500
3000
3500
4000
4500
IFN-α (pg/mL)
JCM10602+DMSO
JCM10602+CytD
0
2
4
6
8
10