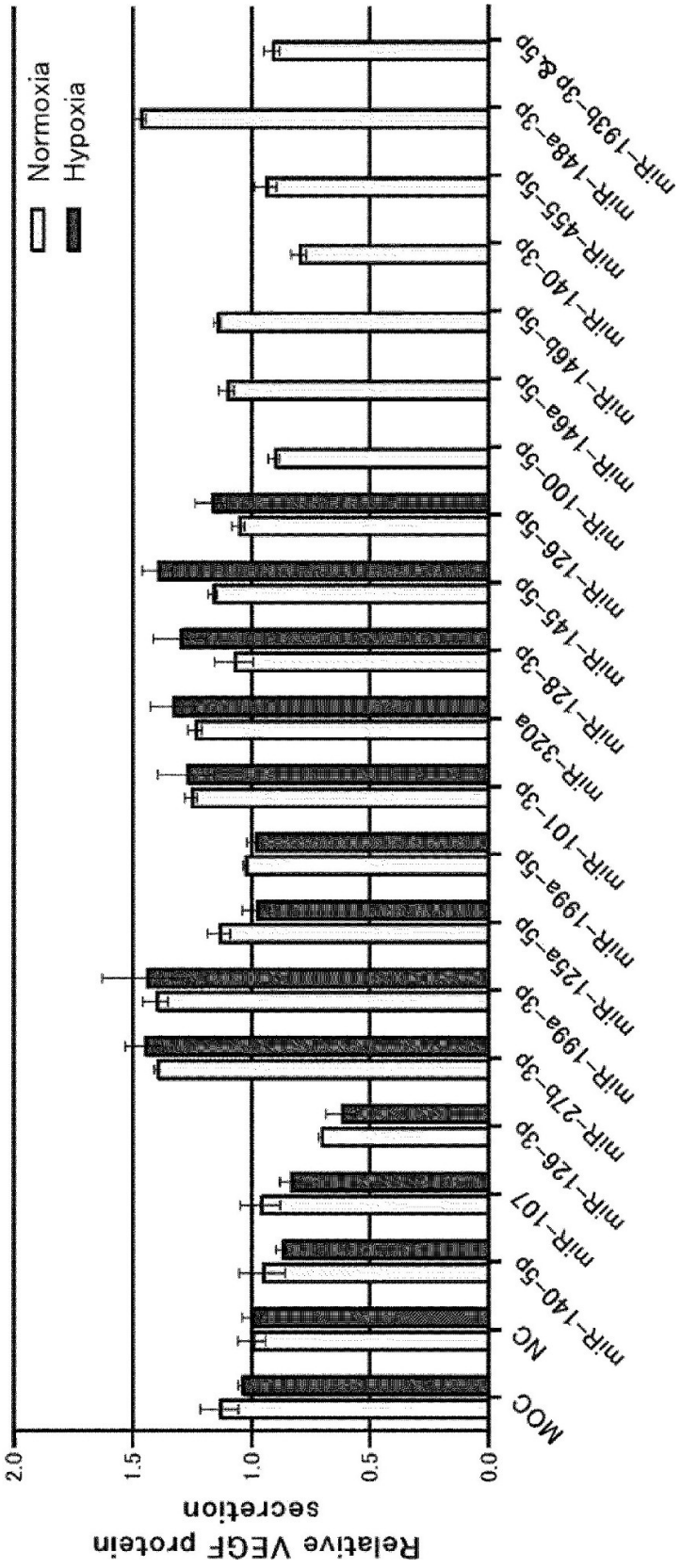
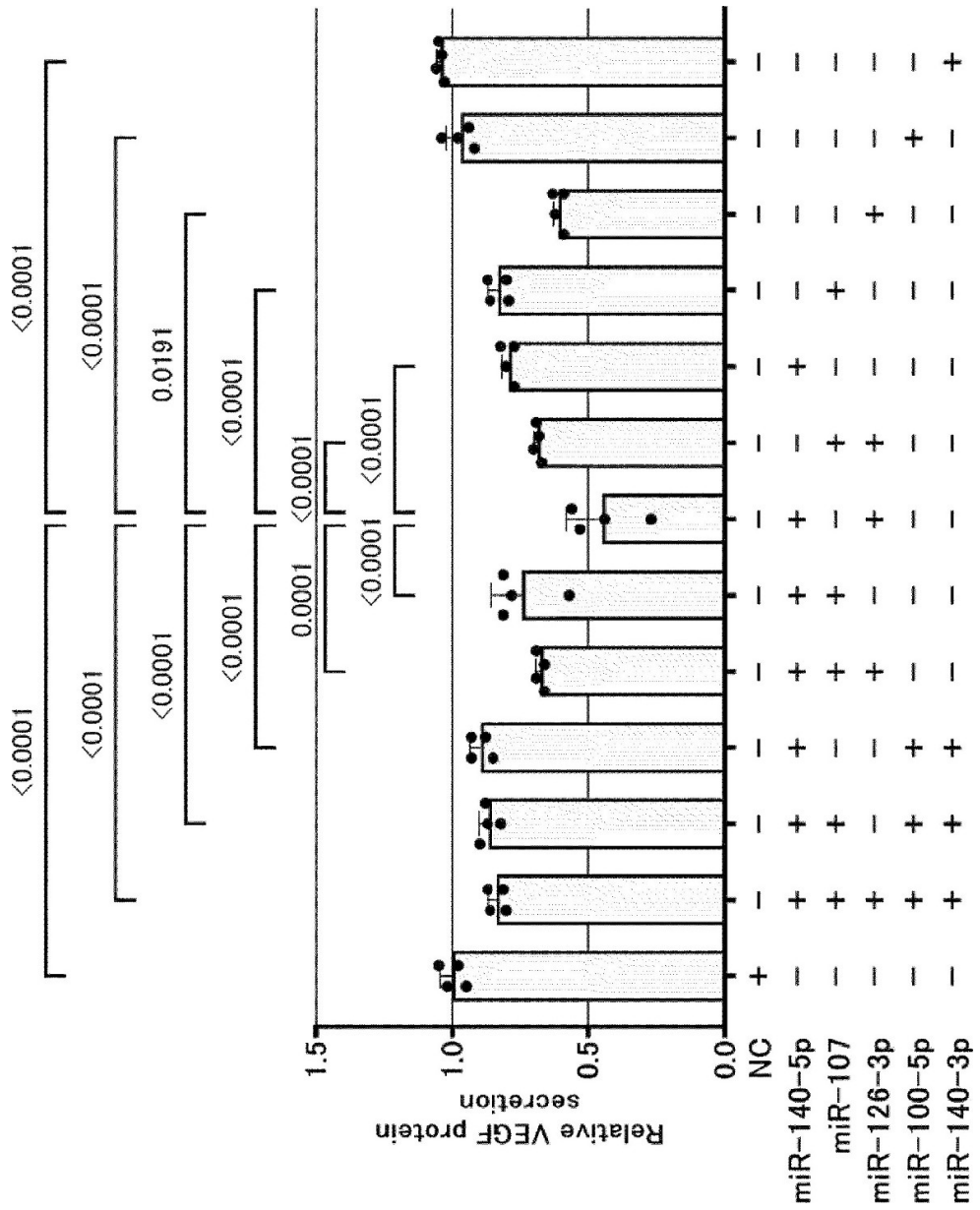
DRAWINGS

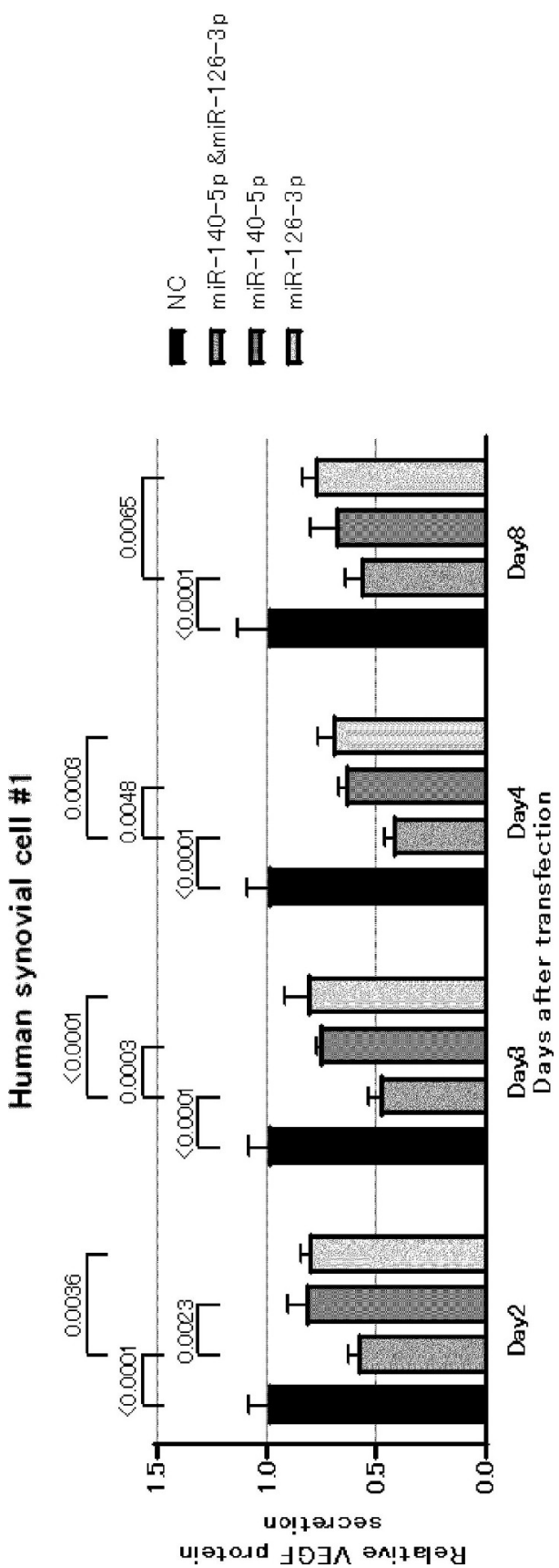
[Fig. 1]



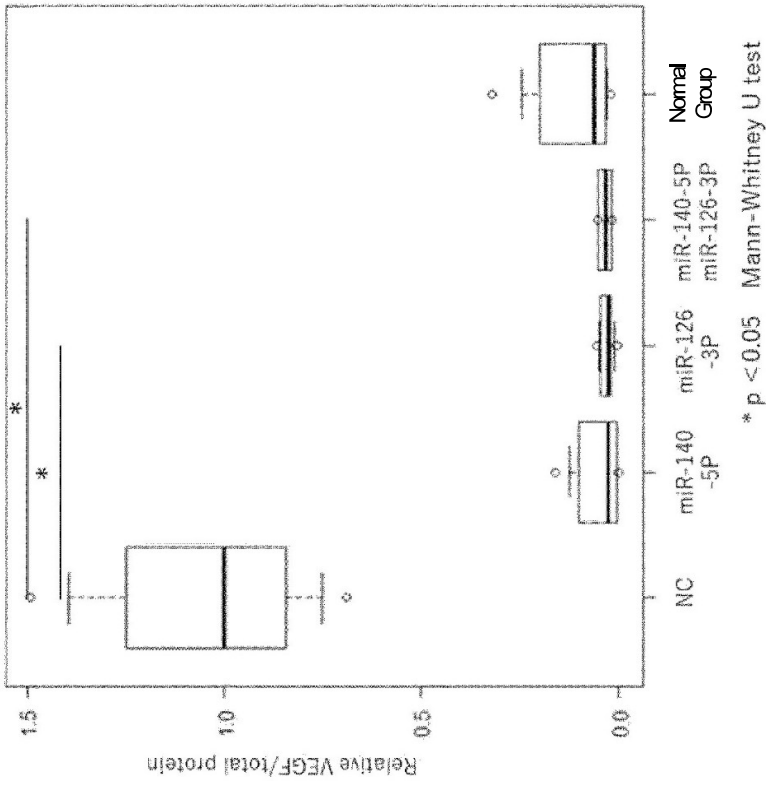
[Fig. 2]

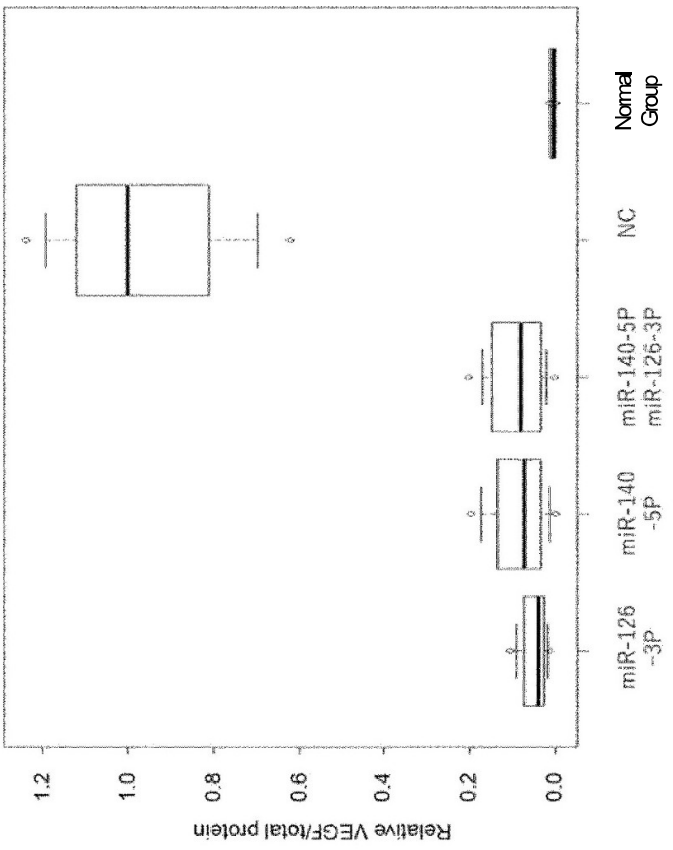

Relative VEGF protein secretion
1.5
1.0
0.5
0.0
<0.0001
<0.0001
<0.0001
<0.0001
0.0191
<0.0001
<0.0001
0.0001
<0.0001
<0.0001
<0.0001
NC
miR-140-5p
miR-107
miR-126-3p
miR-100-5p
miR-140-3p

[Fig. 3]

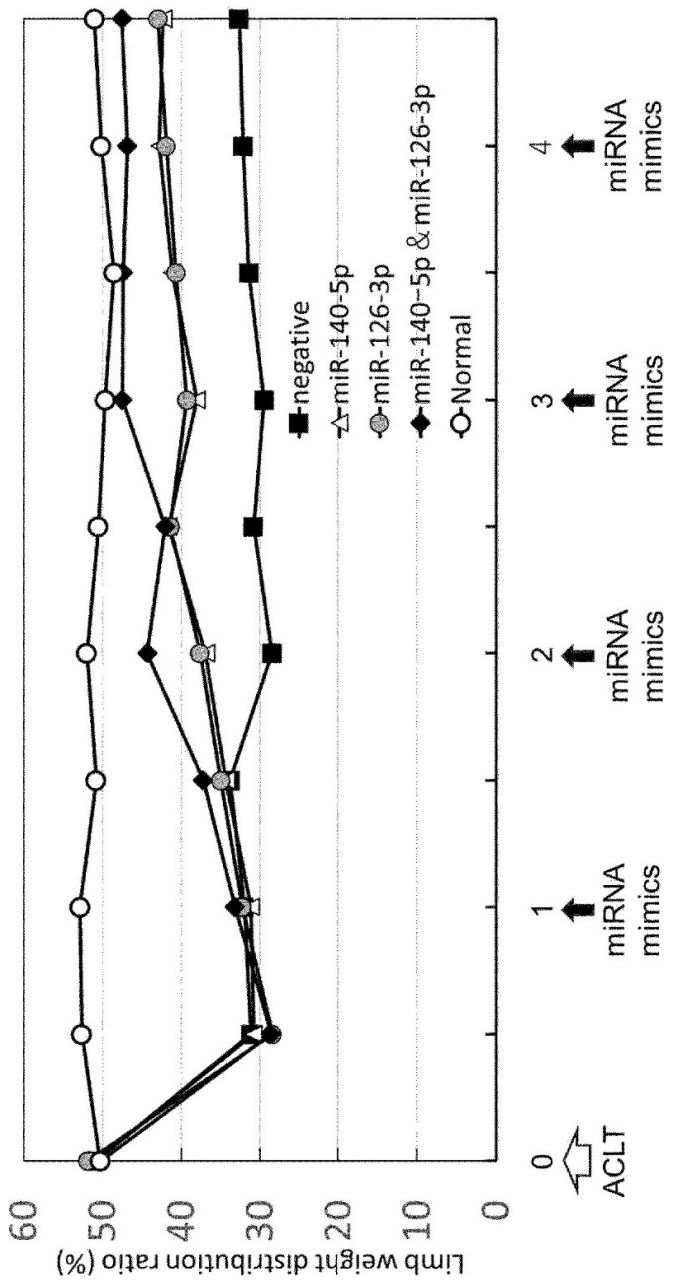

Human synovial cell #1
NC
miR-140-5p &miR-126-3p
miR-140-5p
miR-126-3p
Relative VEGF protein secretion
1.5
1.0
0.5
0.0
<0.0001
0.0023
0.0036
<0.0001
0.0003
<0.0001
<0.0001
0.0048
0.0008
<0.0001
<0.0001
0.0065
Day2
Day3
Day4
Day8
Days after transfection

[Fig. 4]

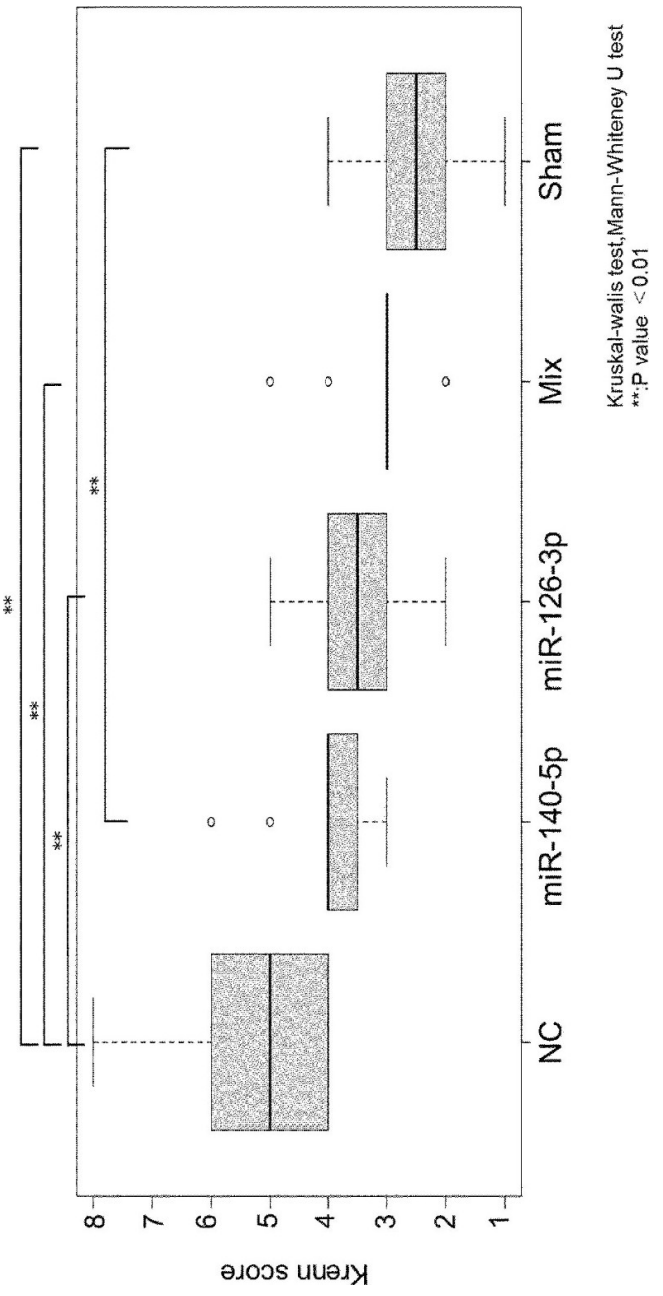

[Synovium]
Relative VEGF/total protein
1.5
1.0
0.5
0.0
*
*
NC
miR-140 -5P
miR-126 -3P
miR-140-5P miR-126-3P
Normal Group
* p < 0.05 Mann-Whitney U test


[Joint Fluid]
Relative VEGF/total protein
1.2
1.0
0.8
0.6
0.4
0.2
0.0
miR-126 -3P
miR-140 -5P
miR-140-5P miR-126-3P
NC
Normal Group

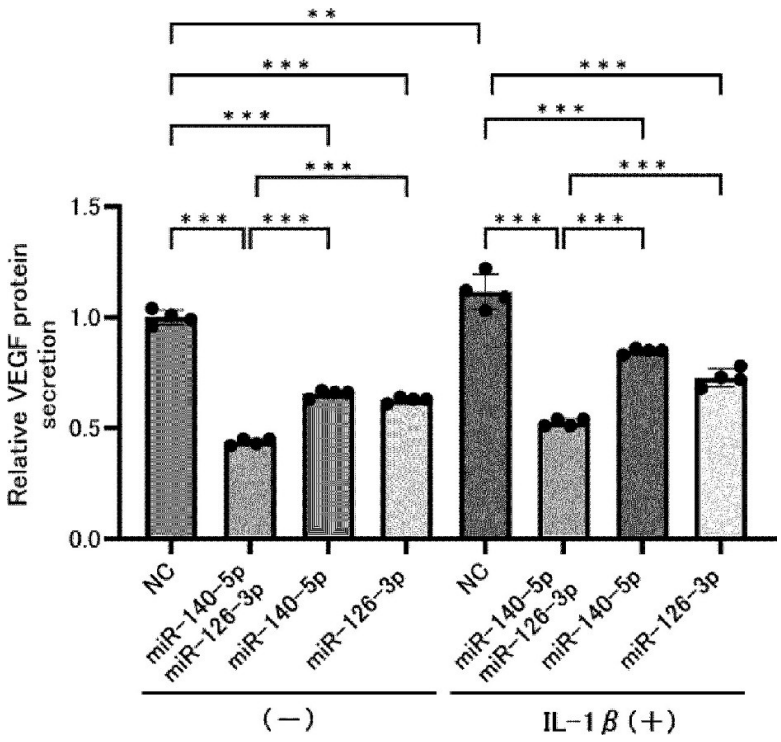
[Fig. 5]


Limb weight distribution ratio (%)
60
50
40
30
20
10
0
negative
miR-140-5p
miR-126-3p
miR-140-5p & miR-126-3p
Normal
0
ACLT
1
miRNA mimics
2
miRNA mimics
3
miRNA mimics
4
miRNA mimics

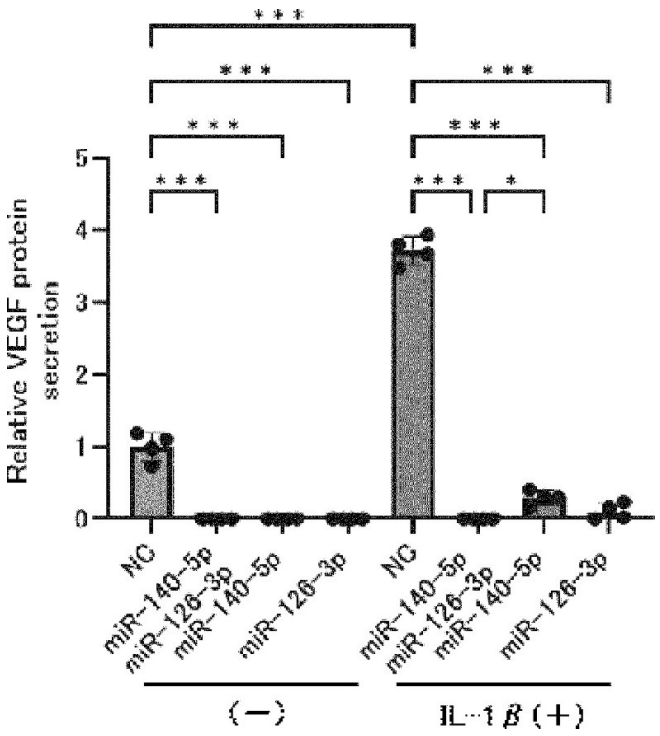
[Fig. 6]


Kruskal-wallis test,Mann-Whiteney U test
**:P value < 0.01
Kreen score
8
7
6
5
4
3
2
1
NC
miR-140-5p
miR-126-3p
Mix
Sham
**
**
**
**

[Fig. 7]


**
***
***
***
***
***
***
***
***
1.5
1.0
0.5
0.0
Relative VEGF protein secretion
NC
miR-140-5p
miR-126-3p
miR-140-5p
miR-126-3p
NC
miR-140-5p
miR-126-3p
miR-140-5p
miR-126-3p
(−)
IL-1β (+)

[Fig. 8]


***
***
***
***
***
***
***
*
5
4
3
2
1
0
Relative VEGF protein secretion
NC
miR-140-5p
miR-126-3p
miR-140-5p
miR-126-3p
NC
miR-140-5p
miR-126-3p
miR-140-5p
miR-126-3p
(−)
IL-1β (+)