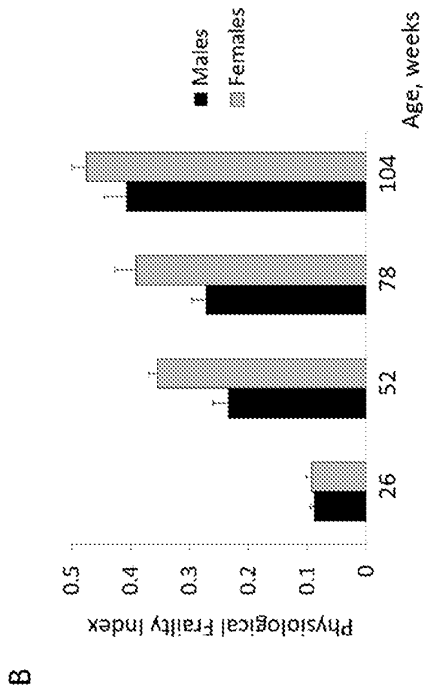

B
Physiological Frailty Index
0.5
0.4
0.3
0.2
0.1
0
26
52
78
104
Age, weeks
Males
Females

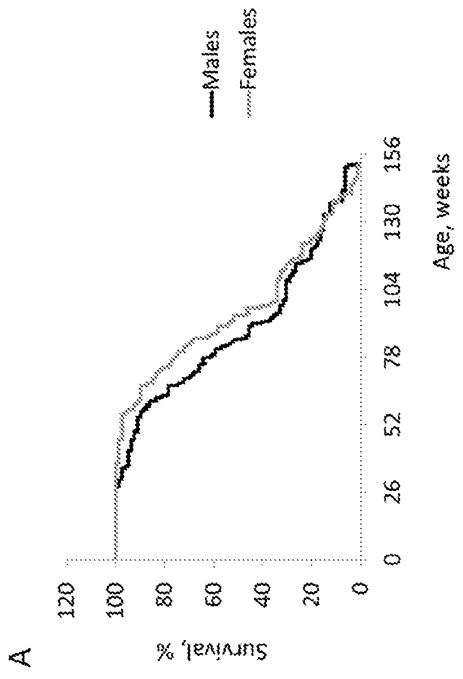

A
Survival, %
120
100
80
60
40
20
0
0
26
52
78
104
130
156
Age, weeks
Males
Females

FIGURE 1

FIGURE 2

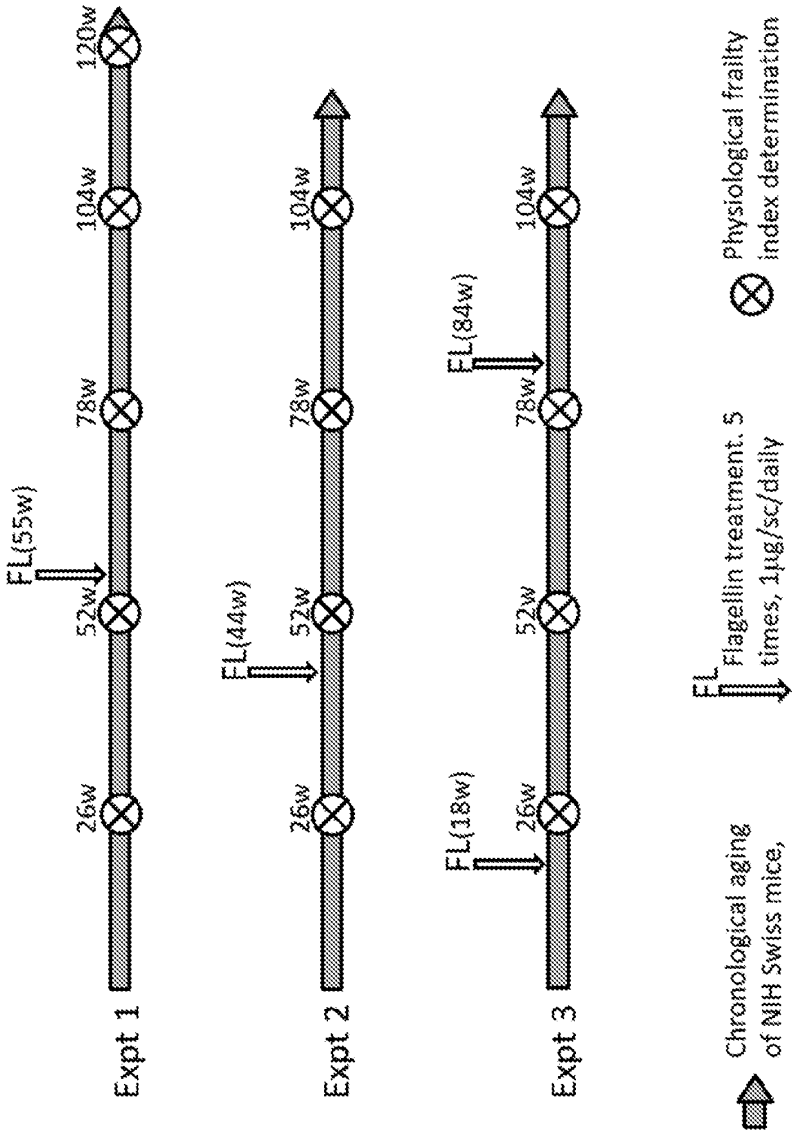
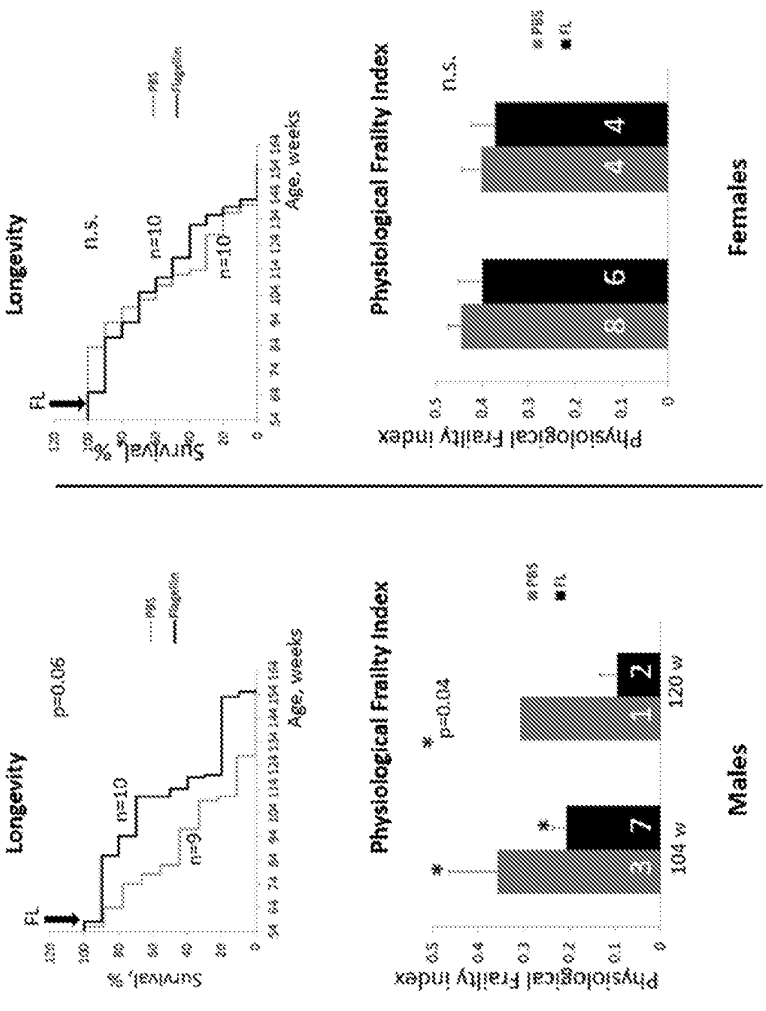

Expt 1
Expt 2
Expt 3
26w
52w
78w
104w
120w
FL(18w)
FL(44w)
FL(55w)
FL(84w)
Chronological aging of NIH Swiss mice, weeks
FL
Flagellin treatment. 5 times, 1µg/sc/daily
Physiological frailty index determination

FIGURE 3


Longevity
FL
p=0.036
n=9
n=10
Survival, %
Age, weeks
yes
negative
Physiological Frailty Index
p=0.04
104 w
120 w
3
7
1
2
Males
n.s.
n=10
n=10
6
8
4
4
Females

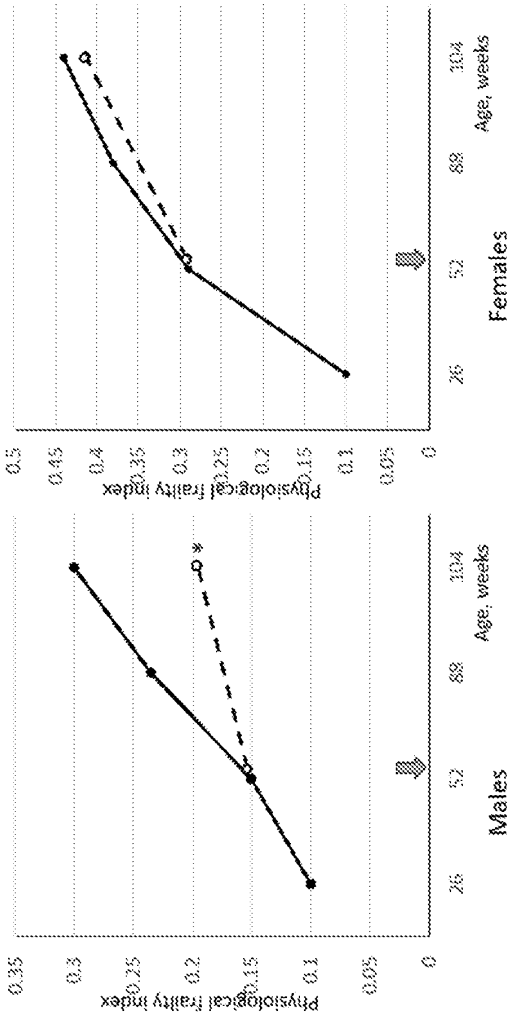

Physiological frailty index
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
26
52
88
104
Age, weeks
Males
Physiological frailty index
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
26
52
88
104
Age, weeks
Females

FIGURE 4

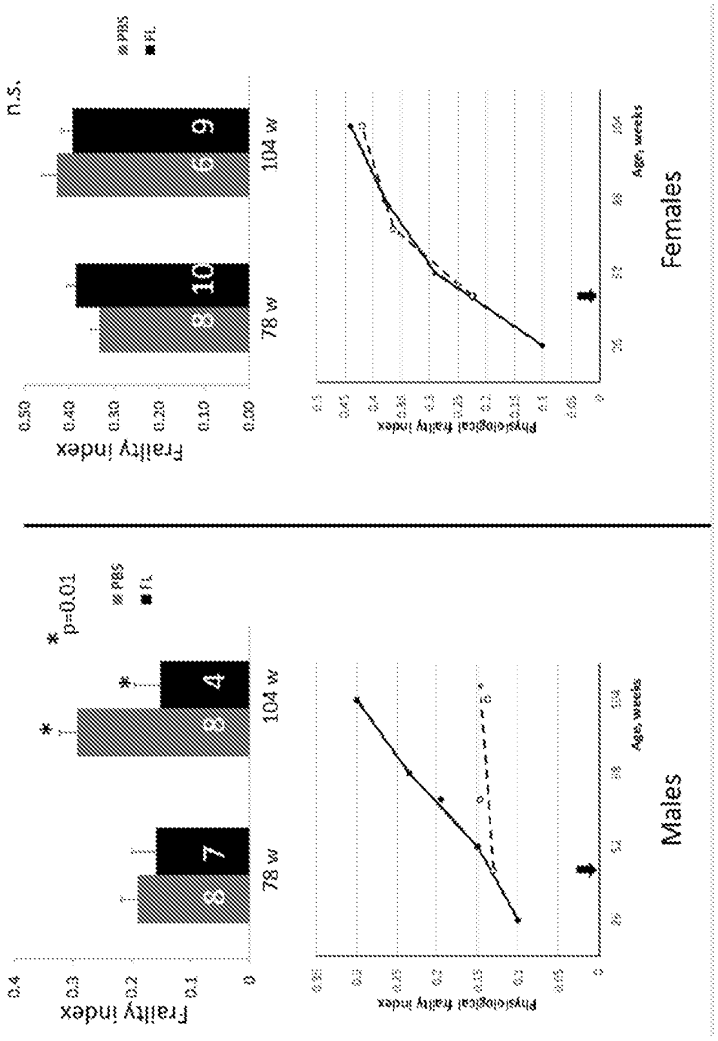
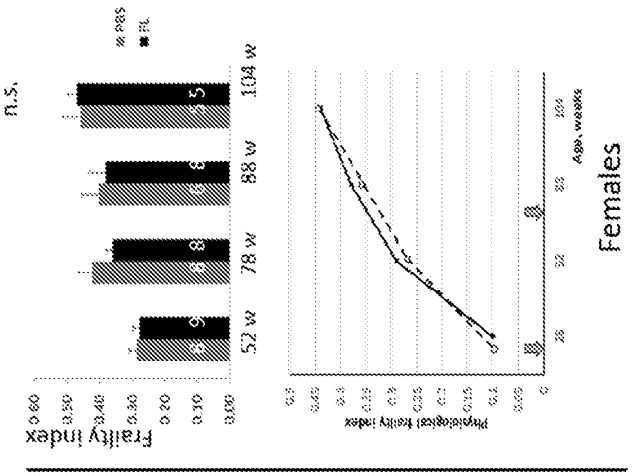
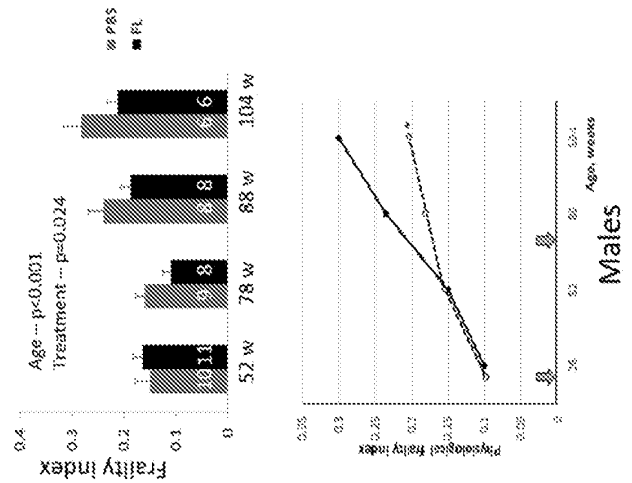

Females
Males
Frailty index
Physiological frailty index
Age, weeks
PBS
FL
78 w
104 w
n.s.
p=0.01
10
9
7
4

FIGURE 5

FIGURE 6


n.s.
Frailty index
0.60
0.50
0.40
0.30
0.20
0.10
0.00
52 w
78 w
88 w
104 w
PBS
FL
Physiological frailty index
Age, weeks
Females


Age -- p<0.001
Treatment -- p=0.024
Frailty index
0.4
0.3
0.2
0.1
0
52 w
78 w
88 w
104 w
PBS
FL
Physiological frailty index
Age, weeks
Males

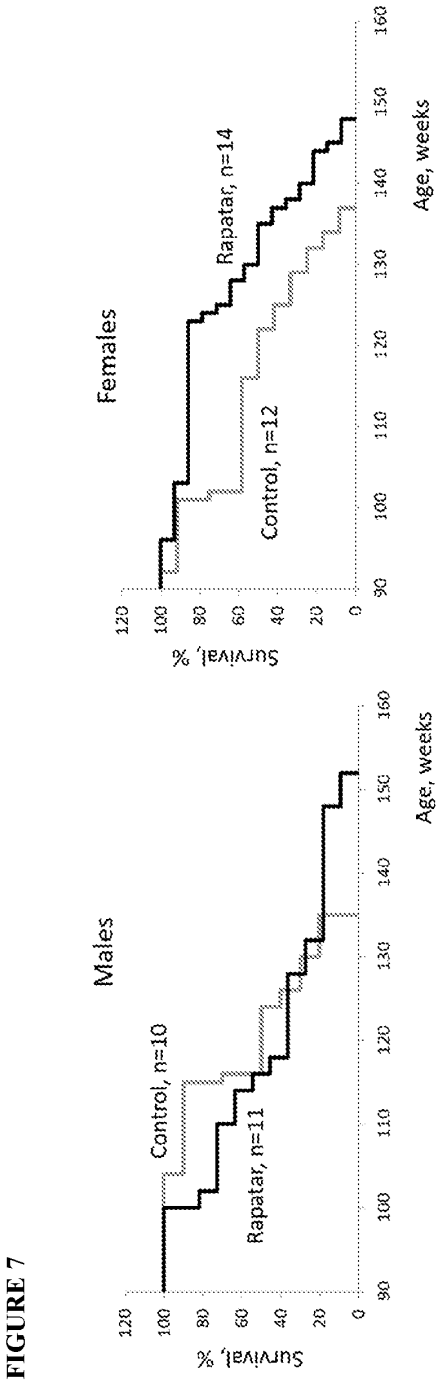

Females
Rapatar, n=14
Control, n=12
Survival, %
Age, weeks
Males
Control, n=10
Rapatar, n=11
Survival, %
Age, weeks

FIGURE 7

FIGURE 8

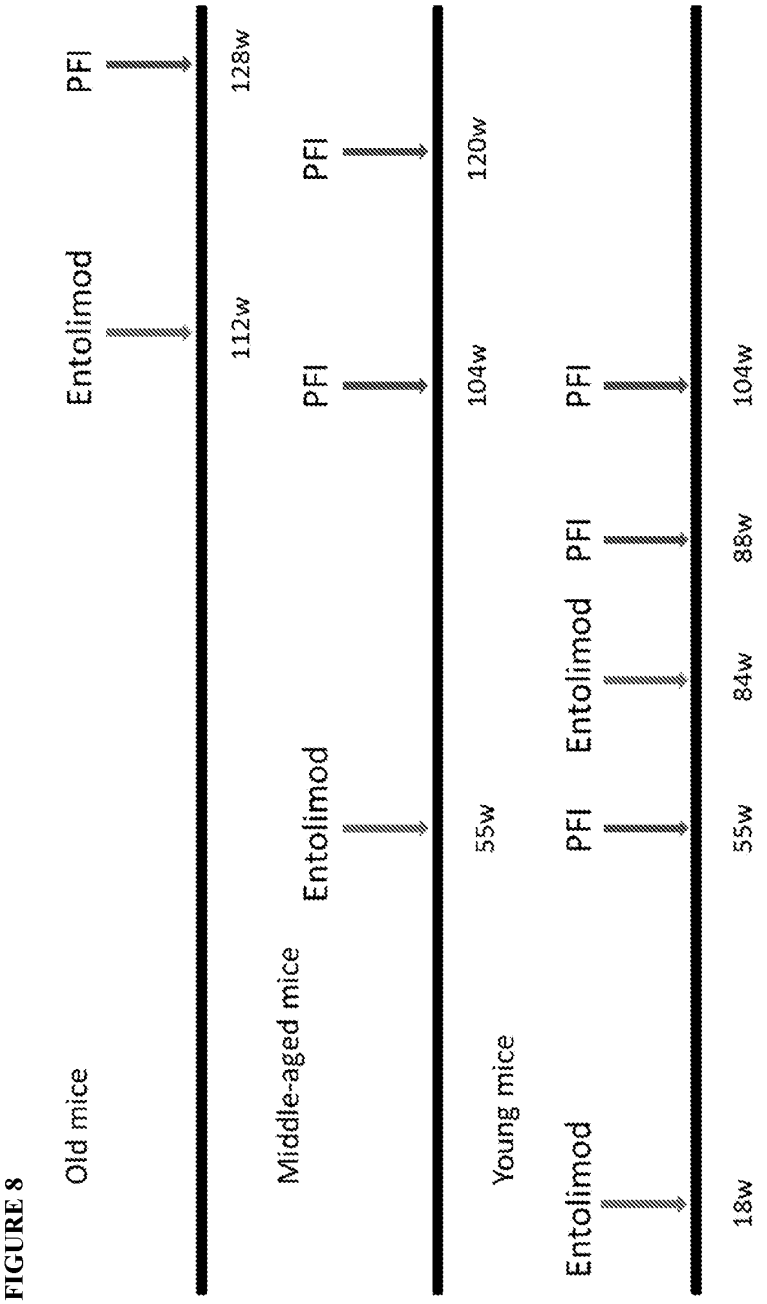

Old mice
Entolimod
112w
PFI
128w
Middle-aged mice
Entolimod
55w
PFI
104w
PFI
120w
Young mice
Entolimod
18w
PFI
55w
Entolimod
84w
PFI
88w
PFI
104w

FIGURE 9

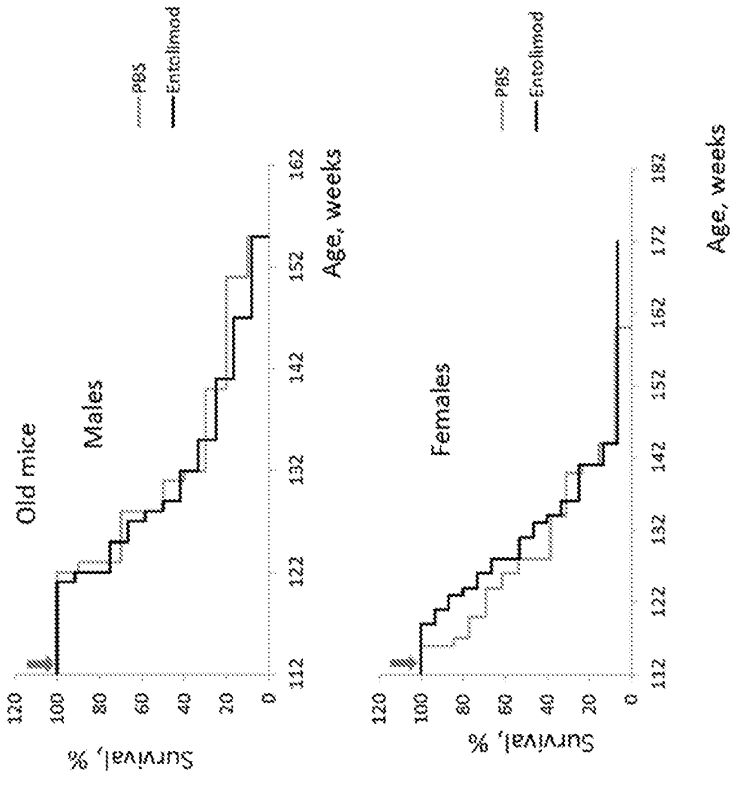

Old mice
Males
PBS
Entolimod
Survival, %
120
100
80
60
40
20
0
112
122
132
142
152
162
Age, weeks
Females
PBS
Entolimod
Survival, %
120
100
80
60
40
20
0
112
122
132
142
152
162
172
182
Age, weeks

FIGURE 10

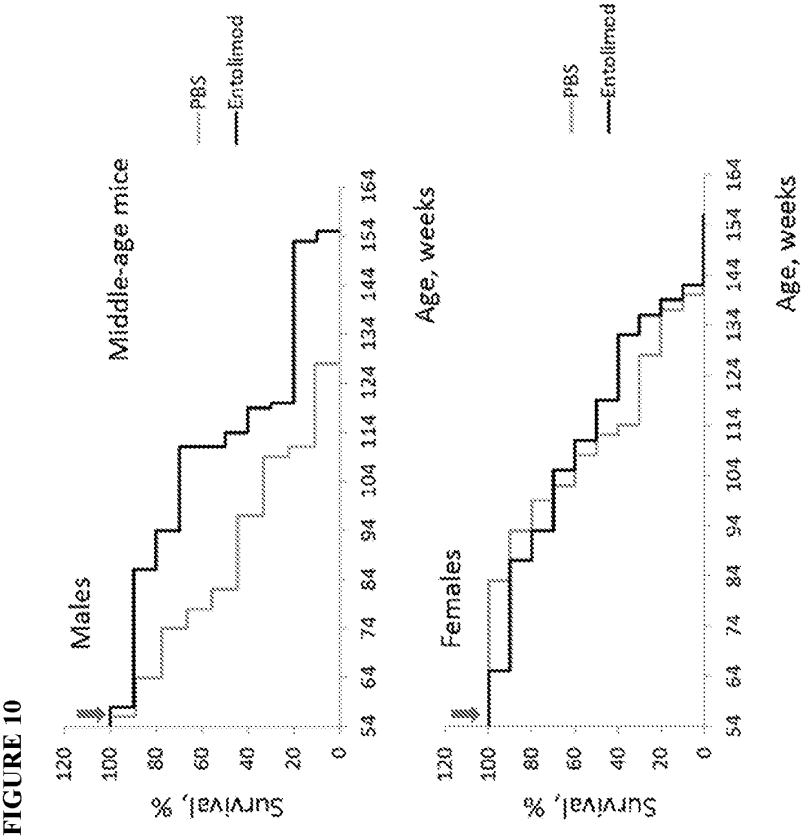
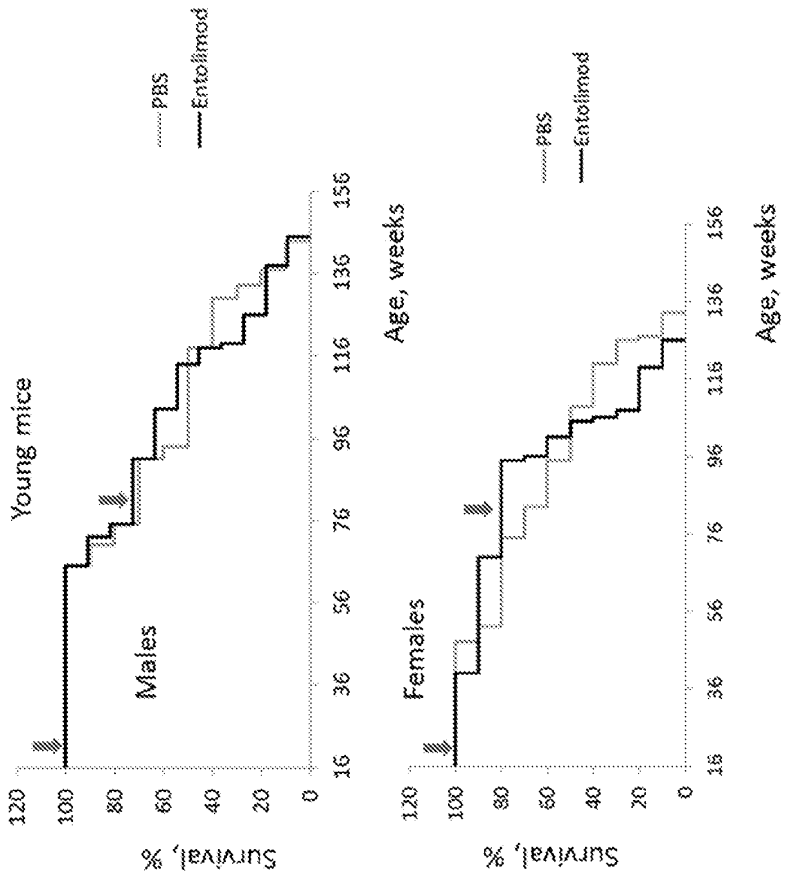

Middle-age mice
Males
PBS
Entolimod
Survival, %
120
100
80
60
40
20
0
54 64 74 84 94 104 114 124 134 144 154 164
Age, weeks
Females
PBS
Entolimod
Survival, %
120
100
80
60
40
20
0
54 64 74 84 94 104 114 124 134 144 154 164
Age, weeks

FIGURE 11


Young mice
Males
Females
PBS
Entolimod
Survival, %
Age, weeks
0
20
40
60
80
100
120
16
36
56
76
96
116
136
156

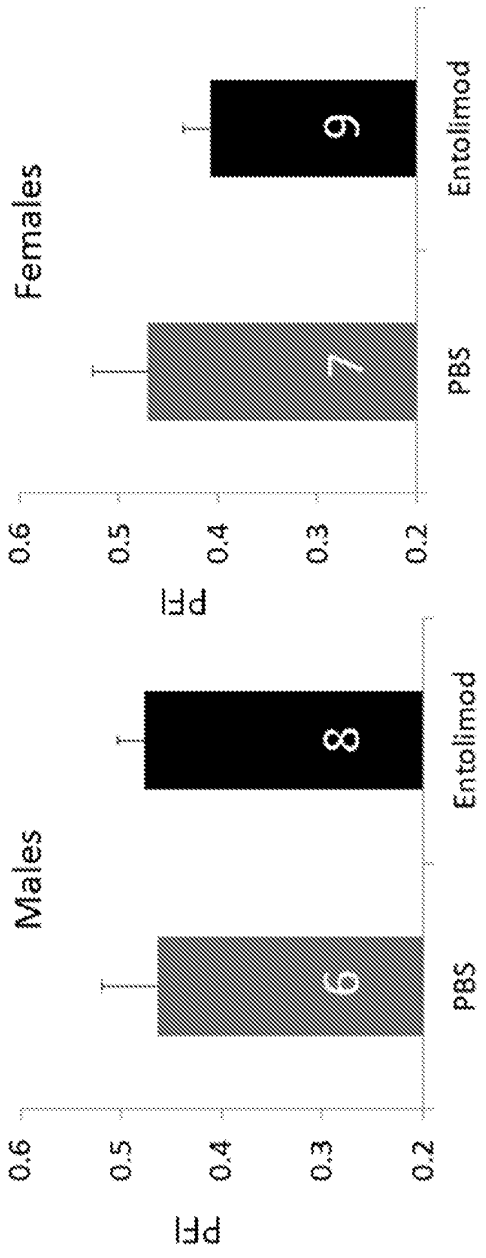

Females
Males
PBS
Entolimod
PBS
Entolimod
7
9
6
8
0.6
0.5
0.4
0.3
0.2
PE

FIGURE 12

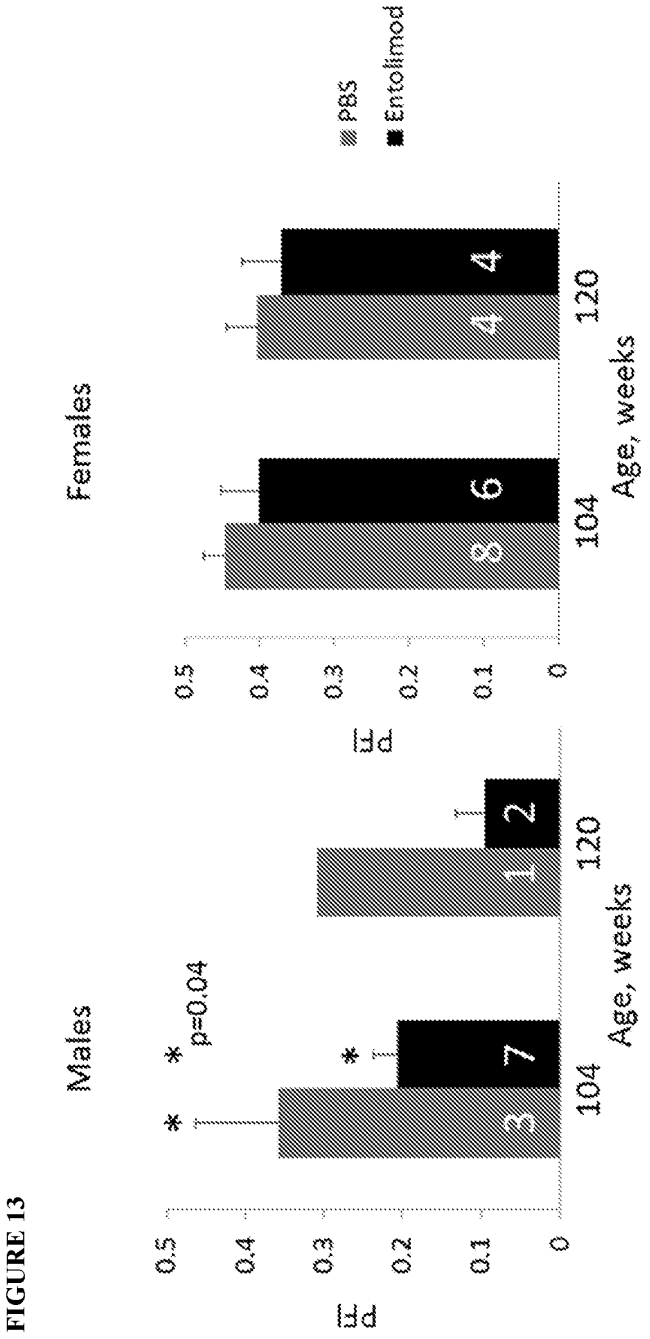

Males
Females
PBS
Entolimod
PFI
0.5
0.4
0.3
0.2
0.1
0
*
*
p=0,04
3
7
1
2
8
6
4
4
104
120
Age, weeks

FIGURE 13

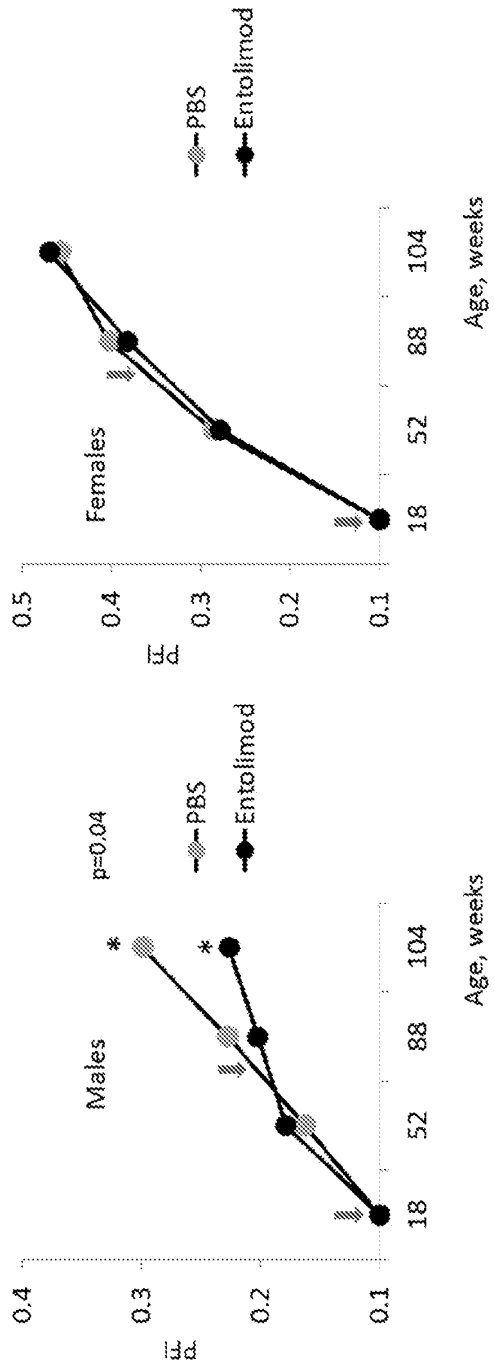

Females
PBS
Entolimod
PFI
0.5
0.4
0.3
0.2
0.1
18
52
88
104
Age, weeks
Males
p=0.04
*
*
PBS
Entolimod
PFI
0.4
0.3
0.2
0.1
18
52
88
104
Age, weeks

FIGURE 14