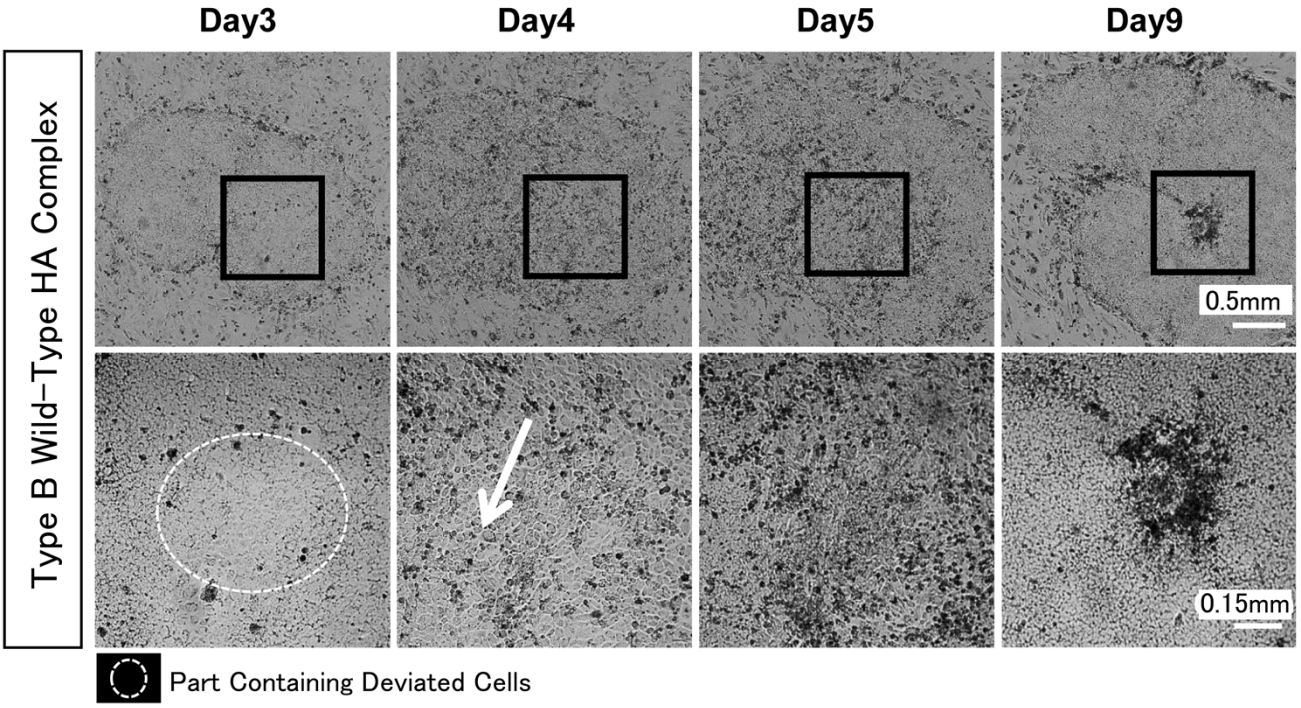

Day3
Day4
Day5
Day9
Type B Wild-Type HA Complex
0.5mm
0.15mm
Part Containing Deviated Cells

FIG. 1

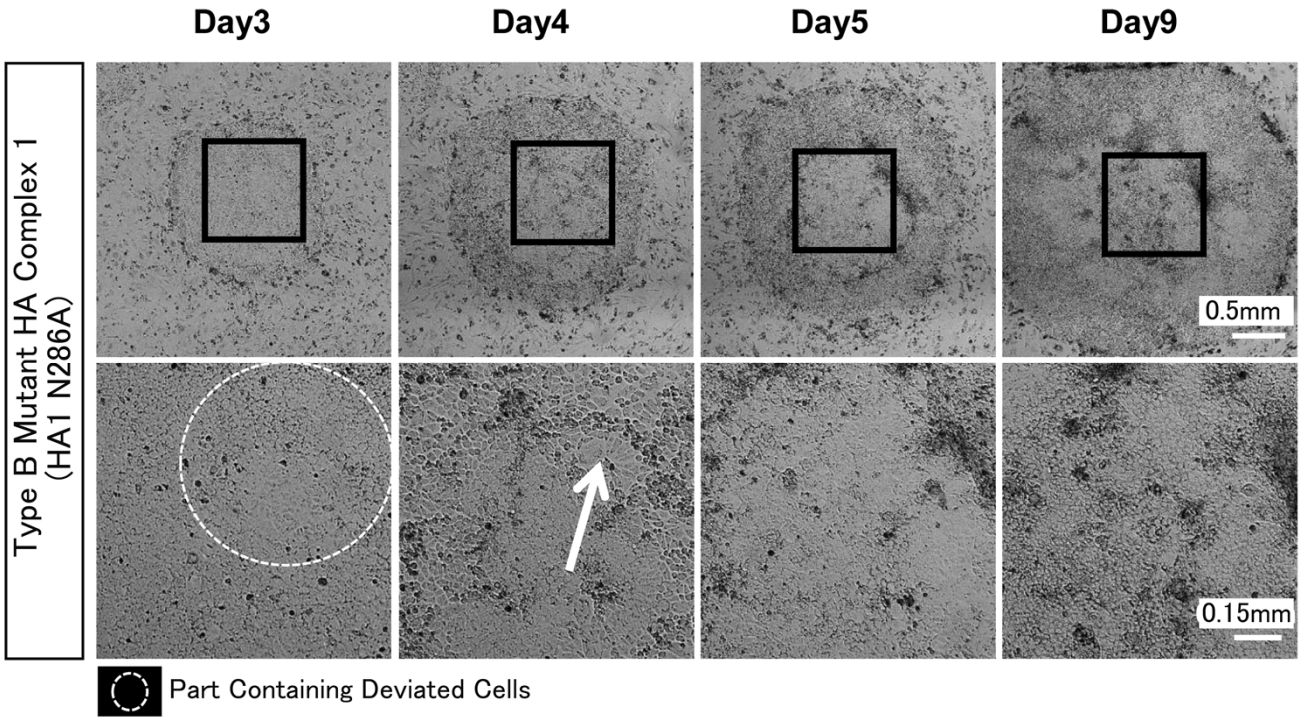

Day3
Day4
Day5
Day9
Type B Mutant HA Complex 1
(HA1 N286A)
0.5mm
0.15mm
Part Containing Deviated Cells

FIG. 2

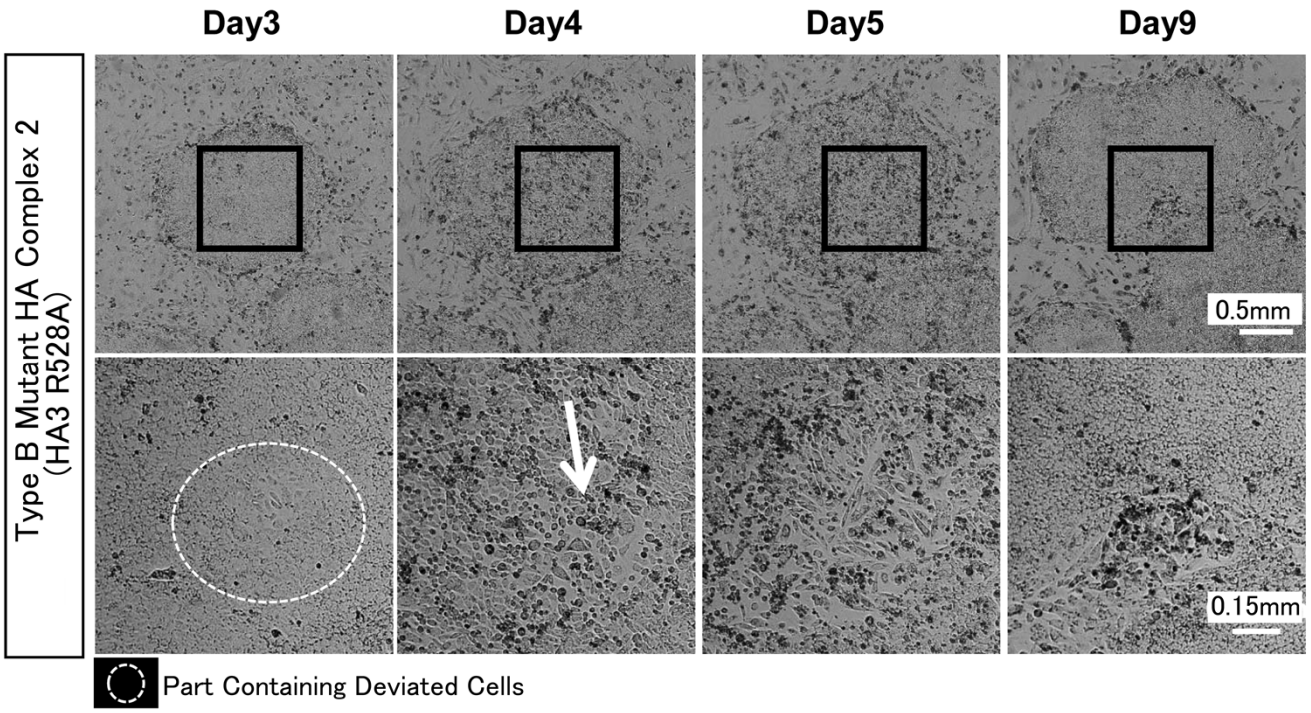

Day3
Day4
Day5
Day9
Type B Mutant HA Complex 2
(HA3 R528A)
0.5mm
0.15mm
Part Containing Deviated Cells

FIG. 3

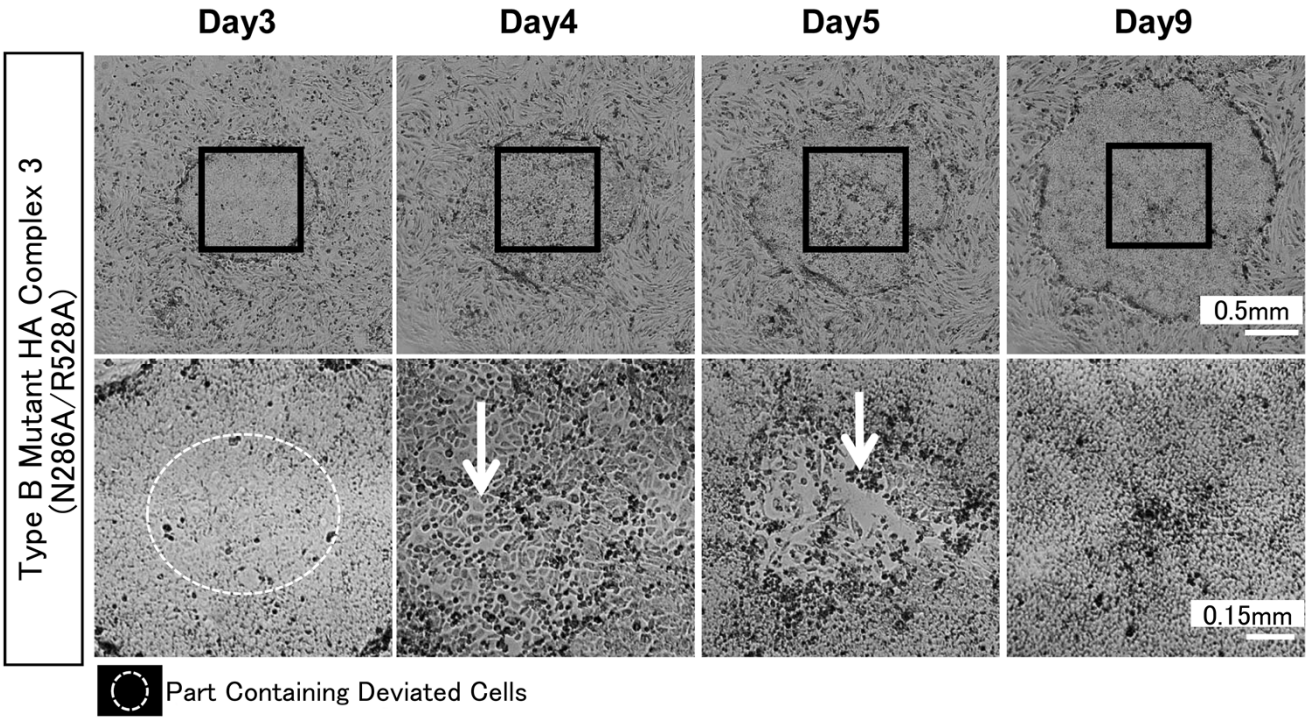

Day3
Day4
Day5
Day9
Type B Mutant HA Complex 3
(N286A/R528A)
0.5mm
0.15mm
Part Containing Deviated Cells

FIG. 4

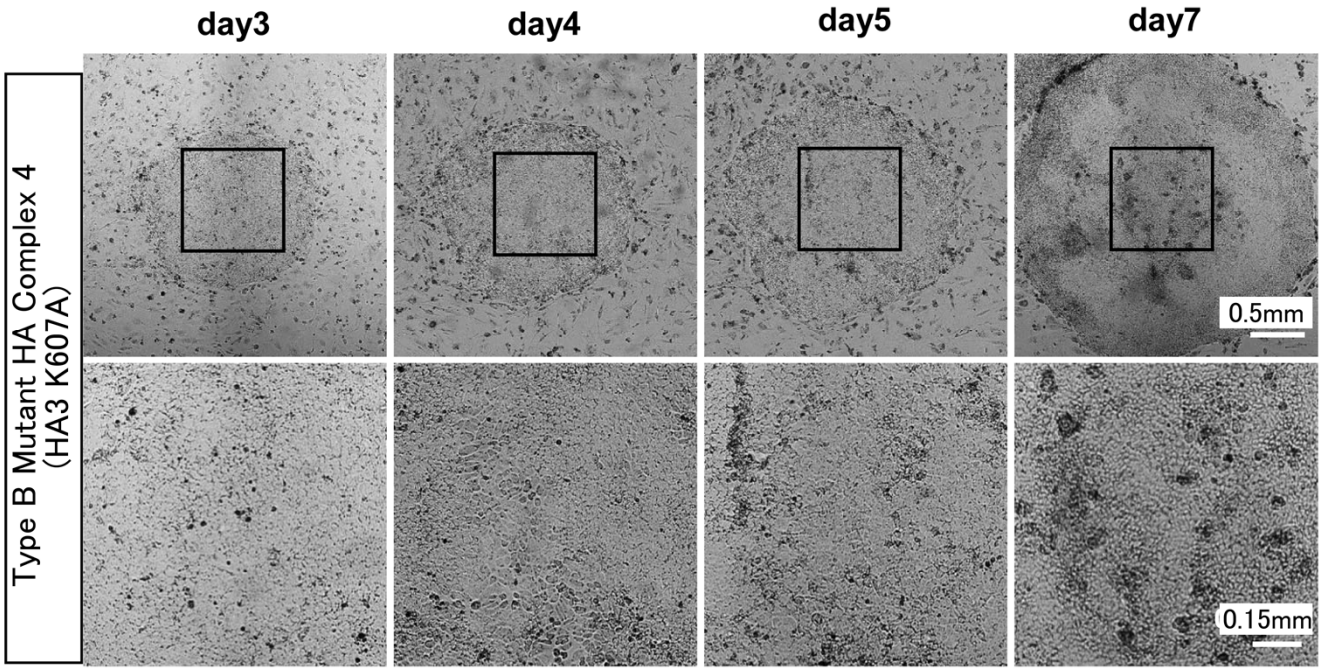

day3
day4
day5
day7
Type B Mutant HA Complex 4
(HA3 K607A)
0.5mm
0.15mm

FIG. 5

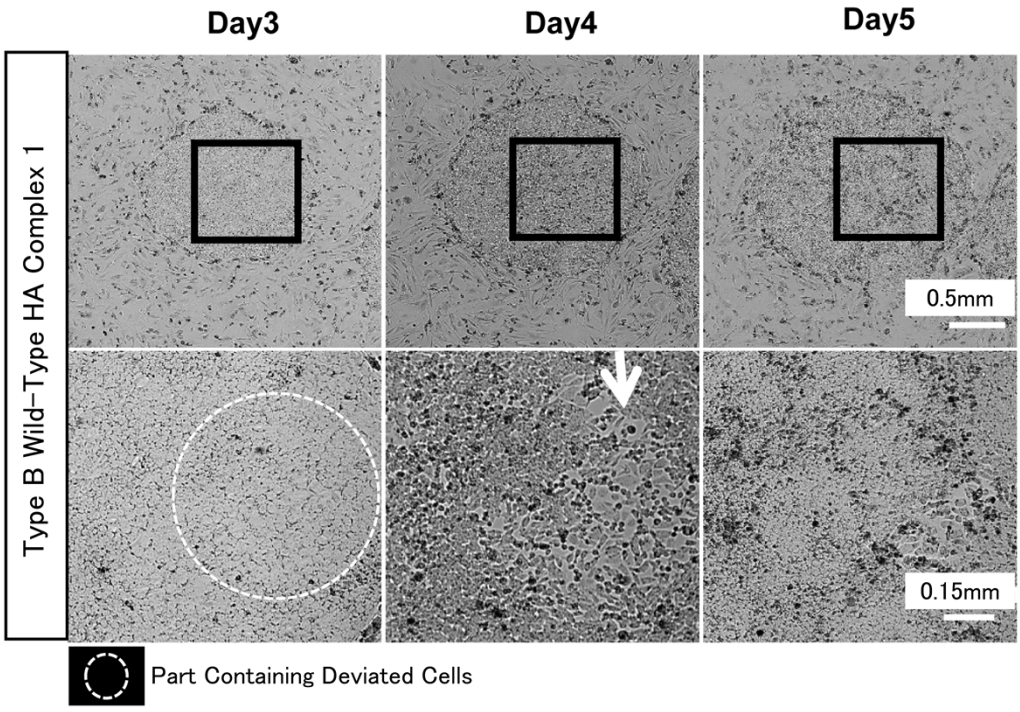

Day3
Day4
Day5
Type B Wild-Type HA Complex 1
0.5mm
0.15mm
Part Containing Deviated Cells

FIG. 6

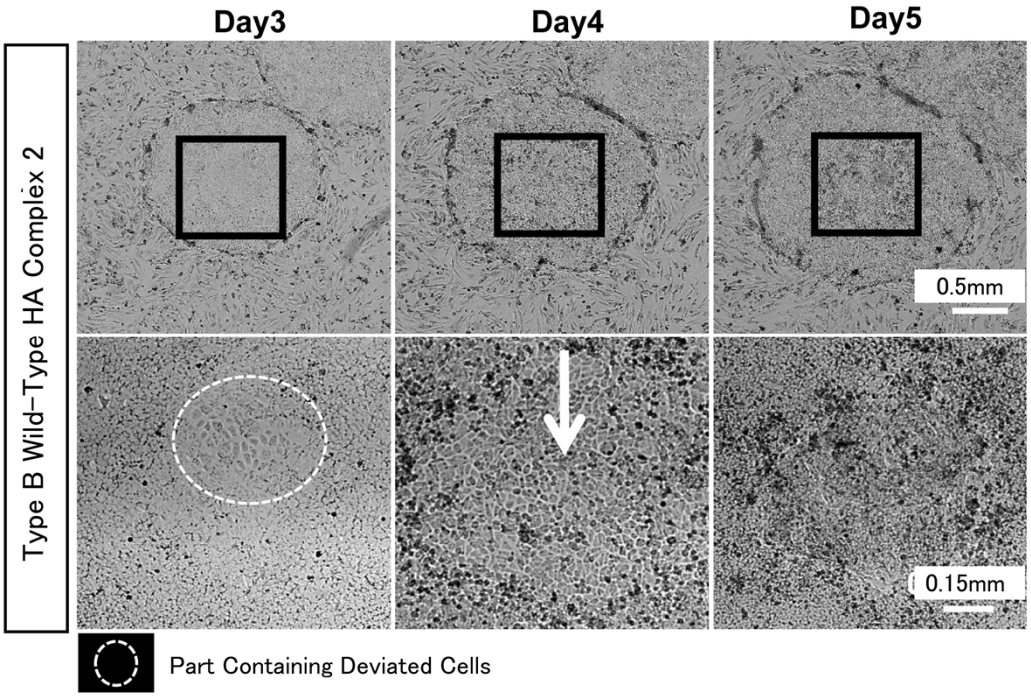

Day3
Day4
Day5
Type B Wild-Type HA Complex 2
0.5mm
0.15mm
Part Containing Deviated Cells

FIG. 7

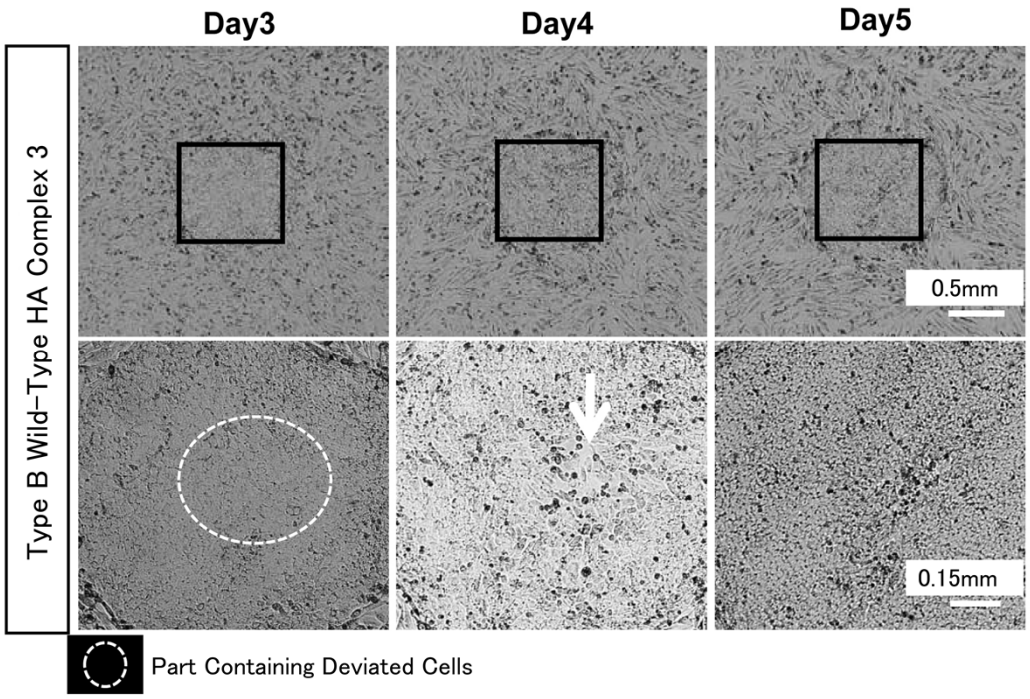

Day3
Day4
Day5
Type B Wild-Type HA Complex 3
0.5mm
0.15mm
Part Containing Deviated Cells

FIG. 8

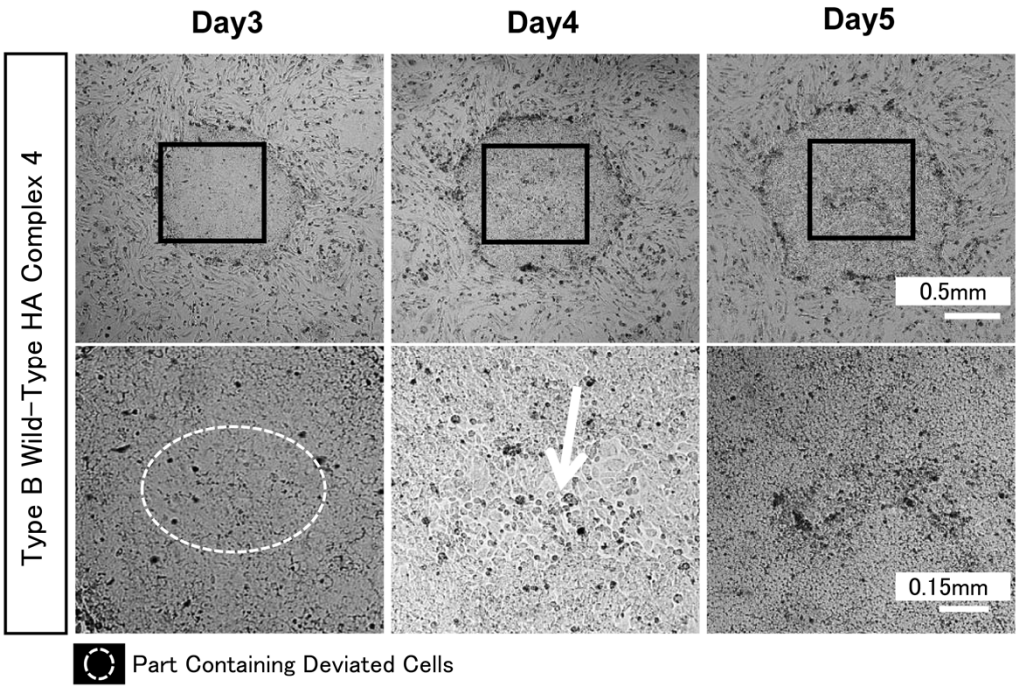

Day3
Day4
Day5
Type B Wild-Type HA Complex 4
0.5mm
0.15mm
Part Containing Deviated Cells

FIG. 9

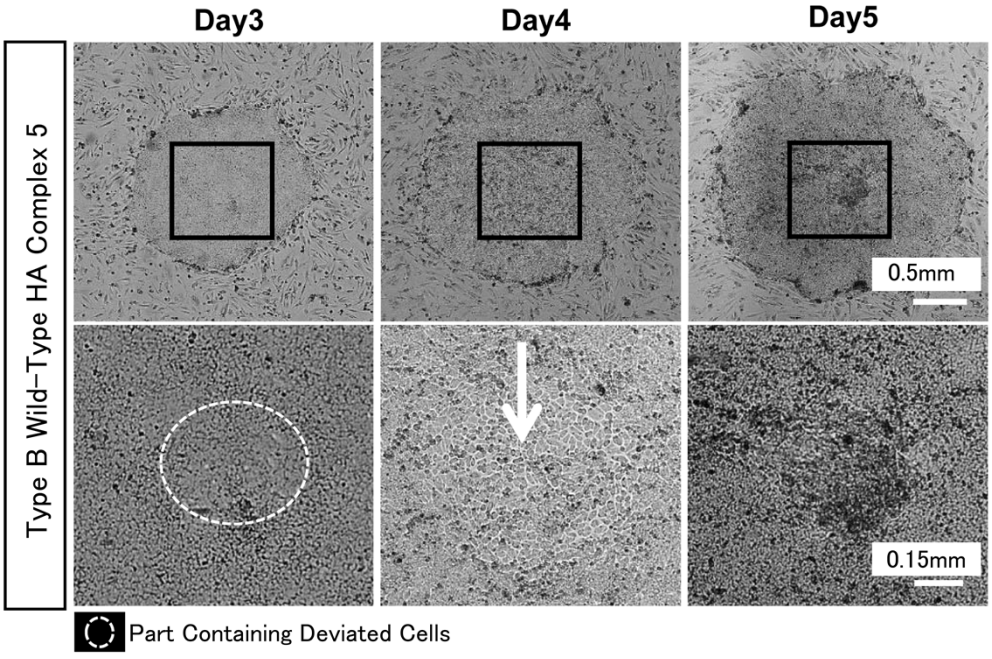

Day3
Day4
Day5
Type B Wild-Type HA Complex 5
0.5mm
0.15mm
Part Containing Deviated Cells

FIG. 10

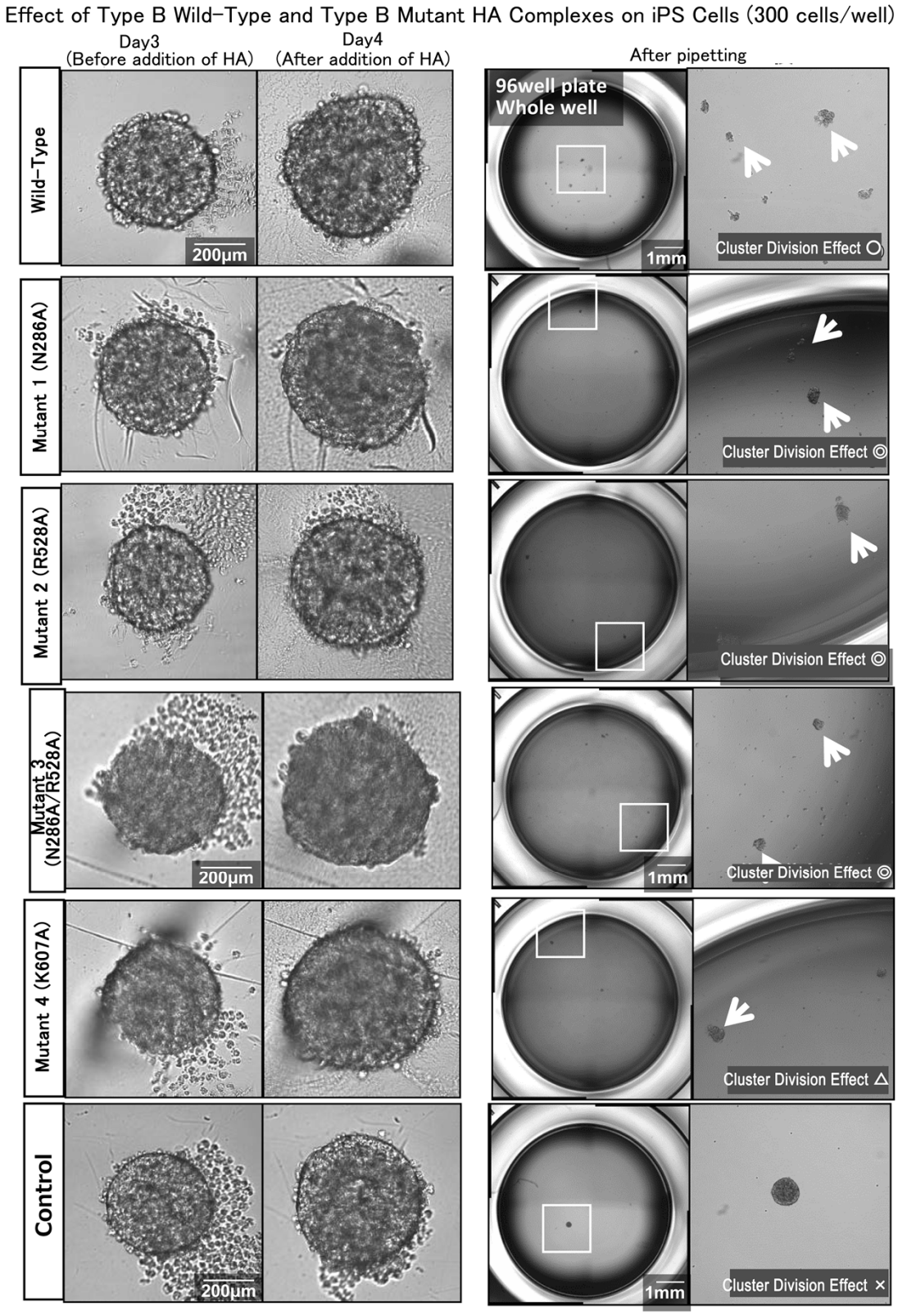

Effect of Type B Wild-Type and Type B Mutant HA Complexes on iPS Cells (300 cells/well)
Day3
(Before addition of HA)
Day4
(After addition of HA)
After pipetting
Wild-Type
Mutant 1 (N286A)
Mutant 2 (R528A)
Mutant 3
(N286A/R528A)
Mutant 4 (K607A)
Control
96well plate
Whole well
200μm
1mm
Cluster Division Effect ○
Cluster Division Effect ◎
Cluster Division Effect ◎
Cluster Division Effect ◎
Cluster Division Effect △
Cluster Division Effect ×

FIG. 11

Effect of Type B Wild-Type and Type B Mutant HA Complexes on iPS Cells (300 cells/well)

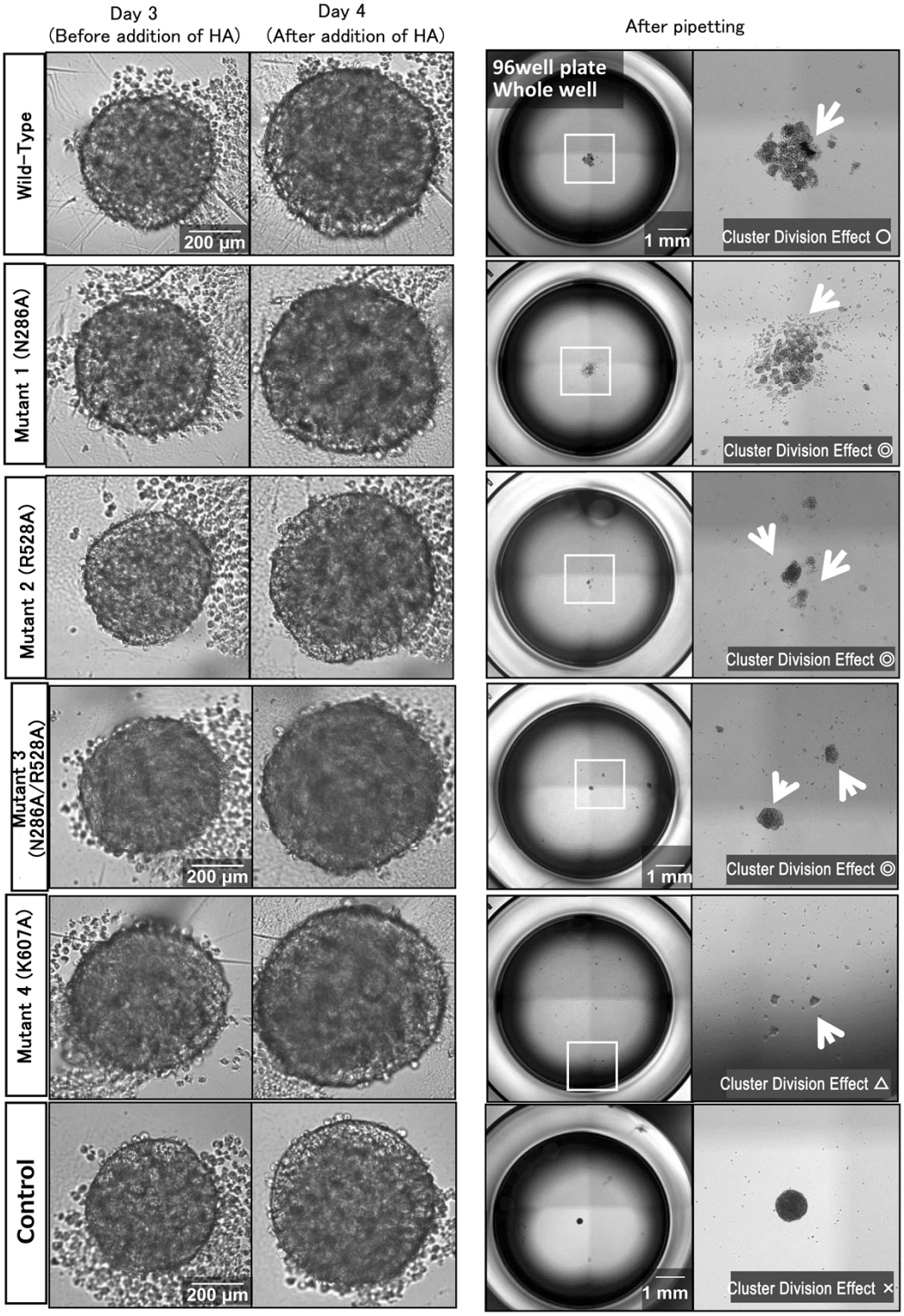


FIG. 12

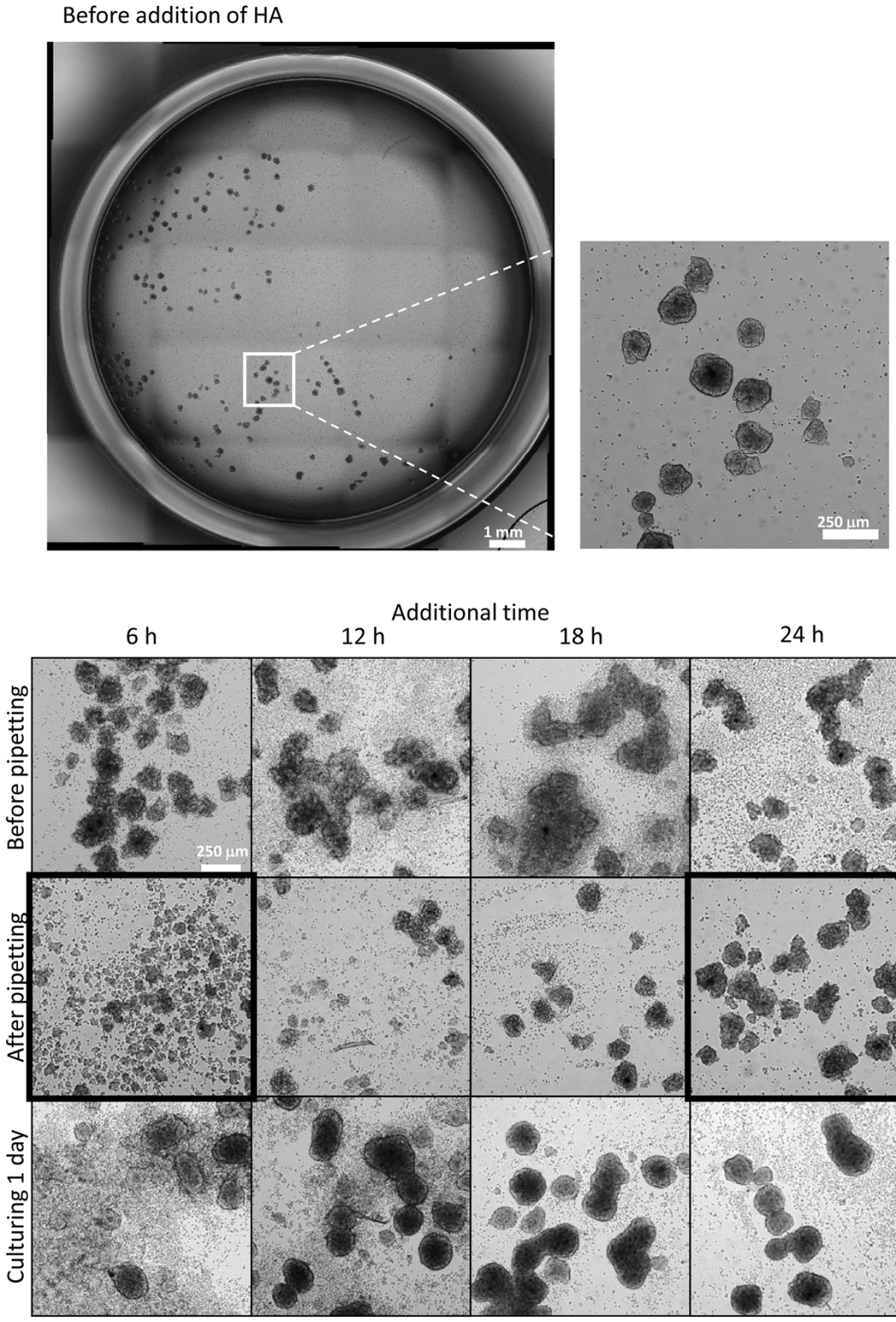

Before addition of HA
1 mm
250 μm
Additional time
6 h
12 h
18 h
24 h
Before pipetting
After pipetting
Culturing 1 day
250 μm
HA concentration:40nM

FIG. 13

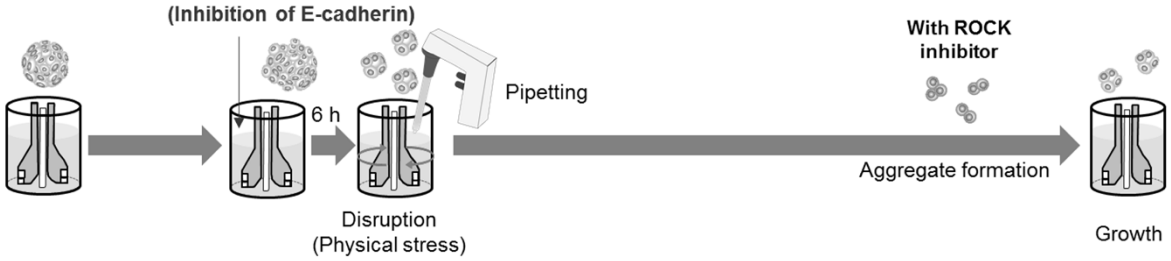


FIG. 14

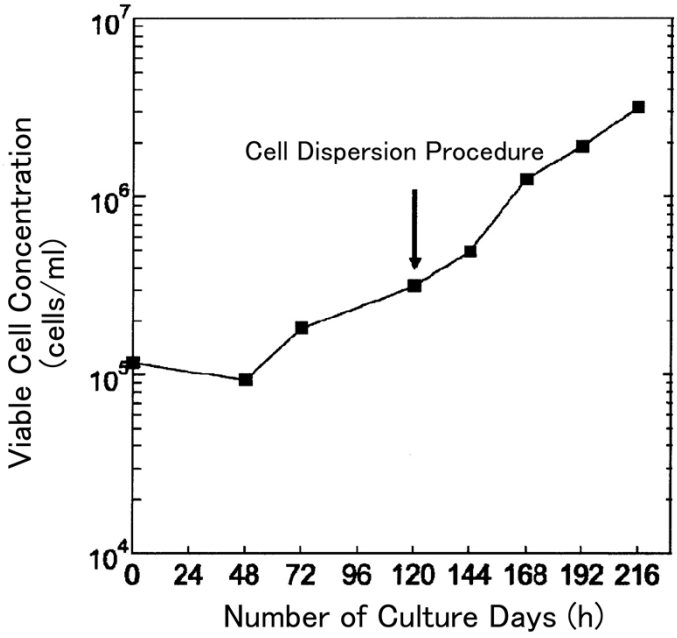


FIG. 15

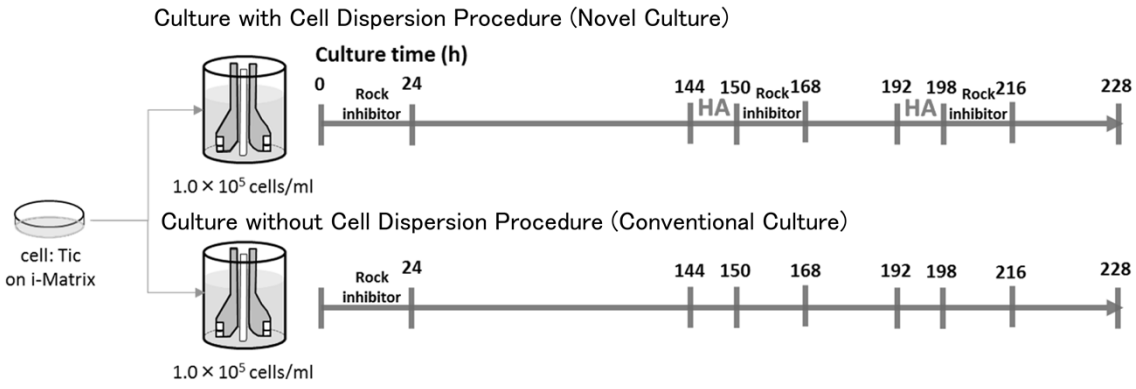


FIG. 16

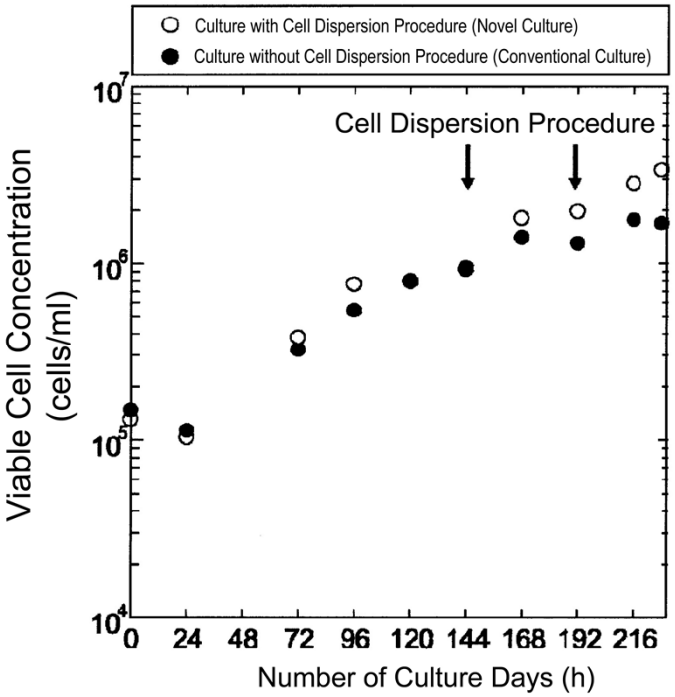

Culture with Cell Dispersion Procedure (Novel Culture)
Culture without Cell Dispersion Procedure (Conventional Culture)
Cell Dispersion Procedure
Viable Cell Concentration (cells/ml)
10^7
10^6
10^5
10^4
0 24 48 72 96 120 144 168 192 216
Number of Culture Days (h)

FIG. 17

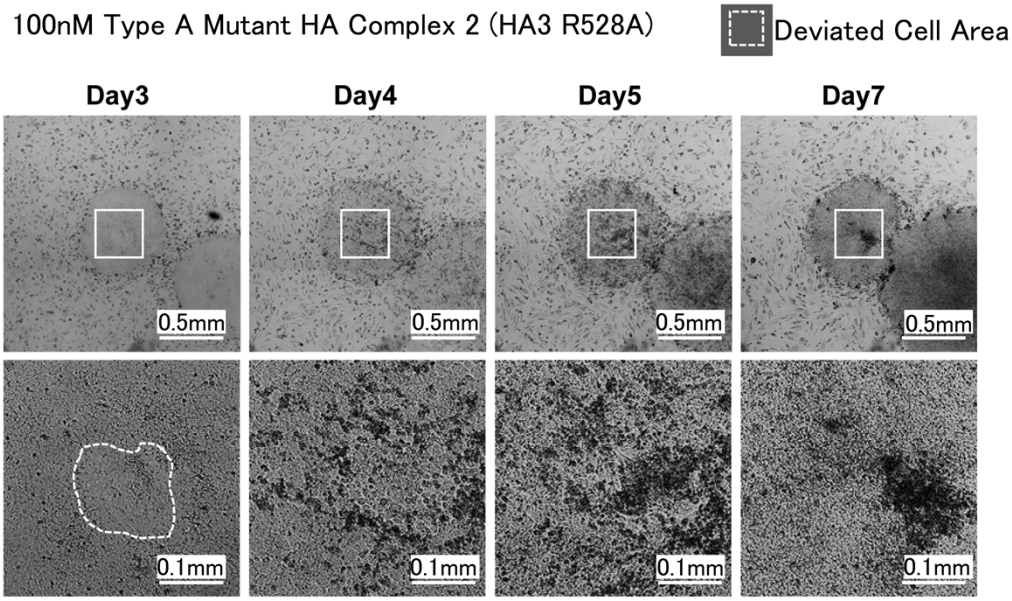

100nM Type A Mutant HA Complex 2 (HA3 R528A)
Deviated Cell Area
Day3
Day4
Day5
Day7
0.5mm
0.1mm

FIG. 18

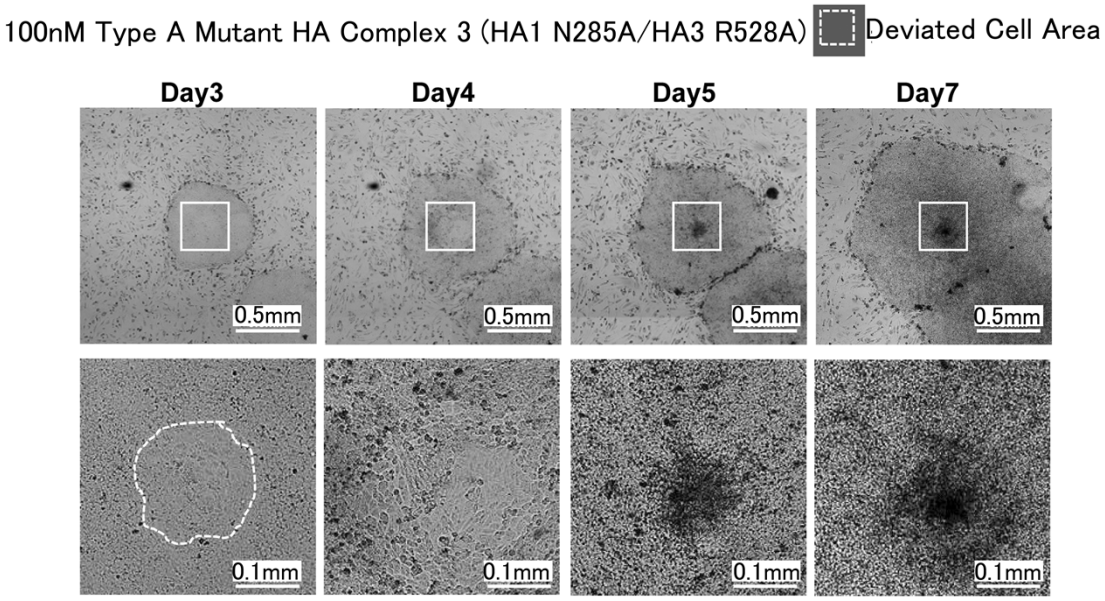

100nM Type A Mutant HA Complex 3 (HA1 N285A/HA3 R528A)
Deviated Cell Area
Day3
Day4
Day5
Day7
0.5mm
0.1mm

FIG. 19

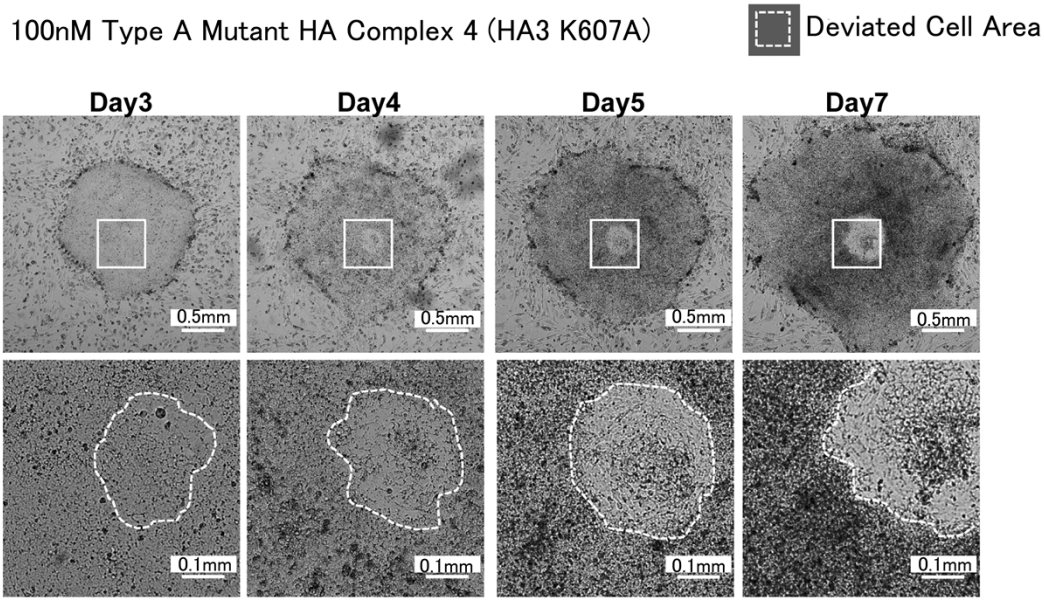

100nM Type A Mutant HA Complex 4 (HA3 K607A)
Deviated Cell Area
Day3
Day4
Day5
Day7
0.5mm
0.1mm

FIG. 20

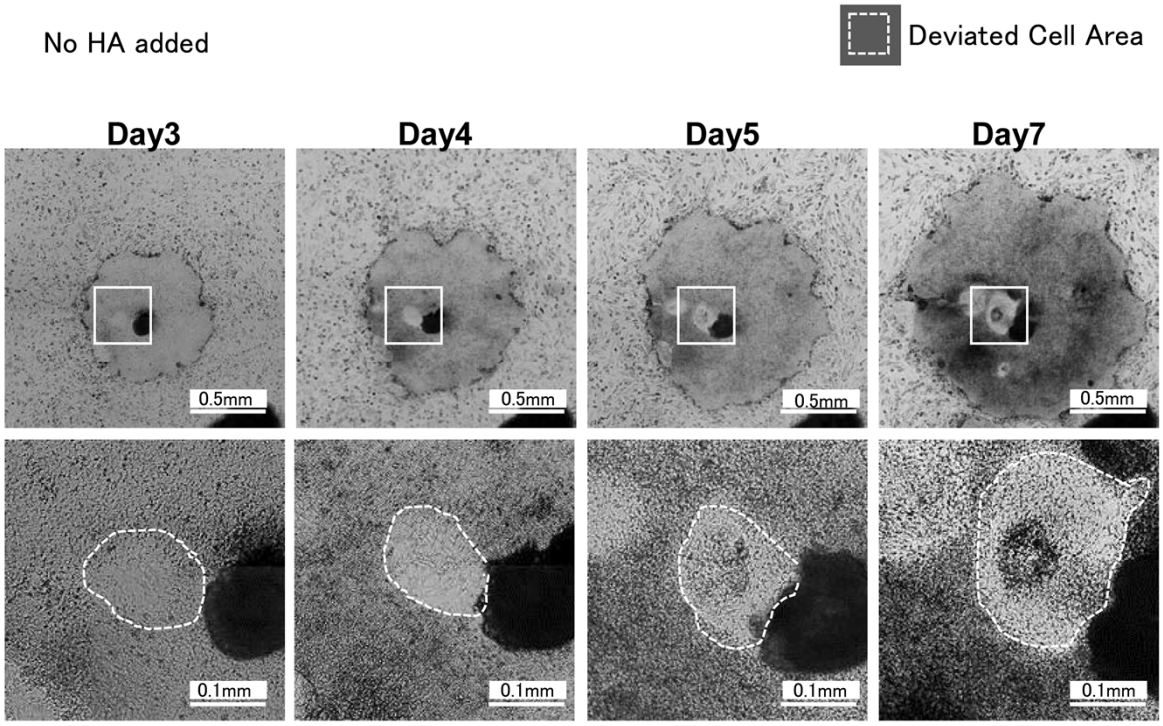

No HA added
Deviated Cell Area
Day3
Day4
Day5
Day7
0.5mm
0.5mm
0.5mm
0.5mm
0.1mm
0.1mm
0.1mm
0.1mm

FIG. 21