

Data from computer simulation of neutral drift among limbal epithelial stem cells of mosaic mice

Abbreviations:

gen	stem cell generations
Gp3	Clumped distribution with groups of 3 stem cells
loss	stem cell loss
pc	percent
R	random distribution of stem cells
rep	stem cell replacement
set	set of 20 simulations
sim	simulation

Examples of nomenclature used to describe simulation parameters:

'1_R120-50B-10rep_01' = set number 1, random array of 120 cells; 50% blue; 10% stem cell replacement; array number 01 (in set 1)

'154_Gp3-360_80B_1_loss_500gen_20' = set number 154, groups of 3 in array of 360 cells; 80% blue; 1% stem cell loss; simulation run for 500 stem cell generations; array number 20 (in set 154)

Note: In some places, 'percent' is abbreviated to 'pc'. For brevity, in the above examples, no symbol for % is used.

File structure:

CloneSim Data_Part 1_Sets 1-12

- Individual sims_sets 1-6_50pc blue
 - 1_R120-50B-10pc rep
 - 1_R120-50B-10rep_01_data.csv
 - etc to 20_data.csv
 - 1_R120-50B-10rep_images
 - 1_R120-50B-10rep_01_image.png
 - etc to ... 20_image.png
 - 1_R120-50B-10rep_set up.tiff
 - 2_R120-50B-5pc loss
 - etc to 6_
- Individual sims_sets 7-12_80pc blue
 - etc
- [Summary Data_sets.xls 1-6.xls](#)
- [Summary Data_sets.xls 7-12.xls](#)

CloneSim Data_Part 2_Sets 13-36

- Individual sims_sets 13-24_50pc blue
 - 13_R_120_50B_10rep_500gen_01
 - 13_R_120_50B_10rep_500gen_01_data.csv
 - etc to 20_data.csv
 - 13_R_120_50B_10rep_500gen_images
 - 13_R_120_50B_10rep_500gen_01_image.png
 - etc to ... 20_image.png
 - 13_R_120_50B_10rep_500gen_Set up.tiff
 - 14_Gp2_240_50B_10rep_500gen
 - etc to 24_
- Individual sims_sets 25-36_80pc blue
 - etc
- [Summary Data_sets.xls 13-24.xls](#)
- [Summary Data_sets.xls 25-36.xls](#)

CloneSim Data_Part 3_Sets 37-63

- Individual sims_sets 37-39_10pc blue
 - 37_Gp3_360-10B-10rep
 - 37_Gp3_360_10B_10rep_500gen_01_data.csv
 - etc to 20_data.csv
 - Gp3_360_10B_10rep_images
 - 37_Gp3_360_10B_10rep_500gen_01_image.png
 - etc to ... 20_image.png
 - 37_Gp3_360_10B_10rep_500gen_Set up.tiff
 - 38_Gp3_360-10B_5rep+2.5loss
 - 39_Gp3_360-10B_5loss
- Individual sims_sets 40-42_20pc blue
 - etc
- Individual sims_sets 43-42_30pc blue
 - etc
- Individual sims_sets 46-45_40pc blue
 - etc
- Individual sims_sets 49-51_50pc blue
 - etc
- Individual sims_sets 52-54_60pc blue
 - etc
- Individual sims_sets 55-57_70pc blue
 - etc
- Individual sims_sets 58-60_80pc blue
 - etc
- Individual sims_sets 61-63_90pc blue
 - etc
- [Summary Data_sets 37-63.xlsx](#)

CloneSim Data_Part 4_Sets 64-75

- Individual sims_sets 64-69_R
 - 64_Gp4_120_50B_0.1pc loss
 - 64_R_120_50B_0.1 loss_500gen_01_data.csv
 - etc to 20_data.csv
 - 64_R_120_50B_0.1 loss_images
 - 64_R_120_50B_0.1 loss_500gen_01_image.png
 - etc to ... 20_image.png
 - 64_R_120_50B_0.1 loss_500gen_Set up.tiff
 - 65_Gp4_120-50B-0.5pc loss
 - etc to 69_
- Individual sims_sets 70-75_Gp3
 - etc
- [Summary Data_sets 64-69.xls](#)
- [Summary Data_sets 70-75.xls](#)

CloneSim Data_Part 5_Sets 76-95

- Individual sims_sets 76-85_R
 - 76_R-120_50B_1pc rep
 - 76_R_120_50B_1 rep_500gen_01_data.csv
 - etc to ... 20_data.csv
 - 76_R-120_50B_1 rep_images
 - 76_R_120_50B_1 rep_500gen_01_image.png
 - etc to ... 20_image.png
 - 76_R_120_50B_1 rep_500gen_Set up.tiff
 - 77_R-120_50B_5pc rep
 - etc to 85_
- Individual sims_sets 86-95_Gp3
 - etc
- [Summary Data_sets 76-85.xls](#)
- [Summary Data_sets 86-95.xls](#)

CloneSim Data_Part 6_Sets 96-122

- Individual sims_sets 96-104_5pc loss
 - 96_R-120_50B_5pc loss
 - 96_R-120_50B_5 loss_500gen_01_data.csv
 - etc to ... 20_data.csv
 - 96_R-120_50B_5 loss_images
 - 96_R-120_50B_5 loss_500gen_01_image.png
 - etc to ... 20_image.png
 - 96_R-120_50B_5 loss_500gen_Set up.tiff
 - 97_R-240_50B_5pc loss
 - etc to 104_
- Individual sims_sets 105-113_10pc rep
 - etc
- Individual sims_sets 114-122_90pc rep
 - etc
- [Summary Data_sets 96-104.xls](#)
- [Summary Data_sets 105-113.xls](#)
- [Summary Data_sets 114-122.xls](#)

CloneSim Data_Part 7_Sets 123-138

- Individual sims_sets 123-130_R
 - 123_R-360_50B_50rep_1000gen
 - 123_R-360_50B_50rep_1000gen_01_data.csv
 - etc to ... 20_data.csv
 - 123_R-360_50B_50rep_images
 - 123_R-360_50B_50rep_1000gen_01_image.png
 - etc to ... 20_image.png
 - 123_R-360_50B_50rep_1000gen_Set up.tiff
 - 124_R-120_50B_50rep_1000gen
 - etc to 130_
- Individual sims_sets 131-138_Gp3
 - etc
- [Summary Data_sets 123-130.xls](#)
- [Summary Data_sets 131-138.xls](#)

CloneSim Data_Part 8_Sets 139-142

- Individual sims_sets 139-142
 - 139_R-6_50B_10pc rep_1000gen
 - 139_R-6_50B_10rep_1000gen_01_data.csv
 - etc to ... 20_data.csv
 - 139_R-6_50B_10rep_images
 - 139_R-6_50B_10rep_1000gen_01_image.png
 - etc to ... 20_image.png
 - 139_R-6_50B_10rep_1000gen_Set up.png
 - 140_R-120_50B_10pc rep_1000gen
 - etc to 142_
- [Summary Data_sets 139-142.xls](#)

CloneSim Data_Part 9_Sets 143-154

- Individual sims_sets 143-148_50pc blue
 - 143_R_120_50B_1pc rep_500gen
 - 143_R-120_50B_1rep_500gen_01_data.csv
 - etc to ... 20_data.csv
 - 143_R-120_50B_1rep_500gen_images
 - 143_R-120_50B_1rep_500gen_01_image.png
 - etc to ... 20_image.png
 - 143_R-120_50B_1rep_500gen_Set up.png
 - 144_R_120_50B_0.5pc loss_500gen
 - etc to 148_
- Individual sims_sets 149-154_80pc blue
 - etc
- [Summary Data_sets 143-148.xls](#)
- [Summary Data_sets 149-154.xls](#)