Wednesday, November 18, 2020

1:29 PN

to other

Class Capsule Baeterium

Parameters we can change:

L-max: maximum ceu length

L_th: cell division threshold length

K_int: internal spring constant

K_wall: Spring constant of cell-wall contact (overlap)

K_ lell: Spring constant of cell-cell contact (overlap)

(clusest ends)
K_filial: Spring constant of end-tv-end attraction of cells

(firthest ends)

K_longfilial: Spring constant of end-to-end repulsion of cells

K_Sticking: Spring constant of side-to-side attraction of alls

K_ wall stick: Spring constant of cent-to-wall attraction

range - filial: maximum distance the filial/long filial force acts

range_ sticking: maximum distance the sticking force acts

range_wall stick: neximum distance the wall strong force acts

extends

Class Chen Backrium / Backrium

Useful functions:

Set K-growth (double K-growth)

La allows you to set growth rates of individual ceus

Set Elongation Threshold (double len)

La cultous you to set erongation threshold of individual cells

There are no parameters we can change in this file.

class Neighbour Interactions

Parameters we can change:

simbinensions: the x,y,2 dimensions of the simulation environment (µm)

growth_stdv: Standard deviation of the growth rate

growth_mean: average growth rate

length_Stdv: Standard deviation of the elongation threshold

length mean : average elongation threshold (MM)

Sim. Set Simulation Time (#): Simulation length in seconds

image Exporter. Set Dt(#): how often it outputs a frame