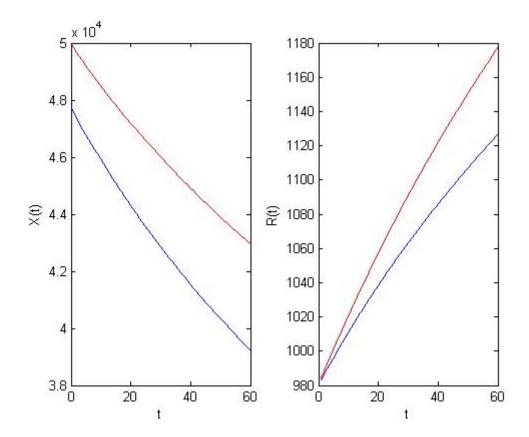
Legend: red graph (original values), blue graph (changed values)

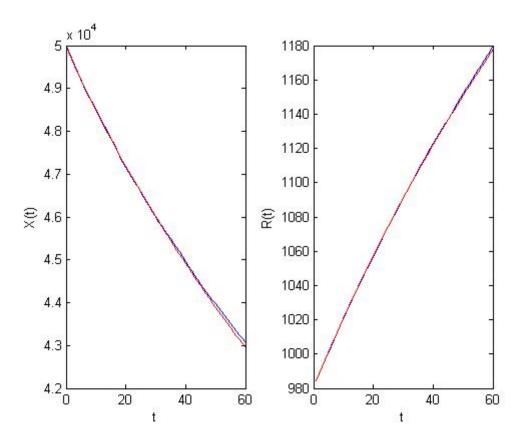
1. Case - Large CZ (50% of the total epithelium area), smaller PGZ (23%) and GZ (18%)

$$\eta_1=0.5$$
 , $\eta_2=0.23$, $\eta_3=0.18$, $\eta_4=0.09$
$$N_1=18857$$
 , $N_2=10676$, $N_3=9874$, $N_4=8355$



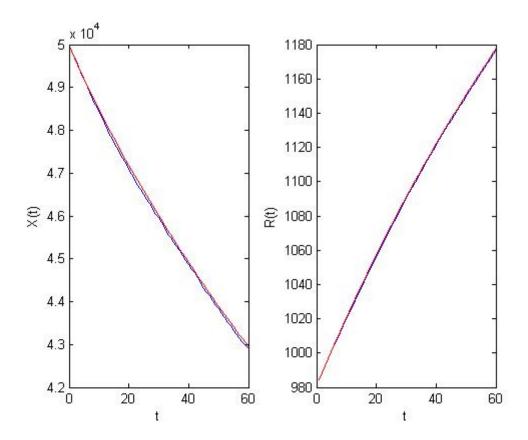
2. Case – very large GZ birth rate and death rate; difference "birth - death" unchanged

$$p_0^{(3)} = 0.14$$
, $p_1^{(3)} = 0.66$, $p_2^{(3)} = 0.20$



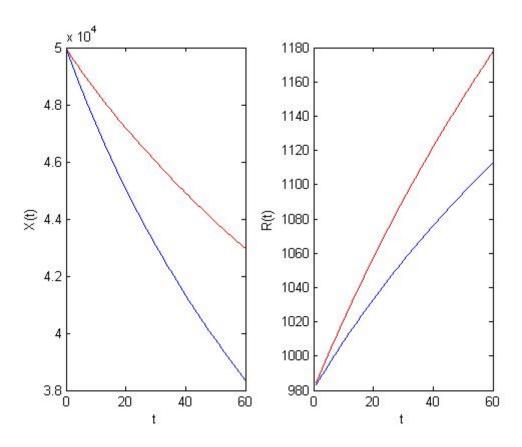
3. Case – very large PGZ birth rate and death rate; difference "birth - death" unchanged

$$p_0^{(2)} = 0.18$$
, $p_1^{(2)} = 0.62$, $p_2^{(2)} = 0.20$



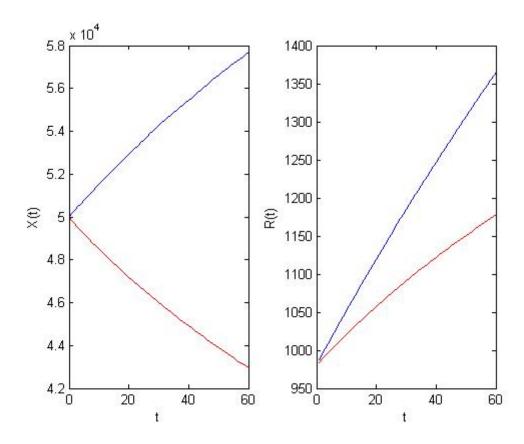
4. Case – smaller hexagons for fiber cells

$$ho=8$$
 , $w=1.6$



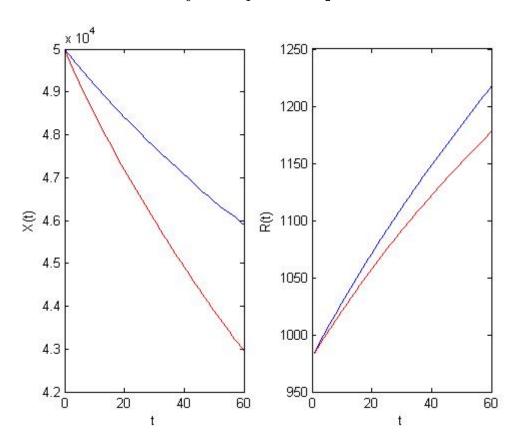
5. Case – larger hexagons for fiber cells

$$ho=15$$
 , $w=3$



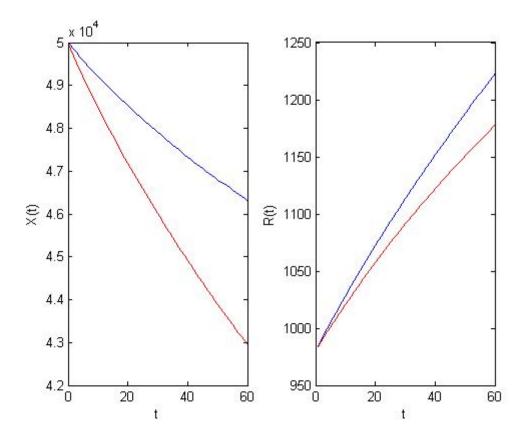
6. Case – larger birth rate in GZ

$$p_0^{(3)} = 0$$
 , $p_1^{(3)} = 0.92$, $p_2^{(3)} = 0.08$

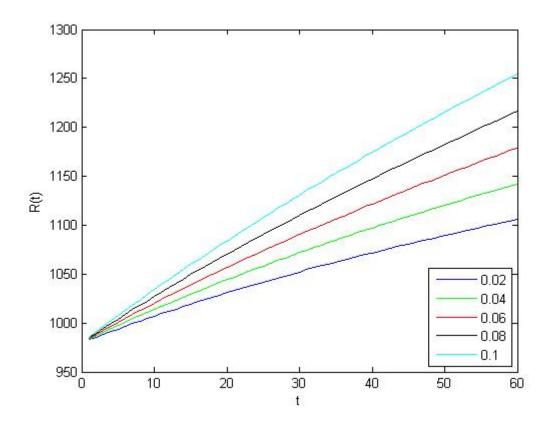


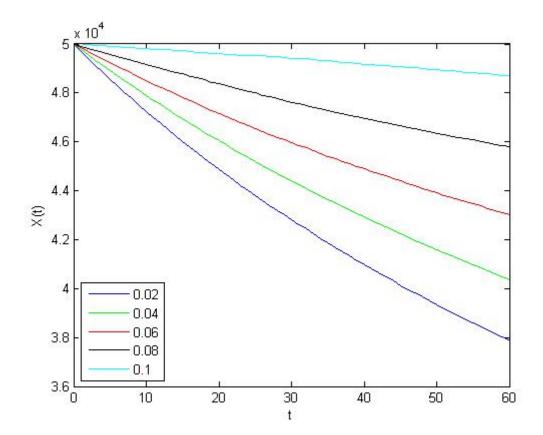
7. Case – larger birth rate in PGZ

$$p_0^{(2)} = 0$$
 , $p_1^{(2)} = 0.96$, $p_2^{(2)} = 0.04$

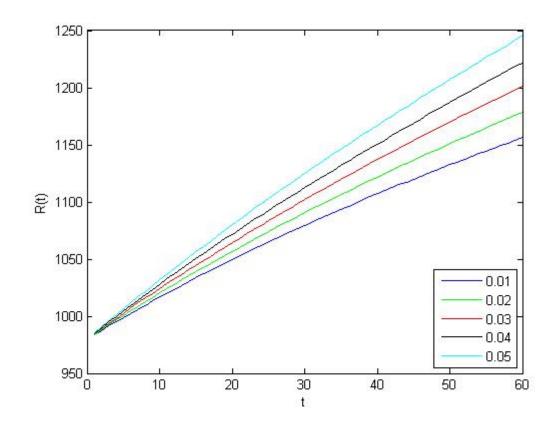


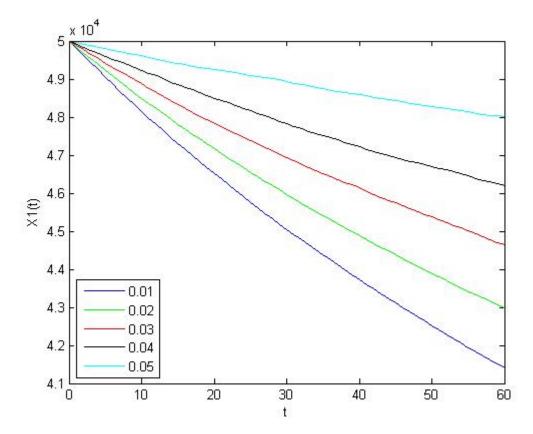
8. Case – dependence of the radius and total number of cells to the change of GZ birth rate range $p_2^{(3)} \in \{0.02$, 0.04, 0.06, 0.08, $0.10\}$





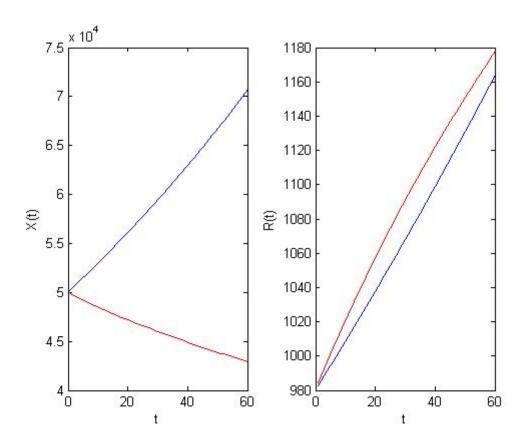
9. Case — dependence of the radius and total number of cells to the change of PGZ birth rate range $p_2^{(2)} \in \{0.01$, 0.02, 0.03, 0.04, $0.05\}$





10. Case – The surface area of individual cells in the epithelium does not grow

$$\alpha_i = 0$$
 , $i = 1,2,3,4$



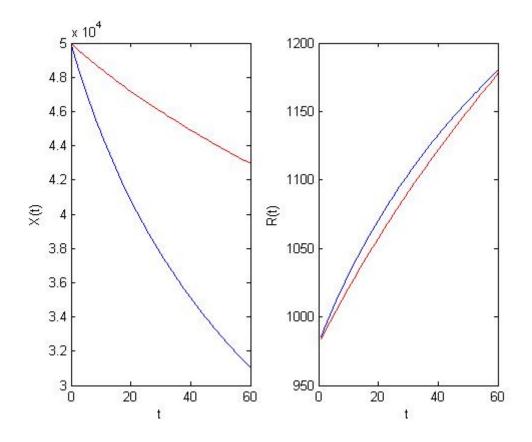
11. Case – the growth rate of individual cells in the epithelium is doubled

$$\alpha_1 = \frac{2}{200}$$

$$\alpha_2 = \frac{6}{400}$$

$$\alpha_3 = \frac{14}{800}$$

$$\alpha_1 = \frac{2}{200}$$
 $\alpha_2 = \frac{6}{400}$ $\alpha_3 = \frac{14}{800}$ $\alpha_4 = \frac{22}{2400}$



12. Case – the growth rate of (only) CZ cells is doubled

$$\alpha_1 = \frac{2}{200}$$

$$\alpha_2 = \frac{3}{400}$$

$$\alpha_3 = \frac{7}{800}$$

$$\alpha_1 = \frac{2}{200}$$
 $\alpha_2 = \frac{3}{400}$ $\alpha_3 = \frac{7}{800}$ $\alpha_4 = \frac{11}{2400}$

