

3-24-14

Mitosis

Prophase - DNA folded into chromosomes / envelope disappears

Meta Phase - Chromosomes line up in center

anaphase - Pulls one copy of each away to one half of the cell

TeloPhase - Cut the cell in half / envelope reforms

How do cells know when to start and stop?

- Don't really know

2 ways cell division is controlled

Contact inhibition

When cells are not in contact they divide

* Adds fibrinogen into wounds as a protective measure.

'Scars and Scar tissue

Cell Senescence

- Cells keep track of their divisions

- Timing their own death, and kill themselves when they are

done - reached the set # of divisions

* Telomeres: repeating caps at the end of DNA

Every time the cell divides the telomere gets shorter and shorter

* apoptosis - Cell suicide ..

Cancer: uncontrolled cell growth

Cancer cells are taking all nutrition from cells and tissues