

Bio

Cell Division

10-18-12

> Uncontrolled cell division = cancer

- Process \neq fully understood

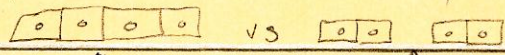
- 2 ways cell division is controlled:

◦ contact inhibition

◦ cell senescence

> Contact inhibition: when in contact w/ other cells, division stops

- cell contact normally = growth stop



no growth req

growth req

> Cell senescence (apoptosis): reduction of repetitive codes on the end of a chromosome (telomere).

- cells keep track of # times they divide

- once max # reached, they kill themselves

> Tumors: unrestrained cell growth/division mass; tough fibrous coating

- cancer = 2nd leading cause of death

- cancer cells don't stick together very well

- metastasizing: rupturing of a tumor allowing cancer cells to spread