بِسْمِ اللهِ الرَّحْمٰنِ الرَّحِيْمِ विস্মিল্লाহির রাহ্মানির রাহীম



54W

একাডেমিক এন্ড এডমিশন কেয়ার

Class Nine: Biology, Chapter: 3 (3.3)

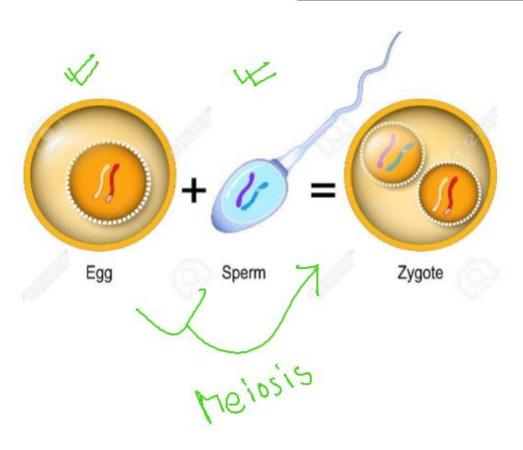
Cell division

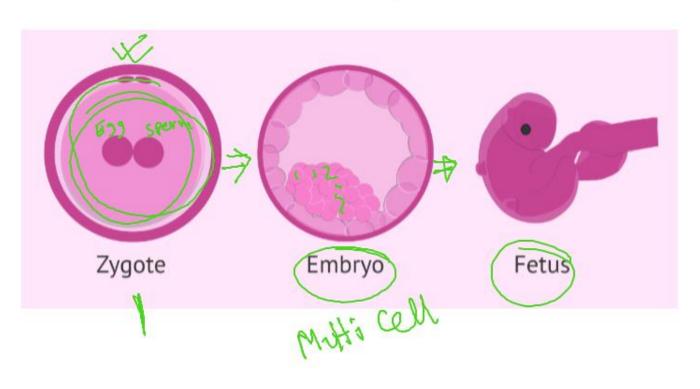
LECTURE-B 07



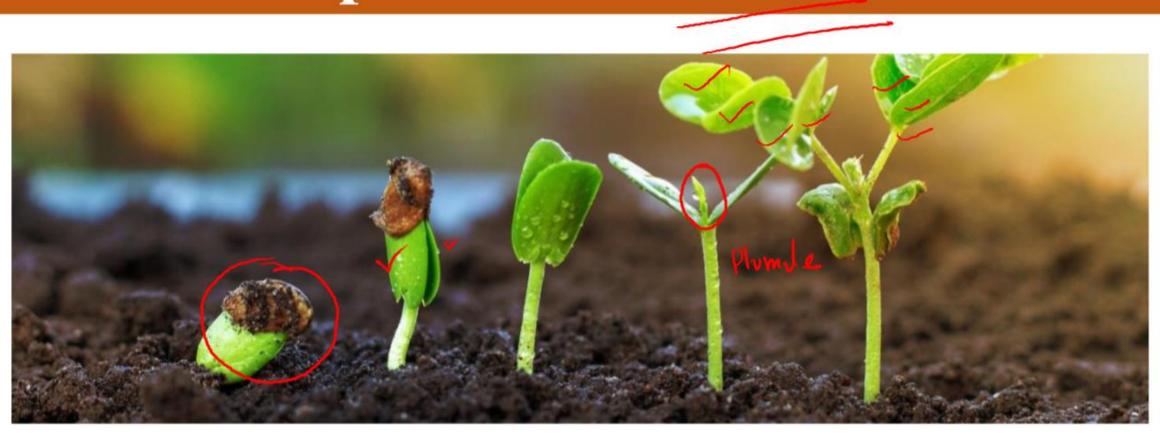
Importance of Mitosis

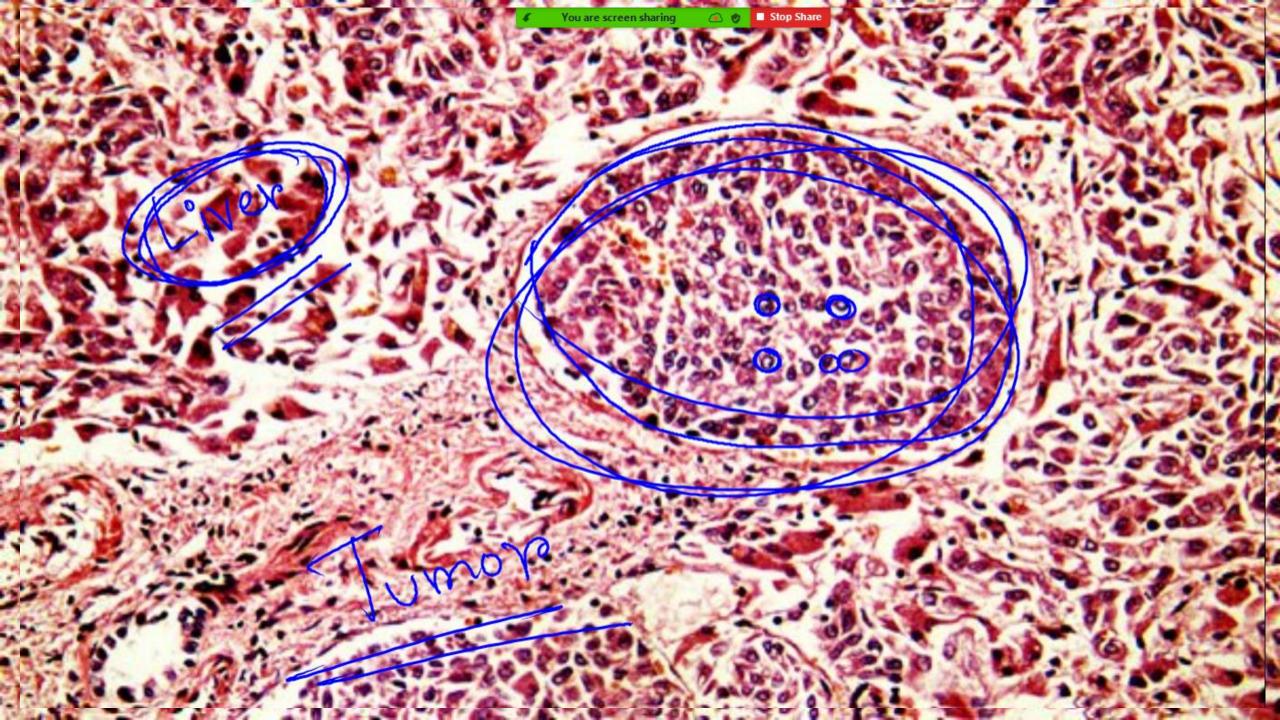


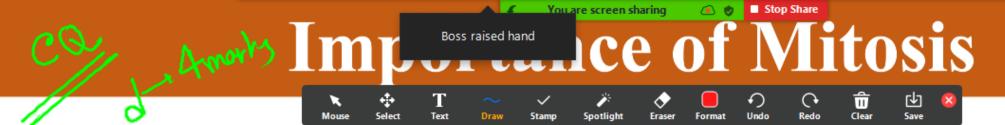




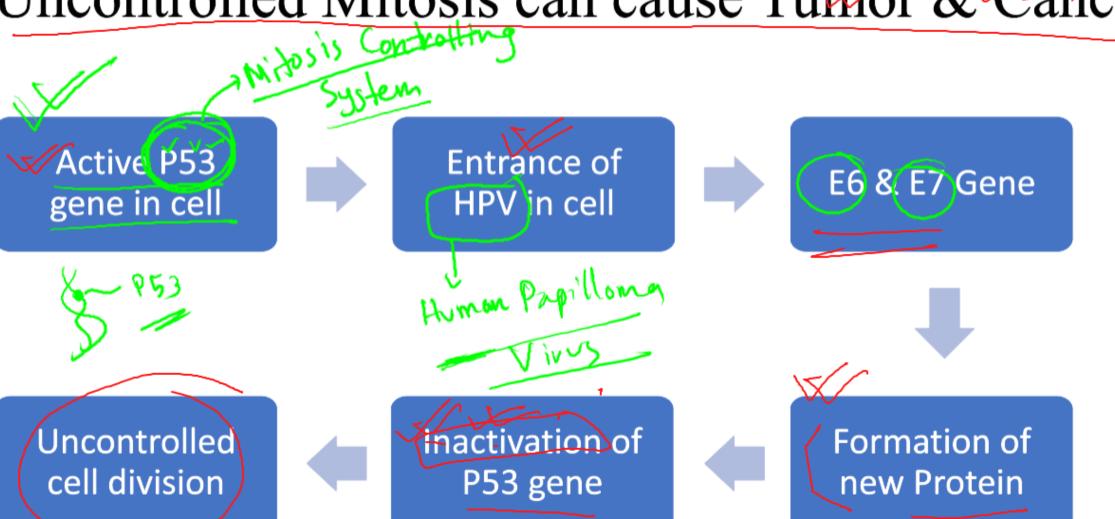
Imperation of the Stop Share of Mitosis



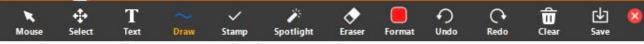




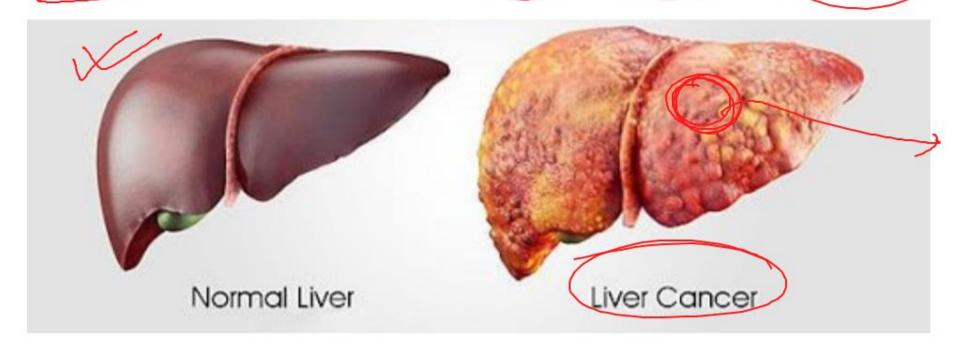
Uncontrolled Mitosis can cause Tumor & Cancer



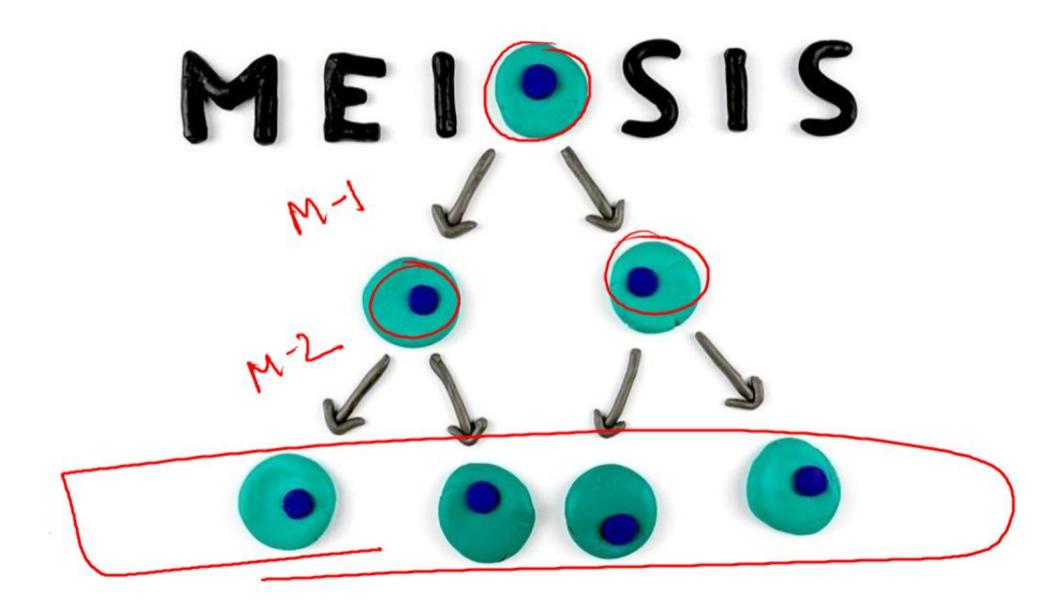
Importance of Mitosis



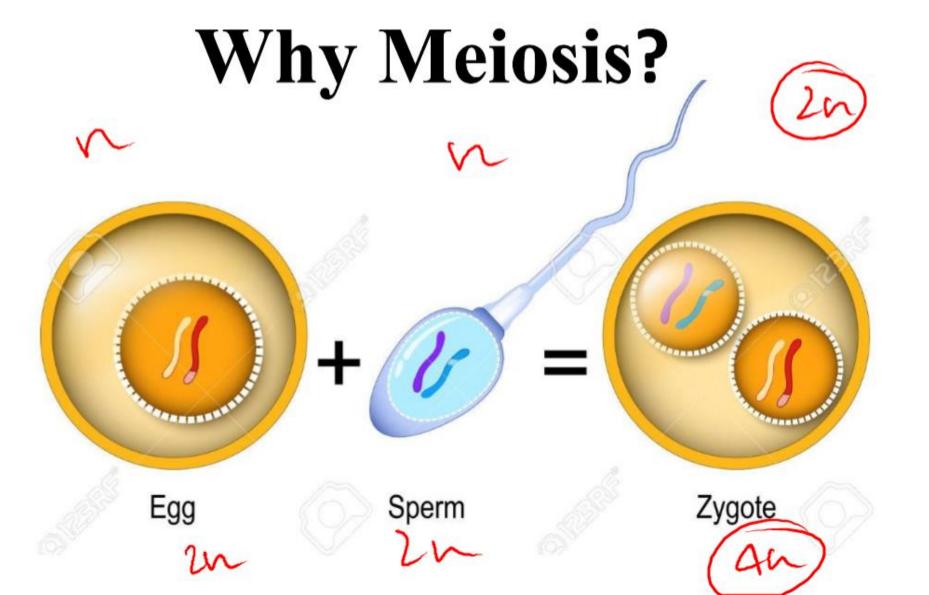
Cancer can be developed in almost every part of the body such as Liver, Lungs, Brain, Skin, Colon & Uterus etc.



Meiosis Cell Division

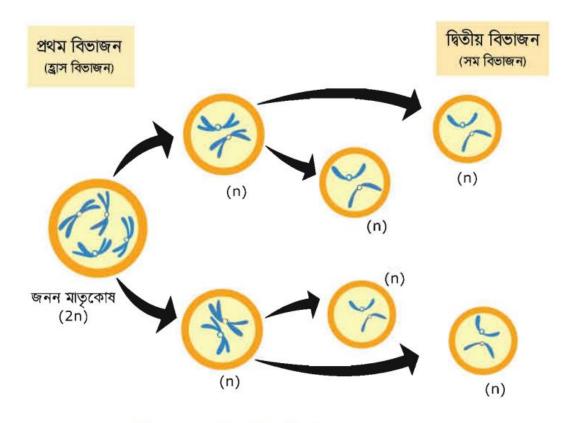


Meiosis Cell Division

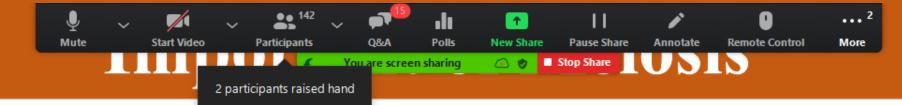


Meiosis Cell Division

Process of Meiosis

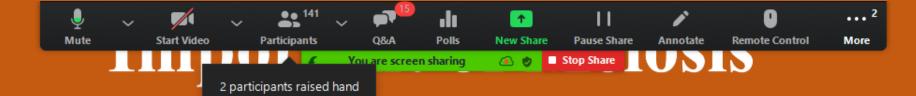


চিত্র 3.08: মিয়োসিস বিভাজন সম্বন্ধে ধারণা



Meiosis is called reductional division

- In Meiosis cell division, the Nucleus divides twice.
- In the first division (Meiosis-I), the number of chromosomes becomes half.
- The two daughter cells formed in Meiosis-I, again divide into another two new cells(Meiosis-II).
- Finally in Meiosis cell division, four daughter cells are produced from an eukaryotic cell and the number of chromosomes becomes half in the daughter cells from that of mother cell.
- That's why Meiosis is called reductional division.

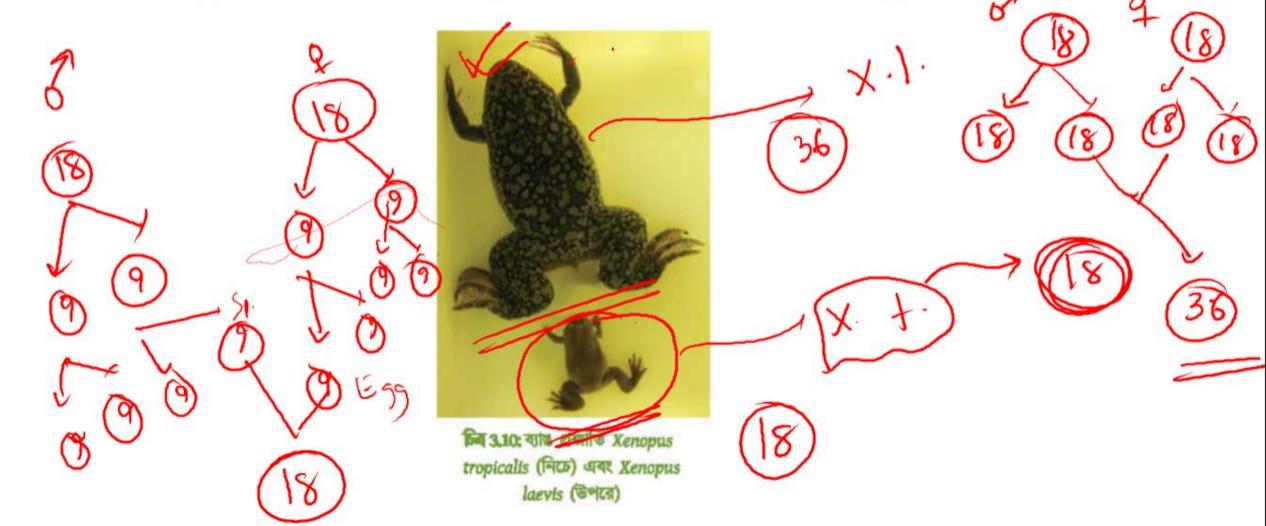


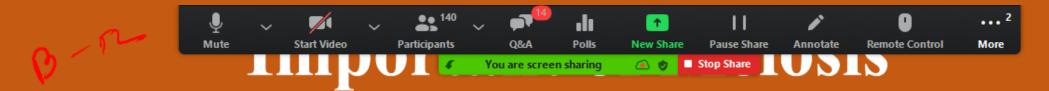
If Meiosis doesn't occur.....

- The number of chromosomes in the cell doubles in every sexual reproduction.
- If the number of chromosomes is increased life cycle after life cycle, the offspring will be fundamentally different.
- As Meiosis occurs, the featuresnin the species of living organisms stay the same, generation after generation.
- In <u>reality</u>, sometimes a new species may come into being if suddenly the number of chromosomes increases.

Important of Meiosis

New species may rise resulting in Meiosis





Survival in a changing environment is ensured by Meiosis.....

- If all of the individuals of a species are too genetically similar & have no genetic variation, then there is less possibility of surviving a new situation.
- As a result, a single disease or change in the environment could drive the species to extinction.
- ☐ But if genetic variation exists in any species, there is the possibility of survival in a new environment.

In which step of mitosis the chromosomes become in V,L,J,I shape?

- a) Metaphase
- b) Anaphase
- c) Prophase
- d) Telophase

What is the consequence of uncontrolled mitosis?

- a) Ulcer
- b) Diabetics
- c) Cancer
- d) TB

How many daughter cells are produced in meiosis?

- a) 2
- b) 3
- c) 4
- d) 6

How many time cells divide during meiosis?

- a) 1
- b) 2
- c) 4
- d) 5

Which division cause the exchange of gene?

- a) Amitosis
- b) Mitosis
- c) Meiosis
- d) Binary fission

লেগে থাকো সৎভাবে, স্বপ্ন জয় তোমারই হবে

র্ডদ্রাম-উন্মেষ শিক্ষা পরিবার

ThankYou