Cell cycle and Cell divisions

Cell division

Isolation of chromosome

Cell with double chromosomes

Cell Cycle

Million in

DINA. Symbos

Doubled

- Growth is a fundamental property of all living organisms. Nucleus with chromosomes in cell
- The body of an adult person contains 10¹⁴ cells.
- Zygote is formed by the fertilization between male and female gametes.
- Cell division → Cell multification → Growth
- Cell cycle :
 - The cell cycle is the series of events that takes place inside a cell thus leading to cell division and cell duplication.
 - The period between two successive cell divisions is called cell cycle.
 - The human cell divides in culture once in approximately every 24 hours.
 - Yeast cell can complete one cell cycle in every 90 minutes.
 - Cell cycle divide in two phases:
 - (1) Interphase :
 - Materials duplicate. It is recognized as chromatin material. Orgenelle, DNA, centriole are duplicated. - It is divided in three subphases.
 - (i) G₁ Phase (Gap-I phases) :
 - Growth phase. For the replication purpose DNA, essential enzyme protein and RNA are synthesize.
 - (ii) S Phase (Synthesis or Replication phase) :
 - Duplication of DNA. becomes 4C. becomes 4C from 2C.
 - (iii) G, Phase (Gap-II phase) :
 - Formation of protein. For the mitosis formation of microtubules are necessary.
- (1) What is the essential criterium for growth of organisms?
 - (A) Increase in cell mass (B) Duplication of genetic material
 - (C) Cell division (D) Cell degradation
- (2) Which of the following statement is incorrect for cell cycle?
 - (A) Duplication of cell occurs (B) Enhance the fertilisation of gamete cells
- (C) The period between two successive cell divisions (D) The series of events that takes place inside a cell
- (3) Which of the following statement is incorrect for Interphase?
 - (A) Replication of DNA (B) Duplication of centrioles
 - (C) Cell size increases (D) Nuclear division occurs
- (4) During which phase does chromatin material present?
- (A) Metaphase (B) Interphase (C) Anaphase (D) Telophase
- (5) Which subphase of the following is not of Interphase ?
- (A) G₁ (B) division (C) G₂ (D) S

Cell Biology Question Bank

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