

HSC — BIOLOGY 1ST PAPER — CHAPTER TWO — CELL DIVISION

"The process by which new cells are formed from the pre-existing cells is called *cell division*".

(Walter Flemming, 1882)

Body of multicellular organism constitutes 2 types of cell:-

1. Somatic cells; takes part in growth and development.
2. Germ cells; take part in sexual reproduction of organisms.

Amitosis	Mitosis	Meiosis
Amitosis is a mode of Division in which nucleus elongates, constricts, in the middle and divides directly into two daughter nuclei. [Gr. <i>a</i>=no, <i>mitosis</i>=thread, <i>osis</i>=state]	Mitosis is a process of cell division takes place in the nucleus of a dividing cell, involves typically a series of steps resulting in the formation of two new daughter nuclei and finally dividing the cytoplasm of mother cell into two daughter cells which are identical to each other and also to the original mother cell in every respect.	The specialized cell division in which nucleus of reproductive parent cell divides twice while the chromosomes divide once resulting four daughter cells or gametes and in which the diploid number of chromosomes of parent cell is reduced to haploid in the daughter cells is called as meiosis cell division.
Characteristics		
1. Simple cell division method. 2. Nucleus divides to form two daughter cells. 3. Daughter cells are genetically non-identical. 4. Intact nuclear envelope is found. 5. Chromatin does not condense into definite chromosomes. 6. No spindles are involved. 7. Chromatin distribution occurs unequally which causes abnormalities in metabolism and reproduction. 8. Cytokinesis may or may not follow karyokinesis. 9. Follows centripetal constriction of cytoplasm to form two daughter cells. 10. Amitosis occurs in yeast cells, amoeba, meganucleus of paramecium, nuclei of internodal cells of <i>Chara</i>, endosperm cells of seeds, cartilage cells and diseased cells.	1. 2 daughter cells with similar characters (identical qualitatively and quantitatively) and chromosome number like mother cell is produced. 2. Equal genetic material division. 3. Complex cell division method. 4. Take place in haploid and diploid cells. 5. Each chromosome divides longitudinally to form two chromatids. 6. Original structure of the chromosomes remains unchanged in both the daughter nuclei. 7. Nucleus and cytoplasm divide one time. 8. Occurs in vegetative or, somatic cells. 9. No crossing over. 10. No genetic variation. 11. Helps in physical growth. 12. Held in all most all embryonic cells of plant or animal until it reaches full size, divisible somatic cells of multicellular organisms, reproductive organs of plants and animals and in plant meristematic tissues, apical meristems of roots and	1. Occurs in reproductive mother cells of diploid plants and zygotes of haploid plants. 2. Nucleus divides twice. 3. Chromosomes divide once. 4. Daughter cells have half number of chromosomes. 5. 4 haploid (n) daughter cells are produced from 1 diploid ($2n$) mother cell. 6. Homologous chromosomes pairing takes place to form bivalents/tetrads where crossing over happens. 7. Cells produced in meiosis having unique characteristics of each. 8. Plays significant role in the evolution. 9. Crossing over takes place between the non-sister chromatids. 10. First division is reductional and the second one is equational. 11. Genetic variation occurs. 12. Cytokinesis may be successive/simultaneous. 13. Long lasting process.

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Chemokines and Chemokine Receptors in Brain Homeostasis Flavia Trettel, Richard M. Ransohoff, 2015-08-17 Virtually involved in all pathologies that present an inflammatory component it is now evident that in the central nervous system chemokines and chemokine receptors possess pleiotropic properties beyond chemotaxis constitutive brain expression of chemokines and their receptors on endothelial cells but also on neurons and glia suggests a role for such molecules in mediating homeostatic cross talk between cells of the brain perenchyma Cross talk between neurons and glia is determinant to the establishment and maintenance of a brain environment that ensure normal function and in particular glial cells are active players that respond to environmental changes and act for the survival growth differentiation and repair of the nervous tissue in this regard brain endogenous chemokines represent key molecules that play a role in brain development neurogenesis neurotransmission and neuroprotection As important regulators of peripheral immune response chemokines are molecules of the immune system that play a central role in coordinating communication between the nervous and the immune systems in the context of infections and brain injury Indeed in pathological processes resulting from infections brain trauma ischemia and chronic neurodegenerative diseases chemokines represent important neuroinflammatory mediators that drive leucocytes trafficking into the central nervous system facilitating an immune response by targeting cells of the innate and adaptive immune system The third edition of the international conference Chemokines and Chemokine Receptors in the Nervous System held in Rome in October 2013 represented an exciting platform to promote discussion among researchers in different disciplines to understand the role of chemokines in brain homeostasis This Frontiers Research Topic arises from this conference and wants to be an opportunity to further discuss and highlight the importance of brain chemokines as key molecules that not only grant the interplay between the immune and the nervous systems but in addition drive modulatory functions on brain homeostasis orchestrating neurons microglia and astrocytes communication *VCE HSC Biology* Shirley Fung, 1985

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