
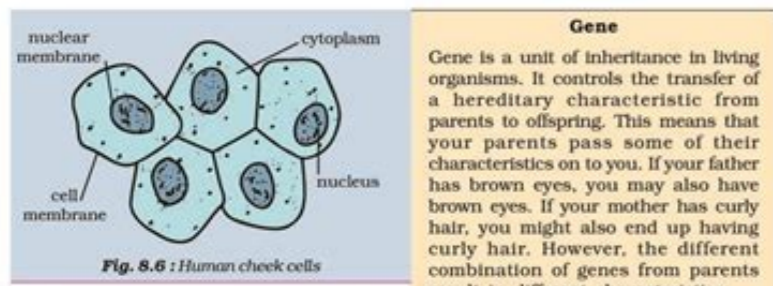


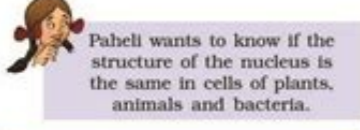
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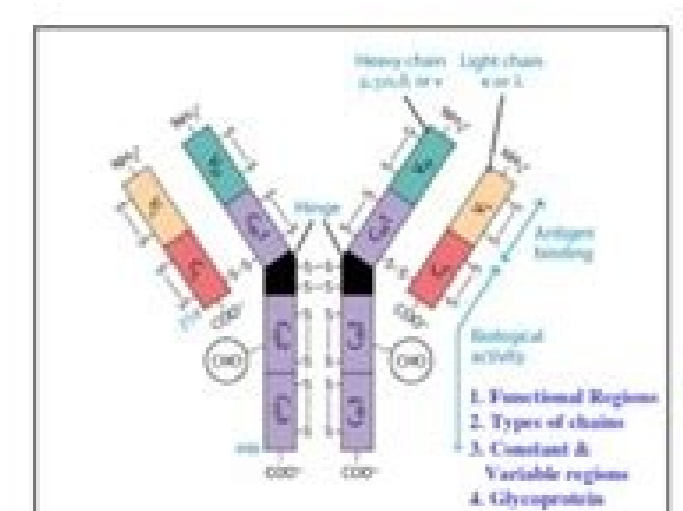
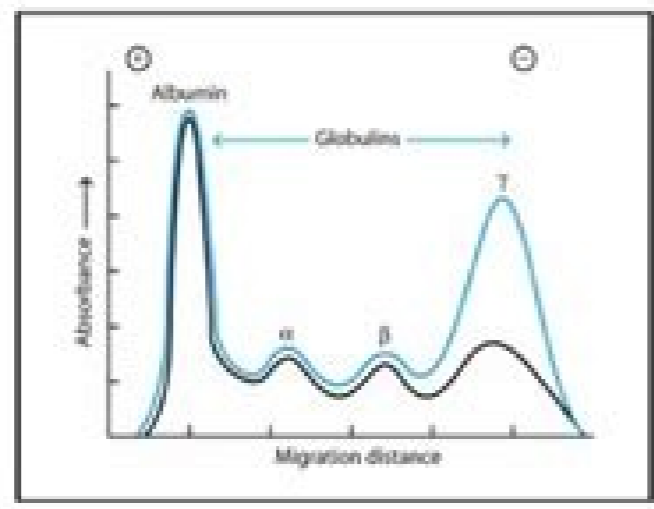
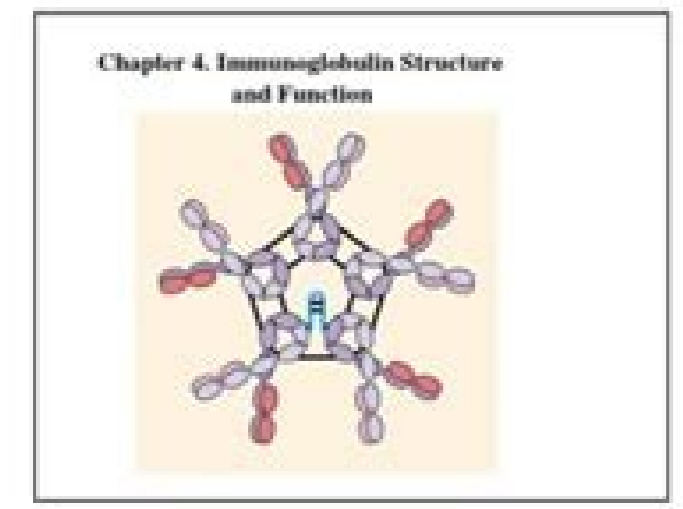
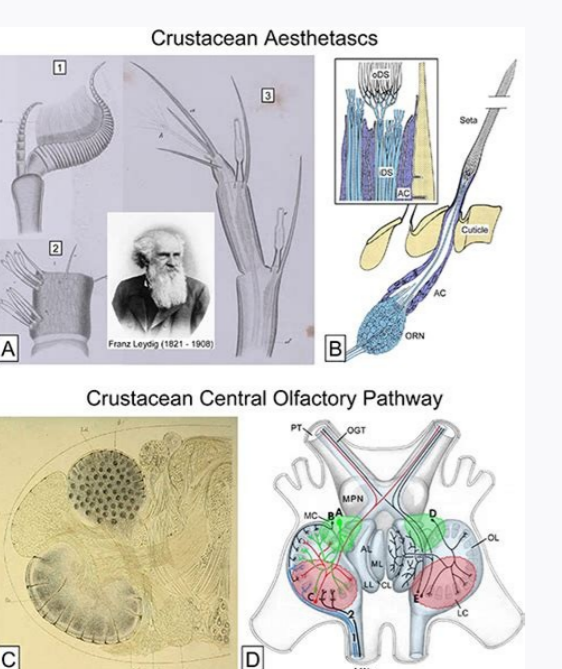
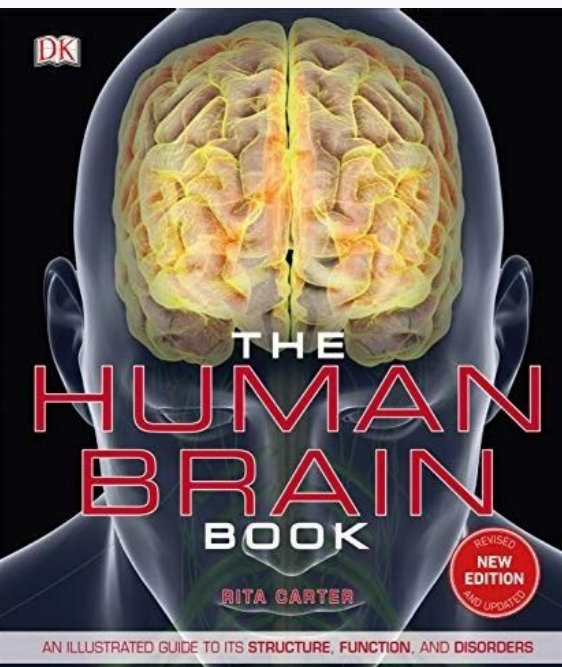
Cytoplasm
It is the jelly-like substance present between the cell membrane and the nucleus. Various other components, or **organelles**, of cells are present in the cytoplasm. These are mitochondria, golgi bodies, ribosomes, etc. You will learn about them in later classes.

Nucleus
Nucleus, in addition to its role in inheritance, acts as control centre of the activities of the cell. The entire content of a living cell is known as protoplasm. It includes the cytoplasm and the nucleus. Protoplasm is called the living substance of the cell.

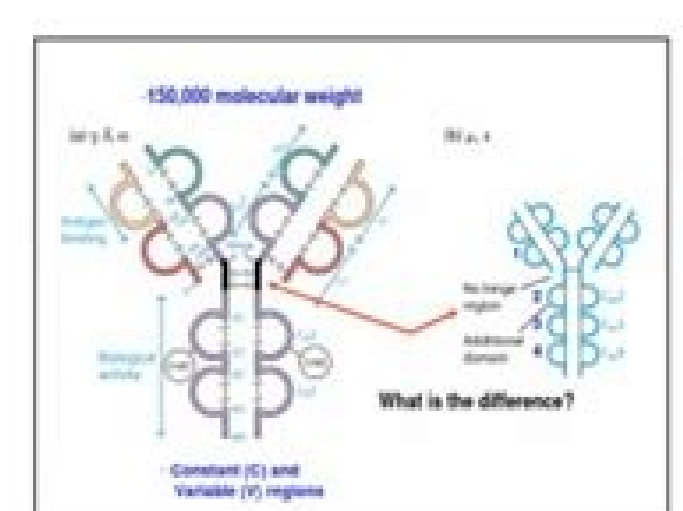


The nucleus of the bacterial cell is not well-organised like the cells of multicellular organisms. There is no nuclear membrane. The cells having nuclear material without nuclear membrane are termed **prokaryotic cells**. The organisms with these kinds of cells are called **prokaryotes** (pro: primitive; karyon: nucleus). Examples are bacteria and blue green algae. The cells, like onion cells and cheek cells having well-organised nucleus with a nuclear membrane are designated as **eukaryotic cells**. All organisms other than bacteria and blue green algae are called **eukaryotes**. (eu: true; karyon: nucleus).

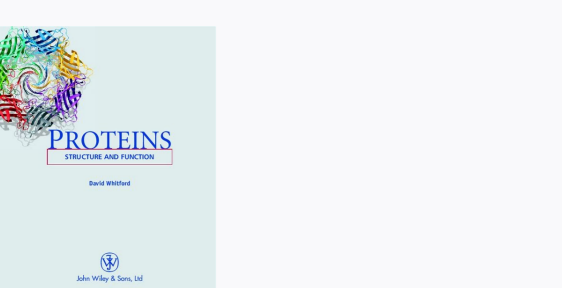
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Each heavy and light chain is made up of a number of domains (a lg folding or lg domains).
Light chains consist of 2 domains (C and V).
Heavy chains have 4-5 domains (depending on the class of antibody).
Each domain is about 110 amino acids in length and contains an intrachain disulfide bond between two cysteines about 60 amino acids apart.



• Multiple myeloma = cancerous plasma cells
• Monomer = 150,000



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S2CID 22053616. ^ Monti JM, Jantos H (1992). ^ Lager E, Nilsson J, Ostergaard Nielsen E, Nielsen M, Liljeffors T, Sterner O (July 2008). S2CID 207407084. doi:10.1016/j.neuron.2007.07.041. There are many examples of subtype-selective compounds which are widely used in scientific research, including: CL-218,872 (highly $\alpha 1$ -selective agonist) brettezenil (subtype-selective partial agonist) imidazenil and L-838,417 (both partial agonists at some subtypes, but weak antagonists at others) QH-II-066 (full agonist highly selective for $\alpha 5$ subtype) SL-651,498 (full agonist at $\alpha 2$ and $\alpha 3$ subtypes, and as a partial agonist at $\alpha 1$ and $\alpha 5$ 3-acyl-4-quinolones: selective for $\alpha 1$ over $\alpha 3$ [52] Paradoxical reactions There are multiple indications that paradoxical reactions upon – for example – benzodiazepines, barbiturates, inhalational anesthetics, propofol, neurosteroids, and alcohol are associated with structural deviations of GABAA receptors. "GABAA receptor pharmacology". 559 (7712): 67–72. 363 (27): "Pharmacological targeting of the serotonergic system for the treatment of obesity". 580 (3): 355–60. 160 (2): 334–40. 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Specifically, there is a developmental increase of HTR5A expression in several subregions of the human cortex, paralleled by a decreased expression of HTR1A from the embryonic period to the post-natal one. "4-Bromo-2,5-dimethoxyphenethylamine (2C-B) and structurally related phenylethylamines are potent 5-HT2A receptor antagonists in Xenopus laevis oocytes". doi:10.1016/j.jmgm.2007.04.012. W. doi:10.1016/j.ejphar.2007.12.013. methaqualone, etaqualone, dipropalnone, neuroactive steroids,[43] niacin/nicotinamide,[44] nonbenzodiazepines (ex. 130 (2): 144–51. doi:10.1038/s41586-018-0255-3. PMID 15959466. doi:10.2174/092986707782023190. Evidence for opposing roles of 5-HT2 and 5-HT1A receptors". "Comparative models of GABAA receptor extracellular and transmembrane domains: important insights in pharmacology and function" (PDF). Benzodiazepines do not bind to the same receptor site on the protein complex as the endogenous ligand GABA (whose binding site is located between α - and β -subunits), but bind to distinct benzodiazepine binding sites situated at the interface between the α - and γ -subunits of α - and γ -subunit containing GABAA receptors.[7][8] While the majority of GABAA receptors (those containing $\alpha 1$ -, $\alpha 2$ -, $\alpha 3$ -, or $\alpha 5$ -subunits) are benzodiazepine sensitive, there exists a minority of GABAA receptors ($\alpha 4$ - or $\alpha 6$ -subunit containing) which are insensitive to classical 1,4-benzodiazepines.[9] but instead are sensitive to other classes of GABAergic drugs such as neurosteroids and alcohol. PMID 18394658. doi:10.1016/j.neuropharm.2006.04.017. doi:10.1038/nchembio.917. doi:10.1016/S0028-3908(07)00042-7. 56 (3): 347–51. 138 (2): 191–7. 43 (5): 949–958. doi:10.1016/j.neuropharm.2008.02.007. 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Recent computational studies have suggested an allosteric mechanism whereby GABA binding leads to ion channel opening.[24] Because the reversal potential for chloride in most mature neurons is close to or more negative than the resting membrane potential, activation of GABAA receptors tends to stabilize or hyperpolarize the resting potential, and can make it more difficult for excitatory neurotransmitters to depolarize the neuron and generate an action potential. PMID 18541432. "A Silver Bullet for the Treatment of Depression?" ^ Vijayan RS, Trivedi N, Roy SN, Bera I, Manoharan P, Payghan PV, Bhattacharyya D, Ghoshal N (November 2012). Current Drug Targets. 198 (1): 37–49. Trends in Neurosciences. PMC 2834934. "Diazepam-bound GABAA receptor models identify new benzodiazepine binding-site ligands". "GABA A receptors: subtypes provide diversity of function and pharmacology". ^ Principles of neural science. 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