

HEMATOLOGY & THE IMMUNE SYSTEM



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- HUMAN BODY
- HUMAN DISEASES
- IMMUNE SYSTEM
- RESPIRATORY SYSTEM
- RESPIRATORY DISEASES
- VIRUS & VIRAL DISORDERS
- SARS
- MISSION INDIA RESEARCH

Quit

SARS
(SEVERE ACUTE RESPIRATORY SYNDROME)
VIRAL DISORDERS
HUMAN ANATOMY & PHYSIOLOGY

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THE EMERGENCE OF MEDICAL SCIENCE

As far as we know about two million different species of living things inhabit the earth today. All scientists now agree that these species, of which man (Homo sapiens) is one, arose through a long history of gradual change that can be traced back to very simple life forms.

The Emergence of Medical Science:
Until about the beginning of the 19th century very few people had any real understanding of how the human body works. Before then some very unscientific ideas prevailed, which were derived from unscientific ideas prevailed, which were derived from philosophical theories rather than from observation or testing. Although these were

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Protection

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- Transportation
- Regulation
- Protection
- Structure of Blood cells
- Blood cells

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Hematology & the Immune System

The Hematology & the Immune System is divided as, The Functions of Blood, The Formation of Blood cells, The Erythrocytes (RBC) Red Blood Cells, The Leukocytes (WBC) White Blood Cells, The Immune system, The Healing & Repair, The Antibiotics, The Antibody

They are further specialized with: Introduction, Transportation, Regulation, Protection, Hemoglobin Chemistry & Synthesis The Structure of Haem, Factors requires for the Synthesis of HB, The Fate of Hemoglobin The Physical characteristics of Blood, The RBC Anatomy, The RBC Physiology , The RBC Life cycle, The Production of RBC, The Shape & size of the RBC, The Concentration of RBC in the blood, Quality of Hemoglobin in the Cells, Areas of the body that produce RBC, Stages of differentiation of RBC, Formation of Hemoglobin. The WBC Physiology, The general characteristics of Leukocytes, Genesis of the Leukocyte, The life span of WBC, Diapedesis, Ameboid motion, Chemotaxis, Phagocytosis, Phagocytosis by Neutrophils, Phagocytosis by Macrophages, Enzymatic digestion of the Phagocytized Particles, The ability of Neutrophils & Macrophages to kill bacteria, The Monocyte-Macrophage system & the reticuloendothelial cell, Tissue Macrophages in the Skin & Subcutaneous tissues (Histiocytes), Macrophages of the Lymph nodes, Alveolar macrophages, The formation of Pus, The Eosinophils, The Basophils, The Protection against attack, Phagocyte, The T cell and their interactions, Killer & Helper T cell, The diversity of T cell receptors, Antigens & the T cell activation The failsafe, The Summary of the nonspecific resistance.

Chemical Factors, Antimicrobial Substances, Immunity, Immunization, Immunology Immunosuppression, Infection, Antibiotics, Function of Cells participating in immune Response, Adaptive Immune Response, Antibody, Antigen, Antigen receptor, Autoimmunity, Bone marrow, Chemokine, Cyto-kine, Dendritic cell, Hypersensitivity, Inflammation, Immunodeficiency disease, Immunoglobulin Innate Immune, Response, Leukocyte, Lymphnode, Lymphocyte, Macrophage, Mast Cell, Natural Killer, Pathogen, Spleen, Thymus, Tolerance, Transplant Rejection, Special forces s – T cells & cells. B cells & antibodies, Disorders of the Immune System, Immune Deficiency, AIDS, The AIDS Virus, The Closed wound Healing. The Open wounds, The Bone Healing, Surfaces & Adhesion, Biosynthesis, Manu-facture Antimicrobial activity, Bacteria, Fungi, Viruses, Protozoa, Antitumor activity, Mechanism of Action. Pharmacological properties Antibiotic resistance Genetics, Mechanisms Impact on Disease - Humans Chemistry of Major groups. Aminogluco-sides, An-samycins, Anthracyclines, Chloramphenicol, Ene-diyne-s, Glycopeptides, a –Lactams. Lincomycin/celesticetin, Macrolides, Nucleosides, Peptides, Polyenes, Polye-thers. Tetracyclines, Induction, Groups, The Immune Response, The Immunoglobulin production Monoclo- nal antibodies.



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