

MOLECULAR BIOLOGY AND DIAGNOSTIC

GENETICS

- Study of genes at all levels.
- The study of living things which receives common traits from previous generation.

GENE

- Unit of heredity
- The DNA segment that carries genetic information.
- Holds the information to build and maintain an organism cell and pass genetic traits to off springs.

GENOME

- Entire set of genetic instruction
- Entirety of an organism heredity information
- It is encoded either in DNA, or for many types of viruses in RNA.

DNA STRUCTURE

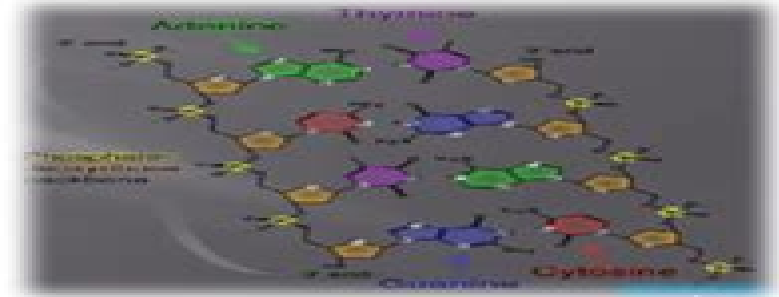
- Deoxyribonucleic acid is a nucleic acid that contains the genetic instruction used in the development and functioning of all known living organism.
- DNA is a set of blue prints needed to construct other components of the cell such as protein and RNA molecule.
- Two long strands which makes a shape of a double helix strand.
- The DNA chain is 22-26 Angstrom wide (2.2-2.6 nanometers) one nucleotide is 3.3A (0.3nm) long.
- *Nucleotide is the building block of ribonucleic acid.*
- DNA consist of two long polymer of simple unit called nucleotides with backbone made of base, sugar and phosphate.

SUGAR-BASE-NUCLEOSIDE

PHOSPHATE- SUGAR- BASE-NUCLEOTIDE

DNA BASES

- Adenine and Guanine (PURINES)
- Cytosine and Thymine (PYRIMIDINES)
- A=T Double hydrogen bond.
- G=C Triple hydrogen bond.



A=T
G=C
A=U

A 5th pyrimidine base-Uracil usually takes the place of thymine in RNA. It differs from thymine by lacking a methyl group on its ring.



- The DNA double helix is stabilized by hydrogen bond between the base attached to the two strands.
- Major difference between DNA and RNA is sugar with the two deoxyribose in DNA being replaced by the alternative ribose sugar in RNA.

NUCLEOSIDE

- A nitrogen base bound to unphosphorylated sugar. It is two subunit molecule in which a pentose sugar is bonded to a nitrogen containing heterocyclic base.

1. The base is always attached to C-1', which is always in a β -configuration. For purine bases, attachment is through N-9, for pyrimidine bases, N-1

Study Guide For Diagnostic Molecular Biology

Mr. Rohit Manglik



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Diagnostic Cytopathology Board Review and Self-Assessment Walid E. Khalbuss, Qing Kay Li, 2014-10-24 Diagnostic Cytopathology Board Review and Self Assessment provides a comprehensive systems based review of non gynecological cytology including cytomorphology pitfalls and ancillary studies presented in a high yield format with board type multiple choice questions and detailed answers It provides an excellent review resource and self assessment for pathologists cytopathologists and cytotechnologists as well as trainees pathology residents cytopathology fellows and cytotechnology students who are preparing for board examinations or in service examinations in addition to those who are looking to fine tune their cytology diagnostic skills The volume is organized in a systems based format including chapters covering lung lymph nodes pancreas liver gastrointestinal tract thyroid salivary gland central nervous system soft tissue and bone kidney adrenal retroperitoneal and exfoliative cytology of urine serous fluids and CSF This book is enriched with the following features to maximize studying and review of cytopathology

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Diagnostic Molecular Pathology A Guide to Applied

Molecular Testing contains exercises to test readers on their understanding of how molecular diagnostic tests are utilized and the value of the information that can be obtained in the context of the patient workup Readers are directed to an ancillary website that contains supplementary materials in the form of exercises where decision trees can be employed to simulate actual clinical decisions Focuses on the menu of molecular diagnostic tests available in modern molecular pathology or clinical laboratories that can be applied to disease detection diagnosis and classification in the clinical workup of a patient Explains how molecular tests are utilized to guide the treatment of patients in personalized medicine guided therapies and for prognostication of disease Features an ancillary website with self testing exercises where decision trees can be employed to simulate actual clinical decisions Highlights new technologies and approaches of applied molecular pathology and how discovery based research will yield new and useful biomarkers and tests

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Pediatric Critical Care Study Guide Steven E. Lucking, Frank A. Maffei, Robert F. Tamburro, Neal J. Thomas, 2012-04-12 This is the first comprehensive study guide covering all aspects of pediatric critical care medicine It fills a void that exists in learning resources currently available to pediatric critical care practitioners The major textbooks are excellent references but do not allow concise reading on specific topics and are not intended to act as both text and study guide There are also several handbooks available but these are usually written for general pediatric residents and lack the advanced physiology and pathophysiology required for the higher level pediatric critical care practitioner

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