

## Lecture 1

Genetic substance	Chemical composition	Phosphorus
Mendelian	Nucleic acid	Chromosome
Chromatin	Replication	Mutability
Homologous	Transposition	Transcription
RNA Splicing	Prokaryote	Eukaryote
deoxyribonucleic acid	Bacteriophage	Pathogenic
Transformation	Descendent	Competent cell
transformant	Heritable traits	Cell extracts
sulfur	Radioactive	double helix
diffraction pattern	complementary pairing	nitrogen-containing base
3,5-phosphodiester bonds	adenine	thymine
cytosine	guanine	Deoxyribose
hydrogen bonds	template	antiparallel
regulatory molecule	Purine	Pyrimidine
Phosphate group		

## Lecture 2

regulatory elements	package	heterochromatin
euchromatin	histone proteins	coil
methylation	acetylation	higher order
compact	Octameric	Higher order compactions
alkaline proteins	Nuclease	Conserved
N-terminal	3' end	assembly
Dimer	tetramer	phosphorylation
remodeling	covalent	Histone deposition
trypsin	scaffold	Inert
tandem	apparatus	

## Lecture3

Template	Floating nucleotide	Semi-conservative
DNA polymerase	Proofreading	Replication fork
Discontinuous assembly	Reproduction	Autoradiograph
Density gradient centrifugation	Ultraviolet	Complementary strand
Lagging strand	Unwind	Primosome
Re-annealing	Exonuclease	Endonuclease
Holoenzyme	Implicate	Bidirectional replication
Consensus	Coordination	Mitochondrial DNA

## Lecture 4

Topoisomerase	Transcription	Ribosome
Transfer RNA	Message RNA	Recruit
Promotor	Up/downstream	Coding strand
	Nascent	Polarity
Fidelity	Supercoil	Initiation
Elongation	Termination	Conformation
Dissociation	Terminator	Pho (in)dependent
Transcription factor	Cis sequence element	DNA-dependent RNA polymerase
Trans-acting factor	RNA processing	Coupled
Splicing	Poly adenylation	machinery