

Km. Mayawati Govt. Girls P.G. College, Badalpur, G.B. Nagar

Dept of Zoology: Forth Semester: Specializations-Cytology and cytogenetics

Assignments: M.Sc.-IVth (Batch-2019)

Instructions for assignments

- *Mark of Each Assignment: 5 (Deduction of Marks: 1 mark deducted for Late Submission and 1 for late presentation.)*
 - *All student presentation recorded online and uploaded on college YouTube account. Presentation mode (online/offline) will be update before presentation date depending upon COVID19 situations.*
 - *Your presentation monitored, marked and recorded by Dr. Azad Alam Siddique or Dr. Azmi Naqvi or Mrs. Sumbul Zehra or Smt. Kamlesh Kaushal or as allotted by HOD*
 - *Soft copy of all assignments emailed to zoologyhod.kmggpc@gmail.com*
 - Tentative date of First internal: Last week of April 2021.

Roll. NO.	NAME OF STUDENTS	Course XIII D : Advanced cell biology					Course XIV D : Chromosome and Genomic organization					Course XV D : Genomic analysis, Immuno-genetics					Course XVI D : Human and Microbial cytogenetics and Molecular biology						
		Mrs. Sumbul Zehra					Dr. Azad Alam Siddique					Dr. Azmi Naqvi / Smt. Kamlesh Kaushal					Dr. Dinesh C. Sharma						
		I st Assignment		V th Assignment			II nd Assignment		VI th Assignment			III rd Assignment		VII th Assignment			IV th Assignment		VIII th Assignment			Total Marks	Signature
		FIRST ASSIGNMENT	Submission Last date	Presentation Date	SECOND ASSIGNMENT	Submission Last date	Presentation Date	FIRST ASSIGNMENT	Submission Last date	SECOND ASSIGNMENT	Submission Last date	FIRST ASSIGNMENT	Submission Last date	SECOND ASSIGNMENT	Submission Last date	SECOND ASSIGNMENT	Submission Last date	SECOND ASSIGNMENT	Submission Last date	SECOND ASSIGNMENT	Submission Last date		
1	Alishba	Circadian rhythms in cells, i.e. from human supra	24-4-21	24-4-21	16-5-21	17-5-21	Chromosomes	30-4-21	01-5-21	Molecular basis of neoplasia (cancer)	21-5-21	C-value paradox	05-5-21	RFLP analysis	27-5-21	Molecular anatomy of eukaryotic chromosomes	12-5-21	Genetics of cell cycle	30-5-21	31-5-21	31-5-21		
2	Himanshi	Circadian rhythms in cells, peripheral oscillators and	24-4-21	24-4-21	16-5-21	17-5-21	DNA sequencing	30-4-21	01-5-21	Oncogenes and tumour suppressor genes	21-5-21	detailed account of various models of prokaryotic genomes	05-5-21	RAPD analysis	27-5-21	Metaphase chromosome, centromere, kinetochor	12-5-21	cyclin independent kinases	30-5-21	31-5-21	31-5-21		
3	Jaya	Membrane transport	16-5-21	17-5-21	Ultrastructure: Nucleosome	30-4-21	01-5-21	Conversion of proto-oncogenes into oncogenes	21-5-21	22-5-21	viral genome and eukaryotic genomes	05-5-21	AFLP analysis	27-5-21	Heterochromatin and Euchromatin	12-5-21	Giant Chromosome	30-5-21	31-5-21	31-5-21			
4	Kalpana shishodia	Cell to cell communication and its importance	24-4-21	26-4-21	Molecular structure of telomeres	30-4-21	01-5-21	Genic balance theory of sex determination	21-5-21	22-5-21	Organization of genes in organelle genomes	05-5-21	Molecular markers linked to disease genes	27-5-21	Giant Chromosome	12-5-21	DNA replication in eukaryotic cell	30-5-21	31-5-21	31-5-21			

5	KM MINAKSHI KORI	Transmembrane proteins and receptors	24-4-21	24-4-21	24-4-21	24-4-21	26-4-21	RFLP	Kinetocho re and centromer e	X/A ratio, multiple numerator elements	Molecular analysis of genomic DNA in yeast	Applications of RFLP in forensics, disease diagnosis, genetic	Polytene & Lamp brush Chromosome	DNA replication in eukaryotic cell		
6	Km versha	Signal transduction pathways						RFLP in forensics	yeast centromere, alpha-satellite DNA, other	sex linked master control genes	Molecular analysis of genomic DNA in eukaryote	Applications of RFLP in germplasm maintenance and taxonomy	Somatic cell genetics	Genetic code		
7	Vinita	Cell adhesion						RFLP in disease diagnosis	Reassocation kinetics	autosomal regulatory genes	Transposable elements in prokaryotes and eukaryotes	Immunoglobulin gene structure	Heterokaryon	DNA damage and repair		
8	Mamta	cell functions	Circadian rhythms in cells, i.e. from human supra chiasmatic	16-5-21	16-5-21	17-5-21	17-5-21	"Cot" curves (chemical complexity and kinetic)	Sex determination	Role of transposable elements in genetic regulation	Multigene organization of Ig genes	Selecting hybrids and chromosome segregation	Transcription in eukaryotic cell			
9	Mamta Rani	Ca++ independent cell-cell adhesion	Circadian rhythms in cells, peripheral oscillators and	16-5-21	16-5-21	17-5-21	17-5-21	Sat-DNA (including in-situ hybridization)	sex differentiation in mammals (including human)	Genome analysis	Mechanisms of DNA rearrangements	Techniques in human chromosome analysis	Transcription in prokaryotic cell			
10	Manisha	Cadherins	Membrane transport	16-5-21	16-5-21	17-5-21	17-5-21	Molecular structure of euchromatin and heterochr	Dosage compensation in organisms with heterogam	Microbial genomes	Generation of antibody diversity	molecular cytogenetics approach	Transcription in prokaryotic cell			
11	Manisha bhati	Hierarchy in organization of cells	Cell to cell communication and its importance	16-5-21	16-5-21	17-5-21	17-5-21	Molecular structure of an eukaryotic gene	Genetic imprinting	Genomes of <i>Drosophila</i>	DNA rearrangements	Numerical and structural abnormalities of human	RNA polymorphisms			
12	Megha Bai soy a	Prokaryotic genome	Transmembrane proteins and receptors	16-5-21	18-5-21	21-5-21	23-5-21	Concept of totipotency vis-a-genome constancy	Chromosomes	Genomes of yeast.	expression of T-cell receptors	human chromosome – syndromes	DNA polymorphisms	Regulation of gene expression in prokaryotes		
13	Neha Chauhan	Eukaryotic genome	Signal transduction pathways	16-5-21	18-5-21	21-5-21	23-5-21	Amphibians: Serial nuclear transplants	Ultrastructure: Nucleosome	Automated Karyotyping	Genetic screening, prenatal diagnosis and genetic counseling	Human genetics	Regulation of gene expression in eukaryotes	Regulation of gene expression in eukaryotes		

14	Priyanka Patel	Regulation of gene expression	24-4-21	24-4-21	24-4-21	27-4-21	Cell adhesion	Developm ental-significan ce of fluctuatio ns in	30-4-21	30-4-21	02-5-21	Ultrastruct ure: solenoid model nuclear scaffold	Chromoso me banding	Prenatal screening methods	Cytogeneti cs implication s and consequen ces of	translation machinery in prokaryotes and eukaryotes	30-5-21
15	Shaily	Flow cytometry	cell functions	16-5-21	16-5-21	18-5-21	rDNA amplificat ion	Molecular structure of telomeres	21-5-21	21-5-21	23-5-21	Chromoso me painting	foetal screening; new born screening	numerical alterations of chromosomes	Post transcription al modification in polypeptide	30-5-21	
16	Shalini Kumari	Ageing in cells	DNA sequencing	16-5-21	16-5-21	18-5-21	Chromosomal organizati on of genes and non-	30-4-21	30-4-21	02-5-21	Kinetochor e and centromere	Construction of a restriction map	carrier screening; pre-implantation screening	Bacterial transformation, transductio n	Molecular anatomy of eukaryotic chromosomes	30-5-21	
17	Shweeta bhati	Necrosis and apoptosis	FISH	16-5-21	16-5-21	18-5-21	Mobile DNA	yeast centromere , alpha-satellite DNA, other	21-5-21	21-5-21	23-5-21	RFLPs	History and methods of genetic counseling	Bacterial conjugatio n	Metaphase chromosome , centromere, kinetochore, telomere and its	31-5-21	
18	Sonam	Tag polymerase production by <i>Thermus aquaticus</i>	GISH	16-5-21	16-5-21	18-5-21	Morpholo gical and functional elements of eukaryoti	30-4-21	30-4-21	02-5-21	Reassociati on kinetics	Choice of mapping population: Simple sequence repeat loci	need to seek genetic counseling	bacterial chromoso me	Heterochrom atin and Euchromatin	31-5-21	
19	Sonika	Cytology of flora and fauna of thermophilic area	RFLP	16-5-21	18-5-21	21-5-21	Genetic regulation of cell division in eukaryote	"Cot" curves (chemical complexity and kinetic complexity)	21-5-21	21-5-21	23-5-21	Southern and fluorescen ce in situ hybridizati on for	ethical and legal aspects of genetic counseling	Bacteriophage: Types, structure and morpholog	Giant Chromosom e	30-5-21	
20	Tanu Sharma	novel genes carrying forms living in cold deserts	Cloning	18-5-21	20-5-21	20-5-21	Molecular basis of cellular check points	Sat-DNA (including in-situ hybridizati on)	05-5-21	05-5-21	08-5-21	Molecular markers in genome analysis	Construction of a restriction map	Cytogeneti c effects of ionizing and non-ionizing radiation	Polytene & Lamp brush Chromosom e	30-5-21	

-Dr. Dinesh C. Sharma, HOD-Zoology