Department of Biotechnology

Sant Guru Ghasidas Govt. P.G. College, Kurud, District – Dhamtari (C.G.)

Presentation topic for M.Sc. (Biotechnology) 1st Semester

(Session: July- Dec. 2024)

S.No.	Name of student	Paper-01 (Cell Biology)	Paper-02 (Genetics)	Paper-03 (Microbial Physiology)	Paper-04 (Bio-molecules)
1.	Anuveshika	1. Blastula formation	2. Mutagen- Chemical	3. Normal micro flora of Skin	4. Storage lipids
2.	Dhaleshwari	1. Eukaryotic Cell wall & plasma membrane	2. Bacterial Genetic map with reference to *E. coli*	3. Sexually transmitted diseases including AIDS	4. Proteins
3.	Dhatri	1. Ion Channels	2. Role of histone modification in regulation of gene expression	3. Chemohetrotrophs	4. Homopolysaccharides- structural feature and role
4.	Dolly	1. Second messenger: cAMP	2. Interactions between the alleles of one gene	3. Halophiles & Methanogens	4. Ramchandran Plot
5.	Ekta	1. Cell-cell interactions	2. Organization of eukaryotic genome	3. Antibiotics from prokaryotes	4. Isoprenoids
6.	Ekta Nirmalkar	1. Ion pump	2. Mutagen- UV	3. Lime Disease	4. Quaternary structure of Protein
7.	Ghaneshwari Sinha	1. Regulation of Signaling Pathways	2. Interfering Gene interaction	3.Nomenclature & Bergey's Manual	4. Uncommon Amino acids
8.	Harischandra Sahu	1. Spermatogenesis	2. Retroviruses	3. Mycoplasma	4. Tertiary structure of Protein
9.	Kalpana Sahu	1. Molecular events during fertilization in animals	2. Chromatin organization	3. Pure culture technique	4. Principles of thermodynamics and living system
10.	Kiran	1. Role of G-protein coupled receptors	2. RNA viruses	3. Mode of actions of antibiotics	4. Titration curve of amino acids
11.	Kusumlata	1. Regulation of intracellular transport in ER	2. Linkage	3. Environmental factors affecting microbial growth	4. Storage lipids
12.	Manisha Sahu	1. Regulation of	2. Lod score for linkage	3. Hyperthermophilic	4. Hexose derivatives

		intracellular transport in endoplasmic reticulum	testing	archaea	
13.	Neelu	1. Cellular receptors	2. Transcriptional attenuation of trp operon	3. Antifungal antibiotics	4. Buffers in biological system
14.	Neha Chandrakar	1. Intracellular vesicular trafficking	2. Sources of variation	3. Host Parasite relationships	4. Vitamines
15.	Rashmi Hirwani	1. ER, Golgi apparatus	2. Bacterial genetic system: Transformation, Conjugation, Transduction	3. Broad-spectrum antibiotics	4. Monosaccharides
16.	Ratnawali	1. Regulation of intracellular transport in mitochondria	2. Human genetic disorders	3. Purple and green bacteria	4. Structural lipids in biological membranes
17.	Rupesh Kumar Bhoi	1. Meiosis	2. Origin of new genes	3. Virulence and Pathogenesis	4. Fatty acid metabolism
18.	Sakshi Manikpuri	1. Mitosis	2. Lac operon	3. Viruses: Structure & classification	4. Glycogen Metabolism
19.	Sandhya	1. Osmosis	2. Mutant types: lethal, conditional, biochemical	3. Nitrogen fixation	4. End group analysis
20.	Sapna Manikpuri	1. Gastrulation	2. Locating genes	3. Normal micro flora of gastrointestinal tract	4. Glycolipids
21.	Shekhar Ram Sahu	1. Lysome, Peroxisome - Structure & function	2. Sex linked inheritance	3. Environmental factors affecting microbial growth	4. Nucleotides
22.	Tanuja	1. Regulation of Cell cycle	2. Role of DNA methylation in the regulation of gene expression	3. Photosynthesis in microorganisms	4. Lipid classification
23.	Vandana Sahu	1. Oogenesis	2. Genetic system of Neurospora	3. Mycobacteria	4. Secondary & Super secondary structure of protein
24.	Varsha Dhruw	1. Embryogenesis	2. QTL mapping	3. Plague	4. Phospholipids
25.	Vedha Sahu	1. Nucleus, Nucleolus and Chromosome	2. Structural alteration of chromosome	3. Rickettsias	4. Polysaccharide-Heterpolysaccharides
26.	Veena Dhruw	1. Steps in Cell cycle	2. Hardyweinberg genetic equilibrium	3. Antibiotic and Antimicrobial agents	4. Nucleotides
27.	Vidhi Chandrakar	1. Embryonic fields	2. Polygenic inheritance	3. Normal microflora of oral	4. Ramchandran Plot

				cavity	
28.	Vinisha	1. Ribosomes, Mitochondria, Chloroplast	2. Autosomal inheritance	3. Rabies	4. Amino acid- Classification based on R group
29.	Vinita Sahu	1. Tyrosine kinase in cell signal transduction	2. Process of speciation	3. Types of toxins (Exo, Endo, Entero)	4. Plant Pigments
30.	Yamisha	1. Nuclear transport	2. Mutation: Causes and detection	3. Methanogensis and Acetogenesis	4. Amino acid-Structural features
31.	Yogita Dewangan	1. Spatial and Temporal Regulation of gene expression	2. Ploidy and their genetic implications	3. Oxidizing and Reducing Bacteria	4. Asymetric Centers and Cyclic structure of Carbohydrates
32.	Yoshita Sinha	1. Regulation of intracellular transport in Chloroplast	2. Extra chromosomal inheritance	3. Resistance to antibiotics	4. Lipids as Signals

Note:

1. There will be poster/oral/PPT presentation on the given topic based on the respective papers. The full marks will be 10 for each presentation.
2. Each student will be required to submit a brief write-up (not more than 20 pages) on his or her poster or oral presentation on or before the date of class presentation.
3. The presentation will be given as per the day and time/period mentioned in the time table. The delivery of presentation will be on first cum first serve basis.
4. The last date to deliver the presentation for this semester will be 15/11/2024.

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PRINCIPAL
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