

Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur

P.G. Department of Microbiology

M. Sc. Semester-I(2021-2022)

Microbiology Paper I

Name of Teacher –Mrs. Madhuri Walvekar

Sr No.	Name of Student	Seminar topic
1.	Aishwarya S Mohatkar	DNA sequencing
2.	Akshara A. Irkulwar	Plant Lectins: -Con A, GS4, WGA
3.	Bhagyashree K. Uikey	Reverse TCA cycle
4.	Dipti A. Charde	Membrane lipids, biosynthesis of membrane phospholipids
5.	Gauri R. Bhutad	Gametogenesis
6.	Harsha J. Poddar	Green sulphur bacterial, non-sulphur bacterial, purple phototrophic bacteria
7.	Hiteshi R. Wadibhasme	Bioluminescence
8.	Janhvi R. Zade	Steroid transformation
9.	Khushbu U. Choukiker	Concept of protein domain and motif
10.	Mansi S. Bramhankar	Salvage pathway
11.	Neha D. Mahant	Nitrogen fixation: Symbiotic, nonsymbiotic
12.	Rutika D. Kowe	Unusual structures: palindrome, inverted repeats, mirror repeats
13.	Savita B. Khandate	Cyanobacteria
14.	Shraddha P Tiwari	Purple phototrophic bacteria

15.	ShudhanshuPandharey	Oxidation of reduced sulphur compounds and Iron
16.	Siddhi S. Uplenchwar	Human Cloning & Transplantation Possibilities
17.	Tanavi W. Raut	Triplet DNA, G tetraplex, secondary structure of RNA
18.	Tanuja C. Sable	Purine and pyrimidine biosynthesis
19.	Triveni S. Pardhi	Acetate use and autotrophy
20.	Vaishnavi I. Wairagade	Nitrate reduction and Denitrification



Signature of Teacher
Mrs. Madhuri Walvekar




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Microbiology Paper II

Name of Teacher –Dr. Manpreet Kaur

Sr No.	Name of Student	Seminar topic
1.	Aishwarya S Mohatkar	Enzyme biosensors: General concept, glucose biosensor
2.	Akshara A. Irkulwar	Immobilized enzyme kinetics
3.	Bhagyashree K. Uikey	Immobilized bioreactors
4.	Dipti A. Charde	Applications of immobilized enzymes
5.	Gauri R. Bhutad	Immobilization techniques for cells
6.	Harsha J. Poddar	Significance of Michaelis-Menten equation and its transformations
7.	Hiteshi R. Wadibhasme	Mechanism of action of lysozyme and serine proteases
8.	Janhvi R. Zade	Covalent binding, entrapment, micro encapsulation, cross-linking
9.	Khushbu U. Choukiker	Mechanism of action of serine proteases
10.	Mansi S. Bramhankar	Conservtaion Biology
11.	Neha D. Mahant	Protein engineering
12.	Rutika D. Kowe	Protein: ligand binding studies: association and dissociation constants
13.	Savita B. Khandate	Co-operative ligand binding MWC or concerted model, sequential model
14.	Shraddha P Tiwari	Industrial applications of enzymes

15.	ShudhanshuPandharey	Objectives& strategies of enzyme engineering
16.	Siddhi S. Uplenchwar	Techniques for isolation and purification of enzymes
17.	Tanavi W. Raut	Methods for enzyme assays
18.	Tanuja C. Sable	Covalent Modification
19.	Triveni S. Pardhi	Feed -back inhibition
20.	Vaishnavi I. Wairagade	Allosterism: Kinetic analysis of allosteric enzymes

M. Kaur

Signature of Teacher
Dr. Manpreet Kaur



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Microbiology Paper III

Name of Teacher –Mrs. Nupur Deshmukh

Sr No.	Name of Student	Seminar topic
1.	Aishwarya S Mohatkar	Centrifugation Techniques
2.	Akshara A. Irkulwar	Agarose Gelelectrophoresis
3.	Bhagyashree K. Uikey	Electron Microscopy: SEM, TEM
4.	Dipti A. Charde	Staining Procedures
5.	Gauri R. Bhutad	Confocal Microscopy
6.	Harsha J. Poddar	Scanning Tunneling
7.	Hiteshi R. Wadibhasme	Immunoelectron Microscopy
8.	Janhvi R. Zade	WesternBlotting
9.	Khushbu U. Choukiker	Immune-electrophoresis
10.	Mansi S. Bramhankar	SouthernBlotting
11.	Neha D. Mahant	NorthernBlotting
12.	Rutika D. Kowe	FISH
13.	Savita B. Khandate	CryoelectronMicroscopy
14.	Shraddha P Tiwari	Radioimmunoassay
15.	Shudhanshu Pandharey	NMR and its biological Importance

16.	Siddhi S. Uplenchwar	Site-directed mutagenesis
17.	Tanavi W. Raut	SDS-page
18.	Tanuja C. Sable	Confocal Microscopy
19.	Triveni S. Pardhi	Diffusion Sedimentation
20.	Vaishnavi I. Wairagade	CD/ORD



Signature of Teacher
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Microbiology Paper IV

Name of Teacher –Dr. Pranita Gulhane

Sr No.	Name of Student	Seminar topic
1.	Aishwarya S Mohatkar	Mitochondria
2.	Akshara A. Irkulwar	Active and Passive transport
3.	Bhagyashree K. Uikey	ATP powered pumps
4.	Dipti A. Charde	Non-gated ion channels
5.	Gauri R. Bhutad	Cotransport bysymporters and antiporters
6.	Harsha J. Poddar	Transepithelial transport
7.	Hiteshi R. Wadibhasme	G-protein coupled receptorsand their effectors
8.	Janhvi R. Zade	Osmoregulatory pathways
9.	Khushbu U. Choukiker	Heat shock proteins
10.	Mansi S. Bramhankar	Histidine kinase pathway
11.	Neha D. Mahant	JAK-STAT pathway
12.	Rutika D. Kowe	Cytokine receptors and their mechanism
13.	Savita B. Khandate	Basic two component system
14.	Shraddha P Tiwari	Sporulation as a model of bacterial signaltransduction
15.	ShudhanshuPandharey	Mating types of yeast

16.	Siddhi S. Uplenchwar	Down regulations of pathways
17.	Tanavi W. Raut	Flow Cytometry
18.	Tanuja C. Sable	FlourescencePhotobleaching Recovery
19.	Triveni S. Pardhi	Differential Scanning Colorimetry
20.	Vaishnavi I. Wairagade	Membrane Vesicles

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