

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

P.G. Department of Microbiology

M. Sc. Semester-I (2022-2023)

Microbiology Paper I

Name of Teacher –Ms. Madhuri Walvekar

Sr No.	Name of Student	Seminar Topic
1.	Akanksha V. Meshram	DNA sequencing
2.	Ashwini D. Nandanwar	Plant Lectins: -Con A, GS4, WGA
3.	Asmita A. Wagh	Reverse TCA cycle
4.	Diksha S. Choube	Membrane lipids, biosynthesis of membrane phospholipids
5.	Janhavi D. Parbat	Gametogenesis
6.	Kaniz A. Sheikh	Green sulphur bacterial, non-sulphur bacterial, purple phototrophic bacteria
7.	Komal N.Nibrad	Bioluminescence
8.	Nimmi D. Kumbhare	Steroid transformation
9.	Nisha G. Khaparde	Concept of protein domain and motif
10.	Prachi P. Thakur	Salvage pathway
11.	Pratiksha R. Teltumde	Nitrogen fixation: Symbiotic, nonsymbiotic
12.	Rutuja R. Meshram	Unusual structures: palindrome, inverted repeats, mirror repeats
13.	Sejal U. Nilatkar	Cyanobacteria
14.	Shivani R. Vikhar	Purple phototrophic bacteria
15.	Simran V. Bode	Oxidation of reduced sulphur compounds and Iron

	Sushma D. Lihare	Human Cloning & Transplantation Possibilities
17.	Vaibhav S. Jaronde	Triplet DNA, G tetraplex, secondary structure of RNA
18.	Vaishnavi Nannaware	Purine and pyrimidine biosynthesis
19.	Vaishnavi M. Shende	Acetate use and autotrophy
20.	Vanshika A. Gandhare	Nitrate reduction and Denitrification

Ms

Signature of Teacher

Ms Madhuri Walvekar



Pranita Gulhane

Dr. Pranita Gulhane
Head of the Department

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M. Sc. Semester-I(2022-2023)

Microbiology Paper II

Name of Teacher – Dr. Manpreet Kour

Sr No.	Name of Student	Seminar Topic
1.	Akanksha V. Meshram	Enzyme biosensors: General concept, glucose biosensor
2.	Ashwini D. Nandanwar	Immobilized enzyme kinetics
3.	Asmita A. Wagh	Immobilized bioreactors
4.	Diksha S. Choube	Applications of immobilized enzymes
5.	Janhavi D. Parbat	Immobilization techniques for cells
6.	Kaniz A. Sheikh	Significance of Michaelis-Menten equation and its transformations
7.	Komal N.Nibrad	Mechanism of action of lysozyme and serine proteases
8.	Nimmi D. Kumbhare	Covalent binding, entrapment, micro encapsulation, cross-linking
9.	Nisha G. Khaparde	Mechanism of action of serine proteases
10.	Prachi P. Thakur	Conservtaion Biology
11.	Pratiksha R. Teltumde	Protein engineering
12.	Rutuja R. Meshram	Protein: ligand binding studies: association and dissociation constants
13.	Sejal U. Nilatkar	Co-operative ligand binding MWC or concerted model, sequential model
14.	Shivani R. Vikhar	Industrial applications of enzymes

16.	Sushma D. Lihare	Techniques for isolation and purification of enzymes
17.	Vaibhav S. Jaronde	Methods for enzyme assays
18.	Vaishnavi Nannaware	Covalent Modification
19.	Vaishnavi M. Shende	Feed -back inhibition
20.	Vanshika A. Gandhare	Allosterism: Kinetic analysis of allosteric enzymes

M. Kaur

Signature of Teacher

Dr. Manpreet Kaur



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Microbiology Paper III

Name of Teacher – Dr. Pranita Gulhane

Sr No.	Name of Student	Seminar Topic
1.	Akanksha V. Meshram	Centrifugation Techniques
2.	Ashwini D. Nandanwar	Agarose Gelectrophoresis
3.	Asmita A. Wagh	Electron Microscopy: SEM, TEM
4.	Diksha S. Choube	Staining Procedures
5.	Janhavi D. Parbat	Confocal Microscopy
6.	Kaniz A. Sheikh	Scanning Tunneling
7.	Komal N.Nibrad	Immunolectron Microscopy
8.	Nimmi D. Kumbhare	WesternBlotting
9.	Nisha G. Khaparde	Immune-electrophoresis
10.	Prachi P. Thakur	SouthernBlotting
11.	Pratiksha R. Teltumde	NorthernBlotting
12.	Rutuja R. Meshram	FISH
13.	Sejal U. Nilatkar	CryoelectronMicroscopy
14.	Shivani R. Vikhar	Radioimmunoassay
15.	Simran V. Bode	NMR and its biological Importance

	Sushma D. Lihare	Site-directed mutagenesis
17.	Vaibhav S. Jaronde	SDS-page
18.	Vaishnavi Nannaware	Confocal Microscopy
19.	Vaishnavi M. Shende	Diffusion Sedimentation
20.	Vanshika A. Gandhare	CD/ORD



Signature of Teacher

Dr. Pranita Gulhane



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Microbiology Paper IV

Name of Teacher – Dr. Sapna Baghel

Sr No.	Name of Student	Seminar Topic
1.	Akanksha V. Meshram	Mitochondria
2.	Ashwini D.Nandanwar	Active and Passive transport
3.	Asmita A. Wagh	ATP powered pumps
4.	Diksha S. Choube	Non-gated ion channels
5.	Janhavi D. Parbat	Cotransport bysymporters and antiporters
6.	Kaniz A. Sheikh	Transepithelial transport
7.	Komal N.Nibrad	G-protein coupled receptorsand their effectors
8.	Nimmi D. Kumbhare	Osmoregulatory pathways
9.	Nisha G. Khaparde	Heat shock proteins
10.	Prachi P. Thakur	Histidine kinase pathway
11.	Pratiksha R. Teltumde	JAK-STAT pathway
12.	Rutuja R. Meshram	Cytokine receptors and their mechanism
13.	Sejal U. Nilatkar	Basic two component system
14.	Shivani R. Vikhar	Sporulation as a model of bacterial signaltransduction
15.	Simran V. Bode	Mating types of yeast

	Sushma D. Lihare	Down regulations of pathways
17.	Vaibhav S. Jaronde	Flow Cytometry
18.	Vaishnavi Nannaware	FlourescencePhotobleaching Recovery
19.	Vaishnavi M. Shende	Differential Scanning Colorimetry
20.	Vanshika A. Gandhare	Membrane Vesicles



Signature of Teacher

Dr. Sapna Baghel



Dr. Pranita Gulhane
Head of the Department

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