

**SYMBIOSIS SCHOOL OF BIOLOGICAL SCIENCES (SSBS)
PROJECT REPORT OF BATCH -2021-23 (M.Sc. Biotechnology)**

Sr. No	PRN	Name of the Student	Project Title	Guide
1	21040342001	Aadithya Nair	Neuroprotective Activity of Rutin Conjugated with Ribonucleic Acid Against Doxorubicin-Induced Neurotoxicity in Pheochromocytoma Cells	Dr. Selvan Ravindran (Associate Professor), SSBS
2	21040342002	Aayudh Wagle	Isolation, Identification, and Molecular Characterization of Feline Coronavirus in Maharashtra, India	Dr. Santosh Koratkar (Assistant Professor), SSBS
3	21040342003	Aditi Agnihotri	Transcriptome analysis of E2A-PBX1 associated gene clusters for determination of its regulatory effects in acute lymphoblastic leukemia	Dr. Satyajeet Khare (Assistant Professor), SSBS
4	21040342004	Aditi Dixit	Evaluation of homeopathic drug Syzygium jambolanum on the oxidative stress levels of diabetic nephropathy in type II diabetic rats.	Dr. Rashmi Tupe (Associate Professor), SSBS
5	21040342006	Afreen Sait	Evaluation of hepatoprotective and rejuvenation activity of Ocimum sanctum and Curcuma longa extracts against palmitic acid induced oxidative stress in HepG2 cells.	Dr. Neetu Mishra (Professor), SSBS
6	21040342007	Shruti Amin	Association of cord blood vitamin B2 levels with cord blood transcriptome and neonatal features.	Dr. Satyajeet Khare (Assistant Professor), SSBS
7	21040342008	Animesh Maji	Extracellular Vesicles (EVs)-laden hybrid cryogel-based interpenetrating network (IPN) scaffold for improved osteogenesis in Bone Tissue Engineering.	Dr. Ganesh Ingavle (Associate Professor), SSBS
8	21040342009	Ariya Anil Nair	Evaluation of anti-inflammatory and anti-oxidant properties of various hydroethanolic and ethanolic plant extracts	Dr. Bishnudeo Roy (Assistant Professor), SSBS Dr. Rashmi Tupe (Associate Professor), SSBS
9	21040342010	Ayushi Binker	Standardization and validation of Multiplex Real-Time PCR using High-Resolution Melting Curve analysis for expedited detection of resistance against commonly used antibiotics.	Dr. Vijay Nema (ICMR-NARI, Pune)
10	21040342011	Rutuja Bhadale	Study of saturated and unsaturated fatty acids on glycation pathway in HEK-293 cells and their action in diabetic nephropathy.	Dr. Rashmi Tupe (Associate Professor), SSBS
11	21040342012	Sayali Chavan	“Deciphering the effect of pharmacological inhibition of the NF-κB pathway in mesenchymal stromal cells on the regulation of acute myeloid leukemic cells”.	Dr. Anuradha Vaidya (Director & Professor), SSBS
12	21040342014	Didhiti Agrawal	Generation of murine hybridomas producing anti-Newcastle Disease Virus-specific monoclonal antibodies	Dr. Bishnudeo Roy (Assistant Professor), SSBS Dr. Santosh Koratkar (Assistant Professor), SSBS

13	21040342015	Dwayne Heraldo Lobo	Role of persister cells in clinical isolates of <i>Klebsiella pneumoniae</i> .	Dr. Sunil Saroj (Professor), SSBS
14	21040342016	Sera Fernandes	Structure guided approach to change the substrate specificity of hDJ-1.	Dr. Rashmi Tupe (Associate Professor), SSBS
15	21040342017	Saloni Jain	In vitro assessment of immunomodulatory properties of purified E. coli specific bacteriophages	Dr. Bishnudeo Roy (Assistant Professor), SSBS Dr. Santosh Koratkar (Assistant Professor), SSBS
16	21040342018	Nidhip Joshi	Assessing the Biofilm formation ability of poultry E. coli isolates on various surfaces and assessment of the lysis ability of bacteriophages.	Dr. Santosh Koratkar (Assistant Professor), SSBS
17	21040342020	Pratikshaa Khandare	Effect of pH on growth and virulence of <i>N. meningitidis</i> in presence of extracellular polyamines.	Dr. Sunil Saroj (Professor), SSBS
18	21040342021	Pratiksha Magdum	Effect of pH change of passive biomass carrier materials on the cellular viability of bioinoculants	Dr. Om Prakash (SCCCR)
19	21040342022	Vinit Mahale	Assessment of folate overproduction in methotrexate-adapted <i>Lactiplantibacillus plantarum</i>	Dr. Dr. Ram Kulkarni (Associate Professor & Deputy Director), SSBS
20	21040342023	Madhura Mhaisane	Role of carbon sources in the antimicrobial resistance and virulence of <i>Neisseria meningitidis</i> .	Dr. Sunil Saroj (Professor), SSBS
21	21040342024	Monty Vijayvargiya	Molecular characterization of furfural and 5- hydroxymethyl furfural tolerance in <i>Lactiplantibacillus plantarum</i>	Dr. Dr. Ram Kulkarni (Associate Professor & Deputy Director), SSBS
22	21040342025	Sampada Nachane	In-vitro role of L-arginine in diabetic cardiomyopathy and associated oxidative stress	Dr. Rashmi Tupe (Associate Professor), SSBS
23	21040342028	Shreya Parmar	Study of association of sex and age with the parameters of insulin resistance in patients with type 1 diabetes	Dr. Satyajeet Khare (Assistant Professor), SSBS
24	21040342029	Purva Aditi	Biochemical assessment of ripening of Tiklya mango having longer shelf life.	Dr. Dr. Ram Kulkarni (Associate Professor & Deputy Director), SSBS
25	21040342030	Richa Kulkarni	Use of silver nanoparticles coated catheters to reduce growth of the human fungal pathogen <i>Candida albicans</i> .	Dr. Vandana Ghormade (Research Associates)

26	21040342031	Dhevang Rokkala	Synthesis, Characterization, and Biocompatibility studies of Andrographolide-loaded Cyclodextrin Nanosponges.	Dr. Selvan Ravindran (Associate Professor), SSBS
27	21040342032	Sanjana Agarwal	Evaluation of free radical scavenging activity of Psidium guajava and Carica papaya plant extracts against BPA induced oxidative stress in MIN6 cells.	Dr. Neetu Mishra (Professor), SSBS
28	21040342033	Shruti Shastry	Role of Histone Deubiquitinases (DUBs) during the Differentiation of Embryonic Stem Cells (ESCs) into the Endothelial Lineage	Dr. Prasad Pethe (Assistant Professor), SCSCR
29	21040342034	Sakshi Shinde	“The effect of Epsilon-Poly-L- lysine on antimicrobial resistance and virulence of Acinetobacter baumannii clinical isolates”	Dr. Sunil Saroj (Professor), SSBS
30	21040342035	Pushkar Shitut	Bacterial Production of Poly-gamma-Glutamic Acid Biopolymer	Dr. Mahesh Dharane Principal Scientist at NCIM
31	21040342036	Soham Banerjee	Understanding the factors regulating GRAB in Streptococcus pyogenes M3	Dr. Sunil Saroj (Professor), SSBS
32	21040342037	Swastika Jha	Effect of sub-inhibitory concentrations of cell-wall modifying antibiotics in the virulence of Streptococcus pyogenes	Dr. Sunil Saroj (Professor), SSBS
33	21040342038	Tanvi Kottat	Machine learning and statistical approaches for diagnosis of schizophrenia using molecular markers	Dr. Satyajeet Khare (Assistant Professor), SSBS
34	21040342039	Pranav Tejani	Prevalence of Verotoxic Escherichia coli O157:H7 isolates collected from Maharashtra, India in raw milk and poultry gut samples.	Dr. Santosh Koratkar (Assistant Professor), SSBS
35	21040342040	Unnati Singhania	Assessment of immunomodulatory properties of a novel bacterial L-asparaginase devoid of glutaminase activity	Dr. Bishnudeo Roy (Assistant Professor), SSBS Dr. Ejaj Pathan (Assistant Professor), SSBS
36	21040342041	Isha Vaidya	Cloning and characterisation of tannase from Lactiplantibacillus plantarum for its application in enhancing aroma of juice	Dr. Ram Kulkarni (Associate Professor & Deputy Director), SSBS
37	21040342042	Vaishali Pundir	Chitosan hydrogels for Hesperidin delivery and investigation of its neuroprotective effects on oxidative stress and apoptosis induced in a cell model	Dr. Selvan Ravindran (Associate Professor), SSBS