

SYMBIOSIS SCHOOL OF BIOLOGICAL SCIENCES (SSBS)
PROJECT REPORT BATCH -2020-22 (M.Sc. Biotechnology)

Sr. No	PRN	Name of the Student	Project: Title	Guide
1	20040342001	Agnita Roychowdhury	The role of interspecies signaling molecule on the antimicrobial resistance and virulence of ESKAPE	Dr. Sunil Saroj
2	20040342002	Ambike Aditi Sanjay	Role of AI-2 mediated quorum sensing in the regulation of stress responses and biofilm of <i>Listeria monocytogenes</i> .	Dr. Sunil Saroj
3	20040342003	Asawadekar Nishant Deepak	Non coding RNA and mRNA network for identification of Schizophrenia biomarkers	Dr. Satyajeet Khare
4	20040342004	Asmita Pramanic	Distribution and role of endophytic microorganisms in aquatic plants	Dr. Pooja Singh, SCWRM
5	20040342005	Badugu Lavanya	Investigating role of <i>Plasmodium Wss1</i> using Yeast (<i>Saccharomyces cerevisiae</i>) as a model system.	Dr. Puran Singh Sijwali, CCMB
6	20040342006	Bandiwadekar Chaitra Rajendra	Evaluation of glycation and physicochemical properties of Chitosan Based Maillard Reaction Products for improved biological applications	Dr. Rashmi Tupe
7	20040342007	Ranjika Bhattacharya	Effect of chemical pesticides on antibiotic resistance and virulence of <i>Listeria monocytogenes</i>	Dr. Sunil Saroj
8	20040342008	Bokuri Sowmya	Cardioprotective and repair activity of <i>Carica papaya</i> and <i>Psidium guajava</i> against H ₂ O ₂ induced oxidative stress in H ₂ C9 cell lines	Dr. Neetu Mishra, Coguide: Dr. Bishnudeo Roy
9	20040342009	Channey Hareet Singh	Investigating the effect of dexamethasone delivery on osteogenic differentiation of MC3T3-E1 cells in a mineralized hydrogel microenvironment	Dr. Ganesh Ingavle, SCSCR
10	20040342010	Chetan Paras Varma	Isolation, characterization, and bacteriophage sensitivity of Avian Pathogenic <i>Escherichia coli</i> isolates from colibacillosis cases from poultry	Dr. Santosh Koratkar

11	20040342011	Diksha Singh	Sustained Release of Edaravone Coated Calcium Phosphate Nanoparticles for Amyotrophic Lateral Sclerosis	Dr. Selvan Ravindran
12	20040342012	Gawade Anagha Atmaram	Adaptive Laboratory Evolution of <i>Lactiplantibacillus plantarum</i> to develop resistance towards methotrexate and trimethoprim for folic acid overproduction	Dr. Ram Kulkarni
13	20040342013	Jeena Sancheti Heerasingh	Understanding the effect of <i>luxS</i> in survival and antimicrobial resistance of <i>Streptococcus pyogenes</i>	Dr. Sunil Saroj
14	20040342014	Jha Tanya Chetnath	Bio fabrication of magnesium oxide-resveratrol-alginate nanostructure and its effect on Amyloid Fibrillation present in the Lysozyme	Dr. Selvan Ravindran
15	20040342015	Joshi Shreya Milind	Developing tolerance to diacetyl for its overproduction in <i>Lactocaseibacillus rhamnosus</i> by Adaptive Laboratory Evolution	Dr. Ram Kulkarni
16	20040342016	Katarmal Poonam Jayeshbhai	Study of immunological responses induced by novel <i>Escherichia coli</i> specific phages <i>in-vivo</i>	Dr. Bishnudeo Roy, Co-Guide: Dr. Santosh Koratkar
17	20040342017	Krittika Zutshi	Molecular Modelling, design and synthesis of phosphonate ligands targeted to hydroxyapatite	Dr. Puja Panwar Hazari, IMAS
18	20040342018	Lulla Lavanya Devendra	Assessing the independent role of microvesicles and exosomes isolated from acute myeloid leukemic cells in altering the hematopoietic supportive ability of mesenchymal stromal cells	Dr. Anuradha Vaidya
19	20040342020	Manav Malhotra	Microbiome Profiling of the Nasopharyngeal Microbiota in SARS-CoV-2 Infection	Dr. Karthik Tallapaka, CCMB
20	20040342021	Neha Mahadev Barde	Characterization of multi drug resistant <i>Escherichia coli</i> and measures of control using bacteriophages	Dr. Santosh Koratkar, Co-Guide-Dr. Sunil Saroj
21	20040342022	Pawar Shubhankar Avinash	Association of cord blood transcriptome with features in neonate at birth	Dr. Satyajeeet Khare
22	20040342023	Rahul Vats	Protein expression analysis pre and post traumatic brain injury	Dr. Puja Panwar Hazari, INMAS

23	20040342024	Rane Jija Pruthviraj	Bioactive compounds of <i>Mucuna Pruriens</i> functionalized over Fe-Mg intercalated nanostructures and its neuroprotective activity	Dr. Selvan Ravindran
24	20040342026	Rituparna Sahoo	Optimization of real-time PCR for determination of antibiotic resistance against frequently used antibiotics and its validation	DR. Vijay Nema, NARI
25	20040342027	Sail Harsha Vilas	To study the glycation modifications, physiochemical properties and bioactivity of Casein Maillard Reaction Products	Dr. Rashmi Tupe
26	20040342028	Salian Aakarsh Devdas	Phytochemical analysis and antiproliferative activity of chilies from various regions of maharashtra on Incap cell line	Dr. Neetu Mishra
27	20040342029	Sanjay V	Investigating the functional interaction between p53 and FOXO4 upon DNA damage responses.	Dr. Anandi Karumbati, inStem
28	20040342030	Sanyogita Y Phadtare	ultrasonic mediated biosynthesis of stigmaterol functionalised fe-zn hybrid nanostructures against induced oxidative stress	Dr. Selvan Ravindran
29	20040342031	Shah Prachibahen Jigneshbhai	<i>In vitro</i> assessment of anti-HIV-1 and antioxidant activity derived from <i>Carica papaya Linn</i> and <i>Psidium guajava</i> extract	Dr. Pratiksha Jadaun, NARI
30	20040342032	Shailaja Bhalerao	To investigate the effect of aldosterone along with glycation on RAGE-NRF-2 pathway in cardiac cells of diabetic mice	Dr. Rashmi Tupe, Co-Guide: Dr. Bishnudeo Roy
31	20040342033	Sharma Akanksha Vinod	Effect of inhibition of signalling through mineralocorticoid and advanced glycation end product receptors on hyperglycaemia induced immune responses in BALB/c mice	Dr. Bishnudeo Roy, Co-Guide: Dr. Rashmi Tupe
32	20040342034	Sharoni Sharma	Characterization of <i>Lactiplantibacillus plantarum</i> strains adapted to lignocellulosic growth inhibitors	Dr. Ram Kulkarni

33	20040342036	Shripad Tukaram Shinde	Fermentation of mango fruit juice by probiotic Lactiplantibacillus plantarum strains isolated from Indian foods	Dr. Ram Kulkarni
34	20040342037	Shyam Krishna	In vitro and in vivo study to understand the association between aldosterone and glycation in diabetic nephropathy	Dr. Rashmi Tupe
35	20040342039	Sushma C	Effect of limonene on biofilm and capsule formation of Klebsiella pneumoniae	Dr. Sunil Saroj
36	20040342040	Tiwari Shraddha Amarjeet	Effect of Nicotinamide on BPA mediated impaired Mitochondrial biogenesis and dynamics in the Rat Brain Hippocampus	Dr. Rajnish Kumar Chaturvedi, CSIR-IITR
37	20040342041	Tiyasa Haldar	Effect of sub-inhibitory concentrations of antibiotics on the virulence of <i>Neisseria meningitidis</i>	Dr. Sunil Saroj