

DETAILS OF SPONSORED PROJECTS - ONGOING (2020-21)

S.No.	Name of the Faculty	Emp ID	Title of Project	Whether PI/Co-PI		Funding Agency	Funding Agency type	Amount Sanctioned (INR)	Remark
				PI	Co-PI				
1	Dr Rajashree Das	638	<i>Role of Helicobacter pylori tumour necrosis factor alpha inducing protein in causing gastro duodenal diseases including gastric cancer</i>	Dr Rajashree Das	Dr Sudeep Bose, Dr Ashish Kumar Mukhopadhyaya (Co-PI)	ICMR	Government	1000000	Ongoing
2	Dr Rajpal Srivastav (INSPIRE Faculty)	300407	Exploring the role of Cdc45 and associated factors in Replisome Complex	Dr Rajpal Srivastav (INSPIRE Faculty)	Dr Chanderdeep Tandon (Mentor)	DST	Government	3500000	Ongoing
3	Dr. Deepak Ganjewala	5050	Microbial transformation of industrially and commercially important alkaloids	Dr. Deepak Ganjewala	NA	CSIR	Government	3671000	Ongoing
4	Dr Rajashree Das	638	<i>Role of gut microbiota by Metagenomics study in Gastro esophageal reflux diseases (GERD) associated with or without Helicobacter pylori infection</i>	Dr Rajashree Das	Dr Shweta Mahant	DST-SERB	Government	2943000	Ongoing
5	Dr Sudeep Bose(CO-PI)	8230	Multiple Early-stage breast cancer biomarker detection using Quantum dots on a needle shaped nanostructured gold array	Ranu Nayak (PI)	Dr Sudeep Bose(CO-PI) & Sangeeta Choudhury(CO-PI)	ICMR	Government	4300000	Ongoing

6	Dr Shoma Paul Nandi	1102	Development of commercializable herbal beta-lactamase inhibitor effective against multi-drug resistant enteric pathogens [BT/PR25553/NER/95/1250/2017]	Dr Shoma Paul Nandi	Dr Bordoloi (NEIST)	DBT-NE (Twinning Program)	Government	800000	Ongoing
7	Dr Archna Kumar	1097	Signaling mechanism in the Tri- trophic interaction between Brasicacious plants their insect pest and parasitoid of the pest	Dr Archna Kumar	NA	DST-SERB	Government	1839000	Ongoing
8	Dr Debarati Paul (Co-PI)	7039	Synthetic biology and metabolic engineering opportunities for enhanced production of biofuels through microbes. NBAIM/AMAAS/2017-20/PF/30	Ms Anju Arora (IARI)	Dr Lata (IARI) and Dr Debarati Paul (AIB)	ICAR-NBAIM (national bureau of agriculturaly important microorganisms)	Government	2219000	Ongoing
9	Dr V. Pooja	3843	Target Specific lead compound identification and validation for the production of MPI based bio-pesticides effective against pathogenic fungal strains	Dr V. Pooja	NA	AYER German	Government	560000	Ongoing
10	Dr Rachna Singh	1146	A synergistic and economical approach for treatment of pulp and paper mill effluent system using microbes and fly ash nanoparticles to achieve minimum/zero waste discharge	Dr Rachna Singh	Dr Surbhi Sinha	CPPRI, UP	Government	4275000	Ongoing

11	Dr Monika Prakash Rai	2231	Impact of Nanomaterial based Photocatalyst on Microalgae Growth and Lipid for Improved Biodiesel Production	Dr Monika Prakash Rai	Dr. Mike Clifford, Associate Prof., Faculty of Engineering, University of Nottingham, UK	Mission Innovation-DBT	Government	7870000	Ongoing
12	Dr Surbhi Sinha	300164	Application of algal polysaccharide magnetic nanocomposites for the removal of arsenic and genotoxic assessment of degraded metabolites	Dr Surbhi Sinha	Dr Rachana Singh	DST	Government	566000	Ongoing
13	Dr Kamal Rawal	303498	Building an Artificial Intelligence-based Vaccine Discovery System- Applications in Personalized Neoantigen-related Immunotherapy for treatment of Cancers.	Dr Kamal Rawal	Dr Puniti Mathur	DBT	Government	7480000	Ongoing
14	Dr Devalina Ray	301050	Transition Metal-Free Regioselective C5-Functionalization of 8-Substituted Quinolines for Synthesis and Late-Stage Derivatization of Bioactive Precursors	Dr Devalina Ray	NA	SERB	Government	4320000	Ongoing
15	Prof (Dr) Deepshikha Pande Katare	1554	Procurement of Equipment	Prof. Chanderdeep Tandon	Prof (Dr) Deepshikha Pande Katare	DST-FIST	Government	20000000	Ongoing
16	Prof (Dr) Deepshikha Pande Katare, Co-PI	1554	Identification of biomarker candidate for early diagnosis of myocardial reperfusion injury and reoccurrence centralizing GSK3 β using metanalysis	Dr Arun Kumar, AUH	Prof (Dr) Deepshikha Pande Katare, Co-PI	ICMR	Government	3000000	Ongoing
17	Dr. Tuhin Rashmi	1127	Biological significance of disease specific sialoglycosylation in triple negative Breast Cancer	Dr. Tuhin Rashmi	Dr Rajeev Kumar & Dr Navkiran Kaur	ICMR	Government	3700000	Ongoing

18	Dr Sheetal Shirodkar	6272	Validation of Gingipain proteases as a biomarker for chronic periodontitis and its fast detection by electrochemical platform	Dr Sheetal Shirodkar	Dr Rachana Sahney	DBT	Government	4350000	Ongoing
19	Dr. Biswajit Saha	14225	Bio-evaluation and Identification of Lead Molecules for Lung and Colon cancer from Selected Medicinal Plants	Dr. Biswajit Saha	Dr Subhrajit Biswas (Co-PI from AIMMSCR)	DHR-ICMR	Government	700000	Ongoing
20	Dr Kamal Rawal	303498	To evaluate the effect of homeopathic medicines on clinical features, biochemical, radiological and immunological measurements of COVID-19 patients	Dr Kamal Rawal	NA	AYUSH	Government	1000000	Ongoing
21	Dr. Sohini Singh	1318	Deciphering the role of fish pigmentation genes to understand the regulation of human melanoma using comparative transcriptomic and proteomic investigations	Dr. Sohini Singh	Dr. Pushpendra Singh, Associate Professor, The Maharaja Sayajirao University of Baroda	DHR-ICMR	Government	7330000	Ongoing
22	Dr. Priyanka Narad	3551	A hybrid Bayesian approach to address socio-economic challenges in Assisted Reproductive Techniques across Indian sub population through a web based implementation	Dr. Priyanka Narad	Dr. Abhishek Sengupta	DBT	Government	2465000	Ongoing

23	Dr Shashi Sharma	6835	Enhanced bioremediation of pesticide contaminated crop fields of Punjab using biosurfactant producing concomitant pesticide degrading microbial consortium with plant growth promoting traits	Dr Shashi Sharma	Dr Sangita Pandey (AIOA)	SERB	Government	3800000	Ongoing
24	Prof (Dr) Deepshikha Pande Katare, Co-PI	1554	Development of functionalized dual loaded herbal nano-colloidal carrier: Active targeting and repositioning of teriflunomide for synergistically enhancing role of sulphoraphane in combating triple negative breast cancer	Dr Sushma Talegaonkar, DIPSARU , New Delhi	Prof (Dr) Deepshikha Pande Katare, Co-PI	SERB	Government	6660000	Ongoing
25	Dr Riti Thapar Kapoor	2077	Public Understanding of COVID-19: Capacity Development Programme on Science & Health Communication	Dr Riti Thapar Kapoor	Dr Jugal Kishore , Safdarganj Hospital, New Delhi	DST	Government	1028000	Ongoing
26	Prof. S. N. Raina	3765	Autotetraploid induction in a critically endangered high value Himalayan medicinal plant Podophyllum hexandrum as a means of preventing extinction, mitigate climate change, colonize new ecogeographical regions and genetic improvement	Prof. S. N. Raina	Dr Kusuma Panda, Dr Sanjeev Kumar, Dr Apekshita Singh	DBT	Government	2862720	Ongoing

27	Prof. S. N. Raina	3765	Network Programme for Enrichment and update of database on Genome Related Information for Indian Spermatophyta and Archegomatae Taxa-Phase II	Prof. S. N. Raina	NA	DBT	Government	3600000	Ongoing
28	Dr Praveen Dahiya	2515	Identification and screening of essential oil from unexplored Indian traditional medicinal plants and their synergetic activity with antibiotics to overcome antibiotic resistance in methicillin-resistant Staphylococcus aureus (MRSA)	Dr Praveen Dahiya	Dr Sumedha Mohan	CST-UP	Government	1194000	Ongoing
29	Prof. S. N. Raina	3765	Appraisal of raised synthetic autotetraploid of multipurpose dioecious seabuckthorn (hippophae rhamnoides ssp turkestanica and H.salicifolia) for genetic improvement and hermaphroditism	Prof. S. N. Raina	NA	CSIR-HRDG	Government	1000333	Ongoing
30	Dr Nidhee Chaudhary	1319	Development of Novel Plant Superoxide Dismutase (SOD)-based Therapeutics against Lung Cancer	Dr Nidhee Chaudhary	NA	C-CAMP-DBT (Translation)	Government	Research Translation & Commercialization at C-CAMP & Industries	Ongoing
31	Dr Ritu Chauhan	1183	Building a Cyber Security Tool for IoT Devices: Discovering, Identifying Vulnerabilities and Propose a Solution	Dr Ritu Chauhan	NA	Ministry of Information Technology	Government	3200000	Ongoing

32	Dr Riti Thapar Kapoor	2077	An Eco-friendly Synnergistic approach for textile affluent treatment using novel microbial consortium with minimum waste discharge	Dr Riti Thapar Kapoor	Dr Rachana Singh	CST-UP	Government	1144000	Ongoing
33	Dr Rachana Sahney	2608	Structural regime characterization of alginate gels in presence of cations & its application	Dr Rachana Sahney	NA	DAE-BRNS	Government	1370000	Completed
34	Prof. Chanderdeep Tandon	13331	To study the impact of Homoeopathic Medicines on key genes and proteins controlling cell proliferation and cell death in Hormone Dependent and Independent Breast and Prostate Cancer, Amity University, Noida-reg	Dr Simran Tandon (AIMMSCR)	Prof. Chanderdeep Tandon	CCRH (Central Council for Research in Homoeopathy)	Government	4297000	Completed
35	Dr Surabhi Soni		Engineering the oleaginous yeast <i>Yarrowia lipolytica</i> to produce Limonene from lignocellulosic hydrolysates	Dr Surabhi Soni	NA	DST-SERB	Government	3300000	Transfer
36	Dr Shoma Paul	1102	Studies on role of endophytes in variation of acaricidal properties of two acaricide producing plant species NBA22/F1 and NBA18/D1 from North Eastern States	Dr Shoma Paul	NA	DBT	Government	2762000	Completed

37	Dr Reshma Rani	300003	Design and Synthesis of Selective Inhibitors of human Lactate Dehydrogenase 5 (hLDH5): Targeting the Tumor Glycolysis for Cancer Therapy	Dr Reshma Rani	NA	SERB-DST	Government	3599000	Completed
38	Dr Simran Tandon (AIMMSCR)		In vitro approaches to investigate the efficacy and mechanism of action of homoeopathic medicines against hormone dependent and Independent Breast and Prostate Cancer	Dr Simran Tandon (AIMMSCR)	Dr Chanderdeep Tandon	CCRH	Government	2941000	Completed
39	Prof. S.N. Raina	3765	Mapping Yellow Mosaic Virus (YMV) tolerance trait loci in Vigna radiata (L) Wilczek using doubled haploids	Prof. S.N. Raina	Dr Apekshita Singh/ Dr Kusuma Kumari Panda	DBT	Government	6890000	Completed
40	Dr. Kamal Rawal	303498	Building integrated pipeline for cancer genome analysis: Role of mobile genetic elements in cancers	Dr. Kamal Rawal	Dr. Sanjay Gupta	DBT	Government	2923000	Completed
41	Dr Pratima Chaudhuri	1111	Nanoparticle mediated initiatives for enhancement of recombinant Dihydrofolate Reductase protein preparation in Escherichia coli cytosol and in vitro: A Bio-	Dr Pratima Chaudhuri	Dr Neetu Singh (IIT Delhi)	DBT	Government	4289000	Completed
42	Dr Seema Bhatnaga	1110	Development of Novel Curcumin-Folate Drug conjugates for targeted delivery of Drug and Curcumin together to cancer and cancer stem cell for effective treatment	Dr B.C. Das	Dr Seema Bhatnaga	ICMR	Government	1946000	Completed

43	Dr Puniti Mathur	2050	Design, Synthesis and biological activity of noncoded amino acids containing peptides as potential activation of hepatic glucokinase: Implications in Type 2 diabetes therapy	Dr Puniti Mathur	Dr Simran Tandon	DBT-Biocare	Government	5489000	Completed
44	Dr Kumud Bala	820	Formulation of Tobacco stem Bioactive compound loaded nanoparticle for wound Healing	Dr Kumud Bala	Dr Nidhi Srivastava	SERB-DST	Government	3385000	Completed
45	Dr. Madhumita P. Ghosh	2066	Study on effect of Dopamine/Dopamine D2 agonist treatment with IGF-1 to regulate angiogenesis and normalize blood vessels in Diabetic Retinopathy	Dr. Madhumita P. Ghosh	Dr Biswarup Basu	SERB	Government	4720000	Completed
46	Dr V. Pooja	3843	An Integrated Approach for Phenotype based Identification and Target Validation of Antifungal Compounds Active against <i>Aspergillus fumigatus</i>	Dr V. Pooja	NA	SERB	Government	4251000	Completed
47	Dr Shazia Rashid (Co-PI)	7979	Assessment of human papillomavirus (HPV) infection status and genotypes among women and adolescents of Sikkim (AHPV-SGS)	Dr B.C. Das (AIMMSCR)	Dr Shazia Rashid (AIB)	ICMR	Government	2500000	Completed
48	Dr Archana Tiwari	300503	Development of diatom culture collection, segregation for nutraceuticals and application in aquaculture	Dr Archana Tiwari	Dr Neha Kapoor (Dept of Chemistry, Hindu College, DU)	DBT	Government	7056000	Completed
49	Dr Smita Sahu	257	Affordable medical devices and equipment-Priority medical Technology needs in India	Dr Smita Sahu	Dr Tarakanta Jana, CSIR-NISIR, New Delhi	DST	Government	2233000	Completed

50	Dr Sarika Saxena	1164	Identification of specific small peptide inhibitors that bind to G-quadruplex motifs of cellular and viral protooncogenes and telomeric sequences in cancer and cancer stem cells for therapeutic intervention	Dr Sarika Saxena	Dr B. C. Das, AIMMSCR	DBT	Government	5249000	Completed
51	Dr Abha Kumari	7037	Pilot Scale Biorefinery for value Added Wealth Generation of Biogas, Lutein and Biofertilizer from Temple Flower Wastes with Zero Discharge	Dr Abha Kumari	Dr Raj Kumar Singh, DTU, Delhi	DBT	Government	7568000	Completed
52	Dr Kamal Rawal	303498	Network Systems Biology Approach for vaccine development against Chagas Disease.	Prof.Hotez	Dr. Kamal Rawal (Project Director-India)	Baylor College of Medicine (BCM-USA)	Government	4100000	Completed
53	Dr Kamal Rawal	303498	Development of Machine Learning based Drug repurposing pipeline against SARS-CoV-2 and Human proteome	Dr Kamal Rawal	NA	DST-SERB	Government	2500000	Completed
54	Dr V.Pooja	3843	Biocompatible and biopolymer based herbal coating for enhancement of shelf life of perishable fruits	Dr V.Pooja	NA	DSTs Technology enabling Center	Government	42000	Completed

Research & Fellowship from various Govt. funding agencies

S.No.	Year	Funding Agency	Project Title/Topic	PI/Student Name	Co-PI/Faculty Guide	Duration	Amount Sanctioned for Amity in Rupees Lakh	Current Status
1	2018	SRF-ICMR	Investigating the utility of microRNAs as biomarkers in obstructive sleep apnea (OSA)	Sartaj Khurana	Dr Pankaj Sharma/Dr Sudeep Bose	2 Years	45500/-Per Month	Completed
2	2018	SRF-ICMR	Clinical significance of miRNA in pediatric Cytogenetically Normal Acute Myeloid patients	Vikash Gaur	Dr Sudeep Bose	2 Years	45500/-Per Month	Completed
3	2018	JRF-CSIR	characterisation of anerobic reductase genes of bacterial microflora in patients suffering from chronic periodontitis	Geetika Sharma	Dr Sheetal Shirodkar	2 Years	32500/ per month	Working as Phd Scholar
4	2018	JRF-CSIR	Epidemiological Studies and Molecular Identification of Azole Resistant Isolates in Aspergillus species	Pooja Sen	Dr V Pooja	2 Years	32500/ per month	Working as Phd Scholar
5	2018	JRF-CSIR	Study of endophytes: Diversity in selective medical plants from different geographical regions	Pooja Singh	Dr Shoma Paul	2 Years	32500/ per month	Working as Phd Scholar
6	2018	JRF-CSIR	Studies on structural polymorphism of multi stranded nucleic acid sturctures	Nikita Kundu	Dr Sarika Saxena	2 Years	32500/ per month	Working as Phd Scholar

7	2018	JRF-CSIR	Synthesis and Characterization of Graphene Quantum Dots for Biomedical Application	Sujata Sangam	Dr Monalisha	2 Years	32500/ per month	Working as Phd Scholar
8	2018	JRF-CSIR	Studies on Therapeutic aspects of Higher Order DNA structures	Taniya Sharma	Dr Sarika Saxena	2 Years	32500/ per month	Working as Phd Scholar
9	2019	SRF-ICMR	Assessment of in silico in vitro and in vivo antiangiogenic activity of <i>Tinospora cardifolia</i> extracts	Nidhi Tayal	Dr Nidhi Srivastava	3 years	45500/-Per Month	Working as Phd Scholar
10	2019	SRF-ICMR	Nanoformulation of antibacterial agent from bioactive compound of <i>Valeriana wallichii</i> root against MDR strain of <i>Acinetobacter baumannii</i> ".	Manish Kumar	Dr Kumud Bala	3 years	45500/-Per Month	Working as Phd Scholar
11	2019	SRF-ICMR	"Role of Toll like receptor: TLR3 and TLR9 in Progression of Cervical Cancer".	Mohini Agarwal	Dr Kumud Bala	2 Years	45500/-Per Month	Working as Phd Scholar
12	2019-2024	ICMR	Proteome profiling of exosomes isolated from urine of kidney stone formers as biomarkers	Shumaila Bano	Prof. Chanderdeep Tandon (Mentor)	5 years	38440/- per month	Sanctioned on 19.07.2019
13	2017-22	UGC-SRF	Formulation and Characterisation of Drug-Loaded Nanocarriers for the Treatment of Parkinson's Disease	Nitu Dogra	Dr Deepshikha P Katare	5 years	40500- Per Month	Sanctioned on 13.01.2017 Onward

14	2020-23	RA-ICMR	Deciphering the host-microbe interactions for reactive arthritis utilizing in-silico approach.	Anukriti Verma	Guide: Dr Bhawna Rathi (AIB, AUUP) Co-guides: Dr Shivani Sharda (AIB, AUUP); Dr Pallavi Somvanshi (TERI School of Advanced Studies, New Delhi)	3 years	45500/-Per Month	Sanctioned on 01.02.2021
15	2020-23	SRF-ICMR	Anticancer activity of Seed Cake Extract of O. Sanctum against OSCC Cell Line and Its Tumor Suppressor Gene Analysis	Yash Sharma	Dr. Kumud Bala	3 years	45500/-Per Month	Tech Approval on 18.10.2020 Onward
16	2020-23	SRF-ICMR	Amelioration of glutamate excitotoxicity and oxidative stress induced glaucomatous neurodegeneration by vitamin E and coenzyme Q in vivo	Shikha Upreti	Dr. Madhumita P. Ghos	3 Years	45500/-Per Month	Tech Approval on 18.10.2020 Onward
17	2021	DBT-JRF		Pritika keshriyar	Dr Deepshikha P Katare	5 Years	31000/-Per Month	Tech Approval on 12.02.2021 Onward