

Extramural Research Project at School of Biotechnology

SN	Principal Investigator	Project Title	Funding Agency	Sanctioned amount	Duration	Current Status
1.	Dr. Jitendra Singh Rathore	To decipher roles of... Pseudomonas aeruginosa	ICMR	55 lakhs	2022-25	Ongoing
2.	Dr. Nagendra Singh	Structural characterization of enzymes from P. aeruginosa	ICMR	75 lakhs	2022-25	Ongoing
3.	Dr. Rekha Puria	Prototyping and engineering of Candida Auris TOR pathway in Saccharomyces for identification of potential drug targets and inhibitors	DST-SERB	61 lakhs	2022-25	Ongoing
4.	Dr. Deepali Singh	Tissue-specific suppression of susceptibility genes for wilt disease resistance in eggplant	DST-SERB	44 lakhs	2021-24	Ongoing
5.	Dr. Vikrant Nain	Development of Isothermal-PCR based rapid and portable coronavirus SARS-CoV-2 (COVID-19) detection kit	DBT-BIRAC	46 lakhs	2021-22	Ongoing
6.	Dr. Vishwas Tripathi	COVID-19 health awareness program among the top five red zone districts of western Uttar Pradesh	DST- NCSTC	1.75 lakhs	2021-24	Ongoing
7.	Dr. Deepali Singh	Host induced gene silencing (HIGS) of key pathogenicity factors in Verticillium dahliae to enhance resistance in eggplant against wilt disease	DBT	57 lakhs	2019-22	Ongoing
8.	Dr. Jai Prakash Moyal	Synergistic Therapeutic	SERB	28 lakhs	2019-22	Completed

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		Potential of All trans Retinoic Acid and VEGF towards Regeneration of Alveoli in Emphysematous Lung				
9.	Dr. Bhupendra Chaudhary	Development of Pure Lines of Indian Cotton Cultivar(s) for the Trait of <i>In Vitro</i> Regeneration	CSIR	12 lakhs	2018-21	Completed
10.	Dr. Bhupendra Chaudhary	Root-Specific Reduction of Cytokinin for Enhanced Root Growth and Drought Tolerance in oilseed mustard (<i>Brassica juncea</i> L. cv. Varuna)	SERB-DST	27 lakhs	2018-21	Completed
11.	Dr. Bhupendra Chaudhary	Introgression of Regeneration Character into Elite Indian Cotton Cultivars	CSIR	34 lakhs	2017-2020	Completed
12.	Dr. Imteyaz Qamar	Designing of agonist of Sf2.....for cancer therapy	ICMR	44 lakhs	2017-2020	Completed
13.	Dr. Jitendra Singh Rathore	Transcriptional..... <i>Xenorhabdus nematophila</i>	CSIR	30 lakhs	2016-2021	Completed
14.	Dr. Nagendra Singh	Structural characterization of SRRP508	CSIR	24 lakhs	2016-20	completed
15.	Dr. Nagendra Singh	Structure basis ofk. pneumoniae	ICMR	21 lakhs	2016-19	Completed
16.	Dr. Bhupendra Chaudhary	Target Mimicry-Based Silencing of microRNA167 Gene Family Targeting Auxin Response Factors (ARFs)' Gene Expression	DBT	58 lakhs	2015-2018	Completed

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		During Cotton Fiber Development				
17.	Dr. Nagendra Singh	Cloning expression....from P. aeruginosa	ICMR	48 lakhs	2015-18	Completed
18.	Dr. Jai Prakash Moyal	Identification of Molecular Pathways in Alveoli Regeneration in an Established Emphysematous Lung: All Trans Retinoic Acid - A Way to Novel Therapy Option	DBT	35 lakhs	2013-17	completed
19.	Dr. Vikrant Nain	High throughput design, synthesis and validation of TALENs for targeted genome engineering	DBT	86 lakhs	2013-16	Completed
20.	Dr. Savneet Kaur	Investigations on cell-intrinsic and extrinsic factors involved in age- and disease-induced senescence of endothelial progenitor cells	DST	27 lakhs		Completed
21.	Dr. Savneet Kaur	Investigations on the role of Hepatitis B virus X protein (HBx) in cancer stem cell-mediated initiation and progression of hepatocellular carcinoma	DBT	34 lakhs		completed
22.	Dr. Savneet Kaur	Contribution of angiogenesis and inflammation to fibrogenesis and regeneration in non-alcoholic fatty liver diseases	ICMR	29 lakhs		Completed

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		(NAFLD)				
23.	Dr. Vikrant Nain	Development of mega nucleases for targeted genome engineering in rice	DBT	18 lakhs	2013-16	Completed
24.	Dr Vishwas Tripathi	Molecular mechanisms of anti-cancer effect of Crocetin and its synergistic effect with Cisplatin in Smokeless Tobacco & Nicotine induced Head and Neck Cancer Cells	DST	22 lakhs	2013-16	Completed
25.	Dr. Bhupendra Chaudhary	Spatiotemporal Manipulation of Profilin Gene Family in Cotton Fiber Cells for Increased Yield and Quality	DBT	64 lakhs	2012-15	Completed
26.	Dr. Jitendra Singh Rathore	Transcriptional and fuctional..... <i>Xenorhabdus nematophila</i>	SERB-DST	26 lakhs	2012-15	Completed
27.	Dr. Rekha Puria	Identification and validation of anticancer drug targets in target of rapamycin (TOR) signaling pathway	DBT	38 lakhs	2012-16	Completed
28.	Dr. Rekha Puria	Genome scale fitness profiling of transposon mutant library for identification of novel component of Target or Rapamycin (TOR) signaling pathway	SERB-DST	21 lakhs	2012-15	Completed
29.	Dr. Siya Ram	Development of novel adsorbent for pre-concentration of the pathogens and molecular	DST	24 lakhs		Completed

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		beacon-based PCR array to enable culture-free detection for food and waterborne pathogens				
30.	Dr. Shakti Sahi	Design and evaluation of novel Beta-3 adrenoreceptor agonists for potential antidepressant activity	SERB-DST	23 lakhs	2012-15	Completed
31.	Dr. Vikrant Nain	Development of drought tolerant rice by expression of RNA chaperon gene	CSIR	17 lakhs	2012-15	Completed
32.	Dr. Shakti Sahi	Design synthesis and evaluation of potent aminopeptidase inhibitors for malarial therapy	DBT	24 lakhs	2011-14	Completed
33.	Dr. Bhupendra Chaudhary	Genetics of <i>In vitro</i> regeneration through somatic embryogenesis in cotton (<i>Gossypium hirsutum</i> L. cv. Coker 310)"	DST	16 lakhs	2010-13	Completed
34.	Dr. Jai Prakash Moyal	Therapeutic Aspect of Keratinocyte Growth Factor on Alveolar Regeneration in Emphysematous condition – Molecular Mechanism	DST	17 lakhs	2010-13	Completed
35.	Dr. Bhupendra Chaudhary	Assessment of genetic diversity.....and molecular markers	CSIR	16 lakhs	2007-10	Completed