

S. No	Title	Name of the Principal Investigator/ Co Investigator	Duration	Agency	Funding	Status
1	Studies on genetic variability in <i>Ganoderma lucidum</i> to study elite strain for commercial purposes	Dr. Savita Jandaik	2009-2012	Department of Science and Technology	₹ 14,14,000	Completed
2	Identification of substrates for <i>S. cerevisiae</i> Polo- like kinase (PLK), Cdc5 during meiotic cell division	Dr. Anuradha Sourirajan	2011-2015	Department of Biotechnology	₹ 24,02,100	Completed
3	Solar Steam Cooking	Dr. Rajesh	2012-2013	Ministry of New and Renewable Energy	₹ 45,60,192	Completed
4	Fabrication and characterization of substrate for patch antenna by using nano magneto-dielectric materials for the missile applications	Dr. Atul Thakur (PI), Dr. Preeti Thakur (Co. PI)	2012-2014	Defence Research and Development Organisation	₹ 9,90,000	Completed
5	Prevalence and Characterization of <i>Echinococcus granulosus</i> strains isolated in Himachal Pradesh	Dr. Umar Farooq	2012-2015	Indian Council of Medical Research	₹ 35,00,000	Completed
6	Identification of genes involved in the pathogenesis of <i>Rosellinia necatrix</i> causing white root rot of apple	Dr. Saurabh Kulshrestha	2012-2015	Department of Science and Technology	₹ 23,00,000	Completed
7	Nano magneto-dielectric materials for high frequency applications	Dr. Atul Thakur	2012-2015	Department of Atomic Energy	₹ 17,24,000	Completed
8	Identification and characterization of medicinal plants of North-West Himalayas with synergistic effects on traditional antibiotics to control clinical bacterial infections	Dr. Anuradha Sourirajan	2012-2016	Science and Engineering Research Board	₹ 22,70,000	Completed
9	Identification of genes conferring beneficial biofertilizer and biocontrol activities in plant-growth-promoting rhizobacteria (PGPR) for crop improvement	Dr. Adesh K Saini	2013-2016	Department of Science and Technology	₹ 23,40,000	Completed
10	Isolation & Characterization of bioactive leads from <i>Pinus</i> for prevention of osteoporotic syndrome	Dr. Rohit Goyal	2013-2016	Science and Engineering Research Board	₹ 21,30,000	Completed
11	Isolation, optimization and cloning of nitrilase of thermophilic isolate from hot springs of Himachal Pradesh and its application in mandelic acid synthesis	Dr. Amit Seth	2013-2016	Science and Engineering Research Board	₹ 17,80,000	Completed
12	Process optimization for recovery and purification of Zein and xanthophylls (resp. valuable maize proteins and pigments) and its stability application in food products	Dr. Dinesh Kumar (PI), Dr. Somesh Sharma (Co. PI)	2013-2016	Department of Biotechnology	₹ 16,20,000	Completed
13	Isolation & characterization of putative efflux pump inhibitors in mdr phenotype <i>Pseudomonas aeruginosa</i> from plant sources	Dr. Sunity Singh	2013-2016	Science and Engineering Research Board	₹ 18,00,000	Completed
14	Isolation and identification of bioactive compounds from wild mushrooms for new drug discovery	Dr. Astha Tripathi (PI), Dr Saurabh Kulshrestha (Co-PI)	2014-2017	Department of Biotechnology	₹ 15,80,000	Completed
15	Testing for the Efficacy of Functional Foods: Collaborative Development of an Assay to Determine Impacts of Foods on Antioxidant Activity	Dr. Adesh Saini	2014-2017	Department of Science and Technology	₹ 64,80,000	Completed
16	Chitosan-thiomer, sulphide and sulphonium salt particulates in arsenic Detoxification.	Dr. Kalpana Chauhan	2014-2017	Board of Research In Nuclear Sciences	₹ 23,21,000	Completed

17	Synthesis and characterization of nano-ferrites for the development of radar absorbing materials	Dr. Preeti Thakur	2014-2017	Department of Science and Technology	₹ 21,72,000	Completed
18	Isolation characterization and evaluation of endophytes of plants of Himachal Pradesh in search of some novel antitubercular molecules	Dr. Abhishek Budhiraja	2014-2017	Department of Science and Technology	₹ 20,50,000	Completed
19	Utilization of Wild Himalayan Fig for the sustainable livelihood of weaker sections of the society in mid hill region of Himachal Pradesh	Dr. Somesh Sharma (PI) & Dr. Pankaj Kumar Chauhan (Co-PI)	2014-2017	Department of Science and Technology	₹ 18,55,000	Completed
20	Identification and characterization of hypovirulence factors from <i>Rosellinia necatrix</i> causing white root rot on apple	Dr Saurabh Kulshrestha (PI), Dr Anshul Sharma (CO-PI), Dr Chandrika Attri Seth (CO-PI)	2014-2017	Department of Science and Technology	₹ 27,85,000	Completed
21	Creation of Infrastructure facilities for B.Tech (Food Technology) course	Dr. Dinesh Kumar (PI) & Dr. Somesh Sharma	2014-2017	Ministry of Food Processing Industries	₹ 73,71,000	Completed
22	Search for physics beyond standard model at hadron colliders using DZERO and compact muon solenoid (CMS) detectors	Dr. Suneel Dutt	2014-2017	Department of Science and Technology	₹ 17,79,600	Completed
23	Development of Lead free piezoelectric nanofibers via Electrospinning for piezoelectric energy harvesting	Dr. Radheshyam Rai, Dr. Rajesh Kumar	2015-2018	Defence Research and Development Organisation	₹ 26,90,000	Completed
24	Evaluation of withanolide lactones as immunomodulators to induce granulysin expression in immune cells conferring cytotoxicity towards cancerous cells.	Dr. Reena Saini (PI), Dr. Neeraj Mahindroo (Co-PI)	2015-2018	Department of Biotechnology	₹ 25,00,000	Completed
25	Development of Green campus under MNRE Scheme on Development of Solar Cities	Dr. Ranchan Chauhan (PI), Dr. Bhaskar Goyal (Co-PI), Dr. Raj Kumar (Co-PI)	2016-2017	Ministry of New and Renewable Energy	₹ 5,00,000	Completed
26	Design and application of new green adsorbents-cum-sensor for water application from industrial area of Himachal Pradesh.	Dr. Kalpana Chauhan	2016-2018	Himachal Pradesh Council for Science, Technology & Environment (HIMCOSTE)	₹ 6,00,000	Completed
27	Post-Fire Management in the Pine Forests of Indian Himalayan Region by studying, conserving and distributing culturable microbial biota to increase ecological succession and to revive forest productivity	Dr Adesh Saini	2016-2019	National Mission on Himalayan Studies	₹ 40,26,000	Completed
28	Quality Standards of Indian Medicinal Plants and Preparation of Monographs Thereon	Dr. Neeraj Mahindroo (Pi), Dr. Sameer Sapra (Co-PI), Ms. Swati Pundir (Co-PI)	2016-2019	Indian Council of Medical Research	₹ 38,34,492	Completed

29	Compact Muon Solenoid (CMS) Upgrade, Operation and utilization	Dr. Suneel Dutt	2016-2019	Department of Science and Technology	₹ 56,00,000	Completed
30	Establishment of Advanced Biological Research Facility	Dr Kamal Dev	2016-2019	Department of Science and Technology (FIST)	₹ 65,00,000	Completed
31	Characterization of licensed biomedical products including hypochlorous acid, ointments for frost bite to enhance shelf life	Dr. Neeraj Mahindroo, Dr. Deepak N. Kapoor (Co-PI)	2017-2020	Defence Research and Development Organisation	₹ 9,84,000	Completed
32	DNA biosensor for the diagnosis of Leptospirosis	Dr. Ankur Kaushal (PI), Dr. Dinesh Kumrar (Co-PI)	2017-2020	Indian Council of Medical Research	₹ 19,60,000	Completed
33	Surface fluorinated graphene-lanthanide orthovanadate nanohybrid with enhanced photocatalytic activity for water purification	Dr. Pardeep Singh	2014-2017	Department of Science and Technology	₹ 25,00,000	Completed
34	Graphitic Carbon Nitride Based Metal-Free Semiconductor Heterojunctions For Effective Photocatalytic Water Purification	Dr. Pankaj Raizada	2016-2019	Science and Engineering Research Board	₹ 29,20,000	Completed
35	Trade chain, trade pattern and value chain of 5 RET medicinal plant species namely Aconitum heterophyllum (Ateech), Saussurea lappa (Kuth), Inula racemosa (Pushkarmool), Picrorhiza kurra (Kutaki) and Pistacia integerrima (Zebrawood, Kakkarsingi)"- Reg.	Prof. Neeraj Mahindroo	2018	Himachal Pradesh State Biodiversity Board	₹ 2,50,000	Completed
36	Setting up of Food Testing Laboratory	Dr Dinesh Kumar	2018-2020	Ministry of Food Processing Industries	₹ 1,62,20,000	Completed
37	Development of cheap and safe water purification strategy using Moringa oleifera seeds for the rural population of H.P.	Dr. Sourabh Kulshreshtha	2018-2020	Himachal Pradesh Council for Science, Technology & Environment (HIMCOSTE)	₹ 6,80,000	Completed
38	Electrochemical DNA sensor for the diagnosis of Scrub Typhus	Dr. Ankur Kaushal	2018-2021	Department of Science and Technology	₹ 34,42,560	Completed
39	Technological Innovations for on-farm input generation from locally available resources for upgrading the rural villagers of Himachal Pradesh	Dr. Nitika Thakur (PI), Dr. Somesh Sharma (Co-PI)	2018-2020	Himachal Pradesh Council for Science, Technology & Environment (HIMCOSTE)	₹ 5,70,000	Completed
40	Deriving Methyl Furans from Himalayan Biomass as Sustainable Alternative to Petroleum Products	Dr. Neeraj Gupta	2018-2020	Himachal Pradesh Council for Science, Technology & Environment (HIMCOSTE)	₹ 6,00,000	Completed
41	Returning Taxus to the Forests and the People: a study in Shimla and Kullu Districts of the Indian Himalayan Region	Dr. Shankharoop Ghoshal (PI)	2019-2022	National Mission on Himalayan Studies	₹ 47,00,000	Completed

42	Understanding the evolution of bitter Taste	Dr. Aniruddha Mitra	2019-2021	Science and Engineering Research Board	₹ 15,00,000	Completed
43	Efficiency improvement of packed bed solar thermal energy storage using different fin shapes on absorber plate in solar air collector	Dr. Rajesh Kumar (PI), Dr. Anil Kumar (Co-PI)	2019-2021	Himachal Pradesh Council for Science, Technology & Environment (HIMCOSTE)	₹ 6,50,000	Completed
44	Dip Bag - A compact herbal water purifier'	Dr. Sourabh Kulshreshtha, Amanpreet Kaur	2019-2020	India Innovation growth program 2.0 University Challenge 2019	₹ 11,00,000	Completed
45	Getting insight into gut microflora of tribal population of Himachal Pradesh for probiotic use and the production of natural antimicrobial substance	Dr. Sourabh Kulshreshtha	2019-2021	National Mission on Himalayan Studies	₹ 36,41,616	Completed
46	Yoga and Naturopathy Hospital	Dr. Rohit Goyal	2019-2020	AYUSH	₹ 80,00,000	Completed
47	Carbon dots mediated imaging guided and targeted co-delivery of small anticancer molecules and siRNA for synergistic breast cancer treatment	Dr. Joydeep Das	2019-2021	Science and Engineering Research Board	₹ 25,00,872	Completed
48	Fabrication of graphitic carbon nitride based magnetic absorbent and photocatalyst for water soluble industrial effluents treatment	Dr. Pankaj Raizada	2019-2021	Himachal Pradesh Council for Science, Technology & Environment (HIMCOSTE)	₹ 3,04,000	Completed
49	Skill Vigyan Program	Dr. Saurabh Kulshreshtha	2019-2021	Department of Biotechnology	₹ 61,80,000	Completed
50	Characterization of viral and host factors of Parvovirus B19 in patients with viral myocarditis with and without dilated cardiomyopathy	Dr. Sonali Khanduja Kalra	2019-2021	Science and Engineering Research Board	₹ 15,00,000	Completed
51	What goes up must come down: Himalayan Upstream plastic waste solutions that minimize downstream marine inputs	Dr. Ashutosh Mohanty, Katie Conlon	2019-2020	National Geographic Grant	₹ 41,95,100	Completed
52	Society of Toxicology Undergraduate faculty research grant	Dr. Gurjot Kaur	2019-2020	Society of Toxicology	₹ 1,19,475	Completed
53	Assessment of phytochemicals present in Indian indigenous plants through in silico methods for Covid19 targeting and treatment	Dr. Gurjot Kaur	2020-2021	The COVID-19 High Performance Computing Consortium	₹ 1,10,820	Completed
54	Towards the development of better, safe, environment friendly filter using Moringa oleifera for the treatment of Industrial wastewater of Himachal Pradesh	Dr. Saurabh Kulshreshtha (PI), Dr. Sonali Khanduja Kalra (CO-PI)	2020-2022	Department of Environment, Science & Technology (DEST)	₹ 6,60,000	Completed
55	Tackling Pharmaceutical and Personal Care Product Pollutants in the North-Western Himalayan Region of India	Dr. Santanu Mukherjee (PI), Dr. Gurjot Kaur (Co-PI)	2021-2023	Lancaster University	₹ 9,80,599	Completed

56	Development of Novel Functional Foods for Amelioration of Oxi-Inflamm-Aging and its Pathogenesis in Progression of Inflammatory Disorders During Aging	Dr. Rohit Sharma	2021-2023	Department of Science and Technology	₹ 82,47,697	Completed
57	Photovoltaic behaviour of rare-earth doped bismuth ferrite nano fibers for potential application in perovskite solar cells	Dr. Mamta Shandilya	2021-2023	Himachal Pradesh Council for Science, Technology & Environment (HIMCOSTE)	₹ 4,90,000	Completed
58	Studies on the interaction between the anticancer drug derivatives Wikstromal, Matairesinol and Dibenzylbutyrolactol	Dr. Gururaj Kudur Jayaprakash	2021-2023	Himachal Pradesh Council for Science, Technology & Environment (HIMCOSTE)	₹ 2,80,000	Completed
59	Designing and development of microalgae based prototype for the improvement of air quality in the industrial arcs of H.P	Dr. Pradeep Kumar	2021-2023	Department of Environment, Science Technology (DEST)	₹ 4,20,000	Completed
60	Evaluation of Rapid and Nondestructive On-site Assay of Pesticide Residues by Raman Spectroscopy on the Surface of Selected Perishable Fruits and Vegetables	Dr. Santanu Mukherjee	2021-2024	Science and Engineering Research Board	₹ 29,66,520	Ongoing
61	Development and evaluation of novel formulation of active fraction from traditionally acclaimed Himalayan Plants for Asthma	Dr. Rohit Goyal	2021-2024	Science and Engineering Research Board	₹ 46,09,280	Ongoing
62	Voltammetric and conceptual density functional studies on electrocatalysis of surfactants at the graphene screen-printed graphene electrode for detection of persistent organic pollutants (Lindane and Hexabromocyclododecane) at wastewater and animal tissues	Dr. Gururaj Kudur Jayaprakash	2022-2024	Science and Engineering Research Board	₹ 15,00,000	Ongoing
63	Development of mycovirus based biological control strategy for the control of Rosellinia necatrix infecting fruit crops and Sclerotinia sclerotiorum infecting vegetable crops in the Indian Himalayan region	Dr. Saurabh Kulshrestha (PI), Dr Nitika Thakur (Co-PI), Dr. Satish Gupta (Co-P)	2022-2024	Department of Biotechnology	₹ 43,87,360	Ongoing
64	Prospecting of wild Ganoderma lucidium growing in Himachal Himalaya for hyperpresence of biomolecules and cultivation of potential strain for value added nutraceutical products.	Dr. Dinesh Kumar (PI), Dr. Rachna Verma (Co-PI)	2022-2024	Science and Engineering Research Board	₹ 30,17,404	Ongoing
65	Potency of rGO as electron transport layer to enhance the photovoltaic behavior for perovskite solar cell application.	Dr. Mamta Shandilya	2022-2025	Science and Engineering Research Board	₹ 28,01,120	Ongoing
66	Elucidating the impact and biological relevance of cellular senescence in macrophage aging and identification of mitigative nutritional immunotherapy	Dr. Rohit Sharma	2022-2024	Science and Engineering Research Board	₹ 46,00,000	Ongoing
67	Process optimization and up-scale production of lignocellulosic extremozymes from Himalayan microbes for biomass valorization/depolymerization.	Dr. Kamal Dev	2022-2024	Department of Biotechnology	₹ 63,79,240	Ongoing

68	Technology Innovation Hub	Dr. Deepak Kumar	2022-2024	iHUB DivyaSampark	₹ 20,47,000	Completed
69	Extraction of Anti-viral H1N1 Drug Precursor Shikimic Acid and Related Cyclitols from Himalayan Medicinal Plants and their Value Addition for Valuable Scaffolds	Dr. Praveen Kumar Verma	2023-2025	Himachal Pradesh Council for Science, Technology & Environment (HIMCOSTE)	₹ 6,20,000	Ongoing
70	Inclusive Technology Business Incubator (i-TBI)	Dr. Kuldeep Rojhe	2023-2026	Department of Science and Technology	₹ 4,65,88,000	Ongoing
71	DST PURSE	Dr. Saurabh Kulshreshtha	2023-2027	Department of Science and Technology	₹ 9,00,00,000	Ongoing
72	Eggshell powdered-nanocarbon (Ep-NC) impregnated mixed matrix filtration membrane development for rain water filtration using agricultural wastes	Dr. Santanu Mukherjee	2023-2025	UCSI University	₹ 7,04,030	Ongoing
73	Development and evaluation of efinaconazole loaded proposomal gel for treatment of onychomycosis	Dr. Hemlata kaurav	2024-2026	Science and Engineering Research Board	₹ 25,59,832	Ongoing
74	The development of MOFs derived g-C3N4 based heterojunction for photocatalytic removal of volatile organic compounds (VOCs)	Dr. Sunil Kumar Sharma	2024-2025	Science and Engineering Research Board	₹ 14,79,300	Ongoing
75	Establishment of BIRAC EYUVA Centre	Dr. Deepak Kumar	2024-2026	Department of Biotechnology	₹ 2,66,50,000	Ongoing