

UTTARAKHAND COUNCIL FOR BIOTECHNOLOGY (UCB)

R&D Projects running in state under the coordination of Director, UCB

S.No.	Name of PI of Address	Project Title	Released Amount (Rs.)
1.	Dr. Girish Chandra (PI) Associate Professor, Shri Guru Ram Rai University, Patel Nagar, Dehradun	Establishment of small scale hydroponics facility to increase the yield and nutrient quality of potato (<i>Solanum tuberosum</i> L) tuber	2,70,000.00 70,000.00
2.	Dr. Narendra K. Singh (PI) Professor G.B. Pant University of Agri. & Tech. Pantnagar.	Diversification and development of maize through domestication of wild alleles from teosinte	4,15,000.00 2,49,245.00
3.	Dr. Shiv Kumar Dubey (PI) Assistant Professor G.B. Pant University of Agri. & Tech., Pantnagar	Design, Synthesis, characterization, <i>in silico</i> and <i>in vitro</i> evaluation of novel curcumin analogs as adjunct drugs targeting breast cancer stem cells (CSCs)	5,05,000.00 3,32,702.00
4.	Dr. Rajesh Kumar (PI) Associate Professor, G.B. Pant University of Agri. & Tech., Pantnagar	Evaluation of population of guava hybrids (F1)	2,29,000.00 2,08,936.00
5.	Dr. Ravendra Kumar (PI) Assistant Professor, Department of Chemistry, CBSH, G.B. Pant University of Agri. & Tech., Pantnagar	<i>In vitro</i> and <i>in silico</i> Evaluation of Novel Nematicidal Biomolecules from Plants Growing in Uttarakhand	1,95,000.00 1,74,886.00
6.	Dr. Kuldip Chandra Verma (PI) Assistant Professor, G.B. Pant University of Agri. & Tech., Pantnagar	Value addition in buckwheat (<i>Fagopyrum esculentum</i> Moench) cultivars from Himalayan region for enhancement of livelihood of local farmers	3,90,000.00 3,03,989.00
7.	Dr. Lokesh Gambhir (PI) Assistant Professor, Shri Guru Ram Rai University, Dehradun	Biomining endophytic fungi for selective Nrf2:DNA complex inhibitor(s): A targeted approach for curbing breast cancer	3,60,000.00 3,45,000.00
8.	Dr. Sweta Rai (PI) Assistant Professor Department of Food Science & Technology, College of Agricultural Sciences, GBPUA&T, Pantnagar	Effect of bovine milk exosome supplementation on drug induced colitis and gut microbiota in mice	2,45,000.00
9.	Dr. Anuj Tewari (PI) Assistant Professor Department of Veterinary Microbiology, College of Veterinary & Animal Sciences, G.B.P.U.A.&T., Pantnagar	Peste des petits ruminants (PPR) surveillance and identification of candidate viral epitopes for PPRV vaccine to strengthen the goat farming avenues for farmers in Uttarakhand	370,000.00
10.	Dr. Vineeta Rathore (PI) Assistant Professor College of Agriculture G.B. Pant University of Agri. & Tech., Pantnagar	Enrichment And Vitalization of Cattle Dung Extract for Improving Crop Production and Sustaining Soil Health	1,70,000.00
11.	Dr. Pooja Saklani (PI) Associate Professor Department of Biotechnology H.N.B. Garhwal University Srinagar, Garhwal	Phytochemical Characterization of Medicinally Important Herb Delphinium Vestitum and Antimicrobial and Synthetic Dye Degradation Potential of Green Synthesized Silver Nanoparticles From it.	1,55,000.00
12.	Dr. Shivangi Chamoli (PI) Assistant Professor Department of Biotechnology Graphic Era (Deemed to be University), Dehradun	Harnessing Nature's Cleanup Crew: Bioprospecting Laccase-Producing Bacteria from Municipal Wastewater Treatment Plants in Uttarakhand for Xenobiotic Degradation	3,00,000.00
13.	Dr. Piyush Kumar (PI) Assistant Professor Allied Health Sciences School of Health Sciences & Technology University of Petroleum and Energy Studies (UPES), Dehradun	Development of flavored yogurt with indigenous Himalayan yellow berries and lactic acid bacterial strains isolated from ethnic fermented food of Uttarakhand	3,15,000.00
14.	Dr. Vinod Kumar (PI) Assistant Professor Department of Chemistry School of Sciences Uttarakhand Open University, Haldwani	Exploration of the Uttarakhand Himalayan Lichen for Tyrosine Kinase Inhibitors and Assessing Their Anticancer Efficiency to Generate Anticancer Agents	1,90,000.00

15.	Dr. Ranjana Rohilla (PI) Assistant Professor Shri Guru Ram Rai Institute of Medical & Health Sciences, Shri Guru Ram Rai University Patel Nagar, Dehradun	Epidemiology of circulating serotypes of Dengue in a tertiary care hospital and its correlation with laboratory and clinical profile	2,40,000.00
16.	Dr. Saraswati Nandan Ojha (PI) Department of Botany School of Sciences Uttarakhand Open University, Haldwani	Promotion of Industrial Potential Thymol and Carvacrol Rich Germplasm of Oregano in Central Himalayan region (CHR)	1,25,000.00
17.	Dr. Vishal Kumar Sharma (PI) Department of Physics School of Sciences Uttarakhand Open University, Haldwani	Virtual Screening of Medicinal Plants of Uttarakhand Targeting HER2 Receptor for Breast Cancer and Evaluation of Their Anticancer Efficiency	1,50,000.00
18.	Dr. Sulekha Nautiyal (PI) Professor & Head Shri Guru Ram Rai Institute of Medical & Health Sciences, Shri Guru Ram Rai University Patel Nagar, Dehradun	Implication of Sexually Transmitted Infections with regard to their influence on Female Infertility, in a tertiary care hospital of North India	2,10,000.00
19.	Dr. Pushpa Lohani (PI) Assistant Professor Department of Molecular Biology and Genetic Engg. CBSH, GBPUA&T, Pantnagar	Morpho-Physiological and biochemical characterization of tolerance traits in global collection of finger millet subjected to drought stress	2,60,000.00
20.	Dr. Narayan Singh (PI) Head Deptt. of Natural Resource Management (NRM) AAROH Village Satoli, P.O. Peora. Distt. Nainital	Cluster base Integrated Development of a Sustainable Model of Farming – As a Source of Sustainable Livelihood	2,40,000.00
21.	Dr. Maneesha Singh (PI) Professor & Head Department of Botany Shri Guru Ram Rai Institute of Medical & Health Sciences, Shri Guru Ram Rai University Patel Nagar, Dehradun	Assessment of Genetic Diversity, Conservation and Utilization of <i>Origanum vulgare</i> under agroforestry system as livelihood for farmers in Uttarakhand, India	1,55,000.00
22.	Dr. Shiv Prasad (PI) Professor and Head Department of Veterinary Gynaecology & Obstetrics G.B. Pant University of Agri. & Tech. Pantnagar & Dr. Naresh L Selokar (Co-PI) Scientist ICAR-NDRI, Karnal	Production of elite progenies of Badri cattle of the Himalayan region through cloning technology	75,70,000.00 3,00,000.00
23.	Dr. V.K. Varshney (PI) Scientist 'G' Chemistry & Bioprospecting Division Forest Research Institute, Dehradun & Dr. Sanjay Gupta (Co-PI) Swami Rama Himalayan University, Jolly Grant, Dehradun	Bioprospecting for industrial utilization of invasive weed <i>Hyptis suaveolens</i> (L) Poit	1,29,523.00 2,88,628.00 2,38,866.00 3,07,650.00
24.	Dr. M.K Nautiyal (PI) Professor Deptt. of Genetics and Plant Breeding, G.B. Pant University of A.&T., Pantnagar	To develop premier quality Basmati varieties with high scent	4,30,000.00 2,43,398.00 2,90,487.00
25.	Dr. Narotam Sharma (PI) Senior Scientist, DNA Labs-A Center for Applied Sciences, Dehradun	Development of Diagnostics Algorithm by Studying Genetic Polymorphisms and genotypic distributions in different grades of Cervical anomalies and Cancers due to Oncogenic Human Papillomaviruses (HPVs) and other etiological factors in females of Uttarakhand Population	2,35,000.00 2,55,000.00
26.	Mr. Siddharth Madhav (PI) Chief Technical Officer Techno-Hub Laboratories Dehradun	Hands-on Workshop cum Conference (EDP Program)	10,35,450.00

27.	Dr. Pallavi Joshi (PI) Assistant Professor, Graphic Era Hill University, Dehradun	Molecular Characterization of aquatic biodiversity of Uttarakhand's First Ramsar Site – "ASAN WETLAND"	185000.00 1,78,811.00
28.	Dr. Zahid Hussain (PI) Sr. Research Scientist Revita Life Sciences, Rudrapur & Dr. Kanchan Karki (Co-PI) Scientist B UCB, Haldi	Freeze-dried Platelets Rich Plasma (PRP) preparation for wound healing application	30,000.00 & 1,40,000.00
29.	Dr. M.K Nautiyal (PI) Professor Deptt. of Genetics and Plant Breeding, G.B. Pant University of A.&T., Pantnagar	Development of short duration cowpea varieties to enhance the nutritional status of hill agriculture	4,26,538.00 6,93,931.00
30.	Dr. Kuldeep Kumar (PI) Sr. Research Scientist Revita Life Sciences, Rudrapur & Dr. Kanchan Karki (Co-PI) Scientist B UCB, Haldi	Development of Biomaterial using mesenchymal stem cell culture conditioned media with Aloe vera to augment wound healing	30,000.00 & 3,20,000.00
31.	Dr. Preeti Chaturvedi (PI) Professor Biological Sciences G.B. Pant. University Agri. & Tech., Pantnagar, Uttarakhand	<i>In-vitro</i> Propagation, elicitation and <i>ex-situ</i> conservation of <i>arnesia benthamii</i> (wall ex G.Don) I.M. Johnst. - a high valued endangered medicinal plant of Uttarakhand Himalaya	1,57,000.00 2,16,983.00
32.	Dr. Disha Pant (PI) (Assistant Professor) Department of Pharmacology & Toxicology, College of Veterinary & Animal Sciences, G.B. Pant University of Agri. & Tech., Pantnagar	Ameliorative potential of Terminalia arjuna and Capsicum annuum on Freund's complete adjuvant induced rheumatoid arthritis in rats	2,20,000.00
33.	Dr. Lokesh Gambhir (PI) Assistant Professor SGRR college of basic & Applied Sciences, Shri Guru Ram Rai University, Dehradun	Isolation and Characterization of cyclooxygenase-2 inhibitor from endophytic fungi inhabiting from endangered ethnomedicinal plants of high altitude regions of Uttarakhand	2,85,000.00 3,25,000.00
34.	Dr. K.P.S. Kushwaha (PI) Professor Plant Pathology & Joint Director G.B. Pant University of Agriculture & Technology, Pantnagar-263145	Dissemination of Production Technology of Mushroom and spawn among farmers of selected villages of Gadarpur (U.S. Nagar), Uttarakhand	2,37,597.00
35.	Dr. M.K Nautiyal (PI) Professor, Genetics & Plant Breeding, G.B. Pant University of Agri. & Tech. Pantnagar	Two line hybrid rice to improve the economy of hilly agriculture (2 nd Phase)	5,80,755.00 6,89,143.00
36.	Dr. Dwarika Prasad (PI) Professor & Head Deptt. of Chemistry Shri Guru Ram Rai University, Dehradun	Formulation of bio-primer from some weeds plants of Uttarakhand as bio-corrosion inhibitors.	2,42,258.00 2,95,000.00
37.	Dr. Mamta Arya (PI) Assistant Professor Department of Zoology & Biotechnology H.N.B Garhwal University Srinagar, Garhwal	Screening and evaluation of thermophilic bacteria for the Bioremediation of heavy metals present in waste water of industrial area of Roshanabad, District Haridwar, Uttarakhand	1,98,344.00 2,20,215.00
38.	Dr. A.K. Sahani (PI) G.B. Pant National Institute of Himalayan Environment, Garhwal Regional Centre, Srinagar (Garhwal)	Cultivation and conservation of indigenous medicinal plants through technological backstopping for sustainable livelihood of Raji Tribes of Indian Central Himalaya	2,90,778.00
39.	Dr. Prashant Singh (PI) Associate Professor, DAV (PG) College Dehradun, Uttarakhand	Water safety planning of microbiological contamination for improved public drinking water sources in Dehradun and Haridwar	6,14,301.00 5,19,874.00
40.	Dr. Vijay Kant Purohit (PI) Senior Scientific Officer Department of High Altitude Plant Physiology Research Centre (HAPPRC) Hemvati Nandan Bahuguna Garhwal University (A Central University) Srinagar, Garhwal	Evaluation and standardization of applicable fast propagation techniques (biotechnological and conventional) of highly valued and high risk plant species "Inula racemosa (Pushkarmool)" and "Paris polyphylla (Satuwa)" for promotion of cultivation and conservation of the species in Higher Himalayan region of Uttarakhand.	2,42,558.00 2,32,441.00

41.	Dr. Ravi Mohan Srivastava (PI) Associate Professor Department of Entomology College of Agriculture G.B. Pant University of Agri. & Tech., Pantnagar	Molecular characterization and phylogenetic studies of white fly (<i>Bemisia tabaci</i> and <i>Trialeurodes spp.</i>) and its natural enemies together with bio-intensive pest management of vegetable crops in Uttarakhand	2,53,616.00 1,99,499.00
42.	Dr. Prashant Singh (PI) Associate Professor, DAV (PG) College Dehradun, Uttarakhand	Bioprocess Development for the Biological Removal of Iron from Subsurface Drinking Water	7,13,718.00 3,47,611.00
43.	Dr. Sushma Tamta (PI) Associate Professor Department of Botany D.S.B campus Kumaun University Nainital-263002	Hydroponics, Supplementary livelihood option for vegetables/fruits cultivation	2,67,996.00 3,03,800.00
44.	Dr. Prabhakar Semwal (PI) Assistant Professor Graphic Era Deemed to be University 566/6, Bell Road, Clement Town, Dehradun & Dr. Vijaylaxmi Trivedi (Co-PI) Assistant Professor HAPPRC Hemvati Nandan Bahuguna Garhwal University, Srinagar, Garhwal	Assessment of nutraceuticals and chemicals composition of the Himalayan spice " <i>Allium stracheyi</i> " and their micropropagation for sustainable utilization	2,65,473.00 3,07,204.00 2,24,416.00 2,53,946.00
45.	Dr. Santosh Kumar Yadav(PI) Assistant Professor Deptt. of Agronomy G.B. Pant University of Agri. & Tech., Pantnagar	Evaluation of effectiveness of Zero Budget Natural Farming inputs and prevailing organic farming practices in rice-wheat cropping systems in <i>tarai</i> region of Uttarakhand	63,510.00 2,35,396.00
46.	Dr. Naveen Kumar Navani (PI) Indian Institute of Technology, Roorkee	Development of Indigenous synbiotic beverage to boost gut health and immunity	5,47,403.00
47.	Dr. Tapan Kumar Nailwal (PI) Sr. Associate Professor Deptt. of Biotechnology Sir J.C. Bose Technical Campus Bhimtal, Kumaun University, Nainital	Green synthesis of nanoparticles from medicinal/industrial <i>Cannabis</i> species of Uttarakhand Himalayan region and establishment of its micropropagation protocol	2,80,000.00 2,75,800.00
48.	Dr. Shailaja Punetha (PI) Scientist-C Centre for Socio-Economic development G. B. Pant National Institute of Himalayan Environment, Kosi-Katarmal, Almora	Biochemical and molecular characterization of selected legume crops for identification of suitable germplasm to bridge the nutritional and yield gaps in Uttarakhand	3,13,845.00 2,17,606.00
49.	Dr. Geeta Bhandari (PI) Assistant Professor Swami Rama Himalayan University Jolly Grant, Dehradun-248016	Bio-Prospecting of Microalgae for Biomass Production and Treatment of Hospital Wastewater	2,16,718.00 3,17,443.00
50.	Dr. (Mrs) Sonu Ambwani (PI) Assistant Professor Department of Molecular Biology and Genetic Engg. CBSH, GBPUA&T, Pantnagar-263145	Evaluation of herbal immunomodulators as feed additive for improved performance in broiler	2,17,118.00 3,58,900.00
51.	Dr. Manu Pant (PI) Associate Professor Deptt. Of Life Sciences Graphic Era Deemed to be University, 566/6 Bell Road, Clement town, Dehradun	Development of production and utilization methods for cattelya orchids in Uttarakhand	2,26,304.00 2,89,559/-
52.	Dr. K.P.S. Kushwaha (PI) Professor G.B. Pant University of A.&T. Pantnagar	Dissemination of Production Technology of Mushroom Among Farmers of Selected Villages of Bhimtal block near Patwadangar, Distt. Nainital, Uttarakhand	5,47,418.00 3,41,557.00
53.	Dr. (Er.) Kishan Singh Rawat (PI) Associate Professor Geo-informatics, Civil Engineering Department, Graphic Era (Deemed to be University), 566/6, Bell Road, Society Area, Clement Town, Dehradun-248002	Modeling of aquatic environment quality of the high altitude water bodies using remote sensing data and ground information	1,38,605.00
54.	Prof. (Dr.) D.K. Singh (PI) G.B. Pant University of Agri. & Tech. Pantnagar.	Collection, Characterization and conservation of vegetable crops biodiversity of Uttarakhand	2,91,136.00

55.	Prof. (Dr.) D.K. Singh (PI) G.B. Pant University of Agri. & Tech., Pantnagar.	Studies on seed quality traits and root stock production of Kiwi plant (<i>Actinida deliciosa</i> c.v. Haward)	3,96,785.00
56.	Dr. Sanjay Gupta (PI) Professor and Head Swami Rama Himalayan University, Jolly Grant, Dehradun	Molecular and Phytochemical Characterization of Rheum sp. In Uttarakhand	2,86,400.00
57.	Dr. B.P. Nautiyal (PI) Professor and Dean College of Horticulture VCSG Uttarakhand University of Horticulture and Forestry, Bharsar	To Develop Suitable Propagation Methods, Establishment of Model Nursery and Cultivation Technology of <i>Lilium Polyphyllum</i> D.Don ex Royle (Chirkakoli): A Critically Endangered Medicinal Plant and other Wild Lily	1,63,765.00
58.	Dr. Anil Kumar Sharma (PI) Professor G.B. Pant University of Agri. & Tech., Pantnagar	Product development of bioinoculant for enhancing productivity under field conditions of Uttarakhand	3,33,262.00

In-house R&D Projects

S.N.	Name of PI of Address	Project Title	Installments Released (Rs.)
1.	Dr. Sanjay Kumar Sharma (PI) Director Uttarakhand Council for Biotechnology, Haldi & Dr. Prabhakar Semwal (Co-PI) Assistant Professor Graphic Era University, Dehradun	High Quality essential oil isolation from Uttarakhand plants, screening of their biological applications and product development.	6,55,000.00 63,282.00 2,20,000.00 70,167.00
2.	Dr. Sanjay Kumar Sharma (PI) Director Uttarakhand Council for Biotechnology, Haldi	Biotechnological Intervention to Horticulture Agriculture and Animal Husbandry Sector for Sustainable Upgradation of Uttarakhand Hilly Districts Local Farmers	11,00,000.00 5,48,206.00
3.	Dr. Sumit Purohit (PI) Scientist B Uttarakhand Council for Biotechnology Haldi	Studies on propagation of different methods for large scale multiplication of Kiwi fruit (<i>Actinidia deliciosa</i>) Uttarakhand	18,20,000.00 3,08,924.00
4.	Dr. Kanchan Karki (PI) Scientist B Uttarakhand Council for Biotechnology, Haldi & Dr. Sonu Ambhwani (Co-PI) Assistant Professor MBGE, CBSH G.B.P.U.A.&T., Pantnagar & Dr. Pooja Saklani (Co-PI) Associate Professor H.N.B. Garhwal University Srinagar, Garhwal	Development of Nanoparticle Based Herbal Products Using Invasive Plant Species	36,14,000.00 1,15,000.00 1,64,986.00 1,05,000.00 1,02,649.00
5.	Dr. Sanjay Kumar Sharma (PI) Director Uttarakhand Council for Biotechnology, Haldi & Dr. Sakshi Painuli (Co-PI) (Scientist B), UCB, Dehradun	Development of a Multilingual android application for the sustainable agriculture and animal husbandry practices for the farmers from hilly and terrain regions of Uttarakhand, India	3,45,000.00
6.	Dr. Manindra Mohan (PI) Scientist B Uttarakhand Council for Biotechnology, Haldi	Water quality assessment of River Ganga in Uttarakhand	46,60,000.00 4,64,010.00
7.	Dr. Sakshi Painuli (PI) Scientist B Uttarakhand Council for Biotechnology, Dehradun	Phytochemical and biological analysis of traditional spices used in Uttarakhand.	17,30,000.00 66,579.00

8.	Dr. Kanchan Karki (PI) Scientist B Uttarakhand Council for Biotechnology, Haldi	Phytochemical analysis of fifteen wild edible fruits of Uttarakhand	28,04,000.00 -
9	Dr. Sanjay Kumar (PI) Director, Uttarakhand Council for Biotechnology, Haldi & Dr. S.K. Singh (Co-PI) Professor Department LPM, CoVAsc. G.B. Pant University of Agri. & Tech., Pantnagar & Dr. Monika Sodhi (Co-PI) Principal Scientist ICAR – National Bureau of Animal Genetic Resources, Karnal	Elucidating positive attributes of Badri cattle and Pantja goat of Uttarakhand for their Value addition	57,88,000.00 29,97,206.00 3,59,000.00 2,63,701.00 13,00,000.00
10.	Dr. Sumit Purohit (PI) Scientist B Uttarakhand Council for Biotechnology, Haldi & Dr. Balwant Rawat (Co-PI) Associate Professor Graphic Era Hill University, Dehradun	<i>In vitro</i> propagation and large scale multiplication of some high value commercial medicinal plants (<i>Zanthoxylum. armatum</i> , <i>Saussurea costus</i> , <i>Swertia chirayita</i> , <i>Amomum</i> <i>subulatum</i>) of Western Himalaya	38,10,000.00 4,65,802.00 1,00,000.00
11.	Dr. Sumit Purohit (PI) Scientist - B/ In-charge Regional Centre, Patwadangar Uttarakhand Council for Biotechnology, Patwadangar, Nainital	Establishment of Plant Quarantine Centre for Strengthening of Regional Centre, Patwadangar, Nainital	52,30,000.00
12.	Dr. Manindra Mohan (PI) Scientist B Uttarakhand Council for Biotechnology, Haldi	Quality Evaluation and Monitoring of Soil & Air of U.S. Nagar District of Uttarakhand	13,60,000.00