

UTTARAKHAND STATE COUNCIL FOR SCIENCE & TECHNOLOGY
DEPARTMENT OF SCIENCE & TECHNOLOGY, GOVERNMENT OF UTTARAKHAND
VIGYAN DHAM Jhajra Premnagar Dehradun
Website : www.ucost.in

U-COST Sponsored R&D Projects - 2011-2012

SINo	P.I. name & Address	Project title	Amount Sanctioned (in Rs)
1	Dr H.C.S. Bisht Sr Lecturer Dept of Zoology DSB Campus Kumaun University Nainital – 263002	Bionomics and culture prospects of the Macrocrustacean (Macrobrachium sp.) of Kumaon Region of Uttarakhand including transplantation trails for better yields	306,900
2	Prof. S.C. Sati Department of Botany Kumaun University Nainital- 263002	Assessment of antimicrobial potential of some ethno-botanically known gymnosperms of Kumaun Himalaya	372,900
3	Dr M. Das Trakroo Associate Professor Fishery Hydrography Department of Fishery Hydrography College of Fisheries G.B. Pant University of Agriculture & Technology Pantnagar – 263145	Effect of feeding schedule on the growth and production of fish in carp farming	256,300
4	Dr Rakesh Kumar Reader and Head Department of Zoology LSM Government (PG) College Pithoragarh- 262501	Pharmacological evaluation of Centella asiatica and Angelica glauca for antistress/ adaptogenic activity	361,900
5	Dr Partha Roy Assistant Professor Department of Biotechnology IIT Roorkee Roorkee (UK)	Development of methods for differentiation of mouse embryonic and stem cells to insulin producing cells	242,000

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6	Dr Virendra K. Dua Scientist-F National Institute of Malaria Research Industrial Malaria Unit: Health Care Centre Sector-III, BHEL, Ranipur Haridwar-249403 (UK)	Development of plant based Immersion oil for microscopy	218,900
7	Dr Madhuri Dabral Assistant Professor Dept. of Environmental Sciences Graphic Era University 566/6, Bell Road, Clement Town Dehradun (UK)	Biomanagement of Toxic Weeds (Lantana Camara & Parthenium Hystorophorus) through Vermicomposting at varying Altitudes & its Response on Soil Fertility in Uttarakhand	266,200
8	Dr Ashish Gupta Scientist-B National Institute of Malaria Research Field Unit, Sector-III, Health Centre BHEL, Ranipur Haridwar-249403 (UK)	A remote sensing and Geographical Information System (GIS) based approach for mapping, monitoring, prediction of mosquetogenic potential and Probable determinants of malaria in district Haridwar of Uttarakhand State	213,400
9	Dr Mumtesh Kumar Saxena Assitant Professor Dept. of Veterinary Biochemistry G.B. Pant University of Agriculture & Technology Pantnagar - 263145 (UK)	Expression of recombinant adhesive protein of Pasteurella multocida and testing of its Immuno-potential	262,900
10	Dr Rekha Naithani HOD Home Science Department BGR Campus Pauri H.N.B. Garhwal Central University Pauri Garhwal (UK)	Educating adolescent girls and young women on health and hygiene related issues in district Pauri of Uttarakhand	149,600

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11	Dr Shilpi Paul Scientist-C (Molecular Biology) Biotechnological Applications G.B. Pant Institute of Himalayan Environment & Development Kosi-Katarmal Almora (UK)	Twisted chir pine in Uttarakhand: Molecular marker for early detection of 'twisted' trait at the nursery stage	279,400
12	Dr Preeti Chaturvedi Assistant Professor Department of Biological Sciences G.B. Pant University of Agriculture & Technology Pantnagar-263145 (UK)	Bioprospecting of central Himalayan bryophytes for their antimicrobial potential	273,900
13	Dr Shail Kulshrestha Assistant Professor Department of Chemistry D.B.S. (PG) College Dehradun-248001(UK)	Studies on the Estimation of the Toxic Metals present in the Water bodies and Agricultural Soils and search for possible bio-absorbents and Hyper-accumulator Plant species for their Phytoremediation	99,000
14	Dr Parul Bhatt Kotiyal Scientist 'C' Forest Soil and Land Reclamation Forest Research Institute P.O. New Forest Dehradun-248006 (UK)	Soil Quality Index (SQI) for different land uses of Tehri Garhwal district of Uttarakhand	169,400
15	Dr Shah Raj Ali Assistant Professor Department of Chemistry D.S.B. Campus, Kumaun University Nainital - 263002 (UK)	Green catalytic behaviour of nanoscaled metal hexacyanocobaltates for oxidation of cumene and cyclohexene	273,900
16	Prof. D.K. Maheshwari Ex-Dean, Faculty of Life Sciences	Isolation, identification, characterization of spore forming PGPR (Bacillus and Paenibacillus) from Himalayan soil and their	257,400

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	Department of Botany & Microbiology Gurukul Kangri University Haridwar-249404 (UK)	application in agricultural crop	
17	Dr Manjul Dhiman Head Department of Botany K.L. D.A.V. (PG) College Roorkee (UK)	Assessment of genetic fidelity and estimation of alkaloids in in vitro raised plants of Ephedra gerardiana	291,500
18	Dr Ruchira Tiwari Assistant Professor Department of Entomology College of Agriculture G.B. Pant University of Agriculture & Technology Pantnagar-263145 (UK)	Development of eco-friendly cow urine based formulations for honey bee disease management and crop protection in Uttarakhand	312,664
19	Dr Anita Sharma Associate Professor Department of Microbiology College of Basic Sciences & Humanities G.B. Pant University of Agriculture & Technology Pantnagar-263145 (UK)	Assessment and validation of biodegradation potential of indigenous bacteria/fungi and their consortia to degrade some common pesticides used in vegetable crops	273,900
20	Dr L.P. Singh Senior Scientist Department of Materials Evaluation Laboratory CSIR - Central Building Research Institute (CBRI) Roorkee - 247667 (UK)	Performance enhancement of cementitious and polymeric materials through nanotechnology	257,400
21	Dr Sandeep Arora Associate Professor Department of Molecular Biology & Genetic Engineering CBSH G.B. Pant University of	Development of nano-formulations for enhancing plant growth and productivity	257,400

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Agriculture & Technology Pantnagar - 263145 (UK)			
22	Dr Ranjana Pathania Assistant Professor Department of Biotechnology Indian Institute of Technology, Roorkee Roorkee (UK)	Development of a bacterial pesticide degrading system for bioremediation of pesticides accumulated in the local environment	246,400
23	Dr K.P. Singh Associate Professor Biophysics and Nanotechnology C.B.S.& H. G.B.Pant University of Agriculture and Technology Pantnagar-263145 (UK)	Isolation, characterization and evaluation of indigenous strains of plant growth promoting rhizobacteria for important crops of Uttarakhand	331,100
24	Dr Bipin Chandra Joshi Assistant Professor Natural Product Laboratory Department of Chemistry LSM Govt. (PG) College Pithoragarh-262502 (UK)	Green Chemistry and Natural Products	235,400
25	Dr Santosh Kumar Singh Assistant Professor Department of Biotechnology S.B.S. (PG) Institute of Biomedical Sciences and Research Balawala Dehradun (UK)	Generation of Somatic hybrids of Gold Rush (Yarshagumba) and establishment of highly efficient cell culture based Bioreactor system	240,900
26	Ms Manu Pant Assistant Professor Department of Biotechnology Graphic Era University 566/6 Bell Road -	In vitro propagation of Orchids and capacity building through macropropagation in Dehradun district of Uttarakhand	361,900

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	Clementown Dehradun (UK)		
27	Smt. Prabha Bisht Scientist-B Tissue Culture Discipline Botany Division Forest Research Institute Dehradun - 248006 (UK)	Biodiversity conservation and micropropagation of Sea Buckhorn (<i>Hippophae</i> L.) of Uttarakhand	268,400
28	Dr Vidya Dhar Pandey Associate Professor Department of Botany Pt. L.M.S. Government (PG) College Rishikesh (UK)	Assessment of potential of cyanobacterial isolates from Garhwal region for the production of phycobiliproteins	207,900
29	Dr Vipin Chandra Dhyani Asst. Professor Department of Agronomy G.B. Pant University of Agriculture & Technology Pantnagar (UK)	Morphophysiological and Biochemical characterization and mitigation of terminal heat in wheat	260,700
30	Sh.Himanshu Rai PhD Research Scholar Department of Botany Pt. L.M.S. Govt. PG College Rishikesh, Dehradun (UK)	Development of macrolichen based biomonitoring models along various habitat and land use gradients in Uttarakhand	246,400
31	Dr N.A Siddiqui Assistant Professor Department of Health Safety and Environment University of Petroleum & Energy Studies PO- Bidholi, Via Premnagar Dehradun (UK)	Assessment of occupational health, safety & environmental problems in small industries of Uttarakhand	306,900
32	Dr V.P.Uniyal Scientist-E Landscape Level Planning & Management	Ecology, Conservation and Status of House Sparrow (<i>Passer domesticus</i>) in Uttarakhand	273,900

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	Wildlife Institute of India Post Box # 18, Chandrabani Dehradun (UK)		
33	Dr D.S. Arya Associate Professor Department of Hydrology Indian Institute of Technology Roorkee Roorkee-247667 (UK)	Studying meandering and shifting behavior of the Ganges river in plains of Uttarakhand	255,200
34	Dr Deo Mani Tripathi Assistant Professor Depttment of Zoology Pt. L.M.S Govt. Post Graduate College Rishikesh Dehradun (UK)	Study on the causes of pollution and their effects on hydroecology of river Ganga at Rishikesh, Uttarakhand	240,900
35	Dr Uma Melkania Professor & Head Department of Environment Science G.B. Pant University of Agriculture and Technology Pantnagar-263145 (UK)	Effect of increased level of CO ₂ on crop productivity	246,400
36	Prof. B.L. Shah Department of Political Science & Public Administration DSB Campus Kumaun University Nainital – 263002 (UK)	Community participation in natural resource management: Capacity building of rural communities in Uttarakhand	220,000
37	Dr. Gunjan Purohit Assistant Professor Deptt. of Physics D.A.V. (P.G.) College Dehradun	Study of Parametric Instabilities and Plasma Wave Excitation at High Power Lasers	271,900

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38	Dr. Girish Chandra Joshi Professor Department of Physics HNB Garhwal University Srinagar (Garhwal)	Study of Photo Physical Processes of Fluorophores Doped in Polymers & Polymer Blends	299,400
39	Dr. Girish Kumar Sharma Professor Department of Geology Kumaun University Nainital	Neogene Radiolarian Biostratigraphy and Paleoceanography of Leg119 Site 738, Southern Indian Ocean	476,400
40	Dr. Ankush Mittal Director (Research) Graphic Era University Dehradun	Vidya Vikas: A Central Web-portal for availability of various Academic Programmes offered by Educational Institutes	597,600
41	Dr. Sunil Saini Director & Professor of Surgery Cancer Research Institute Himalayan Institute Hospital Trust Jolly Grant Dehradun	Hospital based Database for Cancer in Uttarakhand Region	670,600
42	Dr. Sunil Saini Director & Professor of Surgery Cancer Research Institute Himalayan Institute Hospital Trust Jolly Grant Dehradun	Development of Cancer Tissue Repository	418,000
43	Dr. Manju Saini Associate Professor Department of Radiology Himalayan Institute of Medical Sciences HIHT University Jolly Grant Dehradun	Magnetic Resonance molecular & functional imaging: A prognostic marker for Breast Cancer Treatment	250,000

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44	Dr. Prasoom Dwivedi Associate Professor Center of Energy Economic Research College of Management & Energy Studies University of Petroleum & Energy Studies Bidholi, Dehradun	Study of Energy Consumption Pattern of Rural Uttarakhand	857600
45	Mr. Shyam Pandey Assistant Professor (SG) College of Engineering Studies, University of Petroleum & Energy Studies, Bidholi, Dehradun	Endurance Analysis and Tribological Studies of Diesel Engines fueled with Bio-butanol, Diesel and their Blends as Alternate Fuels	353970
46	Dr. Vijaya Agarwala Professor Metallurgical and Materials Engineering Indian Institute of Technology Roorkee Roorkee	Studies on Electroless Ni-P-TiO ₂ Nanocomposite Coating for Wear and Corrosion Applications	316900
47	Dr. Meenal Gulati Assistant Engineer Chief Office, Rural Engineering Service Department Tapovan Marg, Raipur Road Dehradun	Effective and Economic Placement of Nails for Stability of In-Situ Slopes	314700
48	Dr. Mahua Mukherjee Assistant Professor Arch. and Planning Department Indian Institute of Technology Roorkee Roorkee	Surface Transformation due to Urban Dynamics in Institutional Campuses and its Environmental Impact	291700

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49	Dr. Brij Mohan Sharma Secretary Society of Pollution and Environmental Conservation Scientists (SPECS) 96/II Vasant Vihar Dehradun	To develop a Low-Cost Prototype Solar Energy Mini Generator for Home	326400
50	Dr Piyoosh Rautela Executive Director Disaster Management and Mitigation Centre 4 Subhash Road Uttarakhand Secretariat Dehradun	Dovetailing Traditional Knowledge and Climate Change Adaptation into disaster Risk Reduction to Mitigate the Wrath of Climate Induced Changes	244000
51	Dr Zulfequar Ahmad Associate Professor Deptt. of Civil Engineering Indian Institute of Technology Roorkee Roorkee	Discharge Characteristics of a Trench Weir	355400