

UTTARAKHAND STATE COUNCIL FOR SCIENCE & TECHNOLOGY

DEPARTMENT OF INFORMATION AND SCIENCE TECHNOLOGY

GOVERNMENT OF UTTARAKHAND

VIGYAN DHAM, Jhajra, Dehradun

Website :www.ucost.in

U-COST Sponsored R&D Projects : 2021-2022

S.No	PI Name & Address	Project Title	Amount Sanctioned (in ₹)
1.	Dr Nirmala Koranga Associate Professor Department of Botany D.B.S. (PG) College Dehradun (UK) Email: nirmalakoranga@yahoo.com Mob: 9411385182	Assessment of synergistic potential of secondary metabolites of invasive plant species of Garhwal Himalaya against pathogenic microbes of agricultural crops	344,000
2.	Dr Dileep Sharma Assistant Professor Department of Mathematics D.B.S. (PG) College Dehradun (UK) Email: dilip_hbti@yahoo.com Mob: 7895413690	Mathematical modelling of transmission dynamics of COVID-19 in a variable size population	70,000
3.	Dr M.C. Purohit Associate Professor, Department of Chemistry, H.N.B. Garhwal Univesity, BGR Campus, Pauri (UK) Mob: 9410925970, 7055397380 Email: mcpurohit123@gmail.com	Green synthesis of plant mediated metallic nano-particles and evaluation of their antineoplastic and other biological activities and to create awareness among the masses	342,900
4.	Dr Yogendr Bahuguna Associate Professor & HOD Department of Pharmacognosy SGRR University Patel Nagar Dehradun (UK) Mob: 9761249115 : Email: yogendr.bahuguna@gmail.com	Phytopharmaceuticals analysis based identification and comparison of tissue-cultured Zanthoxylum armatum DC (Timur) species with their wild correspondences and development of smart recommender system for cultivation in Uttarakhand Himalayan region	634,400
5.	Dr Manisha Naithani Additional Professor Department of Biochemistry All India Institute of Medical Sciences (AIIMS) Rishikesh Dehradun (UK) Mob: 8475000296 : Email: naithanimanisha@gmail.com	Study to explore Aldehyde Dehydrogenase activity in comparison with variable region of the immunoglobulin heavy chain (IGHV) gene mutation in Chronic Lymphocytic Leukemia: An observational hospital-based study at a tertiary healthcare centre in Uttarakhand	538,650
6.	Dr Alaknanda Ashok Professor & Dean College of Technology Department of Electrical Engineering G.B. Pant University of Agriculture and Technology Pantnagar US Nagar (UK) Mob: 9654414485 : Email: alakn@.rediff.com	Meta-analysis of explicit evaluation of the correlation between Yoga and Stress Management parameters	400,700
7.	Dr Ravi Kant Additional Professor and Head Department of Medicine All India Institute of Medical Sciences (AIIMS) Rishikesh, Dehradun (UK) Mob: 9870717859 : Email: ravi.med@aiimsrishikesh.edu.in	Innovative technique to cure diabetes: Encapsulated human islet cells implantation	686,200

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8.	Dr Kuldip Chandra Verma Assistant Professor Department of Biochemistry G.B. Pant University of Agriculture & Technology Pantnagar US Nagar (UK) Mob: 8968970844 Email: kcbiochem@gmail.com , kc.verma@gbpuat-cbsh.ac.in	Biochemical screening of buckwheat (<i>Fagopyrum esculentum</i>) genotypes of Uttarakhand for elite selection	476,900
9.	Dr Ajay Kumar Assistant Professor Department of Applied Science Faculty of Engineering and Technology Gurukula Kangri (deemed to be University) Haridwar (UK) Mob: 9927242988 Email: ajaykumarche@gmail.com	A study of phytochemical profiles in the essential oils of <i>Ginger (Zingiber officinale Rosc.)</i> of various altitudes of Uttarakhand	260,000
10.	Dr Kiran Meena Assistant Professor Department of Biochemistry All India Institute of Medical Sciences (AIIMS) Rishikesh Dehradun (UK) Mob: 9897536745 Email: kiranmeena2104@gmail.com	Prevalence of small intestine bacterial overgrowth (SIBO) and its risk factors in chronic pancreatitis patients: An analytical cross-sectional study	555,000
11.	Prof L.P. Purohit Head Department of Physics Gurukula Kangri Vishwavidyalaya Haridwar (UK) Mob: 7300761217 Email: lpurohit@gmail.com	Synthesis and characterization of perovskite materials for high performance solar cells	394,000
12.	Dr Rajan Arora Associate Professor Department of Applied Science & Engineering IIT Roorkee Roorkee (UP) Mob: 9760768390 Email: rajan.arora@as.iitr.ac.in	Solution of some non-linear evolution equations using homotopy analysis method	200,400
13.	Dr Harshit Pant Jugran Scientist 'C' Centre for Socio-economic Development (CSED) G.B. Pant National Institute of Himalayan Environment (GBPNIHE) Kosi-Katarmal, Almora (UK) Mob: 9557010986 Email: Harshit.pantj@gbpihed.nic.in	Demonstration and scaling up of Chir Pine leaves based bio-briquettes technology to promote environment-friendly energy for employment and income generation among rural people in Uttarakhand	441,600
14.	Dr Ankur Dumka Associate Professor, Computer Science and Engineering, Women Institute of Technology, Dehradun Mob: 9997888410 Email: ankurdumka2@gmail.com	Design and development of an IOT enabled device for monitoring mosquito prone areas in Uttarakhand based on meteorological factors to control diseases transmitted by mosquitoes	661,200
15.	Dr Vandana K Dhingra Associate Professor All India Institute of Medical Science (AIIMS), Rishikesh (UK) Mob: 9458121109	Development of a membrane-based kit to find out L1 retrotransposon activity in Oral Squamous Cell Carcinoma (OSCC)	840,500

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	Email: Vandana.numed@aiimsrishikesh.edu.in Dr Prabhat K Mandal Associate Professor, Department of Biosciences and Bioengineering, Indian Institute of Technology(IIT) Roorkee		
16.	Prof Naveen Kumar Navani Department of Biotechnology, IIT, Roorkee Mob: 7088275555 : Email: naveen.navani@bt.iitr.ac.in	In vitro screening and efficacy of plant growth promoting Rhizobacteria and biocontrol agents in selected vegetable crops to support farmers in Uttarakhand state	703,000
17.	Dr Madhur Uniyal Assistant Professor, Department of Trauma Surgery and Critical Care, All India Institute of Medical Sciences (AIIMS), Rishikesh, Dehradun (UK)- 249203. Mob: 9899214363 : Email: drmadhuruniyal@gmail.com	Isolation, Identification and therapeutic approach of River Ganga phage for difficult to treat trauma infected patients	807,250
18.	Dr Jayanti Semwal Professor and Head Department of Community Medicine Himalayan Institute of Medical Sciences SRH University Jollygrant Dehradun (UK)	Epidemiological survey of SARC-CoV-2 antibodies among general population and its association with ABO Blood typing in district Dehradun	13,84,100

