



# 11<sup>th</sup> UTTARAKHAND STATE SCIENCE AND TECHNOLOGY CONGRESS 2016-17

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Abhay Prakash Mishra	Department of Pharmaceutical Chemistry H.N.B. Garhwal University Srinagar (Garhwal) Pauri (UK)	Medical Science including Pharmaceutical Science	1	GC-MS CHARACTERIZATION OF ISOLATED FRACTIONS AND ANTIBACTERIAL POTENTIAL OF PETROLEUM ETHER EXTRACT FROM SAUSSUREA OBVALLATA	289
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Ajeet Kaur	Centre of Excellence on Forest Based Livelihood in Uttarakhand Uttarakhand State Council for Science and Technology Vigyan Dham Jhajra Dehradun (UK)	Environmental Science & Forestry	3	SOCIO-ECONOMIC IMPORTANCE OF NON-TIMBER FOREST PRODUCTS OF UTTARAKHAND	226
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Ajit Kumar	Wildlife Institute of India Chandrabani Post Box No. 18 Dehradun (UK)	Biotechnology, Biochemistry & Microbiology	2	GENETIC PERSPECTIVE ON SMALL AND ISOLATED POPULATION OF SWAMP DEER (RUCERVUS DUVAUCELII) IN JHEELMIL JHEEL CONSERVATION RESERVE, UTTARAKHAND	56
Akshit Kukreti	Department of Seed Science & Technology College of Forestry Ranichauri Tehri Garhwal (UK)	Agricultural Sciences	1	ISOLATION AND CHARACTERIZATION OF FLUORESCENT PSEUDOMONADS AND THEIR EFFECT ON PLANT GROWTH PROMOTION AND DELAY IN DROUGHT RESPONSE IN FINGER MILLET	1
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Aman Kumar	Bipin Tripathi Kumaon Institute of Technology Dwarahat Almora (UK)	Engineering Science and Technology	1	CFD ANALYSIS OF HEAT TRANSFER IN A RECTANGULAR ANNULUS USING NANOFLUIDS WITH CONSTANT HEAT FLUX BOUNDARY CONDITION	181
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Amita Yadav	Department of Agricultural Communication College of Agriculture G.B. Pant University of Agriculture & Technology Pantnagar U.S. Nagar (UK)	Agricultural Sciences	1	STRATEGY TO DEVELOP AGRI-ENTREPRENEURSHIP AMONG YOUTH FOR EMPLOYMENT GENERATION	2
Anil Kumar Shah	Department of Pharmaceutical Sciences Shri Guru Ram Rai Institute of Technology & Science Patel Nagar Dehradun (UK)	Medical Science including Pharmaceutical Science	1	DRUG UTILIZATION PATTERN ON PATIENTS WITH POLYCYSTIC OVARIAN SYNDROME DISEASE	290
Anita Kumari	Department of Pharmaceutical Sciences H.N.B. Garhwal University Srinagar Garhwal (UK)	Medical Science including Pharmaceutical Science	1	FORMULATION AND EVALUATION OF HERBAL FORMULATION OF WITHANIA SOMNIFERA FOR ANTI-OBESITY ACTIVITY	291



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Anita Rana	Department of Chemistry D.S.B. Campus Kumaun University Nainital (UK)	Chemistry	1	AMINO ACID AND ANTIOXIDENT COMPOSITION OF SOME WILD EDIBLE MEDICINAL PLANTS OF UTTARAKHAND HIMALAYAS	124
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Anjali Singh	Shri Guru Ram Rai Institute of Medical & Health Sciences Patel Nagar Dehradun (UK)	Medical Science including Pharmaceutical Science	1	RISK FACTOR FOR CHILDHOOD LEUKAEMIA	292
Ankit Kumar	Department of Horticulture G.B. Pant University of Agriculture & Technology Pantnagar U.S. Nagar (UK)	Agricultural Sciences	1	EFFICACY OF EDIBLE COATINGS ON PHYSICO-CHEMICAL QUALITY OF GUAVA (PSIDIUUM GUAJAVA L.) CV. PANT PRABHAT	3
Ankita Sawai	Department of Civil Engineering G.B. Pant University of Agriculture & Technology Pantnagar U.S. Nagar (UK)	Engineering Science and Technology	1	DAM BREAK ANALYSIS OF HARIPURA DAM, UTTARAKHAND STATE USING HEC-RAS	182
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Arjun Arora	University of Petroleum & Energy Studies (UPES) PO- Bidholi, Via Premnagar Dehradun (UK)	Mathematics; Statistics & Computer Science	1	VANET BASED REACTIVE PROTOCOL FOR TRAFFIC INFORMATION DISTRIBUTION DURING CRITICAL SCENARIOS IN UTTARAKHAND	283



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Arpit Huria	M.Sc. (Agriculture Extension and Communication) G.B. Pant University of Agriculture & Technology Pantnagar U.S. Nagar (UK)	Agricultural Sciences	1	DISCONTINUANCE OF AGRICULTURAL INNOVATIONS BY FARMERS	5
Arti Bisht	G.B. Pant National Institute of Himalayan Environment and Sustainable Development Kosi-Katarmal Almora (UK)	Biotechnology, Biochemistry & Microbiology	1	PROMOTING CONSERVATION OF BERBERIS ASIATICA THROUGH IN VITRO APPROACHES	44
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Arun Pratap Singh Rathod	Department of Electronics and Communication Engineering Graphic Era University 566/6 Bell Road, Clement town Dehradun	Innovator	4	INNOVATIVE DOUBLE SIDED ORGANIC THIN FILM TRANSISTOR (DS-OTFT) FOR FABRICATING AFFORDABLE ELECTRONIC DEVICES FOR RURAL INDIA	269
Atul Kumar	College of Basic Sciences and Humanities G.B. Pant University of Agriculture & Technology Pantnagar U.S. Nagar (UK)	Biotechnology, Biochemistry & Microbiology	3	HI-TECH PLANTING MATERIAL OF POTATO FOR UTTARAKHAND FARMERS: A SUCCESS STORY	60
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Bheem Dutt Joshi	Wildlife Institute of India Chandrabani Post Box No. 18 Dehradun (UK)	Biotechnology, Biochemistry & Microbiology	2	UTILITY OF COMPUTATIONAL METHODS IN MOLECULAR TAXONOMY: STRENGTH AND PITFALLS	57
Bhupender Kumar	S.B.S. Govt. (PG) College Rudrapur U.S. Nagar (UK)	Zoology	2	CHARACTERIZING HUMAN- TIGER CONFLICT IN CORBETT TIGER RESERVE RAMNAGAR, UTTARAKHAND	416
Bhupender Oulakh	Department of Family Resource Management College of Home Science G.B. Pant University of Agriculture & Technology Pantnagar U.S. Nagar (UK)	Science & Society/ Science Communication	1	EFFECT OF PRECISION TASK ON THE CRITICAL FLICKER FUSION FREQUENCY RATE IN WATCH ASSEMBLY WORKERS	393
Bipin Kumar Sati	Department of Biotechnology Graphic Era University 566/6 Bell Road, Clement Town Dehradun (UK)	Zoology	2	ANALYSIS OF PHYSICO-CHEMICAL PARAMETERS OF RIVER NIMMI IN DEHRADUN, UTTARAKHAND, INDIA	417
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Devvret	Department of Biotechnology Graphic Era University 566/6 Bell Road, Clement Town Dehradun (UK)	Engineering Science and Technology	1	COMPARATIVE STUDY OF PHYTOCHEMICALS AND DRUGS AVAILABLE IN MARKET FOR DESIGNING POTENTIAL HERBAL DRUG FOR THE TREATMENT OF TUBERCULOSIS	<b>185</b>
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Dinesh Chandra	Department of Biological Sciences College of Basic Sciences & Humanities G.B. Pant University of Agriculture & Technology Pantnagar U.S. Nagar (UK)	Botany	2	ENHANCED AQUAPORIN (TATIP1;1) AND HELICASE (WDH45) GENE EXPRESSION IN RESPONSE TO ACC DEAMINASE PRODUCING VARIOVORAX PARADOXUS RAA3 INOCULATION IMPROVED THE PHYSIOLOGICAL AND ANTIOXIDANT STATUS OF WHEAT UNDER RAINFED CONDITIONS	95
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Faheem Ahamad	Limnology and Ecological Modelling Lab. Department of Zoology and Environmental Sciences Gurukula Kangri University Haridwar (UK)	Environmental Science & Forestry	1	PHYSICO-CHEMICAL CHARACTERIZATION OF TREATED AND UNTREATED EFFLUENT OF AN AUTOMOBILE INDUSTRY (SIDCUL) HARIDWAR	207
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Gautam Tiwari	Shri Guru Ram Rai Institute of Medical & Health Sciences Patel Nagar Dehradun	Zoology	1	NESTED POLYMERASE CHAIN REACTION FOR THE AMPLIFICATION OF IS6110 GENE IN MYCOBACTERIUM TUBERCULOSIS COMPLEX	404
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Jyoti Shukla	Department of Biochemistry Shri Guru Ram Rai Institute of Medical & Health Sciences Patel Nagar Dehradun (UK)	Medical Science including Pharmaceutical Science	2	STUDY OF INFLAMMATORY MARKER LEVELS AND ANTIOXIDANT STATUS IN SEROPOSITIVE RHEUMATOID ARTHRITIS PATIENTS	316
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Kirti Singh	Faculty of Pharmacy DIT University Mussoorie Diversion Road Makkawala P.O Bhagwantpur Dehradun	Medical Science including Pharmaceutical Science	1	AN INNOVATIVE APPROACH FOR TERBINAFINE DELIVERY VIA TRANSUNGUAL ROUTE	299
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Kumar Nishant Chourasia	Department of Genetics and Plant Breeding G.B. Pant University of Agriculture & Technology Pantnagar U.S. Nagar	Agricultural Sciences	1	SELECTION INDICES TO KNOW THE BEST COMBINATION OF CHARACTERS FOR IMPROVING YIELD IN SOYBEAN (GLYCINE MAX (L.) MERRILL)	10
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Latika Pandey	Department of Environmental Science Kanya Gurukul Campus Gurukula Kangri University Haridwar (UK)	Environmental Science & Forestry	1	DENDROCLIMATIC ANALYSIS OF BETULA UTILIS FROM GARHWAL HIMALAYA, INDIA	209
Lavlesh	Department of Vegetable Science College of Agriculture G.B. Pant University of Agriculture & Technology Pantnagar U.S. Nagar (UK)	Agricultural Sciences	1	APPROACHES TOWARDS WEED MANAGEMENT IN POTATO (SOLANUM TUBEROSUM L.) UNDER TARAI CONDITIONS OF UTTARAKHAND	11
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Manmohan Singh Kanwal	G.B. Pant National Institute of Himalayan Environment and Sustainable Development Kosi-Katarmal Almora (UK)	Agricultural Sciences	1	NUMERICAL ASSESSMENT OF IMPACT OF BIOPHYSICAL AND SOCIAL DRIVERS ON FARM YIELDS IN CENTRAL HIMALAYA	13
Manoj K. Nailwal	Department of Chemistry DSB Camus Kumaun University Nainital (UK)	Chemistry	2	PHYTOCHEMICAL INVESTIGATION AND IN VITRO ANTIBACTERIAL ACTIVITY OF ESSENTIAL OIL FROM THE ROOTS OF SENECEO GRACILIFLORUS (WALL.) DC.	131
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Mansi	Department of Zoology & Biotechnology H.N.B. Garhwal University Srinagar (Garhwal) Pauri (UK)	Zoology	1	BIOLOGICAL MONITORING OF THE IMPACTS OF ALAKNANDA HYDROELECTRIC PROJECT SRINAGAR: BENTHIC DIATOM ASSEMBLAGES BEFORE AND AFTER DAM CONSTRUCTION AND PRESENT ECOLOGICAL STATE IN THE STRETCH BETWEEN DAM AND POWER HOUSE	406
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Mikesh H. Chevli	Health, Safety & Environment University of Petroleum & Energy Studies (UPES) PO- Bidholi, Via Premnagar Dehradun (UK)	Engineering Science and Technology	1	A NOVEL TECHNIQUE FOR IMPROVING OCCUPATIONAL SAFETY – A CONSTRUCTION INDUSTRY PERSPECTIVE	188





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Monika Gondval	Department of Botany K.L. D.A.V. (PG) College Roorkee Haridwar (UK)	Botany	1	AM FLORA ASSOCIATED WITH IMPORTANT MEDICINAL PLANTS OF MOTICHUR RANGE OF RAJAJI NATIONAL PARK, UTTARAKHAND, INDIA	84
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Mujahida Parveen	Department of Botany and Microbiology H.N.B. Garhwal University Srinagar (Garhwal) Pauri (UK)	Botany	1	IMPACT OF ANTHROPOGENIC ACTIVITIES ON FLORISTIC COMPOSITION OF NAGDEV RESERVE FOREST IN PAURI GARHWAL, UTTARAKHAND	85
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Mursalin	Amrit Group of Colleges Roorkee Road Dhanouri Haridwar (UK)	Innovator	4	EARTHQUAKE INSTRUMENT	272
Narendra Singh	Functional Nanomaterials Research Lab. Department of Physics and Center for Nanotechnology Indian Institute of Technology Roorkee Haridwar (UK)	Material Science & Nano Technology	1	RESISTIVE SWITCHING CHARACTERISTICS OF NANOCRYSTALLINE SILICON CARBIDE NITRIDE (nc-SiCN) THIN FILMS FOR NONVOLATILE MEMORY DEVICE APPLICATION	277
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Narotam Sharma	Central Molecular Research Laboratory Department of Biochemistry Shri Guru Ram Rai Institute of Medical & Health Sciences Patel Nagar Dehradun (UK)	Biotechnology, Biochemistry & Microbiology	2	APPLICATION OF MOLECULAR VIROLOGY LABORATORY FOR THE CHARACTERIZATION OF INFLUENZA A (H1N1) VIRUS IN CLINICAL ISOLATES - CLINICAL RELEVANCE FOR THE EARLY DIAGNOSIS & ITS CONTAINMENT	59
Neelam Basera	Department of Agriculture Extension and Communication G.B. Pant University of Agriculture & Technology Pantnagar U.S. Nagar (UK)	Rural Technology	1	EFFECTIVENESS OF COMMUNICATION PACKAGE FOR ENHANCING AWARENESS ON ENTREPRENEURIAL SKILLS OF WOMEN UNDER SELF HELP GROUPS	383
Neema Tufchi	Department of Biotechnology Graphic Era University 566/6 Bell Road, Clement Town Dehradun (UK)	Medical Science including Pharmaceutical Science	1	COMPUTATIONAL ANALYSIS OF SCHIZOPHRENIA WITH THEIR ASSOCIATED GENES	302
Neeraj Kumar Sharma	Department of Zoology H.N.B. Garhwal University Tehri Campus Badshahithaul Tehri Garhwal (UK)	Zoology	1	ENZYMATIC REGULATIONS RESPONSIBLE FOR SEASONAL ACCLIMATIZATION IN A COLDWATER CYPRINID BARILIUS BENDELISIS	407



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Nisha	Aromatic Extraction/RTD CSIR -Indian Institute of Petroleum Mohkampur, Haridwar Road Dehradun (UK)	Chemistry	2	DETERMINATION OF GAMA VALUES FOR ORGANIC SOLUTES IN IONIC SOLVENTS USING GAS CHROMATOGRAPH	133
Nita Garg	Department of Biochemistry Shri Guru Ram Rai Institute of Medical & Health Sciences Patel Nagar Dehradun (UK)	Medical Science including Pharmaceutical Science	3	ROLE OF CALCITRIOL AND CALCIUM LEVELS IN SUBCLINICAL HYPOTHYROIDISM	318
Nitin Baliyan	Department of Botany and Microbiology Gurukul Kangri University Haridwar (UK)	Biotechnology, Biochemistry & Microbiology	1	INVASIVE PLANT GROWTH PROMOTING ENDOPHYTIC PSEUDOMONADS IN SUSTAINABLE CULTIVATION OF CICER ARIETINUM L.	50
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Nivedita Rawat	Department of Zoology & Biotechnology H.N.B. Garhwal University Srinagar (Garhwal) Pauri (UK)	Biotechnology, Biochemistry & Microbiology	1	CONSTRUCTION AND SCREENING OF METAGENOMIC LIBRARY FOR SOME SELECTED ENZYMES AND ANALYSIS OF MICROBIAL COMMUNITY STRUCTURE OF A HOT SPRING IN UTTARAKHAND	51
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Om Prakash Tiwari	Department of Botany H.N.B. Garhwal University Srinagar (Garhwal) Pauri (UK)	Botany	1	FOREST COMPOSITION AND STRUCTURE OF SOME BROAD-LEAVED AND CONIFEROUS FORESTS IN BHAGIRATHI CATCHMENT AREA OF WESTERN HIMALAYA	86
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Pallavi Kathil	Department of Zoology Kumaun University Nainital (UK)	Zoology	3	STUDIES ON DAIRY FARMING POTENTIAL IN KUMAUN, UTTARAKHAND	423
Pankaj Kumar Singh	Department of Animal Nutrition College of Veterinary and Animal Sciences G.B. Pant University of Agriculture & Technology Pantnagar U.S. Nagar (UK)	Veterinary Sciences & Animal Husbandry	2	EFFECT OF ANTIBIOTIC GROWTH PROMOTER VIS-À-VIS PHYTOGENIC FEED ADDITIVES ON PERFORMANCE OF BROILER AND LAYING CHICKENS	399
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Pooja Dhiman	Department of Botany and Microbiology H.N.B. Garhwal University Srinagar (Garhwal) Pauri (UK)	Biotechnology, Biochemistry & Microbiology	1	COMPARATIVE STUDY OF EFFECT OF PRESCRIBED FIRE ON FUNGAL COMMUNITY IN RAJAJI NATIONAL PARK	52



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Poonam Jalal	Department of Geology Kumaun University Nainital (UK)	Earth Sciences including Geology, Geomorphology, Geophysics, Glaciology and Geography	2	FACIES AND ORIGIN OF SHALES IN THE PROTEROZOIC LESSER HIMALAYA EMPHASIS TO KUMAUN AND GARHWAL SECTOR	171
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Pradeep Singh	G.B. Pant National Institute of Himalayan Environment and Sustainable Development Kosi-Katarmal Almora (UK)	Environmental Science & Forestry	1	PHENOLOGY OF MAJOR FOREST TREE SPECIES IN THE WESTERN HIMALAYA: IMPLICATIONS UNDER CLIMATE CHANGE	211
Prajakta Surve	Department of Aerospace Engineering University of Petroleum & Energy Studies (UPES) PO- Bidholi, Via Premnagar Dehradun (UK)	Engineering Science and Technology	1	STUDY OF UAS TRAFFIC MANAGEMENT (UTM) FOR LOW ALTITUDE AIRSPACE	189
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Prasanna Kumar V	Department of Veterinary Public Health and Epidemiology C.V & A.Sc. G.B. Pant University of Agriculture & Technology Pantnagar U.S. Nagar (UK)	Veterinary Sciences & Animal Husbandry	1	PHENOTYPIC AND GENOTYPIC ANTIMICROBIAL RESISTANCE PROFILE OF SALMONELLA TYPHIMURIUM FROM DIVERSE SOURCES	398
Prateek Srivastava	Department of Aerospace Engineering University of Petroleum & Energy Studies (UPES) PO- Bidholi, Via Premnagar Dehradun (UK)	Engineering Science and Technology	1	DESIGN AND DEVELOPMENT OF VEHICLE TRACKING SYSTEM USING GPS	190
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Priyanka Maiti	Department of Botany Kumaun University S.S.J. Campus Almora (UK)	Medical Science including Pharmaceutical Science	1	IN SILICO DISCOVERY OF MULTI-TARGET INHIBITORS AGAINST LUNG CANCER FROM SAUSSUREA LAPPA	304



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Rajan Kumar Gupta	Department of Botany Government (PG) College Kotdwar Pauri (UK)	Botany	3	SCREENING AND COLONIZATION OF VAM IN ROOTS OF CAMELLIA SINENSIS IN DIFFERENT SELECTED TEA GARDEN OF DEHRADUN, UTTARAKHAND	103
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Rajinder Kaur	Department of Fisheries Resource Management College of Fisheries G.B. Pant University of Agriculture & Technology Pantnagar U.S. Nagar (UK)	Zoology	1	EFFECT OF FEEDING OF POINTED GOURD (TRICHOSANTHES DIOICA) ON SERUM PROFILE OF COMMON CARP (CYPRINUS CARPIO)	410
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Ram Krishan	Department of Botany H.N.B. Garhwal University Srinagar (Garhwal) Pauri (UK)	Botany	1	FOREST STRUCTURE, LIVE ABOVEGROUND BIOMASS AND CARBON STOCKS VARIATION ALONG AN ELEVATIONAL GRADIENT AT BHAGIRATHI CATCHMENT AREA OF GARHWAL HIMALAYA	87
Ramender Nautiyal	Department of Pharmaceutical Sciences S.B.S. (PG) Institute of Bio-Medical Sciences and Research Balawala Dehradun-248161 (UK)	Biotechnology, Biochemistry & Microbiology	1	BIODEGRADATION OF ORGANIC AND BIOCHEMICAL POLLUTANTS BY ISOLATED BACTERIAL STRAIN OF PSUEDOMONAS PUTITA FROM GOLA RIVER WATER OF NAINITAL	53
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Rashmi Sharma	Department of Agronomy G.B. Pant University of Agriculture & Technology Pantnagar U.S. Nagar (UK)	Agricultural Sciences	1	COMPARATIVE STUDY OF HYDRO PRIMING AND MAGNETIC TREATMENT ON SEED GERMINATION AND SEEDLING VIGOUR PARAMETERS OF WHEAT AND CHICKPEA SEEDS	15



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Raveendra Kumar Vidyarthi	Department of Pharmaceutical Sciences Kumaun University Bhimtal Campus Bhimtal Nainital (UK)	Medical Science including Pharmaceutical Science	1	FORMULATION AND EVALUATION OF MICROPARTICULATED GEL DRUG DELIVERY SYSTEM OF LORNOXICAM FOR THE EFFECTIVE TREATMENT OF RHEUMATOID ARTHRITIS	305
Ravi Pathak	G.B. Pant National Institute of Himalayan Environment and Sustainable Development Kosi-Katarmal Almora (UK)	Environmental Science & Forestry	1	INVASION PATTERN OF AGERATINA ADENOPHORA ALONG AN ELEVATIONAL GRADIENT IN KUMAUN HIMALAYA	213
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Ravinder Singh Aswal	Department of Chemistry D.A.V. (PG) College Dehradun (UK)	Environmental Science & Forestry	2	EVALUATION OF DRINKING WATER SOURCES OF GHENA GRAM PANCHAYAT, TEHRI USING ADVANCED MULTIVARIATE ANALYSIS	222
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Rekha Deolia	Department of Geography D.S.B. Campus, Kumaun University Nainital	Earth Sciences including Geology, Geomorphology, Geophysics, Glaciology and Geography	2	AN INVESTIGATION OF GEOMORPHIC UNITS IN PARKHA WATERSHED, UTTARAKHAND HIMALAYA	172
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Renu	Department of Geography School of Earth Sciences H.N.B. Garhwal University Srinagar (Garhwal) Pauri (UK)	Earth Sciences including Geology, Geomorphology, Geophysics, Glaciology and Geography	1	IMPACT OF GEOGRAPHICAL FACTORS ON CULTURE AND CULTURAL LANDSCAPES: AN ANALYTICAL STUDY OF GARHWAL REGION	163
Renu Gangwar	Department of Agricultural Communication College of Agriculture G.B. Pant University of Agriculture & Technology Pantnagar U.S. Nagar (UK)	Agricultural Sciences	1	DETERMINANTS OF ATTITUDE OF RURAL YOUTH REGARDING AGRICULTURE AS A MEANS OF LIVELIHOOD	16
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