

15th Uttarakhand State Science and Technology Congress 2020-21

22-24 June, 2022

Venue : Graphic Era University, Clement Town, Dehradun

Selected Abstracts

Agricultural Sciences								
Sr. No	Discipline	CT	O/P	Roll No.	Title of Abstract (all UPPER)	Author's Name (* Presenting Author)	Author's Affiliation/Organization Address (ONE ADDRESS IN ONE LINE)	Presenting Author's Email
1	Agricultural Sciences	1	O	AGR-01	STUDIES ON CROSSABILITY BARRIERS IN INTERSPECIFIC CROSSES OF PIGEONPEA [<i>CAJANUS CAJAN</i> (L.) MILLSPAUGH]	Anandi Karn*, Amit Kumar Gaur and S.K. Verma	Department of Genetics and Plant Breeding, College of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	lovely.karn5@gmail.com
2	Agricultural Sciences	1	O	AGR-02	STUDIES ON EFFICACY OF DIFFERENT PEST MANAGEMENT MODULES AGAINST INSECT PEST COMPLEX OF TOMATO	Anjali Nautiyal*, R.M. Srivastava and Poonam Srivastava	G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	anjaliiento@gmail.com
3	Agricultural Sciences	1	O	AGR-03	IMPACT OF SPACING AND NPKS MANAGEMENT ON GROWTH, YIELD AND QUALITY OF <i>OCIMUM BASILICUM</i> L. AND SUBSEQUENT RESIDUAL EFFECT ON MUSTARD CROP	Ardeep*, M.S. Negi, B.S. Mahapatra, S.T. Pandey and Jai Paul	G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	ardeepkumar4@gmail.com
4	Agricultural Sciences	1	O	AGR-04	STUDIES ON EARLY GENERATION SLECTION BASED ON GENETIC PARAMETERS IN SOYBEAN [<i>GLYCINE MAX</i> (L.) MERRILL]	Arvind Chauhan* and Kamendra Singh	Department of Genetics and Plant Breeding, College of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	arvindch1895@gmail.com
5	Agricultural Sciences	1	O	AGR-05	BIOEFFICACY EVALUATION OF DICAMBA 48%SL AGAINST BROAD LEAVED WEED FLORA OF MAIZE	Arya Kumar Sarvadmana* and Virendra Pratap Singh	Department of Agronomy, G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	aryakumar949@gmail.com
6	Agricultural Sciences	1	O	AGR-06	EVALUATION OF THE RECOMBINANT INBRED LINES (RILS) OF SORGHUM FOR THEIR DEGREE OF RESISTANCE TO SHOOT FLY (<i>ATHERIGONA SOCCATA</i> RODANI) AND TO ASSESS THE EXTENT OF VARIABILITY FOR VARIOUS MORPHOLOGICAL, YIELD AND YIELD RELATED QUALITY	Babita Bhatt*, P.K. Shrotria and P.K. Pandey	Department of Genetics and Plant Breeding, College of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	babita44379@gmail.com

					CHARACTERS ALONG WITH THEIR HERITABILITY AND GENETIC ADVANCE			
7	Agricultural Sciences	1	O	AGR-07	EFFICACY OF SUBHASH PALEKAR'S NATURAL FORMULATIONS AGAINST INSECT PEST COMPLEX OF PIGEONPEA AT PANTNAGAR, UTTARAKHAND	Bhabani Mahankuda* and Ruchira Tiwari	Department of Entomology , G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	bhabanichinu94@gmail.com
8	Agricultural Sciences	1	O	AGR-08	EFFECT OF CLIMATE CHANGE ON PRODUCTIVITY OF SCENTED AND BOLD SEEDED RICE VARIETIES USING CROP SIMULATION MODEL	Gaurav Kumar Chaturvedi*, A.S. Nain and R.K. Singh	Department of Agrometeorology, College of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	gauravc205@gmail.com
9	Agricultural Sciences	1	O	AGR-09	ASSESSMENT OF GROWTH AND YIELD OF POTATO (<i>SOLANUM TUBEROSUM</i> L.) VIA FOLIAR NUTRIENTS	Rajendra Bhatt*, Manoj Raghav, Lavlesh and Umesh Chandra Sati	Department of Vegetable Science, College of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	rbpegasus03@gmail.com
10	Agricultural Sciences	1	O	AGR-10	THE SCOPE OF TRADITIONAL HIMALAYAN AGROECOSYSTEM FOR ACHIEVING SUSTAINABLE DEVELOPMENT GOALS – A CASE STUDY OF GOVIND PASHU VIHAR	Rommila Chandra* and V.P. Uniyal	Wildlife Institute of India, Dehradun	rommilac27@gmail.com
11	Agricultural Sciences	1	O	AGR-11	QUANTIFICATION OF ABIOTIC STRESSES IN WHEAT (<i>TRITICUM AESTIVUM</i> L.) USING CROP SIMULATION MODEL, INFRARED THERMOMETRY AND LOW-ALTITUDINAL AERIAL PHOTOGRAPHY IN <i>TARA</i> REGION OF UTTARAKHAND	Shweta Pokhariyal*, Ravi Kiran and A.S. Nain	Department of Agrometeorology, G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	shwetapokhariyal9@gmail.com
12	Agricultural Sciences	1	O	AGR-12	STUDY ON EVALUATION AND SELECTION OF POTENTIAL MANAGEMENT PRACTICES AGAINST RHIZOME ROT OF GINGER UNDER FIELD CONDITIONS IN HILLS OF UTTARAKHAND.	Sonam Bhatt* and Laxmi Rawat	Department of Plant Pathology, College of Horticulture, VCSG Uttarakhand University of Horticulture and Forestry, Bharsar, Pauri Garhwal	sonamagric2015@gmail.com
13	Agricultural Sciences	1	O	AGR-13	EFFECT OF INTEGRATED USE OF ORGANIC AND CHEMICAL FERTILIZERS ON YIELD AND NUTRIENT UPTAKE IN MAIZE-WHEAT CROPPING SYSTEM	Varsha Pandey* and Ajaya Srivastava	Department of Soil Science, College of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	varshapandey.p93@gmail.com
14	Agricultural Sciences	2	O	AGR-14	COMPARISON OF MACHINE LEARNING TECHNIQUES USED TO DEVELOP PREDICTION MODELS FOR RICE AND WHEAT CROP YIELD OF UDHAM SINGH NAGAR DISTRICT	Parul Setiya*, Ajeet Singh Nain and Anurag Satpathi	Department of Agrometeorology, College of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	parul.setiya@gmail.com
15	Agricultural Sciences	2	O	AGR-15	IMPACT OF LONG TERM BALANCED FERTILIZER APPLICATION ON RICE (<i>ORYZA SATIVA</i> L) FOR ITS PRODUCTIVITY AND POTENTIAL ON SOIL	Santosh K Yadav*, D.K.Singh, Shilpi Gupta, Kirti Sharma and Yogesh Sharma	Department of Agronomy, G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	santosh.yadav87@gmail.com

16	Agricultural Sciences	2	O	AGR-16	EFFECT OF PLANTING TIME, GROWTH REGULATOR AND BIOFERTILIZER ON GROWTH, YIELD AND QUALITY OF STRAWBERRY CV. CHANDLER	Tanuja* and D.K. Rana	Department of Horticulture, HNB Garhwal University (A Central University), Srinagar Garhwal, Pauri	dimritanuja.18@gmail.com
17	Agricultural Sciences	2	O	AGR-17	HIMALAYAN PERSPECTIVE OF INDIGENOUS SEED PRESERVATION PRACTICES IN MANDAKINI VALLEY, UTTARAKHAND, INDIA	Vandana Mehrwar* ¹ , V.P. Uniyal ¹ and Vinod K. Bhatt ²	¹ Wildlife Institute of India, Dehradun ² Navdanya Biodiversity Conservation Farm, Dehradun	kvandana@wii.gov.in
18	Agricultural Sciences	1	P	AGR-18	CHARACTERIZATION AND SCREENING OF NUTRIENT MOBILIZERS FOR THEIR BIOCONTROL ACTIVITY AGAINST WILT DISEASE IN MUNGBEAN	Abha Lohani* ¹ , Navneet Pareek ¹ , Ramesh Chandra ¹ , K.P. Raverkar ¹ and K.P.S Kushwaha ²	¹ Department of Soil Science ² Department of Plant Pathology College of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	abhalohani44374@gmail.com
19	Agricultural Sciences	1	P	AGR-19	RESPONSE OF FERTIGATION SCHEDULING IN CUCUMBER (<i>CUCUMIS SATIVUS</i>) UNDER POLYHOUSE CONDITION	Abhilash Singh* ¹ , Dhirendra Singh ¹ , Lalit Bhatt ¹ , P.K. Singh ² and Poonam Gautam ³	¹ Department of Vegetable Science ² Department of Irrigation & Drainage Engineering ³ Department of Soil Science G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	abhilashsinghabhi4@gmail.com
20	Agricultural Sciences	1	P	AGR-20	HETEROSIS STUDIES FOR YIELD AND ITS COMPONENTS UNDER TWO DIFFERENT WATER REGIMES IN WHEAT (<i>TRITICUM AESTIVUM</i> L. EM. THELL)	Divya Chaudhary*, Swati and J.P. Jaiswal	Genetics and Plant Breeding, G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	divyalalpur1@gmail.com
21	Agricultural Sciences	1	P	AGR-21	FOLIAR EFFICACY OF DIFFERENT ESSENTIAL OILS FOR INSECT PESTS AND DISEASES MANAGEMENT IN <i>MENTHA ARVENSIS</i> L.	Divya*, K.T. Venkatesha, Rajendra Chandra Padalia, Rakesh Kumar Upadhyay, Dipender Kumar and Pankaj Kumar	Central Institute of Medicinal and Aromatic Plants (CSIR- CIMAP), Research Centre, Pantnagar, US Nagar	divya1708.dp@gmail.com
22	Agricultural Sciences	1	P	AGR-22	EFFECT OF INTEGRATED PHOSPHORUS MANAGEMENT ON GROWTH AND YIELD OF SUMMER SESAME (<i>SESAMUM INDICUM</i> L.)	L Peace Raising*	Department of Agronomy, College of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	peaceraising@gmail.com
23	Agricultural Sciences	1	P	AGR-23	DETERMINATION OF HETEROSIS FOR QUANTITATIVE TRAITS IN BRINJAL (<i>SOLANUM MELONGENA</i> L.) UNDER TARAI CONDITION	Leela Bhatt* and M.K. Nautiyal	G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	leelabhatt1992@gmail.com
24	Agricultural Sciences	1	P	AGR-24	STUDY OF GENETIC DIVERSITY AMONG SOYBEAN VARIETIES USING D2 ANALYSIS	Nimita Kandwal* and R.K. Panwar	Department of Genetics and Plant Breeding, College of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	nimitakandwal5@gmail.com

25	Agricultural Sciences	1	P	AGR-25	SOYBEAN: ITS AGROMORPHOLOGY AND BREEDING	Noopur Singh* ¹ , Arvind Singh Negi ² and Manu Pant ¹	¹ Department of Life Sciences, Graphic Era Deemed to Be University, Dehradun ² School of Agriculture, Graphic Era Hill University, Dehradun	noopurs1090@gmail.com
26	Agricultural Sciences	1	P	AGR-26	INFLUENCE OF PLANT GROWTH PROMOTING BIOINOCULANTS ON THE GROWTH AND QUALITY OF STRAWBERRY PLANT	Purnita Raturi*, P.N. Rai, A.K. Sharma, Ranjan Shrivastava and Jyoti Bajeli	G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	raturipoornita71195@gmail.com
27	Agricultural Sciences	1	P	AGR-27	STANDARDIZATION OF TIME AND METHODS OF PROPAGATION IN JACKFRUIT (<i>ARTOCARPUS HETEROPHYLLUS</i> L.) UNDER THE TARAI REGION OF UTTARAKHAND	Ravi Kumar*, Pratibha, Ankit Dongariyal and Shubham	Department of Horticulture, College of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	ravikumar110696@gmail.com
28	Agricultural Sciences	1	P	AGR-28	POPULATION DYNAMICS OF INSECT POPULATION OF BRINJAL	Renu Adhikari* and R.M. Srivastava	G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	renuadhikarigbpuat@gmail.com
29	Agricultural Sciences	3	P	AGR-29	ROLE OF EXTENSION COMMUNICATION PROGRAMMES IN THE DEVELOPMENT OF SERICULTURE IN THE AREA OF VIKASNAGAR UTTRAKHAND	S. Kumar* ¹ , Babu Lal ¹ , Sardar Singh ² and S. Chowdhary ³	¹ Regional Sericultural Research Station, Central Silk Board, Sahaspur, Dehradun ² Regional Sericultural Research Station, Central Silk Board, Jammu (J&K) ³ Central Sericultural Research & Training Institute, Central Silk Board, Pampore	dr.skumar.csb@gmail.com

Biotechnology, Biochemistry and Microbiology

Sr. No.	Discipline	CT	O/P	Roll No.	Title of Abstract (all UPPER)	Author's Name (* Presenting Author)	Author's Affiliation/Organization Address (ONE ADDRESS IN ONE LINE)	Presenting Author's Email
1	Biotechnology, Biochemistry and Microbiology	1	O	BIO-01	BIOCHEMICAL CHARACTERIZATION AND ANTIOXIDANT POTENTIAL OF BUCKWHEAT (<i>FAGOPYRUM ESCULENTUM</i> MOENCH) GENOTYPES COLLECTED FROM HILLY REGIONS	Amit Singh Rana*, Dheeraj Bhatt, Nidhi Joshi and K.C. Verma	Department of Biochemistry, College of Basic Science & Humanities, G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	44547asrana@gmail.com

2	Biotechnology, Biochemistry and Microbiology	1	O	BIO-02	PHYTOCHEMICAL ANALYSIS OF <i>AGERATUM CONYZOIDES</i> AND ITS ANTIMICROBIAL ACTIVITY AGAINST <i>STAPHYLOCOCCUS AUREUS</i> AND <i>ESCHERICHIA COLI</i>	Anjali Patil* ¹ , Kunal Kishor ² , Mamta Arya ¹ and Shivani ³	¹ Department of Biotechnology, School of Life Sciences, HNB Garhwal University (A Central University), Srinagar Garhwal, Pauri ² Department of Microbiology, Sharda University, Greater Noida ³ Department of Plant Pathology, College of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	ap9919053@gmail.com
3	Biotechnology, Biochemistry and Microbiology	1	O	BIO-03	IMPLICATION OF <i>PENICILLIUM</i> SP. RPP1 FOR CARCINOGENIC CONGO RED DYE BIOREMEDIATION	Barkha Sharma*, Shalini Tiwari and Lakshmi Tewari	Department of Microbiology, College of Basic Science & Humanities, G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	barkhajb3sharma@gmail.com
4	Biotechnology, Biochemistry and Microbiology	1	O	BIO-04	MOLECULAR EVIDENCE OF GENETICALLY DISTINCT LINEAGE OF RED MUNTJAC FROM UTTARAKHAND, INDIA	Bhim Singh*, Ajit Kumar, Virendra Prasad Uniyal and Sandeep Kumar Gupta	Wildlife Institute of India, Dehradun	bhim1992singh@gmail.com
5	Biotechnology, Biochemistry and Microbiology	1	O	BIO-05	PREVALENCE AND EMERGENCE OF ANTIBIOTIC RESISTANCE IN NON FERMENTING GRAM NEGATIVE BACILLI	Juhi Chaudhary* ¹ and Neha Chauhan ²	¹ Department of Microbiology, School of Basic & Applied Sciences ² Department of Microbiology, SGRRIMHS College of Paramedical Sciences Shri Guru Ram Rai University, Dehradun	chaudharyjuhi01@gmail.com
6	Biotechnology, Biochemistry and Microbiology	1	O	BIO-06	PLANT-GROWTH PROMOTING POTENTIAL OF ROOT- ASSOCIATED BACTERIAL ENDOPHYTES FROM HIMALAYAN SILVER BIRCH (<i>BETULA UTILIS</i> D. DON)	Khashti Dasila* ¹ , Anita Pandey ² , Avinash Sharma ³ , Sher Singh Samant ⁴ , Mithilesh Singh ¹ and Veena Pande ⁵	¹ Center for Environmental Assessment and Climate Change, G.B. Pant National Institute of Himalayan Environment, Kosi- Katarmal, Almora ² Department of Biotechnology, Graphic Era (Deemed to be University), Dehradun ³ National Centre for Microbial Resource, National Centre for Cell Science, Pune, Maharashtra ⁴ Himalayan Forest Research Institute, Conifer Campus, Panthaghati, Shimla ⁵ Department of Biotechnology, Kumaun University, Bhimtal Campus, Nainital	khashti.dasila@yahoo.com

7	Biotechnology, Biochemistry and Microbiology	1	O	BIO-07	EXPLORATION OF ETHANO- TOLERANT NEWLY ISOLATED <i>PICHIA KUDRIAVZEVII</i> FOR BIOCONVERSION OF C ₆ AND C ₅ SUGARS INTO BIOETHANOL	Neha Bisht* and Lakshmi Tewari	Department of Microbiology, College of Basic Science & Humanities, G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	nehabisht95574@gmail.com
8	Biotechnology, Biochemistry and Microbiology	1	O	BIO-08	BIOCHEMICAL ANALYSIS OF <i>AMARANTHUS (AMARANTHUS CAUDATUS L.)</i> GENOTYPES FROM DIFFERENT LOCATIONS OF UTTARAKHAND FOR SELECTION OF ELITE GERMPASM	Nidhi Joshi*, Amit Singh Rana, Dheeraj Bhatt and K.C. Verma	Department of Biochemistry, College of Basic Science & Humanities, G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	jnidhi390@gmail.com
9	Biotechnology, Biochemistry and Microbiology	1	O	BIO-09	BIODEGRADATION OF NATURAL ESTROGEN (ESTRIOL) BY PSYCHROTOLERANT <i>PSEUDOMONAS</i> SP	Pooja Thathola* ¹ , Vasudha Agnihotri ¹ , Anita Pandey ² and Santosh Kumar Upadhyay ³	¹ G.B. Pant National Institute of Himalayan Environment, Kosi-Katarmal, Almora ² Department of Biotechnology, Graphic Era (Deemed to be University), Dehradun ³ Department of Biotechnology, Kumaun University, Nainital	poojathathola29@gmail.com
10	Biotechnology, Biochemistry and Microbiology	1	O	BIO-10	PROXIMATE ANALYSIS OF PEA NUTRIENT ENHANCEMENT BY <i>ENSIFER ADHAERENS</i> KS23 IN <i>PISUM SATIVUM</i> L. CULTIVATED IN GARHWAL HIMALAYAS	Prashant Katiyar* and Dinesh Kumar Maheshwari	Gurukula Kangri University, Haridwar	prashant22021994@gmail.com
11	Biotechnology, Biochemistry and Microbiology	1	O	BIO-11	COMPARATIVE STUDY OF FAST PLAQUE ASSAY AND REAL TIME PCR FOR DETECTION OF <i>MYCOBACTERIUM TUBERCULOSIS</i> IN PULMONARY SAMPLES	Priya Thapliyal* ¹ , Narotam Sharma ¹ , Vimlendu Bhushan Sinha ² and Indra Rautela ³	¹ DNA Labs-A Centre for Applied Sciences, Dehradun ² Department of Biotechnology, Sharda University, Greater Noida (UP) ³ Department of Biotechnology, Uttarakhand Technical University, Dehradun	priyathapliyal269@gmail.com
12	Biotechnology, Biochemistry and Microbiology	1	O	BIO-12	MOLECULAR REVEALING OF HUMAN PAPILOMA VIRUSES (HPV) IN ABNORMALLY PAP SMEARS BY RFLP-PCR	Sandeep Singh*, Shilpa Semwal, Vivek Kumar and Narotam Sharma	DNA Labs-A Centre for Applied Sciences, Dehradun	rsonu654@gmail.com
13	Biotechnology, Biochemistry and Microbiology	1	O	BIO-13	GENERATION AND CHARACTERIZATION OF APTAMERS AGAINST <i>ACINETOBACTER BAUMANNII</i> FOR THE DEVELOPMENT OF RAPID DETECTION ASSAY AND APTAMER PROMOTED STRATEGIES FOR MITIGATION	Shahnawaj Ahamd Baba* and Naveen K Navani	Chemical Biology Lab, Indian Institute of Technology Roorkee, Roorkee, Haridwar	baba3681@gmail.com
14	Biotechnology, Biochemistry and Microbiology	1	O	BIO-14	FT-IR AND GC-MS ANALYSIS OF POTENTIAL BIOACTIVE COMPOUND OF <i>BADRI</i> COW URINE AND ITS ANTIBACTERIAL ACTIVITY	Vipin Nautiyal*	Department of Botany and Microbiology, Gurukula Kangri University, Haridwar	nautiyalvipi1992@gmail.com

15	Biotechnology, Biochemistry and Microbiology	1	O	BIO-15	COMPARATIVE EVALUATION OF MONOCHROTOPHOS, CARBENDAZIM AND CYPERMETHRIN ON PROTEIN PROFILE OF <i>CLARIAS BATRACHUS</i>	Vishal Rajput ¹ , Ankita Singh* ² , Ehsanul Kareem Shah ¹ , Lata Paliwal ¹ , Richa Gaur ¹ , Nishesh Sharma ² and Narotam Sharma ³	¹ Sardar Bhagwan Singh University, Dehradun ² School of Applied and Life Sciences, Uttaranchal University, Dehradun ³ DNA Labs- A Centre for Applied Sciences, Dehradun	ankitaofficial10@gmail.com
16	Biotechnology, Biochemistry and Microbiology	2	O	BIO-16	LIVER PROFILE ANALYSIS IN PETROLEUM WORKERS OF DEHRADUN REGION	Deepali Joshi*, T.K. Mandal, Raksha Vashist and Sanjay Gahtori	ICFAI Tech School, The ICFAI University, Dehradun	deepaliaswal21@gmail.com
17	Biotechnology, Biochemistry and Microbiology	2	O	BIO-17	NOVEL VALIDATED CARBAPENEMASE INHIBITORS ACTIVE AGAINST CLINICAL KPC-2 PRODUCING STRAINS	Mangal Singh* ¹ , Perwez Bakht ¹ , Marc Boomgaren ² , Annette Bayer ² , Hanna-Kirsti S Leiros ³ and Ranjana Pathania ¹	¹ Department of Biotechnology, Indian Institute of Technology Roorkee, Roorkee, Haridwar ² Department of Chemistry, Faculty of Science and Technology, UiT The Arctic University of Norway, N-9037 Tromsø, Norway ³ The Norwegian Structural Biology Centre (NorStruct), Department of Chemistry, Faculty of Science and Technology, UiT The Arctic University of Norway, N-9037 Tromsø, Norway	mangal.pu@gmail.com
18	Biotechnology, Biochemistry and Microbiology	2	O	BIO-18	INVESTIGATIONS ON BIOLOGICAL ACTIVITIES OF BADRI TULSI – A MEDICINAL AROMATIC PLANT OF UTTARAKHAND	Pooja Joshi* ¹ , Amit Gaurav ² , Arun Beniwal ² , Tamoghna Ghosh ² , Rajendra Dobhal ¹ , Naveen kumar Navani ²	¹ Uttarakhand State Council for Science and Technology, Dehradun ² Indian Institute of Technology, Roorkee	poojajo1211@gmail.com
19	Biotechnology, Biochemistry and Microbiology	2	O	BIO-19	THE BIOCHEMICAL INVESTIGATION AND ANALYSIS AS A POTENT BIOMARKER FOR HEPATOCELLULAR CARCINOMA AND HCV INFECTIONS	Vijay Kumar*, Shweta Sahni, Arun Kumar and Kumud Saklani	Department of Microbiology, Shri Guru Ram Rai University, Dehradun	vijaybijarnia61@gmail.com
20	Biotechnology, Biochemistry and Microbiology	3	O	BIO-20	PREVALENCE OF EXTENDED SPECTRUM BETA-LACTAMASE-PRODUCING UROPATHOGENS AMONG UTI PATIENTS	Pooja Mishra* and Neha Chauhan	¹ Department of Microbiology, School of Basic & Applied Sciences ² Department of Microbiology, SGRRIMHS College of Paramedical Sciences Shri Guru Ram Rai University, Dehradun	sharmavpooja@gmail.com

21	Biotechnology, Biochemistry and Microbiology	1	P	BIO-21	BIOPROSPECTING AND SCREENING OF THE EXTRACELLULAR ALPHA AMYLASE PRODUCING PSYCHROPHILIC BACTERIA ISOLATED FROM TOP LAYERED SOIL OF KUMAUN HIMALAYAN	Aanchal Giri* and Rishendra Kumar	Department of Biotechnology, Sir J.C. Bose Technical Campus, Bhimtal (Kumaun University, Nainital)	anchalgiri28@gmail.com
22	Biotechnology, Biochemistry and Microbiology	1	P	BIO-22	DNA BASED- ASSESSMENT OF GENETIC DIVERSITY IN <i>EUCALYPTUS TERETICORNIS</i>	Disha Pathak*, Neha Singh Panwar and Ashok Kumar	Forest Research Institute, Dehradun	dishupathak2014@gmail.com
23	Biotechnology, Biochemistry and Microbiology	1	P	BIO-23	GENOTYPIC DISTRIBUTION OF HEPATITIS B VIRUS IN DIFFERENT SPECTRUM OF ITS VIRAL LOAD IN A TERTIARY CARE HOSPITAL IN NORTHERN INDIA	Meena*, Jhansi, Vivek Kumar, Sandeep Singh, Komal Gupta and Narotam Sharma	DNA Labs-A Centre for Applied Sciences, Dehradun	meenabhandari21@gmail.com
24	Biotechnology, Biochemistry and Microbiology	1	P	BIO-24	DIAGNOSTIC VALUE OF PCR IN GENITOURINARY TUBERCULOSIS	Mohd Anas*, Narotam Sharma, Komal Gupta, Shilpa Semwal and Sandeep Singh	DNA Labs-A Centre for Applied Sciences, Dehradun	anasbiotech1@gmail.com
25	Biotechnology, Biochemistry and Microbiology	1	P	BIO-25	ISOLATION AND CHARACTERIZATION OF PLANT GROWTH PROMOTING ENDOPHYTIC BACTERIA FROM <i>BARLERIA LUPULINA</i> LINDL.	Nikhil Kumar* and R.C. Dubey	Department of Botany and Microbiology, Gurukula Kangri University, Haridwar	loashyan.nk358@gmail.com
26	Biotechnology, Biochemistry and Microbiology	1	P	BIO-26	BACTERIOLOGICAL PROFILE OF ISOLATES FROM BURN PATIENTS IN A TERTIARY CARE HOSPITAL	Razia Siddiqui* ¹ and Shalabh Jauhari ²	¹ Department of Microbiology, SGRIM&HS, College of Paramedical Sciences, Shri Guru Ram Rai University, Dehradun ² Department of Microbiology, Doon Medical College, Dehradun	rajjisiddiqui@gmail.com
27	Biotechnology, Biochemistry and Microbiology	1	P	BIO-27	STUDY OF COLD STRESS TOLERANCE OF MEDICINAL PLANT <i>PICRORHIZA KURROA</i> VIA SECONDARY METABOLITES QUANTIFICATION AND ENZYMATIC ANTIOXIDANT ACTIVITY ANALYSIS	Shreya Agrawal* and Pooja Saklani	Department of Biotechnology, HNB Garhwal University (A Central University), Srinagar Garhwal, Pauri	ashreya.sa.sa@gmail.com
28	Biotechnology, Biochemistry and Microbiology	1	P	BIO-28	COMPARATIVE NUTRITIONAL PROFILE OF HIMALAYAN BLACK SOYBEAN (<i>GLYCINE MAX</i> L.) AND ITS BY-PRODUCT OKARA	Sofiya Anjum* ^{1,2} , Smita Rana ^{2,3} , Anita Pandey ⁴ , Veena Pande ¹ and Vasudha Agnihotri ²	¹ Department of Biotechnology, Kumaun University, Bhimtal Campus, Nainital ² G.B. Pant National Institute of Himalayan Environment, Kosi-Katarmal, Almora ³ Department of Chemistry, S.S.J Campus Almora, Kumaun University, Nainital ⁴ Graphic Era Deemed to Be University, Dehradun	sofiyasiddiquee@gmail.com

29	Biotechnology, Biochemistry and Microbiology	1	P	BIO-29	TLC, GC-MS ANALYSIS AND MOLECULAR DOCKING OF <i>CAMELLIA SINENSIS</i>	Surbhi Pradhan*	Department of Botany and Microbiology, Gurukula Kangri University, Haridwar	surbhipradhan93@gmail.com
30	Biotechnology, Biochemistry and Microbiology	1	P	BIO-30	SCREENING AND IDENTIFICATION OF ACTIVE COMPOUNDS IN PLANTS OF UTTARAKHAND RESPONSIBLE FOR BLOOD CLOTTING (HEMOSTASIS)	Sushmita Dwivedi* and Mamta Baunthiyal	Department of Biotechnology, G.B. Pant Institute of Engineering and Technology, Ghurdauri, Pauri Garhwal	sush.dwi@gmail.com
31	Biotechnology, Biochemistry and Microbiology	2	P	BIO-31	POLYPHENOLIC CONTENT AND <i>IN VITRO</i> ANTIOXIDANT ACTIVITY OF SELECTED ANTICANCER PLANTS OF UTTARAKHAND	Deepti Tiwari* ¹ , Indra Dutt Bhatt ¹ , R.C. Sundriyal ² and Veena Pande ³	¹ G.B. Pant National Institute of Himalayan Environment, Kosi-Katarmal, Almora ² Department of Forestry and Natural Resources, HNB Garhwal University (A Central University), Srinagar Garhwal, Pauri ³ Department of Botany, DSB Campus, Kumaun University, Nainital	pandeydeepti1990@gmail.com
32	Biotechnology, Biochemistry and Microbiology	2	P	BIO-32	STUDY OF PANDEMIC 2009 INFLUENZA A (H1N1) VIRUS BY CELLULAR AND MOLECULAR PROFILING IN UTTARAKHAND POPULATION: CLINICAL INFLUENCE AND EPIDEMIOLOGY	Jhansi*, Meena, Vivek Kumar, Sandeep Singh, Komal Gupta and Narotam Sharma	DNA Labs-A Centre for Applied Sciences, Dehradun	jhansikohli007@gmail.com
33	Biotechnology, Biochemistry and Microbiology	2	P	BIO-33	INSIGHTS INTO ZINC-SENSING METALLOREGULATOR 'ZUR' DECIPHERING MECHANISM OF ZINC TRANSPORTATION IN <i>BACILLUS</i> SPP. BY MODELING, SIMULATION AND MOLECULAR DOCKING	Kalpana Bhatt*	Department of Botany and Microbiology, Gurukula Kangri University, Haridwar	kalpana.kanubhatt@gmail.com
34	Biotechnology, Biochemistry and Microbiology	2	P	BIO-34	IDENTIFICATION OF NOVEL COMPOUNDS AGAINST 3 CL PRO ENZYME OF SARS COV-2: MOLECULAR DYNAMICS SIMULATION BASED ANALYSIS	Mahesha Nand* and Priyanka Maiti	G.B. Pant National Institute of Himalayan Environment (NIHE), Kosi-Katarmal, Almora	maheshlyf87@gmail.com
35	Biotechnology, Biochemistry and Microbiology	2	P	BIO-35	IMPROVING EXTRACTION CONDITIONS FOR RECOVERY OF BIOACTIVE COMPOUNDS IN <i>RUBUS ELLIPTICUS</i> FRUITS: A POTENTIAL SOURCE FOR NUTRACEUTICAL AND FUNCTIONAL FOOD	Pushpa Kewlani* ¹ , Laxman Singh ¹ , Indra Dutt Bhatt ¹ , Ranbeer Singh Rawal ¹ and Veena Pande ²	¹ G.B. Pant National Institute of Himalayan Environment, Kosi-Katarmal, Almora ² Kumaun University, Nainital	pkewlani0@gmail.com
36	Biotechnology, Biochemistry and Microbiology	2	P	BIO-36	PCR-HIGH RESOLUTION MELT ANALYSIS FOR RAPID DETECTION OF MYCOBACTERIUM OTHER THAN TUBERCULOSIS SPECIES	Ramesh Kumar Singh* ^{1,2} , Narotam Sharma ¹ , Himanki Dabral ^{1,2,3} and Anu Singh ²	¹ DNA Labs-A Centre for Applied Sciences, Dehradun ² Samvet Bharat (Samvetan Society for Social & Scientific Research), Dehradun ³ Doon Business School, Selaqui, Dehradun	rksmacflow@gmail.com

37	Biotechnology, Biochemistry and Microbiology	2	P	BIO-37	EFFICIENT PLANT REGENERATION THROUGH CALLUS CULTURE IN <i>HEDYCHUM SPICATUM</i> BUCH. HAM. EX. D. DON	Vibhash Dhyani* ¹ , Indra D. Bhatt ¹ , Ranbeer S. Rawal ¹ and Veena Pande ²	¹ Centre for Biodiversity Conservation and Management, GBP-NIHE, Kosi-Katarmal, Almora ² Department of Biotechnology, Bhimtal Campus, Kumaun University Nainital	vibhashdhyani@gmail.com
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Botany

Sr. No.	Discipline	CT	O/P	Roll No.	Title of Abstract (all UPPER)	Author's Name (* Presenting Author)	Author's Affiliation/Organization Address (ONE ADDRESS IN ONE LINE)	Presenting Author's Email
1	Botany	1	O	BOT-01	REGENERATION STATUS AND LEAF MORPHOLOGY OF <i>RHODODENDRON CAMPANULATUM</i> D.DON. ABOVE AND BELOW TREELINE REGION IN GARHWAL HIMALAYA, INDIA	Abhishek* and M.C. Nautiyal	High Altitude Plant Physiology Research Centre, HNB Garhwal University, Srinagar Garhwal, Pauri	abhijamloki@gmail.com
2	Botany	1	O	BOT-02	POPULATION STRUCTURE AND MORPHOLOGICAL VARIATION ON <i>SWERTIA CILIATA</i> ALONG AN ALTITUDINAL GRADIENT IN GARHWAL HIMALAYA	Ambika Kandpal* and A.R. Nautiyal	High Altitude Plant Physiology Research Centre, HNB Garhwal University, Srinagar Garhwal, Pauri	abhijamloki@gmail.com
3	Botany	1	O	BOT-03	DIVERSITY OF ROOT ENDOPHYTIC AQUATIC HYPHOMYCETES IN KUMAUN HIMALAYAN STREAMS WITH SPECIAL REFERENCE TO GENUS <i>CAMPYLOSPORA</i>	Anjali Koranga* and S.C. Sati	Department of Botany, DSB Campus, Kumaun University, Nainital	anjalikoranga56@gmail.com
4	Botany	1	O	BOT-04	TAXONOMIC COMPLEXITY AND CONSERVATION CONCERN OF <i>ACONITUM HETEROPHYLLUM</i> WALL. EX ROYLE, AN IMPORTANT MEDICINAL PLANT OF INDIAN HIMALAYA	Ankit Singh*, Danish Husain and M.C. Nautiyal	High Altitude Plant Physiology Research Centre, HNB Garhwal University, Srinagar Garhwal, Pauri	ankitsinghrawat333@gmail.com
5	Botany	1	O	BOT-05	IDENTIFICATION OF POTENTIAL NATURAL COMPOUNDS FROM ESSENTIAL OILS AS NOVEL MOSQUITO REPELLENTS	Hemlata Pundir* ¹ , Tanuja Joshi ² , Subhash Chandra ² and Sushma Tamta ¹	¹ Department of Botany, D.S.B. Campus, Kumaun University, Nainital ² Computational Biology & Biotechnology Laboratory, Department of Botany, Kumaun University, S.S.J Campus, Almora	hemapundir29@gmail.com
6	Botany	1	O	BOT-06	ISOLATION, BIOCHEMICAL CHARACTERIZATION AND PRODUCTION OF IMMOBILISED β -AMYLASE CHITOSAN BEADS USING BACTERIA FROM WASTE WATER EFFLUENTS FOR ITS INDUSTRIAL PRODUCTION ASPECTS	Jyoti Chandola*, Pooja Singh, Vandana Semwal, Komal Gupta and Narotam Sharma	DNA Labs-A Centre for Applied Sciences, Dehradun	jyotipruox.1996@gmail.com

7	Botany	1	O	BOT-07	FASCINATING GEMMIFEROUS SPECIES OF MOSSES FROM CEDRUS FOREST FLOOR AT LOHAGHAT (CHAMPAWAT) UTTARAKHAND	Manisha Bhandari*, S.D. Tewari, Prachi Joshi, Kusum Joshi and Sapana Pant	Department of Botany, I.P.G.G. (PG) College of Commerce, Haldwani, Nainital	bmannu4@gmail.com
8	Botany	1	O	BOT-08	DIVERSITY AND RARITY PATTERNS OF PLANTS ALONG ALTITUDE GRADIENT IN THE CLIMATE SENSITIVE HIGH ALTITUDE FOREST ZONE OF WEST HIMALAYA	Renu Rawal* and Ranbeer S. Rawal	G.B. Pant National Institute of Himalayan Environment, Kosi-Katarmal, Almora	renu.rawal93@gmail.com
9	Botany	1	O	BOT-09	MUKTESHWAR AS A SITE OF BRYOLOGICAL HOTSPOT IN NORTH–WEST HIMALAYA	Sapana Pant*, S.D. Tewari, Manisha Bhandari and Prachi Joshi	Department of Botany, I.P.G.G. (PG) College of Commerce, Haldwani, Nainital	sapanapant2017@gmail.com
10	Botany	1	O	BOT-10	SEED GERMINATION IN <i>MECONOPSIS ACULEATA</i> ROYLE, AN ENDANGERED MEDICINAL HERB OF GARHWAL HIMALAYA	Vandana Shukla* and A.R. Nautiyal	High Altitude Plant Physiology Research Centre, HNB Garhwal University, Srinagar Garhwal, Pauri	vshuklamsc@gmail.com
11	Botany	2	O	BOT-11	ANTIBACTERIAL POTENTIAL OF ETHANOLIC EXTRACTS OF LEAF, STEM AND ROOT OF <i>EUPATORIUM ADENOPHORUM</i> SPRENG FROM KUMAUN HIMALAYA	Amrendra Nath Tripathi* and Suresh Chandra Sati	Department of Botany, DSB Campus, Kumaun University, Nainital	amrendratripathi05@gmail.com
12	Botany	2	O	BOT-12	HEPATIC BRYODIVERSITY OF JAGESHWAR AND SURROUNDINGS (ALMORA) UTTARAKHAND	Kusum Joshi*, Prachi Joshi, S.D. Tewari, Manisha Bhandari and Sapana Pant	Department of Botany, I.P.G.G. (PG) College of Commerce, Haldwani, Nainital	kusumj928@gmail.com
13	Botany	2	O	BOT-13	INVESTIGATION OF ANTICANCER AND ANTIOXIDANT POTENTIAL OF <i>C. LONGA</i> RHIZOME	Neha Chauhan* and Chhaya Singh	¹ Shri Guru Ram Rai Institute of Medical & Health Sciences, College of Paramedical Science, SGRR University, Dehradun ² Government Degree College, Thallisain, Pauri Garhwal	chauhanneha7777@gmail.com
14	Botany	2	O	BOT-14	REGENERATION STATUS AND SPECIES DIVERSITY OF BANJ-OAK (<i>QUERCUS LEUCOTRICHOPHORA</i> A. CAMUS) COMMUNITY FORESTS AT NAINITAL DISTRICT, CENTRAL HIMALAYA	Pratibha Gwal*, Neelu Lodhiyal and Y.S. Rawat	Department of Botany, DSB Campus, Kumaun University, Nainital	pratibhagwal@gmail.com
15	Botany	2	O	BOT-15	SEED GERMINATION AND GROWTH PERFORMANCE OF <i>PAEONIA EMODI</i> WALL. EX ROYLE: CONSERVATION AND CULTIVATION STRATEGIES	Praveen Joshi* ¹ , Vijay Kant Purohit ¹ and Prem Prakash ²	¹ High Altitude Plant Physiology Research Centre, HNB Garhwal University, Srinagar Garhwal, Pauri ² Department of Botany, Govt. M.B. (PG) College, Haldwani, Kumaun University Nainital	praveenjoshij88@gmail.com

16	Botany	2	O	BOT-16	PHYTOCHEMICAL ANALYSIS AND EFFECT OF ALTITUDE IN STEROIDAL SAPONIN CONCENTRATION OF <i>PARIS POLYPHYLLA</i> , AN ENDANGERED HIMALAYAN MEDICINAL PLANT	Shweta Pandey* ¹ , Balwant Rawat ¹ and Mahendra Rana ²	¹ School of Agriculture Science, Graphic Era Hill University, Dehradun ² Department of Pharmaceutical Sciences, Kumaun University, Nainital	shwetapandey.pandey27@gmail.com
17	Botany	2	O	BOT-17	SEEDS ABORTION IN FOLLICLES OF <i>PAEONIA EMODI</i> (PAEONIACEAE)	Vijay Laxmi* and Mohan Chandra Nautiyal	High Altitude Plant Physiology Research Centre, HNB Garhwal University, Srinagar Garhwal, Pauri	vijaylaxmitrivedi@gmail.com
18	Botany	3	O	BOT-18	A REVIEW ON ETHNO-MEDICINAL LICHENS OF UTTARAKHAND	Manju* ¹ , Renu Dixit ² , Rashmi T Chamoli ³	¹ Department of Botany, HVM (PG) College, Raisi, Haridwar ² Department of Botany, GMV (PG) College, Rampur Maniharan, Saharanpur (UP) ³ Department of Forestry, Dolphin Institute (PG) Institute of Biomedical and Natural sciences, Dehradun	drmanjubaaniya@gmail.com
19	Botany	1	P	BOT-19	BRYOPHYTES AS TERMITE (ISOPTERA) REPELLENT	Neha Binwal*, S.D. Tewari, Prachi Joshi and Neha Kohli	Department of Botany, I.P.G.G. (PG) College of Commerce, Haldwani, Nainital	nehabinwal171@gmail.com
20	Botany	1	P	BOT-20	EXPLORATION OF DIFFERENT MEDICINAL PLANTS AND THEIR USES IN ALMORA REGION OF KUMAUN HIMALAYA	Ritika Tamta* and Balwant Kumar	Department of Botany, Kumaun University, S.S.J. Campus, Almora	ritikatamta1794@gmail.com
21	Botany	2	P	BOT-21	ULTRASOUND ASSISTED EXTRACTION AND VALIDATION OF AN HPLC-PDA METHOD FOR THE QUANTIFICATION OF DACTYLORHIN E, POLYPHENOLS, AND ANTIOXIDANT ACTIVITY OF <i>DACTYLORHIZA HATAGIREA</i> : A HIGH VALUE HIMALAYAN MEDICINAL HERB	Laxman Singh* ¹ , Basant Singh ¹ , Pushpa Kewlani ¹ , Indra D Bhatt ¹ , Shymal K Nandi ¹ and Anil K Bisht ²	¹ Center for Biodiversity Conservation & Management, G.B. Pant National Institute of Himalayan Environment, Kosi-Katarmal, Almora ² Department of Botany, D. S. B. Campus, Kumaun University, Nainital	lxmn1310@gmail.com
22	Botany	2	P	BOT-22	EFFECT OF CHEMICAL SUBSTANCES ON THE DIVERSITY OF AM FUNGI IN VEGITABLE CROPS (<i>ABELMOSCHUS ESCULENTUS</i> & <i>BRASSICA CAMPESTRIS</i>)	Mohd. Irfan* ¹ and Rajan Kumar Gupta ²	¹ Department of Botany, ChamanLal Mahavidhyalya, Landhaura, Haridwar ² Department of Botany, Banaras Hindu University, Varnasi UP	mod.irfan@rediffmail.com
23	Botany	3	P	BOT-23	STUDIES ON GENETIC VARIABILITY, CHARACTER ASSOCIATIONS AND GENETIC DIVERGENCE IN RICE BEAN [<i>VIGNA UMBELLATA</i> (THUNB.) OHWI AND OHASHI] UNDER MID HILL CONDITIONS OF UTTARAKHAND	Arun Bhatt*, Pranshu Dangwal and Mamta Baunthiyal	Department of Biotechnology, G.B. Pant Institute of Engineering and Technology, Ghurdauri, Pauri Garhwal	mailarunbhatt@gmail.com
24	Botany	3	P	BOT-24	STUDY OF ECONOMIC AND COMMERCIAL USES OF SOYBEAN	Nirmala Koranga*	Department of Botany, D.B.S. (PG) College, Dehradun	nirmalakoranga@yahoo.com

Chemistry

Sr. No.	Discipline	CT	O/P	Roll No.	Title of Abstract (all UPPER)	Author's Name (* Presenting Author)	Author's Affiliation/Organization Address (ONE ADDRESS IN ONE LINE)	Presenting Author's Email
1	Chemistry	1	O	CHE-01	A FACILE SYNTHESIS AND CHARACTERIZATION OF SURFACTANT (CTAB/TSC/TX-100) ASSISTED Ir-Sn BIMETALLIC NANOPARTICLES	Anjali Goel and Sudha Tomar*	Department of Chemistry, Kanya Gurukula Campus, Gurukula Kangri (Deemed to be University), Haridwar	sudhatomar008@gmail.com
2	Chemistry	1	O	CHE-02	BIOSORPTION STUDIES OF CD(II) IONS ON <i>LANTANA INDICA</i> LEAVES' BIOSORBENT	Ankita Negi*, Sushil Kumar Joshi and Narendra Singh Bhandari	S.S.J. Campus, S.S.Jeena University, Almora	ankurnegi12345@gmail.com
3	Chemistry	1	O	CHE-03	APPLICATION, SYNTHESIS AND CHARACTERIZATION OF CATIONIC GALACTOMANNAN FROM RUDERAL SPECIES AS WET STRENGTH ADDITIVE AND FLOCCULATING AGENT	Deepak Sharma*, Vineet Kumar and Pradeep Sharma	Chemistry & Bioprospecting Division, Forest Research Institute, Dehradun	dpksharma5421@gmail.com
4	Chemistry	1	O	CHE-04	CROSS-LINKING OF GUAR GUM USING SODIUM TRIMETAPHOSPHATE FOR INDUSTRIAL APPLICATIONS	Deepika Dangi*, Pradeep Sharma and Vineet Kumar	Chemistry & Bioprospecting Division, Forest Research Institute, Dehradun	deepikadangi0707@gmail.com
5	Chemistry	2	O	CHE-05	HRLC-ESI-MS BASED SEPARATION AND IDENTIFICATION OF ANTHOCYANINS EXTRACTED FROM <i>RUBUS ELLIPTICUS</i> FRUIT (HIMALAYAN YELLOW RASPBERRY)	Tarun Kumar* ¹ , Bharat Pande ² , Kamal K Pande ² and Manisha Koranga ³	¹ Department of Chemistry, MB Govt. (PG) College, Haldwani, Nainital ² S.B.S. Govt.(PG) College, Rudrapur ³ Department of Information Technology, DSB Campus, Kumaun University, Nainital	tarunksj@gmail.com
6	Chemistry	3	O	CHE-06	APPLICATION OF WATER QUALITY INDEX FOR ASSESSMENT OF DRINKING WATER QUALITY OF RIVERS OF UTTARAKHAND	Kajal Sinha* ¹ , Prashant Singh ¹ and Jaya Dwivedi ²	¹ Department of Chemistry, D.A.V. (PG) College, Dehradun ² Department of Chemistry, Banasthali Vidyapith (Rajasthan)	kajaal.sinha@gmail.com
7	Chemistry	1	P	CHE-07	CROSS-LINKING OF GUAR GUM WITH CITRIC ACID : GREEN AND ECONOMICAL CROSSLINKER	Achala Singh*, Pradeep Sharma and Vineet Kumar	Chemistry & Bioprospecting Division, Forest Research Institute, Dehradun	achala25singh@gmail.com
8	Chemistry	1	P	CHE-08	SYNTHESIS AND CHARACTERIZATION OF PROMISING ANTIBACTERIAL CHROMENE CONTAINING N-SUBSTITUTED ARYL SULFONAMIDE SCAFFOLDS	Ajay Kumar*, Hem C Joshi and Virendra Kasana	College of Basic Science & Humanities, G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	ajay.tiwari1591@gmail.com
9	Chemistry	1	P	CHE-09	ROLE OF CATIONIC, ANIONIC, AND NONIONIC SURFACTANTS IN THE SYNTHESIS OF Ir-Ni BASED MONO AND BIMETALLIC NANOCRYSTALS	Anjali Goel and Shikha*	Department of Chemistry, Kanya Gurukula Campus, Gurukula Kangri (Deemed to be University), Haridwar	shikhatomar348@gmail.com

10	Chemistry	1	P	CHE-10	NICKEL(0) NANOPARTICLES CATALYST FOR EFFECTIVE DEGRADATION OF CARMOISINE A IN AQUEOUS ALKALINE MEDIUM BY USING HEXACYANOFERRATE (III) IONS AS A REDUCTANT : A KINETIC STUDY	Anjali Goel and Shivani*	Department of Chemistry, Kanya Gurukula Campus, Gurukula Kangri (Deemed to be University), Haridwar	shivaniyadav541@gmail.com
11	Chemistry	1	P	CHE-11	CHEMICAL ANALYSIS OF VOLATILE COMPONENTS OF <i>ACHILLEA MILLEFOLIUM</i>	Aparna* and Vineet Kumar	Chemistry & Bioprospecting Division, Forest Research Institute, Dehradun	aparnach264@gmail.com
12	Chemistry	1	P	CHE-12	ANTIOXIDANT POTENTIAL OF UNEXPLORED <i>FICUS SUBINCISA</i> USING GREEN SOLVENT	Priyanka Pokhriyal* and Abha Shukla	Kanya Gurukula Campus, Gurukula Kangri (Deemed to be University), Haridwar	priyanka123pokhriyal@gmail.com
13	Chemistry	1	P	CHE-13	DOES PILOT SCALE EXTRACTION OF ESSENTIAL OIL LEAD TO ALTERATION IN ITS CHEMICAL COMPOSITION? CASE STUDY USING <i>TAGETES MINUTA</i>	Rishika Guleria*, Vineet Kumar and Pradeep Sharma	Chemistry & Bioprospecting Division, Forest Research Institute, Dehradun	rishikaguleria5184@gmail.com
14	Chemistry	1	P	CHE-14	HORSEGRAM (<i>MACROTYLOMA UNIFLORUM</i>) BASED TRADITIONAL CUISINES OF UTTARAKHAND: A NUTRITIONAL EVALUATION	Smita Rana* ¹ , Sofiya Anjum ² , N.S. Bhandari ³ and Vasudha Agnihotri ⁴	¹ Center for Biodiversity Conservation & Management, G.B. Pant National Institute of Himalayan Environment, Kosi-Katarmal, Almora ² G.B. Pant National Institute of Himalayan Environment, Kosi-Katarmal, Almora ³ S.S.J University, Almora ⁴ G.B. Pant National Institute of Himalayan Environment, Kosi-Katarmal, Almora	smitarana2@gmail.com
15	Chemistry	1	P	CHE-15	ANALYSIS OF VOLATILE PHYTOCHEMICALS OF <i>THYMUS SERPYLLUM</i>	Sushil Bhattarai* and Vineet Kumar	Chemistry & Bioprospecting Division, Forest Research Institute, Dehradun	sbhattarai16@gmail.com
16	Chemistry	1	P	CHE-16	CHEMICAL COMPOSITION OF <i>MELALEUCA LINARIIFOLIA</i> Sm. COLLECTED FROM KUMAUN REGION OF UTTARAKHAND	Sushma Kholiya* ¹ , Ameeta Tiwari ¹ and Gunjan Bhatt ²	¹ Department of Chemistry, Govt. M.B. (PG) College, Haldwani, Kumaun University Nainital ² Photochemistry Division, CSIR-CIMAP, Research Centre, Pantnagar, US Nagar	sushmakholiya01@gmail.com
17	Chemistry	3	P	CHE-17	EVALUATION OF STATUS OF DECREASING DISCHARGE OF SPRINGS OF UTTARAKHAND	Prashant Singh* ¹ , VSP Sinha ² , Chandrashekhar Azad ² and Vikas Kandari ¹	¹ Department of Chemistry, D.A.V. (PG) College, Dehradun ² Department of Natural Resources, TERI-SAS, New Delhi	prashantraj86@yahoo.com
18	Chemistry	3	P	CHE-18	IMPLEMENTATION AND ASSESSMENT OF JAL JEEWAN MISSION IN UTTARAKHAND	Rakesh Singh* ¹ and Prashant Singh ²	¹ Department of Chemistry, D.B.S. (PG) College, Dehradun ² Department of Chemistry, D.A.V. (PG) College, Dehradun	rakesh72chem@gmail.com

Earth Sciences including Geology, Geomorphology, Geophysics, Glaciology and Geography

Sr. No.	Discipline	Cat.	OP	Roll No.	Title of Abstract (all UPPER)	Author's Name (* Presenting Author)	Author's Affiliation/Organization Address (ONE ADDRESS IN ONE LINE)	Presenting Author's Email
1	Earth Sciences including Geology, Geomorphology, Geophysics, Glaciology and Geography	1	O	EAR-01	MODERN TOURISM, CHANGES IN DEMOGRAPHIC COMPOSITION AND EMERGING THREATS TO MOUNTAIN ENVIRONMENT: A STUDY FROM KEDAR VALLEY, RUDRAPRAYAG DISTRICT, UTTARAKHAND	Dhruv Pandey* ¹ , Soukhin Tarafdar ¹ and Pratik Deb ²	¹ G.B. Pant National Institute of Himalayan Environment (NIHE), Garhwal Regional Centre, Srinagar Garhwal ² Farmneed Agribusiness Private Limited, Kolkata (WB)	dhruvpandey.147@gmail.com
2	Earth Sciences including Geology, Geomorphology, Geophysics, Glaciology and Geography	1	O	EAR-02	SCENARIO ANALYSIS FOR LIVELIHOOD SUSTAINABILITY- A CASE STUDY OF ALMORA RURAL-URBAN ENVIRONMENT	Himanshu Kandpal*, Ranjan Joshi and Kireet Kumar	G.B. Pant National Institute of Himalayan Environment, Kosi-Katarmal, Almora	kandpalhimanshu08@gmail.com
3	Earth Sciences including Geology, Geomorphology, Geophysics, Glaciology and Geography	1	O	EAR-03	SENSITIVITY ANALYSES OF CUMULUS CONVECTIONS AND CLOUD MICROPHYSICS OF THE WRF MODEL SIMULATING HEAVY RAINFALL EVENTS OVER CENTRAL HIMALAYA	Rajendra Singh Rawat* and Sandipan Mukherjee	G.B. Pant National Institute of Himalayan Environment, Kosi-Katarmal, Almora	rajendrarawat1994@gmail.com
4	Earth Sciences including Geology, Geomorphology, Geophysics, Glaciology and Geography	1	O	EAR-04	LANDSLIDE VULNERABILITY MAPPING (LVM) OF AN INDIAN HIMALAYAN REGION USING REMOTE SENSING AND GIS: A CRITICAL CASE TO STUDY	Ram Lakhan Yadav* and J.C. Kuniyal	Centre for Environmental Assessment & Climate Change, G.B. Pant National Institute of Himalayan Environment, Kosi-Katarmal, Almora	ramlakhan4609@gmail.com
5	Earth Sciences including Geology, Geomorphology, Geophysics, Glaciology and Geography	2	O	EAR-05	SEISMICITY RATE FORECAST ANALYSIS FOR UTTARAKHAND REGION	Auchitya Kumar Pandey*, Santosh Joshi, Rajeev Upadhyay and Charu C. Pant	Department of Geology, CAS, Kumaun University, Nainital	auchityapandey90@gmail.com
6	Earth Sciences including Geology, Geomorphology, Geophysics,	2	O	EAR-06	WIND PROCESSES GOVERNING THE DYNAMICS OF HIMALAYAN GLACIERS: A CASE STUDY OF THE PARTIALLY DEBRIS-COVERED DOKRIANI GLACIER, CENTRAL HIMALAYA, INDIA	Kapil Kesarwani* ¹ , Anjali Tiwari ¹ , Manish Mehta ² , D.P. Dobhal ² and J.C. Kuniyal ¹	¹ Centre for Environmental Assessment & Climate Change, G.B. Pant National Institute of Himalayan Environment, Kosi-Katarmal, Almora ² Wadia Institute of Himalayan Geology, Dehradun	kapilgbpi@gmail.com

	Glaciology and Geography							
7	Earth Sciences including Geology, Geomorphology, Geophysics, Glaciology and Geography	1	P	EAR-07	GEOMORPHOLOGICAL MAPPING OF THE UPPER GORI GANGA RIVER BASIN, CENTRAL HIMALAYA	Mamta Negi* ¹ and R.C. Joshi ²	¹ Department of Geography, S.P.S.S. Government Degree College, Gangolihat, Pithoragarh ² Department of Geography, DSB Campus, Kumaun University, Nainital	negi.mamta508@gmail.com

Engineering Science and Technology

Sr. No.	Discipline	CT	O/P	Roll No.	Title of Abstract (all UPPER)	Author's Name (* Presenting Author)	Author's Affiliation/Organization Address (ONE ADDRESS IN ONE LINE)	Presenting Author's Email
1	Engineering Science and Technology	1	O	ENG-01	POWER QUALITY IMPROVEMENT BY IMPLEMENTING A HYBRID ANALYTICAL APPROACH FOR ESTIMATION OF VOLTAGE SAG	Divya Chauhan* and Sandeep Kumar Goel	College of Technology, G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	divyachauhan.ee@gmail.com
2	Engineering Science and Technology	1	O	ENG-02	ASSESSMENT OF WATER QUALITY PARAMETERS OF SPRINGS IN BAGESHWAR, UTTARAKHAND	Mohd Azam*, Jyothi Prasad and H.J. Shiva Prasad	Civil Engineering Department, G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	azamsadar@gmail.com
3	Engineering Science and Technology	1	O	ENG-03	ANALYSIS OF SPRINGS IN ALMORA REGION OF LESSER HIMALAYAS	Prakhar Sharma*, Jhothi Prasad and H.J. Shiva Prasad	Civil Engineering Department, G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	prakharsharma8643@gmail.com
4	Engineering Science and Technology	1	O	ENG-04	SEASONAL ANALYSIS OF RAINFALL DATA OF SOUTHERN PART OF UTTARAKHAND USING STATISTICAL AND MANN KENDALL APPROACHES	Shekhar Singh* and Deepak Kumar	Department of Soil and Water Conservation Engineering (SWCE), G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	shekharsingh0498@gmail.com
5	Engineering Science and Technology	2	O	ENG-05	VENTILATION AUGMENTED HYDROTURBINES FOR MITIGATION OF SILT EROSION AND CAVITATION IN RUN-OF-RIVER HYDROSTATIONS OF UTTARAKHAND	Ashish Karn*	Department of Mechanical Engineering, University of Petroleum and Energy Studies, Dehradun	akarn@ddn.upes.ac.in
6	Engineering Science and Technology	2	O	ENG-06	OPTIMAL MICROGRID PLANNING AND OPERATION PROBLEM FORMULATION UNDER THE STOCHASTICITY OF RENEWABLE AND LOAD DATA: A CASE STUDY OF ROORKEE AREA	Maneesh Kumar* and Barjeev Tyagi	Department of Electrical Engineering, IIT Roorkee, Roorkee, Haridwar	maneesh.eeiitr@gmail.com

7	Engineering Science and Technology	2	O	ENG-07	ASSESSMENT OF IONOSPHERIC SLANT TOTAL ELECTRON CONTENT FOR PRECISE POSITIONING USING NAVIC SATELLITE SYSTEM	Sharat Chandra Bhardwaj* ¹ , Anurag Vidyarthi ¹ , B.S. Jassal ¹ and A.K. Shukla ²	¹ Department of Electronics and Communication, Graphic Era Deemed to Be University, Dehradun ² Space Applications Center, Indian Space Research Organization, Ahmedabad (GJ)	bhardwaj.sharat@gmail.com
8	Engineering Science and Technology	2	O	ENG-08	MICROALGAE-BASED SUSTAINABLE APPROACH FOR WASTEWATER TREATMENT AND ITS FOLLOWING WITH HYDROTHERMAL LIQUEFACTION FOR BIOFUEL AND BIOCHAR PRODUCTION	Vinod Kumar* ¹ and Mikhail S Vlaskin ²	¹ Algal Research and Bioenergy Lab, Department of Chemistry, Uttarakhand University, Dehradun ² Joint Institute for High Temperatures of the Russian Academy of Sciences, Izhorskaya St, Moscow, Russia	vinodkhatwalia@gmail.com
9	Engineering Science and Technology	1	P	ENG-09	RAINWATER HARVESTING MODEL USING GOOGLE EARTH: A CASE STUDY OF DEWAL VILLAGE OF CHAMOLI DISTRICT	Vaibhav Deoli* ¹ , Vipendra Singh Jinkwan ¹ and Shivani Nauri ²	¹ Department of Civil Engineering, Dev Bhoomi Institute of Technology, DBGI Dehradun ² Department of Chemistry, DAV (PG) College, Dehradun	deolivaibhavdeoli@gmail.com
10	Engineering Science and Technology	2	P	ENG-10	A SUPERVISED MACHINE LEARNING APPROACH FOR EFFICIENT PREDICTION OF WATER QUALITY FOR NAINI LAKE	Manisha Koranga* ¹ , Ashutosh Kumar Bhatt ² , R.P. Pant ³ and Tarun Kumar ⁴	¹ Department of Information Technology, D.S.B. Campus, Nainital ² Department of Computer Science, Birla Institute of Applied Sciences, Bhimtal ³ Department of Mathematics, DSB Campus, Nainital ⁴ Department of Chemistry, M.B. Govt. (PG) College, Haldwani	koranga.manisha@gmail.com

Environmental Science and Forestry

Sr. No.	Discipline	CT	O/P	Roll No.	Title of Abstract (all UPPER)	Author's Name (* Presenting Author)	Author's Affiliation/Organization Address (ONE ADDRESS IN ONE LINE)	Presenting Author's Email
1	Environmental Science and Forestry	1	O	ENV-01	STATUS OF PINE FOREST UNDER FIRE REGIME: AN ECOLOGICAL ASSESSMENT OF FOREST LOCATED IN UPPER-KOSI WATERSHED IN ALMORA DIST. OF UTTARAKHAND	Deepa Bisht* ¹ , Harshit Pant Jugran ¹ , A.K. Yadava ² and R.C. Sundriyal ³	¹ G.B. Pant National Institute of Himalayan Environment, Kosi-Katarmal, Almora ² Department of Forestry & Environmental Science, Soban Singh Jeena Campus, Kumaun University ³ Department of Forestry and Natural Resources, HNB Garhwal University (A Central University), Srinagar Garhwal, Pauri	bishtdeepa533@gmail.com

2	Environmental Science and Forestry	1	O	ENV-02	ENVIRONMENTAL DIMENSION OF STCR APPROACH: A TARGET YIELD BASED SMART NUTRIENT DELIVERY SYSTEM	Nidhi Luthra* and Ajaya Srivastava	Department of Soil Science, G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	nidhi27luthra@gmail.com
3	Environmental Science and Forestry	1	O	ENV-03	LEAF TRAITS VARIATION WITH RESPECT TO ALTITUDE IN TEMPERATE FOREST TREE SPECIES	Rajat Singh* and Tara Chand	Forest Ecology and Climate Change Division, Forest Research Institute, Dehradun	rajatsinghpanwar76@gmail.com
4	Environmental Science and Forestry	1	O	ENV-04	IDENTIFICATION OF BACTERIAL DIVERSITY AND THEIR ROLE IN MAINTAINING THE WATER QUALITY OF TRIBUTARIES OF GANGA RIVER AT CONFLUENCE OF ALAKNANDA-MANDAKINI, UTTARAKHAND	Sarita Bisht*	Forest Ecology and Climate Change Division, Forest Research Institute, Dehradun	bishtaaru@gmail.com
5	Environmental Science and Forestry	1	O	ENV-05	SUSTAINABLE UTILIZATION OF ALGAL BIOMASS FOR LOW-COST BIO-OIL PRODUCTION: CURRENT CHALLENGES AND FUTURE SCOPE	Sonika Kumari* ¹ , Vinod Kumar ¹ and Richa Kothari ²	¹ Agro-ecology and Pollution Research Laboratory, Department of Zoology and Environmental Science, Gurukula Kangri (Deemed to be University), Haridwar ² Department of Environmental Sciences, Central University of Jammu, Samba (JK)	sonikakumari02gkv@gmail.com
6	Environmental Science and Forestry	1	O	ENV-06	MODELING THE SPATIAL DYNAMICS OF FOREST FRAGMENTATION AND COVER OF A CENTRAL HIMALAYAN WATERSHED USING LANDSCAPE FRAGMENTATION TOOL AND CELLULAR AUTOMATA	Sourab Singh* and Sandipan Mukherjee	G.B. Pant National Institute of Himalayan Environment, Kosi-Katarmal, Almora	sourabsingh2018@gmail.com
7	Environmental Science and Forestry	1	O	ENV-07	MODELING OF ELECTROKINETIC ASSISTED ANAEROBIC DIGESTION OF SPENT MUSHROOM SUBSTRATE SUPPLEMENTED WITH SUGAR MILL EFFLUENT FOR ENHANCED METHANE PRODUCTION	Vinod Kumar and Pankaj Kumar*	Agro-ecology and Pollution Research Laboratory, Department of Zoology and Environmental Science, Gurukula Kangri (Deemed to be University), Haridwar	kumarpankajgkv@gmail.com
8	Environmental Science and Forestry	2	O	ENV-08	STANDARDIZATION OF DNA EXTRACTION PROTOCOL FOR <i>FRAXINUS XANTHOXYLOIDES</i> A COLD DESERT SPECIES GROWN IN WESTERN HIMALAYAS	Akshit Kukreti* ¹ , Neelam Kurmanchali ² , Manisha Thapliyal ¹ , Santan Barthwal ¹ , Laxmi Rawat ¹ , Haripriya Kavidayal ¹ , Rajat Singh ¹	¹ Forest Research Institute, Dehradun ² Doon Business School, Dehradun ³ College of Forestry Ranichauri	akshitkukreti1@gmail.com
9	Environmental Science and Forestry	2	O	ENV-09	DAIRY WASTE TO HEALTH: VALORIZATION OF DAIRY BY PRODUCT TO PRODUCE FUNCTIONAL PROBIOTIC BIOMASS AND ENHANCED ANTIMICROBIAL PEPTIDE PRODUCTION USING CO-CULTURE MODEL	Arun Beniwal*	Chemical Biology Group, Department of Biotechnology, Indian Institute of Technology Roorkee, Roorkee, Haridwar	arunbeniwal188@gmail.com

10	Environmental Science and Forestry	2	O	ENV-10	A COHERENT APPROACH OF WATER QUALITY INDICES AND MULTIVARIATE STATISTICAL MODELS TO ESTIMATE THE WATER QUALITY AND POLLUTION SOURCE APPORTIONMENT OF RIVER GANGA SYSTEM IN HIMALAYAN REGION, UTTARAKHAND, INDIA	Avinash Kumar* ¹ , Gagan Matta ¹ and S. Bhatnagar ²	¹ Department Zoology and Environmental Science, Gurukula Kangri University, Haridwar ² Pollution Control Research Institute, Haridwar	avinashkumar.rs@gkv.ac.in
11	Environmental Science and Forestry	2	O	ENV-11	IMPACT OF AIR POLLUTION ON ADAPTATION AND MITIGATION BEHAVIOUR OF <i>GREVILLEA ROBUSTA</i> AND <i>MANGIFERA INDICA</i>	Narendra Kumar*, Hukum Singh and Amit Kumar	Forest Research Institute, Dehradun	narendra.physiol@gmail.com
12	Environmental Science and Forestry	2	O	ENV-12	CLIMATE CHANGE VULNERABILITY ASSESSMENT OF UTTARAKHAND FOREST: A DYNAMIC VEGETATION MODELING APPROACH	Ram Kumar Singh* ¹ , Prashant Singh ¹ , Vinay SP Sinha ² and Manoj Kumar ³	¹ D.A.V. (PG) College, Dehradun ² TERI School of Advanced Studies, New Delhi ³ IT-GIS division, Forest Research Institute, Dehradun	singhramkumar@gmail.com
13	Environmental Science and Forestry	2	O	ENV-13	SCIENTIFIC EVIDENCE AND COMMUNITIES' PERCEPTION FOR VALIDATION OF CLIMATE CHANGE IN PAURI GARHWAL OF WESTERN HIMALAYAS	Shashidhar Kumar Jha* and A.K. Negi	Department of Forestry and Natural Resources, HNB Garhwal University (A Central University), Srinagar Garhwal, Pauri	shashidharkj@gmail.com
14	Environmental Science and Forestry	2	O	ENV-14	HABITAT SUITABILITY ASSESSMENT OF HIMALAYAN MONAL IN UPPER CATCHMENT AREA OF TONS RIVER, UTTARAKHAND USING GEOSPATIAL TECHNOLOGY TOOLS	Sonal Arora* ¹ , Sarnam Singh ² and S. Sathyakumar ³	¹ Indian Institute of Remote Sensing, ISRO, Dehradun ² Nalanda University, Rajgir, Bihar ³ Wildlife Institute of India, Dehradun	sonal.arora73@gmail.com
15	Environmental Science and Forestry	1	P	ENV-15	AGRICULTURE WASTE DERIVED GRAPHENE NANOSHEETS FOR NEW GENERATION SUPERCAPACITORS AND CONCRETE MATERIALS	Gaurav Tatrari* and Nanda Gopal Sahoo	PRSNSNT Centre, Department of Chemistry, DSB Campus, Kumaun University, Nainital	yashtatrari93@gmail.com
16	Environmental Science and Forestry	1	P	ENV-16	VARIATION IN PHENOPHASES OF BANJ OAK (<i>QUERCUS LEUCOTRICHOPHORA</i> A. CAMUS) TREE ALONG AN ELEVATION GRADIENT IN KUMAUN HIMALAYA, INDIA	Komal Joshi* and Jeet Ram	Department of Forestry and Environmental Science, Kumaun University, Nainital	komalmamtajoshi@gmail.com
17	Environmental Science and Forestry	1	P	ENV-17	SEASONAL VARIATION OF AMBIENT AIR QUALITY IN UTTARAKHAND, INDIA	Meera Goswami* ¹ , Hemwati Nandan ¹ , P.C. Joshi ¹ and Narendra Singh ²	¹ Gurukula Kangri University, Haridwar ² Aryabhata Research Institute of Observational Sciences (ARIES), Nainital	rs.meeragowswami@gkv.ac.in
18	Environmental Science and Forestry	1	P	ENV-18	DO SEED SIZE AND SHADE DESICCATION EFFECT THE GERMINATION OF <i>SPONDIAS PINNATA</i> (L.F.) KURZ. SEEDS?	Nandita Negi* and A.K. Negi	Department of Forestry and NR., HNB Garhwal University (A Central University), Srinagar Garhwal, Pauri	nnegi786@gmail.com
19	Environmental Science and Forestry	1	P	ENV-19	ANALYSIS OF BIOMASS PRODUCTION AND CARBON SEQUESTRATION RATE OF <i>ACACIA CATECHU</i> WILLD. FOREST IN TARAI AND BHABAR REGION, UTTARAKHAND	Neha Chopra*, Lalit Tewari and Ashish Tewari	D.S.B. Campus, Kumaun University, Nainital	neha.c05@yahoo.com

20	Environmental Science and Forestry	1	P	ENV-20	EFFECTS OF BIOCHAR, CROP RESIDUES AND SLOW RELEASE NITROGEN FERTILIZER ON CO ₂ EMISSIONS FROM RICE-WHEAT CROPPING SYSTEM	Prayasi Nayak* and Sumit Chaturvedi	Department of Agronomy, G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	prayasinayak12@gmail.com
21	Environmental Science and Forestry	1	P	ENV-21	EFFECT OF SEED DISPERSAL DISTANCE ON GERMINATION AND SURVIVAL OF <i>SHOREA ROBUSTA</i> ROTH. IN GARHWAL HIMALAYA	Radheshyam Junjariya* and A.K. Negi	Department of Forestry and NR., HNB Garhwal University (A Central University), Srinagar Garhwal, Pauri	radheyraj@hotmail.com
22	Environmental Science and Forestry	2	P	ENV-22	EFFECT OF SMOKE AND FIRE-RELATED CUE ON SEED GERMINATION BEHAVIOUR OF <i>BERBERIS ARISTATA</i> DC: AN IMPORTANT MEDICINAL PLANT	Amreen* and A.K. Negi	Department of Forestry and Natural Resources, HNB Garhwal University (A Central University), Srinagar Garhwal, Pauri	amreenansari1990@gmail.com
23	Environmental Science and Forestry	2	P	ENV-23	A SILVI-PATHOLOGICAL APPROACH FOR PRODUCTION OF ECOLOGICALLY IMPORTANT SILK COTTON TREE	Jalaj Saxena*, Amit Pandey, Dinesh Kumar and Anup Chandra	Forest Research Institute, Dehradun	jalajsaxena89@gmail.com

Home Science

Sr. No.	Discipline	CT	O/P	Roll No.	Title of Abstract (all UPPER)	Author's Name (* Presenting Author)	Author's Affiliation/Organization Address (ONE ADDRESS IN ONE LINE)	Presenting Author's Email
1	Home Science	1	O	HOM-01	PREVALENCE OF FUNCTIONAL CONSTIPATION AND FACTORS ASSOCIATED WITH BOWEL SYMPTOMS IN ADULTS	Akanksha Singh* and Rita Singh Raghuwanshi	Department of Foods and Nutrition, College of Home Science, G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	akanksha513510@gmail.com
2	Home Science	1	P	HOM-02	STRESS AND HEALTH: BEHAVIOURAL, PHYSIOLOGICAL AND PSYCHOLOGICAL DETERMINANTS	Sangya Singh* and Aditi Vats	College of Home Science, G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	sangyachauhan@gmail.com
3	Home Science	1	P	HOM-03	GOING VOCAL FOR LOCAL WITH AIPAN BASED TEXTILE PRODUCTS	Vandana Bhandari* and Anita Rani	College of Home Science, G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	bhandarivandana2016@gmail.com

Material Science and Nano Technology

Sr. No.	Discipline	CT	O/P	Roll No.	Title of Abstract (all UPPER)	Author's Name (* Presenting Author)	Author's Affiliation/Organization Address (ONE ADDRESS IN ONE LINE)	Presenting Author's Email
1	Material Science and Nano Technology	1	O	MAT-01	IMPORTANCE OF GREEN SYNTHESIS ON THE PREPARATION OF NANOPARTICLES	Debanjali Barman Roy* and T.K. Mandal	ICFAI Tech School, The ICFAI University, Dehradun	debanjali.roy@iudehradun.edu.in
2	Material Science and Nano Technology	1	O	MAT-02	BIOMEDICAL APPLICATION OF GRAPHENE BASED NANOMATERIAL FOR TARGETED DRUG DELIVERY APPLICATION	Neha Karki*, Himani Tiwari and Nanda Gopal Sahoo	PRSNSNT Centre, Department of Chemistry, DSB Campus, Kumaun University, Nainital	nehakarki19@gmail.com

3	Material Science and Nano Technology	1	O	MAT-03	STUDY OF THE FORMATION OF COPPER SULFIDE NANOPARTICLES VIA HYDROTHERMAL PROCESS	Pooja Rawat* and Shubhra Kala	Department of Physics, HNB Garhwal University (A Central University), Srinagar Garhwal, Pauri	poojarawat1565@gmail.com
4	Material Science and Nano Technology	1	O	MAT-04	STRUCTURAL AND OPTICAL PROPERTIES OF COBALT FERRITE NANOPARTICLES	Reena Dhyani*, Amit Joshi, R.C. Srivastava and Gagan Dixit	Department of Physics, G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	reenadhyan16@gmail.com
5	Material Science and Nano Technology	1	O	MAT-05	INVESTIGATION OF DIELECTRIC AND FERROELECTRIC PROPERTIES OF 0.75PMN-0.25PT CERAMICS PREPARED BY SOLID STATE REACTION METHOD	Sidharth Kashyap*, S.C. Bhatt, Manish Uniyal and Gambheer Singh Kathait	HNB Garhwal University (A Central University), Srinagar Garhwal, Pauri	sid.kashyap1@gmail.com
6	Material Science and Nano Technology	2	O	MAT-06	ROLE OF CuO NANOMATERIALS FOR THE ENHANCEMENT OF STRENGTH OF CLAYEY SOIL	Amit Kumar Bera* and T.K. Mandal	ICFAI Tech School, The ICFAI University, Dehradun	amit.bera@iudehradun.edu.in
7	Material Science and Nano Technology	1	P	MAT-07	BACTERIA DERIVED LUMINESCENT CARBON QUANTUM DOTS AND THEIR APPLICATIONS	Megha Pant* ¹ , Veena Pande ¹ and Anirban Dandapat ²	¹ Department of Biotechnology, Sir J.C. Bose Technical Campus, Bhimtal (Kumaun University, Nainital) ² Department of Chemistry, DSB Campus, Kumaun University, Nainital	pantmegha642@gmail.com
8	Material Science and Nano Technology	1	P	MAT-08	DEVELOPMENT OF HIGHLY EFFICIENT MAGNETICALLY FUNCTIONALIZED GRAPHENE OXIDE AS A NANOCARRIER FOR ANTICANCER DRUG	Monika Matiyani*, Himani Tiwari, Neha Karki and Nanda Gopal Sahoo	Nanoscience and Nanotechnology Centre, Department of Chemistry, DSB Campus, Kumaun University, Nainital	monikamatiyani95@gmail.com
9	Material Science and Nano Technology	1	P	MAT-09	STUDY OF DIELECTRIC PROPERTIES IN KDA CRYSTAL	Pawan Singh* and Trilok Chandra Upadhyay	Department of Physics, HNB Garhwal University (A Central University), Srinagar Garhwal, Pauri	pawansingh4853@gmail.com
10	Material Science and Nano Technology	2	P	MAT-10	CHARACTERIZATION OF CHEMICALLY MODIFIED MANDUA STARCH FOR INDUSTRIAL APPLICATIONS	Mayank Kumar Malik* ^{1,2} , Vipin Kumar ² , Japal Singh ¹ and R.D. Kaushik ¹	¹ Department of Chemistry ² Department of Pharmaceutical Sciences Gurukul Kangri (Deemed to be University), Haridwar	comdt.malik@gmail.com
11	Material Science and Nano Technology	2	P	MAT-11	STUDY OF PHASE TRANSITION PROPERTIES IN FERROELECTRIC CESIUM DIHYDROGEN PHOSPHATE (CSH ₂ PO ₄) CRYSTAL	Muzaffar Iqbal Khan* and Trilok Chandra	Department of Physics, HNB Garhwal University (A Central University), Srinagar Garhwal, Pauri	muzaffariqbalkhan786@gmail.com
12	Material Science and Nano Technology	2	P	MAT-12	BIOSYNTHESIZED SILVER NANOCUBOIDS FROM ENDOPHYTIC FUNGI <i>COLLETOTRICHUM PLURIVORUM</i> AND THEIR POTENT ACTIVITY AGAINST HUMAN PATHOGENS	Suresh Kumar* ¹ , Aman Kumar ¹ , Veena Pande ¹ and Anirban Dandapat ²	¹ Department of Biotechnology, Sir J.C. Bose Technical Campus, Bhimtal (Kumaun University, Nainital) ² Department of Chemistry, DSB Campus, Kumaun University, Nainital	sunny.sharma092@gmail.com

Mathematics; Statistics and Computer Science

Sr. No.	Discipline	CT	O/P	Roll No.	Title of Abstract (all UPPER)	Author's Name (* Presenting Author)	Author's Affiliation/Organization Address (ONE ADDRESS IN ONE LINE)	Presenting Author's Email
1	Mathematics; Statistics and Computer Science	1	O	MATH-01	STOCHASTIC MODELING OF K/R-OUT-OF-N SYSTEM UNDER PERIODIC INSPECTIONS	Himani Pant* and S.B. Singh	Department of Mathematics, Statistics and Computer Science, G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	himanipant.0006@gmail.com
2	Mathematics; Statistics and Computer Science	1	O	MATH-02	ANALYSIS OF ENTROPY GENERATION MINIMIZATION IN SQUEEZING FLOW OF HYBRID NANOFUID BETWEEN PARALLEL PLATES	Himanshu Upreti* and Manoj Kumar	Department of Mathematics Statistics and Computer Science, G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	hupretidream@gmail.com
3	Mathematics; Statistics and Computer Science	1	O	MATH-03	A MULTI-OBJECTIVE SYSTEM BASED ON ACTOR-CRITIC REINFORCEMENT LEARNING FOR STOCK TRADING	Kiran Bisht* and Arun Kumar	G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	kiranbisht96@gmail.com
4	Mathematics; Statistics and Computer Science	1	O	MATH-04	EOQ MODEL WITH A DISCOUNT RATE OF INFLATION AND OPTIMIZATION WITH PENTAGONAL FUZZY NUMBER	Neelanjana Rajput* ¹ , R.K. Pandey ¹ and Anand Chauhan ²	¹ D.B.S. (PG) College, Dehradun ² Graphic Era (Deemed to be University), Dehradun	neelrajput14@gmail.com
5	Mathematics; Statistics and Computer Science	1	O	MATH-05	A NEURAL NETWORK BASED MODEL WITH LOCKDOWN CONDITION FOR CHEKING THE DANGER STAGE LEVEL OF COVID-19 INFECTION RISK	Shailendra Giri* ¹ , Pradeep Kumar Yadav ² and and Harendra Kumar ¹	¹ Department of Mathematics and Statistics, Gurukula Kangri University, Haridwar ² Department of Research Planning and Business Development, Central Building Research Institute, Roorkee	shailly7777@gmail.com
6	Mathematics; Statistics and Computer Science	1	O	MATH-06	RELIABILITY ANALYSIS AND COST OPTIMIZATION FOR MULTI-FAILURE SYSTEM UNDER ERLANG DISTRIBUTION INCORPORATING ALTERNATING RENEWAL PROCESS AND M/E ₂ /1 QUEUE	Shweta Agarwal* and S.B. Singh	Department of Mathematics, Statistics and Computer Science, G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	agarwalshweta2405@gmail.com
7	Mathematics; Statistics and Computer Science	2	O	MATH-07	FACE MASKED CANCELABLE BIOMETRIC TEMPLATE GENERATION USING RANDOM PERMUTATION IN COVID19 ERA	Manisha* and Nitin Kumar	Department of Computer Science and Engineering, National Institute of Technology, Srinagar Garhwal, Pauri	manisharawatphd@nituk.ac.in
8	Mathematics; Statistics and Computer Science	1	P	MATH-08	SUPERVISED LEARNING OF HUMAN CROWD IMAGINARY DATA USING CONVOLUTIONAL NEURAL NETWORK (CNN)	Amrish*. Shwetank, Saurabh Kumar and Mukul Sharma	Department of Computer Science, Faculty of Technology, Gurukula Kangri University, Haridwar	rs.amrishkumar@gkv.ac.in

9	Mathematics; Statistics and Computer Science	2	P	MATH-09	EFFECT OF UNCERTAINTY IN DEMAND AND PRODUCTION FOR MANUFACTURING INDUSTRIES DURING COVID-19	Renu Sharma* ¹ , Anubhav Pratap Singh ² , Ritu Arora ¹ and Anand Chauhan ³	¹ Department of Mathematics and Statistics, Gurukula Kangri University, Haridwar ² Department of Mathematics, S.G.R.R. (PG) College, Dehradun ³ Department of Mathematics, Graphic Era University, Dehradun	km.renuvishwkarma@gmail.com
10	Mathematics; Statistics and Computer Science	2	P	MATH-10	FEATURE EXTRACTION OF LU/LC OF HARIDWAR REGION USING REMOTE SENSING LANDSAT-8 OLI SATELLITE IMAGERY	Saurabh Kumar*, Shwetank Arya and Amrish	Gurukula Kangri University, Haridwar	rs.saurabhkumar@gkv.ac.in

Medical Science including Pharmaceutical Science

Sr. No.	Discipline	CT	O/P	Roll No.	Title of Abstract (all UPPER)	Author's Name (* Presenting Author)	Author's Affiliation/Organization Address (ONE ADDRESS IN ONE LINE)	Presenting Author's Email
1	Medical Science including Pharmaceutical Science	1	O	MED-01	FORMULATION AND EVALUATION OF BUCCAL TABLET RABEPRAZOLE SODIUM	Ajit Singh* and Achana Rautela	Gyani Inder Singh Institute of Professional Studies, Dehradun	ajitsingh201617@gmail.com
2	Medical Science including Pharmaceutical Science	1	O	MED-02	THE METHOD OF PREPARATION OF PLATELET RICH PLASMA USING SEPARATING GEL PRP TUBES FOR LIGHT TRANSMITTANCE AGGREGOMETRY	Atul Kumar Kashyap*, Bonu Saikrishna and Bhanu Duggal	Department of Cardiology, All India Institute of Medical Sciences, Rishikesh, Dehradun	atulkashyap5@gmail.com
3	Medical Science including Pharmaceutical Science	1	O	MED-03	A STUDY OF ALCOHOL USE AMONG HOSPITALIZED DRIVER VICTIMS OF ROAD TRAFFIC ACCIDENTS: A QUESTIONNAIRE BASED PILOT STUDY	Esther Lalringzo*, Vishal Dhiman, Ravi Gupta, Aniruddha, Bhaskar Sarkar and Ashish R Bhute	All India Institute of Medical Sciences, Rishikesh, Dehradun	estherlalringzo@gmail.com
4	Medical Science including Pharmaceutical Science	1	O	MED-04	ISOLATION AND IDENTIFICATION OF AN ANTIOXIDANT CONSTITUENT FROM SATYRIUM NEPALENSE (HIMALAYAN ORCHID)	Monika Kawra* and Sarla Saklani	Department of Pharmaceutical Chemistry, HNB Garhwal University (A Central University), Srinagar Garhwal, Pauri	kawra.monika8@gmail.com
5	Medical Science including Pharmaceutical Science	1	O	MED-05	COMPARITIVE EFFICACY OF ONDANSETRON VERSUS GRANISETRON TO PREVENT PERIOPERATIVE NAUSEA AND VOMITING IN PATIENTS UNDERGOING GYNAECOLOGICAL SURGERY UNDER SPINAL ANESTHESIA	Nidhi Dubey* and Robina Makker	Shri Guru Ram Rai Institute of Medical & Health Sciences, Dehradun	nidhi.dubey.1422@gmail.com
6	Medical Science including Pharmaceutical Science	1	O	MED-06	INTERACTION STUDIES OF PHYTOCOMPOUNDS OF THE INVASIVE WILD PLANTS WITH ACHE PROTEIN OF	Somya Sinha*	Graphic Era Deemed to Be University, Dehradun	somya12121993@gmail.com

					BEETLES AND APHIDS, USING <i>IN-SILICO</i> APPROACH			
7	Medical Science including Pharmaceutical Science	1	O	MED-07	POST EXTUBATION AIRWAY CONDITIONS AFTER DIRECT LARYNGOSCOPIC BIOPSY; A COMPARATIVE EVALUATION BETWEEN LIGNOCAINE NEBULIZATION AND LIGNOCAINE LOZENGES	Tejasvini Sharma* and Kanika Sachdeva	Shri Guru Ram Rai Institute of Health & Medical Sciences, Dehradun	sharmatejasvini81@gmail.com
8	Medical Science including Pharmaceutical Science	1	O	MED-08	COMPARISON OF EFFICACY OF ATRACURIUM VERSUS CISATRACURIUM ON PATIENTS GOING FOR SURGERY UNDER GENERAL ANESTHESIA	Tooba Naaz*, Robina Makker and Pritish Ranjan	Shri Guru Ram Rai Institute of Medical & Health Sciences, Dehradun	toobanz@gmail.com
9	Medical Science including Pharmaceutical Science	1	O	MED-09	ALTERING GENE EXPRESSION PATTERN ASSOCIATED WITH ENDOMETRIAL CANCER BY HISTONE METHYLATION AND INHIBITION OF MATRIX METALLOPROTEINASES	Tushar Singhal* ¹ , Deepak Goel ² , N.V. Satheesh Madhav ¹ and Vineeta Gupta ³	¹ DIT University, Dehradun ² MAX Institute of Neurosciences, Dehradun, MAX Healthcare Dehradun ³ Faculty of Medicine, Shri Guru Ram Rai Institute of Medical & Health Sciences, Dehradun	tushar.singhaldehradun@outlook.com
10	Medical Science including Pharmaceutical Science	2	O	MED-10	DOSIMETRIC COMPARISON BETWEEN TWO ADVANCED TREATMENT MODALITIES IMRT AND 3DCRT IN CARCINOMA OF BREAST PATIENTS	Jyoti Bisht* ¹ , Ravi Kant ¹ , Meenu Gupta ¹ , Vipul Nautiyal ¹ , Saurabh bansal ¹ , Rishabh Dobhal ¹ , Mushtaq Ahmed ¹ and Sunil Saini ²	¹ Department of Radiation Oncology ² Department of Surgical Oncology, CRI, SRHU, Dehradun	jyoti797bisht@gmail.com
11	Medical Science including Pharmaceutical Science	2	O	MED-11	EFFICACY OF INTRATHECAL CLONIDINE AND FENTANYL IN HYPERBARIC BUPIVACAINE FOR SPINAL ANAESTHESIA AND POSTOPERATIVE ANALGESIA IN LOWER ABDOMINAL SURGERIES : A COMPARATIVE STUDY	Mohammad Aouranzhaib*, Vinay Rai and Kumar Parag	Shri Guru Ram Rai Institute of Medical & Health Sciences, Dehradun	aquib02siddiqui@gmail.com
12	Medical Science including Pharmaceutical Science	2	O	MED-12	COMBINED SCIATIC FEMORAL NERVE BLOCK FOR UNILATERAL LOWER LIMB SURGERY IN KYPHOTIC PATIENT : A CASE REPORT	Naveen Chandra Singh*	Department of Anaesthesiology, Critical Care and Pain Medicine, Shri Guru Ram Rai University, Dehradun	naveen.bisht28@gmail.com
13	Medical Science including Pharmaceutical Science	2	O	MED-13	DOSIMETRIC ANALYSIS OF ORGAN AT RISK DOSES AND VOLUMETRIC VARIATION IN TARGET VOLUME IN ENDOBRONCHIAL BRACHYTHERAPY TREATMENT SESSION: A PILOT STUDY	Ravi Kant*, Meenu Gupta, Jyoti Bisht, Vipul Nautiyal, Saurabh Bansal, Shivani Mehra, Rishabh Dobhal, Mushtaq Ahmed and Sunil Saini	Cancer Research Institute, Swami Rama Himalayan University, Dehradun	ravikantphy@gmail.com

14	Medical Science including Pharmaceutical Science	2	O	MED-14	STEVENS JOHNSON SYNDROME- TOXIC EPIDERMAL NECROLYSIS AND HEPATITIS INDUCED BY A COMBINATION OF PHENYTOIN AND VALPROIC ACID: A RARE CASE REPORT	Vikram Singh Dhapola*, Bhavana Srivastava and Kalpana Joshi	Govt. Medical College, Haldwani, US Nagar	drdhapola90@gmail.com
15	Medical Science including Pharmaceutical Science	3	O	MED-15	A NEW BIOENGINEERED SKIN SCAFFOLD IN NON HEALING ULCERS	Vishal Mago* ¹ , Debrupa Lahiri ² and Parth Roy ²	¹ All India Institute of Medical Sciences, Rishikesh, Dehradun ² IIT Roorkee, Roorkee	vishal.psurg@aiimsrishikesh.edu.in
16	Medical Science including Pharmaceutical Science	1	P	MED-16	SUBARACHNOID BLOCK AS ANAESTHESIA FOR MANAGEMENT OF EMERGENCY LOWER SEGMENT CAESERIAN SECTION IN A PATIENT WITH IN SITU VENTRICULOPERITONEAL SHUNT	Aastha Gupta* and Puneet Banga	Shri Guru Ram Rai Institute of Health & Medical Sciences, Dehradun	gdraastha@gmail.com
17	Medical Science including Pharmaceutical Science	1	P	MED-17	PHARMACOLOGICAL PRECONDITIONING WITH NICORANDIL ATTENUATES GLOBAL CEREBRAL ISCHEMIA/REPERFUSION INJURY IN MICE	Anjali Singh*	Devasthali Vidyapeeth, College of Pharmacy, Rudrapur, US Nagar	anjali.anjali.singh231@gmail.com
18	Medical Science including Pharmaceutical Science	1	P	MED-18	ADVANCED DRUG DELIVERY SYSTEM OF CURCUMIN FOR CHEMOPREVENTION	Binita Palariya*	Devasthali Vidyapeeth, College of Pharmacy, Rudrapur, US Nagar	palariya.binita@gmail.com
19	Medical Science including Pharmaceutical Science	1	P	MED-19	DIAGNOSTIC IMAGING SPECTRUM OF INVASIVE FUNGAL INFECTION	Divya Chauhan* and Mukesh Chamoli	Department of Radiology, Shri Guru Ram Rai Institute of Medical & Health Sciences, College of Paramedical Science, SGRR University, Dehradun	divyachauhan2233@gmail.com
20	Medical Science including Pharmaceutical Science	1	P	MED-20	ANAESTHETIC MANAGEMENT OF A PATIENT WITH PERIOPERATIVE ANAPHYLACTIC REACTION TO INTRAVENOUS DICLOFENAC SODIUM	Harsimran Manchanda* and Robina Makker	Shri Guru Ram Rai Institute of Medical & Health Sciences, Dehradun	dr.harsimranmanchanda@gmail.com
21	Medical Science including Pharmaceutical Science	1	P	MED-21	WHAT IS SUBMENTAL INTUBATION ALL ABOUT ? A CASE REPORT STUDY	Jitesh Talwar*	Department of Anaesthesiology, Critical Care and Pain Medicine, Shri Guru Ram Rai University, Dehradun	drjiteshtalwar@gmail.com
22	Medical Science including Pharmaceutical Science	1	P	MED-22	BIOCHEMICAL AND MOLECULAR CHARACTERIZATION OF CEREBROSPINAL FLUID FOR THE EARLY AND ACCURATE DIAGNOSIS OF <i>MYCOBACTERIUM TUBERCULOSIS</i>	Komal Gupta*, Shilpa Semwal, Vivek Kumar, Takreem and Narotam Sharma	DNA Labs-A Centre for Applied Sciences, Dehradun	komal2608gupta@gmail.com
23	Medical Science including Pharmaceutical Science	1	P	MED-23	INITIAL EXPERIENCE OF RADIOPHARMACEUTICALS INTRAVENOUS ACCESS WITH A-DIVA SCORE	Meena Negi*, Vandana Kumar Dhingra, Jyoti Khanka and Leesa Thakur	Department of Nuclear Medicine, All India Institute of Medical Sciences, Rishikesh, Dehradun	negimeena10@gmail.com

24	Medical Science including Pharmaceutical Science	1	P	MED-24	MALPOSITION OF CENTRAL VENOUS CATHETER IN THE IPSILATERAL ANTERIOR JUGULAR VEIN VIA THE RIGHT SUBCLAVIAN VEIN WITH ASSOCIATED CATHETER-RELATED THROMBOSIS	Priya Sachan*, Madhuri Sharma and Vaibhav Shahi	Shri Guru Ram Rai Institute of Medical & Health Sciences, Dehradun	sachanpriya09@gmail.com
25	Medical Science including Pharmaceutical Science	1	P	MED-25	MATERIOVIGILANCE IN THE HEALTHCARE SYSTEM: AN OVERVIEW	Ritu Pundir* and Mamta F. Singh	Department of Pharmacology, School of Pharmaceutical Sciences and Technology, Sardar Bhagwan Singh University, Dehradun	ritupundir29@gmail.com
26	Medical Science including Pharmaceutical Science	1	P	MED-26	PHARMACY: FRONTLINE HEALTHCARE PROFESSION	Rohit Kumar Trivedi* ¹ , Ganana Rajan ¹ and Ganesh Kumar ²	¹ Department of Pharmaceutical Sciences, SGRR University, Dehradun ² College of Pharmacy Shivalik Campus, Dehradun	rohittrivedi321@gmail.com
27	Medical Science including Pharmaceutical Science	1	P	MED-27	EVALUATION OF IMMUNOSTIMULANT AND ANTIOXIDANT ACTIVITY OF ETHANOLIC EXTRACT OF PUTRANJIVA ROXBURGHII LEAVES AND BARK IN CYCLOPHOSPHAMIDE INDUCED IMMUNOSUPPRESSED MICE	Swati Tamta* and Veerma Ram	Department of Pharmacology, School of Pharmaceutical Sciences and Technology, Sardar Bhagwan Singh University, Dehradun	swarna55kuku@gmail.com
28	Medical Science including Pharmaceutical Science	2	P	MED-28	EVALUATING ROLE OF A MULTIMODAL, INTERDISCIPLINARY, PATIENT CENTRED AND PRAGMATIC ENHANCED PERIOPERATIVE RECOVERY PROGRAMME FOR PATIENTS UNDERGOING HEAD AND NECK CANCER SURGERY: A DIFFERENCE-IN-DIFFERENCES ANALYSIS	Nishith Govil* ¹ , Mukesh Tripathi ² , S.P. Agrawal ³ and Pankaj Garg ³	¹ Department of Anaesthesiology, Shri Guru Ram Rai Institute of Medical & Health Sciences, Dehradun ² All India Institute of Medical Science, Mangalagiri ³ All India Institute of Medical Science, Rishikesh	nishithgovil@rediffmail.com
29	Medical Science including Pharmaceutical Science	2	P	MED-29	AN INSIGHT INTO THE EPIDEMIOLOGY AND GENETIC SPECTRUM OF SARS-COV-2 STRAINS CIRCULATING IN UTTARAKHAND	Sangeeta Deka* ¹ , Girish Sindhwani ² , Amit Mangla ¹ and Deepjyoti Kalita ¹	¹ Department of Microbiology ² Department of Pulmonary Medicine All India Institute of Medical Sciences, Rishikesh, Dehradun	drsangeeta2009@gmail.com
30	Medical Science including Pharmaceutical Science	2	P	MED-30	A CASE OF TRIGEMINOCARDIAC REFLEX IN A PATIENT OF TEMPORAMANDIBULAR JOINT ANKYLOSIS	Shiveta Gautam* and Saurabh Varshney	Shri Guru Ram Rai Institute of Medical & Health Sciences, Dehradun	shiveta29@gmail.com

Physics

Sr. No.	Discipline	CT	O/P	Roll No.	Title of Abstract (all UPPER)	Author's Name (* Presenting Author)	Author's Affiliation/Organization Address (ONE ADDRESS IN ONE LINE)	Presenting Author's Email
1	Physics	1	O	PHY-01	MODULATION OF FLUORESCENCE PROPERTIES OF 5-AMINOQUINOLINE IN AN AQUEOUS MEDIA VIA CHARGE TRANSFER: AN EXPERIMENTAL AND THEORETICAL INVESTIGATION	Nupur Pandey* ¹ , Sanjay Pant ¹ , Nisha Fatma ¹ and Mohan Singh Mehta ²	¹ Photophysics Laboratory, Department of Physics, DSB Campus, Kumaun University, Nainital ² Laser Spectroscopy Laboratory, Department of Applied Physics, Delhi Technological University, Delhi	mahipndey@gmail.com
2	Physics	1	O	PHY-02	SMART DUAL MODE DEVICE FOR ON DEMAND FILTRATION OF OIL/WATER MIXTURES AND EMULSIONS	Parul Raturi* ¹ and J.P. Singh ²	¹ O.N.S. Degree College, Devprayag, Tehri ² Department of Physics, Indian Institute of Technology Delhi, New Delhi	parul2001519@gmail.com
3	Physics	1	O	PHY-03	OPTICAL PROPERTIES OF ROTATING DYONIC BLACK HOLE IN $N=2, U(1)^2$ GAUGED SUPERGRAVITY	Prateek Sharma*, Hemwati Nandan and Arindam Kumar Chatterjee	Department of Physics, Gurukula Kangri Vishwavidyalaya, Haridwar	prteeksh@gmail.com
4	Physics	1	O	PHY-04	STABILITY ANALYSIS OF GEODESICS AROUND A DUAL CHARGED STRINGY BLACK HOLE VIA LYAPUNOV EXPONENT	Shobhit Giri* and Hemwati Nandan	Department of Botany and Microbiology, Gurukula Kangri (Deemed to be University), Haridwar	shobhit6794@gmail.com
5	Physics	1	O	PHY-05	GEODESICS STUDY AROUND A CHARGED ROTATING ACCELERATING BLACK HOLE	Shubham Kala*, Hemwati Nandan and Prateek Sharma	Gurukula Kangri (Deemed to be University), Haridwar	shubhamkala871@gmail.com
6	Physics	1	O	PHY-06	COMPARSION OF DIFFERENT MODELS FOR SIZE AND SHAPE DEPENDENCE OF MELTING TEMPERATURE FOR NANOMATERIALS	Soni Sharma* and Munish Kumar	Department of Physics, G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	sonisharma.physics@gmail.com
7	Physics	1	O	PHY-07	STATISTICAL MODELLING AND ANALYSIS OF PRECIPITATION, TEMPERATURE AND CLOUD COVER OVER NORTH WESTERN INDIAN HIMALAYAN STATES BASED ON A CENTURY LONG DATASET	Vineet Ahuja* ¹ , Chhavi P. Pandey ² , Hemwati Nandan ¹ and P.P. Pathak ¹	¹ Gurukula Kangri University, Haridwar ² Wadia Institute of Himalayan Geology, Dehradun	vineet.ahuja23@gmail.com
8	Physics	2	O	PHY-08	A HIGHLY FLUORESCENT CHEMOSENSOR FOR MERCURY AT NEUTRAL Ph	Kiran Kumari* and Sanjay Pant	Photophysics Laboratory, Department of Physics, DSB Campus, Kumaun University, Nainital	kiran89kumari@gmail.com

9	Physics	2	O	PHY-09	VARIATIONS IN SURFACE OZONE OVER DOON VALLEY: EFFECTS OF EMISSIONS AND METEOROLOGY	Kiran Sharma* ¹ , Imran Girach ² , Neetu Sharma ¹ , Narendra Singh ³ and Narendra Ojha ⁴	¹ Graphic Era deemed to be University, Dehradun ² Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram ³ Aryabhata Research Institute of Observational Sciences, Nainital ⁴ Physical Research Laboratory, Ahmedabad	kkiransharma@gmail.com
10	Physics	2	O	PHY-10	OPTICAL AND THERMODYNAMIC PROPERTIES OF A ROTATING DYONIC BLACK HOLE SPACETIME IN $N=2, U(1)^2$ GAUGED SUPERGRAVITY	Prateek Sharma, Hemwati Nandan, Uma Papnoi* and Arindam Kumar Chatterjee	Department of Physics, Gurukula Kangri Vishwavidyalaya, Haridwar	uma.papnoi@gmail.com
11	Physics	3	O	PHY-11	ENHANCEMENT IN SELF-FOCUSING OF COSH-GAUSSIAN LASER BEAM THROUGH PLASMA	Gunjan Purohit* and Pradeep Kothiyal	D.A.V. (PG) College, Dehradun	gunjan75@gmail.com
12	Physics	2	P	PHY-12	ELECTRONIC SPECTRA OF CORRELATED QUANTUM DOT COUPLED BCS SUPERCONDUCTORS	B.S. Tewari* and K. Semwal	G.B. Pant Institute of Engineering and Technology, Ghurdauri, Pauri Garhwal	bhagyasindhu@gmail.com

Rural Technology

Sr. No.	Discipline	CT	O/P	Roll No.	Title of Abstract (all UPPER)	Author's Name (* Presenting Author)	Author's Affiliation/Organization Address (ONE ADDRESS IN ONE LINE)	Presenting Author's Email
1	Rural Technology	1	O	RUR-01	IMPACT OF CAPACITY BUILDING AND TRAINING PROGRAMMES OF FOOD PROCESSING ON SOCIO-ECONOMIC STATUS OF FARMERS IN TEHRI GARHWAL	Kirti Kumari*, Aalok Gulabrao Yewale and Shikha	Krishi Vigyan Kendra, Ranichauri, Tehri Garhwal, VCSG Uttarakhand University of Horticulture and Forestry, Bharsar, Pauri Garhwal	kumarikirti95@gmail.com
2	Rural Technology	2	O	RUR-02	PROSPECTS AND CHALLENGES OF WOMAN ENTREPRENEURSHIP AMONG TRIBES OF JAUNSAAR-BAWAR UTTARAKHAND	Priyanka Pandey* and Preeti Sharma	DIT University, Dehradun	priyanka.pandey13@gmail.com
3	Rural Technology	3	O	RUR-03	BIO-BRIQUETTE IS AN ALTERNATIVE SOURCE OF ENERGY	Kailash Puspwan*	Himalayan Gramin Vikash Sanstha, Kimana, Ukhimath, Rudraprayag	puspwankailash@gmail.com
4	Rural Technology	1	P	RUR-04	WEAR RESISTANCE OF DISC OF DISC HARROW AS AFFECTED BY SOIL, TOOL AND OPERATING PARAMETERS	Annu Rani*, T.P. Singh and Jayant Singh	G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	annuchaudhary39@gmail.com

Science and Society/ Science Communication

Sr. Mo.	Discipline	CT	O/P	Roll No.	Title of Abstract (all UPPER)	Author's Name (* Presenting Author)	Author's Affiliation/Organization Address (ONE ADDRESS IN ONE LINE)	Presenting Author's Email
1	Science and Society/ Science Communication	2	O	SCI-01	ASSESSING THE IMPACT OF HUMAN INTERVENTIONS AND CREATING AWARENESS AMONG STAKEHOLDERS ON THE CONSERVATION AND MANAGEMENT OF WETLAND ECOSYSTEMS	Asha Raturi*, Hukum Singh and Parmanand Kumar	Forest Ecology and Climate Change Division, Forest Research Institute, Dehradun	asha.ashafri@gmail.com
2	Science and Society/ Science Communication	3	O	SCI-02	प्रवासी उत्तराखण्डियों के सामाजिक जीवन पर कोविड – 19 का प्रभाव	Mahendra Singh Rana*	Govt. Inter College, Silogi, Pauri	msrana258@gmail.com
3	Science and Society/ Science Communication	3	O	SCI-03	EXPLORING LIVELIHOOD GENERATION POTENTIAL OF STINGING NETTLE (<i>URTICA DIOICA</i>)	Vasudha Pant* ¹ and Prashant Bagade ²	¹ Green Hills Trust, Kranti Kutir, East Pokharkhali, Almora ² R&D, National Collateral Management Services Ltd, Hyderabad	vasudha.pant@gmail.com
4	Science and Society/ Science Communication	1	P	SCI-04	ASSESSMENT AND MITIGATION MEASURES OF OCCUPATIONAL HEAT STRESS AMONGST WORKERS OF UNORGANIZED SECTOR	Sonia Tiwari* and Deepa Vinay	Department of Family Resource Management, G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	soniatewari38334@gmail.com

Veterinary Sciences and Animal Husbandry

Sr. No.	Discipline	CT	O/P	Roll No.	Title of Abstract (all UPPER)	Author's Name (* Presenting Author)	Author's Affiliation/Organization Address (ONE ADDRESS IN ONE LINE)	Presenting Author's Email
1	Veterinary Sciences and Animal Husbandry	1	O	VET-01	EFFECT OF DIETARY INCORPORATION OF BADRI COW URINE ON HEMATOLOGICAL PARAMETERS OF GROWING BADRI CATTLE	Deepikesh Joshi* ¹ , D.V. Singh ¹ , Sanjay Kumar ¹ and Disha Pant ²	¹ Department of Livestock Production Management ² Department of Veterinary Pharmacology and Toxicology College of Veterinary and Animal Sciences, G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	deepikeshjoshi@gmail.com
2	Veterinary Sciences and Animal Husbandry	1	O	VET-02	INFLUENCE OF LACTATION STAGES ON HEMATO-BIOCHEMICAL PROFILE IN INDIGENOUS BADRI CATTLE	Swati Thakur*, R. Huozha, S.K. Rastogi, M. Verma and A. Maiti	Department of Physiology and Biochemistry, C.V.A.Sc., G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	swatithakur92@gmail.com
3	Veterinary Sciences and Animal Husbandry	2	O	VET-03	A STUDY ON SOCIO-ECONOMIC CHARACTERISTICS OF PIG REARER AND PIG MANAGEMENT PRACTICE IN URBAN CENTERS OF UTTARAKHAND	Khusbu Sahu*	Department of Animal Ecology and Conservation Biology, Wildlife Institute of India, Dehradun	khusbu.sahu@gmail.com

4	Veterinary Sciences and Animal Husbandry	2	O	VET-04	DECIPHERING THE EARLY PATHOGENESIS AND TISSUE TROPISM OF PESTE DES PETITS RUMINANTS IN EXPERIMENTALLY INFECTED GOATS	Siddharth Gautam* ¹ , Amol Gurav ¹ , D. Muthuchelvan ² , Chitra Joshi ³ and Anil Kumar Sharma ⁴	¹ Temperate Animal Husbandry Division, IVRI, Mukteshwar, Nainital ² Division of Virology, IVRI, Mukteshwar, Nainital ³ Department of Animal Husbandry, Uttarakhand ⁴ Division of Pathology, IVRI, Izatnagar, Bareilly (UP)	gautam.ivri.m@gmail.com
5	Veterinary Sciences and Animal Husbandry	3	O	VET-05	SEASONAL EFFECT ON MILK COMPOSITION AND BLOOD PROFILES IN LACTATING TARAI BUFFALO	Ruokuobeinuo Huozha*, Rizwana Begum and Sunil Kumar Rastogi	Department of Veterinary Physiology and Biochemistry, College of Veterinary and Animal Sciences, G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	rkbh08@gmail.com
6	Veterinary Sciences and Animal Husbandry	1	P	VET-06	FIRST REPORT: MORPHOLOGICAL AND MOLECULAR IDENTIFICATION OF <i>SAPROLEGNIA PARASITICA</i> IN ENDANGERED GOLDEN MAHSEER EGGS	Tarang Kumar Shah* ¹ , Avdhesh Kumar ¹ , Ritesh S. Tandel ² and Debajit Sarma ²	¹ Department of Aquaculture, G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar ² ICAR-Directorate of Coldwater Fisheries Research, Bhimtal	kunnushah4545@gmail.com
7	Veterinary Sciences and Animal Husbandry	2	P	VET-07	EXPRESSION OF B2L PROTEIN OF ORF VIRUS IN BACULOVIRUS SYSTEM AND EVALUATION OF DIAGNOSTIC POTENTIAL IN INDIRECT ELISA	Golmei Poulinlu* ¹ , Anand Kushwaha ¹ , Amit Kumar ¹ , Durga Goswamy ¹ , Muthuchelvan D ¹ and Gnanavel Venkatesan ²	¹ Division of Virology, ICAR-Indian Veterinary Research Institute, Mukteswar Campus, Nainital ² FMD Laboratory, ICAR-IVRI Hebbal, Bengaluru, Karnataka	poulinlu@rediffmail.com

Zoology

Sr. No.	Discipline	CT	O/P	Roll No.	Title of Abstract (all UPPER)	Author's Name (* Presenting Author)	Author's Affiliation/Organization Address (ONE ADDRESS IN ONE LINE)	Presenting Author's Email
1	Zoology	1	O	ZOO-01	DIVERSITY OF INSECT POLLINATORS AND THEIR IMPACT ON TWO LAND-USE SYSTEMS OF KUMAUN HIMALAYA UTTARAKHAND, INDIA	Deeksha Aarya* and Deepika Goswami	Department of Zoology, DSB Campus, Kumaun University, Nainital	deekshu21feb@gmail.com
2	Zoology	1	O	ZOO-02	DIVERSITY AND DISTRIBUTION PATTERN OF PERIPHYTIC COMMUNITIES IN THE GLACIER FED STREAM BALKHILA FROM GARHWAL HIMALAYA	Mohd Tariq*, Chandra Bhanu Kotnala and Anoop Kumar Dobriyal	Department of Zoology, HNB Garhwal University (A Central University), Srinagar Garhwal, Pauri	mtariq.t94@gmail.com
3	Zoology	1	O	ZOO-03	KIN RECOGNITION BY RELUCTANCE TO MATE AMONGST RELATIVES AND INBREEDING DEPRESSION IN A	Moina Khan* and Ahmad Pervez	Biocontrol Laboratory, Department of Zoology, Radhey Hari Government (PG) College, Kashipur, US Nagar	moinakhan221@gmail.com

					PREDACEOUS LADYBIRD BEETLE, PROPYLEA DISSECTA			
4	Zoology	1	O	ZOO-04	OVIPOSITION STRATEGIES OF TWO CO-EXISTING APHIDOPHAGOUS LADYBIRDS, <i>COCCINELLA SEPTEMPUNCTATA</i> AND <i>MENOCHILUS SEXMACULATUS</i>	Monalisa* and Ahmad Pervez	Radhey Hari Government (PG) College, Kashipur, US Nagar	optimisticmona27@gmail.com
5	Zoology	1	O	ZOO-05	DIETARY EFFECT ON MATING AND REFUSALS IN <i>COCCINELLA TRANSVERSALIS</i>	Mumtaj Jahan* and Ahmad Pervez	Radhey Hari Government (PG) College, Kashipur, US Nagar	mailmumtaj17@gmail.com
6	Zoology	1	O	ZOO-06	MICROBIOLOGICAL ENUMERATION AND BIOCHEMICAL PROFILING OF PATHOGENS ASSOCIATED WITH URINARY TRACT INFECTION: CURRENT SCENARIO AND ITS MEDICAL RELEVANCE	Pooja Singh*, Jyoti Chandola, Vivek Kumar, Sandeep Singh, Komal Gupta and Narotam Sharma	DNA Labs-A Centre for Applied Sciences, Dehradun	poo.ja80066@gmail.com
7	Zoology	1	O	ZOO-07	IMPACT OF PHYSICO- CHEMICAL PARAMETERS ON EARTHWORM DIVERSITY IN TWO ECOTYPES OF KUMAUN HIMALAYA, UTTARAKHAND	Shikha Bora* and Satpal Singh Bisht	Department of Zoology, DSB Campus, Kumaun University, Nainital	borashikha94@gmail.com
8	Zoology	1	O	ZOO-08	GUT CONTENT ANALYSIS OF ENDEMIC SOME KNOWN LARVIVOROUS FISHES FROM WATER BODIES OF DOON VALLEY	Shivani Farswan* and N. Pemola Devi	Department of Zoology, D.B.S. (PG) College, Dehradun	farswanshivani170@gmail.com
9	Zoology	1	O	ZOO-09	SEXUAL DIMORPHISM IN THE KASHMIR ROCK AGAMA <i>LAUDAKIA TUBERCULATA</i> (GRAY, 1845)	Smita Dangwal* and Dinesh K Sharma	Department of Zoology, HNB Garhwal Central University, SRT Campus, Badshahithaul, Tehri Garhwal	smitadangwal.99@gmail.com
10	Zoology	1	O	ZOO-10	ENTREPRENEURIAL POTENTIAL OF SMALL SCALE BEEKEEPING IN KUMAUN REGION OF UTTARAKHAND, INDIA	Sunaulah Bhat* and Sandeep Kumar	Department of Zoology, Kumaun University, S.S.J. Campus, Almora	bhatsunaulahijt@gmail.com
11	Zoology	2	O	ZOO-11	CONSPECIFIC AND HETEROSPECIFIC DIETS EFFECTS ON LADYBIRD CONSUMPTION AND DEVELOPMENT	Satish Chandra* and Ahmad Pervez	Biocontrol Laboratory, Department of Zoology, Radhey Hari Government (PG) College, Kashipur, US Nagar	souriyalsatish@gmail.com
12	Zoology	1	P	ZOO-12	STUDY OF PLANKTON DIVERSITY ON GAULA STREAM IN NAINITAL DISTRICT, UTTARAKHAND	Geetika Arya* and H.C.S. Bisht	Department of Zoology DSB Campus, Kumaun University, Nainital	geetika.arya.ntl@gmail.com
13	Zoology	1	P	ZOO-13	NUTRITIONAL EVALUATION OF MILK FROM LIVESTOCK REARED IN THE HILLS OF KUMAUN REGION OF UTTARAKHAND	Mansi Arya* and Satpal Singh Bisht	Department of Zoology, DSB Campus, Kumaun University, Nainital	mansiarya654@gmail.com
14	Zoology	1	P	ZOO-14	DIVERSITY OF APHID IN TWO DIFFERENT LANDSCAPE OF KUMAUN REGION	Meera Rawat* and S.N. Rao	Department of Zoology, Radhe Hari (PG) College, Kashipur, US Nagar	meerarwt657@gmail.com
15	Zoology	1	P	ZOO-15	ECOLOGICAL STUDIES OF SOME SPRING – FED STREAMS IN THE GARHWAL HIMALAYA	Prashansa Bachhwan* and Ravindra Singh	Department of Zoology, HNB Garhwal Central University, SRT Campus, Badshahithaul, Tehri Garhwal	prashanshabachhwan782@gmail.com

16	Zoology	1	P	ZOO-16	STUDY OF PARASITIC MICROHYMENOPTERAN EULOPHIDS EXPLORED FROM CITRUS LEAF MINER <i>PHYLLONISTIS CITRELLA</i> (LEPIDOPTERA: GRACILLARIIDAE) FROM ALMORA, UTTARAKHAND	Puja Pant*, Vishal Kumar, Sangeeta Rawat and Sandeep Kumar	Department of Zoology, Kumaun University, S.S.J. Campus, Almora	kaneria.manish@gmail.com
17	Zoology	1	P	ZOO-17	OVIPOSITIONAL PREFERENCE OF <i>MENOCHILUS SEXMACULATUS</i>	Rupali Sharma* and S.N. Rao	Department of Zoology, Radhe Hari (PG) College, Kashipur, US Nagar	shrma.rupali2015@gmail.com
18	Zoology	1	P	ZOO-18	TORYMIDAE (HYMENOPTERA: CHALCIDOIDEA: TORYMIDAE) ASSOCIATED WITH GALLS FORMED ON VARIOUS PLANTS OF UTTARAKHAND	Sangeeta Rawat* and Sandeep Kumar	Department of Zoology, Kumaun University, S.S.J. Campus, Almora	sangeetaices@gmail.com
19	Zoology	1	P	ZOO-19	ASSESSMENT OF PHYSICOCHEMICAL PARAMETERS OF DIFFERENT DRINKING WATER SOURCES IN AND AROUND SRINAGAR GARHWAL, UTTARAKHAND	Sonika Rayal*, Manju Prakash Gusain and O.P. Gusain	Department of Zoology, HNB Garhwal University (A Central University), Srinagar Garhwal, Pauri	sonikaroyal@gmail.com
20	Zoology	1	P	ZOO-20	DETECTION OF TWO SPOTTED STINK BUG, <i>PERILLUS BIOCULATUS</i> (FAB.) ON <i>ZYGOGRAMMA BICOLORATA</i> PALLISTER IN SUB-TROPICAL REGION OF TEHRI GARHWAL UTTARAKHAND, INDIA	Vivek Kumar* ¹ , B.S. Bisht ¹ and Jagbir Aswal ²	¹ Department of Zoology, HNB Garhwal Central University, SRT Campus, Badshahithaul, Tehri Garhwal ² Uttarakhand State Council for Science and Technology, Dehradun	vk819100@gmail.com
21	Zoology	2	P	ZOO-21	EFFECT OF PEST (APHIDS) AND PESTICIDES ON HUMAN BEINGS AND OUR ENVIRONMENT AND THEIR CONTROL BY NATURAL RESOURCES	Rajesh Kumar* and Ahmad Pervez	Biocontrol Laboratory, Department of Zoology, Radhey Hari Government (PG) College, Kashipur, US Nagar	rajesh.kumar6182@gmail.com

Innovator of the Year

Sr. No.	Discipline	Roll No.	Title of Abstract (all UPPER)	Author's Name (* Presenting Author)	Author's Affiliation/Organization Address (ONE ADDRESS IN ONE LINE)	Presenting Author's Email
1	Innovator	INNO-01	CHEST X-RAY FINDINGS A TEMPORAL LUNG CHANGES IN PATIENTS WITH COVID-19 PNEUMONIA USING MACHINE LEARNING TECHNIQUE	Amit Kumar* and Nikita Das	College of Engineering, Roorkee	kumaramit1996.1@gmail.com
2	Innovator	INNO-02	WAVELET TRANSFORMATION BASED FEATURE EXTRACTION METHODS MULTISPECTRAL BIOMETRICS	Annu Sharma*, Shwetank Arya, Neeraj Pratap Singh and Praveena Chaturvedi	Gurukula Kangri University, Haridwar	annumca01@gmail.com
3	Innovator	INNO-03	A STUDY ON DETERIORATING INVENTORY MODEL UNDER THE EFFECT OF COVID-19	Anu Sayal*	Department of Mathematics, Uttarakhand Technical University, Dehradun	anu.sayal.07@gmail.com

4	Innovator	INNO-04	UP CYCLING INNOVATIONS IN THE FIELD OF SINGLE USE PLASTIC WASTE IN UTTARAKHAND	Ashok Kumar Sharma*	ARYAN GROUP, Dehradun	advanceemachinery@yahoo.co.in
5	Innovator	INNO-05	COVID-19 INTUBATION BOX – “KAVACH”	Gaurav Pathak* and Robina Makker	Shri Guru Ram Rai Institute of Medical & Health Sciences, Dehradun	gauravp405@gmail.com
6	Innovator	INNO-06	SUSTAINABLE REMEDIATION OF CARBON CONTAINING SOLID WASTE MATERIALS INTO GRAPHENE NANOSHEETS AND ITS APPLICATION INTO SUPERCAPACITORS AS THE HYBRID POWER SOURCE FOR E-RICKSHAWS IN HIMALAYAN REGION	Manoj Karakoti*, Sandeep Pandey and Nanda Gopal Sahoo	Nanoscience and Nanotechnology Centre, Department of Chemistry, DSB Campus, Kumaun University, Nainital	manojkara.777@gmail.com
7	Innovator	INNO-07	DEVELOPMENT OF BIFACIAL SOLAR CELL USING PERC TECHNOLOGY TO MAXIMISE SOLAR CELL EFFICIENCY	Monika Gairola*, Sandeep Singh Negi and Paramjeet Singh Paliyal	Uttarakhand Technical University, Dehradun	monikagairola19@gmail.com
8	Innovator	INNO-08	BRYOPHYTES- AN EMERGING SOURCE OF SMALL SCALE COMMERCIAL PRODUCTION USING EPOXY RESIN	Neha Kohli*, S.D. Tewari and Neha Binwal	Department of Botany, I.P.G.G. (PG) College of Commerce, Haldwani, Nainital	nehakohli633@gmail.com
9	Innovator	INNO-09	MAKING OF AN ALTERNATIVE HANDY DEVICE FOR WASHING AND DRYING OF WHEAT GRAINS BEFORE GRINDING	Nirmal Kumar Neoliya* and Karan Kumar	Rajeev Gandhi Navodaya Vidyalaya, Khatima, US Nagar	nirmalneoliya@gmail.com
10	Innovator	INNO-10	NOVEL METHODOLOGY OF FUEL PRODUCTION FROM WASTE TYRE FOR CI ENGINE	Ratnakiran D. Wankhade* and T.K. Bhattacharya	Department of Farm Machinery and Power Engineering, College of Technology, G.B. Pant University of Agriculture and Technology, Pantnagar, US Nagar	ratanwankhade@gmail.com
11	Innovator	INNO-11	DETECTION OF DIABETIES RETINOPATHY WITH CONVOLUTIONAL NEURAL NETWORK AND IMAGE PROCESSING	Siddharth Madhav*	National Institute of Open Scholling, Dehradun	siddharthmadhav769@gmail.com
12	Innovator	INNO-12	SUPER SMART CALENDAR: 22000 B.C. TO 22000 A.D. IN 217 DAYS	Vijay Mehra*	Indra Nagar, Dehradun	vijaymehrageu@gmail.com