

DAY: 2

Date: 26.04.2023 (Wednesday)

Technical Session: 1

Title of the session: Biodiversity, Taxonomy, botanical and allied biological science research, air pollution, ethno -paleo-botany botany , Identification, Characterization , domestication , documentation of crop /plant , Himalayan special : Strengthening indigenous knowledge system and sustainable socio-culture development under changing climate		Venue :Academic Complex Building (IDA) , Seminar Hall Time: 10:30 AM – 5:00 PM
Chairperson: Dr. Jai C. Rana, Country Director, Alliance of Bioversity International, CIAT, South Asia Co.-Chairperson : Dr. Kuniyal, G.B. Pant National Institute of Himalayan Environment, Kosi-Katarmal, Almora, Uttarakhand, India	Moderator : 1: Dr. Devendra Kumar, Bhat, G.B. Pant National Institute of Himalayan Environment 2: Dr. M. K. Deka, Department of Entomology, AAU, Jorhat	Rapporteurs: Dr. Bharat C. Nath, Dept. Plant Pathology, AAU Dr. Priyanka Sarma, Department of PBG, AAU
Time allocation: Key note: 15 Min Lead lecture: 12 Min Invited talk = 10 Min Oral = 8 Min Panel discussion: 30- 60 Min Poster session: after completion of oral presentation Lunch break: 1-00 to 2-00 PM		

Sl	Topic	Affiliation	Mail id	Mode
01	MINOR CEREALS FOR FOOD AND NUTRITIONAL SECURITY IN CHANGING CLIMATE	A. K. M. Golam Sarwar Laboratory of Plant Systematics, Department of Crop Botany, Bangladesh Agricultural University,	drsarwar@bau.edu.bd	Key note

		Mymensingh 2202, Bangladesh.		
02	ETHNOBOTANICAL STUDY AND BIODIVERSITY OF THE LETANG RAJARANI FOREST AND ITS ADJOINING AREA, MORANG, EAST NEPAL	Pramila Kumari Gachhadar ¹ , Chitra Bahadur Baniya ² and Tejnarayan Mandal ³ ¹ & ² Central Department of Botany, Tribhuvan University, Kirtipur, Nepal ³ PostGraduate Campus, Biratnagar, Tribhuvan University, Nepal	cbbaniya@gmail.com	Key note
03	DETECTION OF ANATOXIN-PRODUCING CYANOBACTERIAL GENERA IN FRESHWATER BODIES OF NORTH-EAST INDIA USING MOLECULAR BASED PCR AND RT-QPCR TOOLS	Jimasree Rava ¹ , Ajitabh Bora ^{1*} , Jadab Rajkonwar ² and D V Kamboj ¹ ¹ DRDO-Defence Research Laboratory, Tezpur - 784 001, India ² Assam University Diphu Campus, KarbiAnglong - 782462, India	ajitabhbora@gmail.com	Invited
04	PLANT EXPLORATION OPPORTUNITY, GERMPLASM COLLECTION IN INDIAN HIMALAYAN REGION FOR SUSTAINABLE DEVELOPMENT	Sudhansu Sekhar Dash <i>Botanical Survey of India</i> <i>CGO complex, Sector-I, Salt Lake City</i> <i>Kolkata-700064</i>	ssdash@bsi.gov.in	Invited
05	ETHNOBOTANICAL STUDY OF WILD EDIBLE PLANTS IN SELECTED MUTHUVAN SETTLEMENTS IN ADIMALI, IDUKKI DIST, KERALA	Ajinsha J S and Dr.G Rajkumar KSCSTE-Jawaharlal Nehru Tropical Botanic Garden and Research Institute, Palode Thiruvananthapuram, 695 562 Kerala India	ajinshabnr@gmail.com	Invited
06	INDIAN DYE-YIELDING PLANTS: STATUS, UTILIZATION AND EFFECTIVE CONSERVATION	Siva Ramamoorthy School of Bio Sciences and Technology, Vellore Institute of Technology, Vellore 632014, INDIA	siva.ramamoorthy@gmail.com	Invited
07	ENDEMIC PTERIDOPHYTIC FLORA OF ARUNACHAL PRADESH	Vineet K. Rawat and Suman Halder ¹ Botanical Survey of India, Arunachal Pradesh Regional Centre, Itanagar, Arunachal Pradesh, India		Invited
08	PLANT DIVERSITY IN NEPAL HIMALAYA	Sangeeta Rajbhandary Central Department of Botany Tribhuvan University, Kathmandu, Nepal	s.rajbhandary3@gmail.com	Invited
09	DIVERSITY, RELATIVE ABUNDANCE AND DISTRIBUTION OF AVIAN FAUNA	Abdelgani Baraka*, Ibrahim Osman Kanno University of Bahri, Department of Wildlife,	abdelgani8887@gmail.com	Oral

	IN THREE STATES OF EAST SUDAN	College of Natural Resource and Environmental Studies, Khartoum, Bahri- 12217, Sudan		
10	BIODIVERSITY CONSERVATION AND MANAGEMENT PRACTICES AT BAILADILA IRON ORE MINES, MDC LTD., CG.	Dr. Ajit Kamalakar, M. Jayapal Reddy, Environment Division, NMDC Ltd., Castle Hills, Masab Tank, Hyderabad Telangana 500028	jakamalakar@nmdc.co.in; mjayapalreddy@nmdc.co.in	Oral
11	DIVERSITY OF WILD EDIBLE PLANTS TRADITIONALLY USED BY THE KANI TRIBE AT PEPPARA WILDLIFE SANCTUARY, THIRUVANANTHAPURAM DISTRICT, KERALA, INDIA	*Anooj S L And Dr. G Rajkumar *KSCSTE-Jawaharlal Nehru Tropical Botanic Garden and Research Institute, Palode Thiruvananthapuram, 695562, Kerala, India	anooj@l.com	Oral
12	RICE BIODIVERSITY OF KERALA: NUTRITIONAL AND PHYSICO-CHEMICAL VARIABILITY	Nabaneeta Basak ^{*1} , Gaurav Kumar ¹ , P. Sanghamitra ² , Sutapa Sarkar ² , BC Marndi ² ¹ Crop Physiology and Biochemistry Division, ² Crop Improvement Division ICAR-NRRI, Cuttack- 753006	bsk.nabaneeta@gmail.com	Oral
13	PREDICTING DISTRIBUTION AND RANGE DYNAMICS UNDER CLIMATE CHANGE, STATUS AND INTRINSIC THREATS TO EREMURUS PERSICUS (JAUB.&SPACH) BOISS.- AN ENDEMIC TAXA OF NW HIMALAYAS.	Shivali Verma ¹ , Irfan I. Sofi ² , Manzoor A. Shah ² , Aijaz H. Ganie ² , Namrata Sharma ¹ ¹ University of Jammu (180006), ² University of Kashmir, India	shivaliverma492@gmail.com, namratadni@gmail.com	Oral
14	BIODIVERSITY CONSERVATION AND MANAGEMENT PRACTICES AT BAILADILA IRON ORE MINES, NMDC LTD., CG.	J Ajit Kamalakar, M. Jayapal Reddy Environment Division, NMDC Ltd., Castle Hills, Masab Tank, Hyderabad Telangana 500028	jakamalakar@nmdc.co.in mjayapalreddy@nmdc.co.in	Oral
15	UNCOVERING THE SECRETS OF LICHEN DIVERSITY: THE INFLUENCE OF ELEVATION AND HABITAT ON SPECIES RICHNESS IN ARGHAKHANCHI DISTRICT, WESTERN NEPAL	B. R. Nepali ^{1,2} ; J. Skartveit ³ and C. B. Baniya ¹ ¹ Central Department of Botany, TU. ² Butwal Multiple Campus, Butwal, Nepal ³ University college, NLA University, Bergen, Norway	chitra.baniya@cdb.tu.edu.np	Oral
16	ABUNDANCE AND DIVERSITY OF FRUIT FLIES (DIPTERA: TEPHRITIDAE) IN CITRUS ORCHARDS IN SINDHULI, NEPAL	D. Adhikari ^{1,2} , R. B. Thapa ¹ , S. L. Joshi ³ , J. J. Du ⁴ and S. Tiwari ¹ ¹ Agriculture and Forestry University, Nepal, ² Plant	adhikari.debraj1@gmail.com	Oral

		Quarantine and Pesticide Management Centre, Hariharbhawan, Lalitpur, Nepal, ³ Nepal Agricultural Research Council, Nepal and ⁴ Beijing Ecoman Biotech Co. Ltd., China		
17	LICHEN AS AN INDICATOR FOR MONITORING THE EFFECTS OF CLIMATE CHANGE IN HIMALAYA	Devendra Kumar ¹ , Madhusudhan Khanal ^{1,2} , and Sandeep Rawat ¹ ¹ G.B. Pant National Institute of Himalayan Environment (NIHE), North-East Regional Centre, Itanagar 791113, Arunachal Pradesh, India ² Department of Botany, Sikkim University, Tadong, Gangtok 737102, Sikkim, India ³ G.B. Pant National Institute of Himalayan Environment (NIHE), Sikkim Regional Centre, Pangthang, Gangtok 737 101, East Sikkim, India	devendrawii@gmail.com	Oral
18	AN INSIGHT INTO A DWINDLING HILL STREAM OF ASSAM AND THE FISH FAUNA IT INHABITS	Jafrin Farha Hussain ¹ and Sabitry Bordoloi ² ¹ Nanda Nath Saikia College, Titabar-785630, Jorhat, Assam ² Institute of Advanced Study in Science and Technology, Paschim Boragaon, Guwahati	jafrinfarhahussain@gmail.com	Oral
19	INTEGRATED ORGANIC FARMING SYSTEM (IOFS): INNOVATIVE APPROACH FOR IMPROVING LIVELIHOOD AND SOIL HEALTH IN EASTERN HIMALAYAS	Jayanta Layek*, Krishnappa R, S Hazarika, VK Mishra, S Patra, Anup Das, N Rajbonshi, NC Guleibi & R Saikia, ICAR Research Complex for NEH Region, Umiam, Meghalaya	jayanta.icar@gmail.com	Oral
20	NEW RECORDS OF ORCHID SPECIES FROM SIKKIM HIMALAYAN REGION	Madhusudhan Khanal ^{(1,2)*} , Sandeep Rawat ² , Santosh Kumar Rai ¹ , Devendra Kumar ³ . ¹ Department of Botany, Sikkim University, Gangtok, Sikkim, 737102. ² G.B. Pant National Institute of Himalayan Environment (NIHE), Sikkim Regional Centre, Pangthang, Sikkim, 737101. ³ G.B. Pant National Institute of Himalayan Environment (NIHE) North-East Regional Centre, Chandranagar, Itanagar-791113, Arunachal Pradesh.	khanalmadhusudhan@gmail.com, mkhanal.20pdt02@sikkimuniversity.ac.in	Oral

21	INDIGENOUS CHICKEN PRODUCTION SYSTEM IN DIFFERENT AGRO-ECOLOGY OF INDIAN HIMALAYAN	Mahak Singh*, NungshitulaPongener, R. N. Patton, R. T. Mollier, Rekha Yadav, Rahul Katiyar, Vinay Singh, J. K. Chaudhary, H. Kalita, and V. K. Mishra ICAR Research Complex for NEH Region, Nagaland Centre, Medziphema-797106, Nagaland, India *Corresponding author: Dr.Mahak Singh Scientist, Animal Reproduction and Gynaecology, ICAR Research Complex for NEH Region, Nagaland Centre, Medziphema, Nagaland-797106, India.	mahaksinghivri@gmail.com	Oral
22	FLORISTIC COMPOSITION AND CARBON STOCK OF TRADITIONAL FORAGE-BASED SYSTEMS IN THE WESTERN HIMALAYAS.	Pempa L. Bhutia ^{1,2} , B. Gupta ² , R.P. Yadav ³ , Karma G. Bhutia ⁴ and H. Kalita ¹ ¹ ICAR Research Complex for NEH Region, Nagaland Centre, Medziphema-797106, Nagaland, India ² Dr. Yashwant Singh Parmar University of Horticulture and Forestry, Nauni-173230, Solan, Himachal Pradesh, ³ India Rani Lakshmi Bai Central Agricultural University, Jhansi- 284003, Uttar Pradesh, India ⁴ Rain Forest Research Institute, Jorhat-785101, Assam, India	pempadenzon gpa66@gmail.com	Oral
23	EXPLORING TARGETED DNA METHYLATION AND DE-METHYLATION OF GENES FOR TRAIT MANIFESTATIONS IN THE INDIAN HIMALAYAN POPULATIONS OF ARABIDOPSIS THALIANA	Prabhatam Mishra ^{1,2} Sribash Roy ^{1,2} 1.Genetics and Molecular Biology Division, CSIR-National Botanical Research Institute, Lucknow, 226001, India. 2.Academy of Scientific and Innovative Research (AcSIR), Ghaziabad, 201002, India	prabhatammishra2014@gmail.com	Oral
24	DISTRIBUTION AND CONTRIBUTION OF SALACCASECUNDAGRIF. [ARECACEAE] IN TANGSA TRIBAL SOCIETY LIVING IN CHANGLANG DISTRICT OF ARUNACHAL PRADESH, INDIA	PyonimLungphi, Abhaya Prasad Das and Ayam Victor Singh Department of Botany, Rajiv Gandhi University, Rono Hills, Doimukh – 791112, Arunachal Pradesh, India	lunghipyoni m@gmail.com, apdasrgu@gmail.com, ayamvictor40@gmail.com	Oral

25	PREDICTING DISTRIBUTION AND RANGE DYNAMICS UNDER CLIMATE CHANGE, STATUS AND INTRINSIC THREATS TO EREMURUS PERSICUS (JAUB. & SPACH) BOISS. - AN ENDEMIC TAXA OF NW HIMALAYAS.	Shivali Verma ¹ , Irfan I. Sofi ² , Manzoor A. Shah ² , Aijaz H. Ganie ² , Namrata Sharma ¹ ¹ University of Jammu (180006), ² University of Kashmir, India	shivaliverma492@gmail.com, namratadni@gmail.com	Oral
26	STUDY ON SPIDER DIVERSITY AND THEIR MICROHABITATS IN GANGTOK, EAST SIKKIM.	Monica Chetry*, Aita Hang Subba (Limboo)***, Dr. Bhoj K. Acharya** & Dr. S. Upadhyaya* Department of Zoology, T.H.B. College, Sonitpur (Assam) Department of Zoology, Sikkim University, Sikkim	monicachetry17@gmail.com	Oral
27	SOIL RESPIRATION RATES UNDER DIFFERENT VEGETATION UNDER HUMID SUBTROPICAL REGION OF UTTARAKHAND	Sivaranjani S ¹ and Vijender Pal Panwar ² ¹ G. B. Pant National Institute of Himalayan Environment, North East Regional Centre, Itanagar, Arunachal Pradesh 791113, ranjani.agri@gmail.com East Ecology and Climate Change Division, Forest Research Institute, P.O.: New Forest, Dehradun 248006	vppanwar@yahoo.com	Oral
28	IMPACT OF CLIMATE CHANGE ON AGRICULTURE WITH SPECIAL REFERENCE TO NEINDIA	Dibyajyoti Shyam, Dipjyoti Bharali and Niharika Borbaruah, Dept. of Agricultural Economics and Farm Management, College of Agriculture, Assam Agricultural University, Jorhat-785013	dshyam969ds@gmail.com	Poster
29	CROP DIVERSIFICATION: A WAY TOWARDS FOOD SECURITY IN INDIA WITH SPECIAL REFERENCE TO ASSAM	Niharika Borbaruah ^{1*} and Nivedita Deka ² Department of Agricultural Economics and Farm Management, Assam Agricultural University, Jorhat-785013, Assam	borbaruahniharika@gmail.com	Poster
30	CERTAIN ASPECTS OF BASE METAL MINERALIZATION IN POTIN AREA OF SUBANSIRI DISTRICT, ARUNACHAL PRADESH (INDIA)	Dr Bimal Kumar Tamuli Department of Geology, Pragjyotish College, Guwahati-781009, Assam, India	tamuli.bimal@gmail.com	Poster
31	ETHNOBOTANY OF WILD EDIBLE PLANTS USED BY THE NYISHI TRIBE OF PAPUM PARE DISTRICT OF ARUNACHAL PRADESH, INDIA	Taba Yehi and Hui Tag Plant Systematic & Ethnobotanical Research Laboratory, Department of Botany, Rajiv Gandhi University, Rono Hills, Doimukh-791112, Arunachal Pradesh, India	taba.yehi@rgu.ac.in	Poster
32	ETHNOBOTANICAL AND BIOCHEMICAL STUDY OF SOME PLANTS FROM EASTERN HIMALAYAN RAIN	Sristisri Upadhyaya ¹ and Junali Chetia ² ¹ Department of Botany, DKD College, Dergaon,	sristisriupadhyaya@gmail.com	Poster

	FOREST	Assam - 785614 ² Department of Botany, Silapathar College, Silapathar, Assam - 787059	m	
33	EXPLORING THE PROTECTIVE ROLE OF SALICYLIC ACID IN ALLEVIATING CHROMIUM STRESS IN MUSTARD PLANTS.”	Mrityunjoy Das Gupta, Cotton University, Department of Botany.	mjdsgupta81@gmail.com	Poster
34	GENETIC DIVERSITY ANALYSES IN FOXTAIL MILLET [SETARIA ITALICA (L.) P. BEAUV.] GENOTYPES	D. Purushoama Rao ¹ and H.P Chaturvedi ² . ^{1,2} Department of Genetics and Plant Breeding, SASRD NU	purushotamadatti@gmail.com	poster
35	PLANT DIVERSITY OF CHAPAKHOWA TOWN OF TINSUKIA DISTRICT: PROBLEM AND PROSPECTS OF FUTURE BIODIVERSITY OF THIS URBAN AREA	Dr. JyotshnaKeot Department of Botany, Sadiya College, Chapakhowa, Tinsukia-786157, Assam.	jyotshnakeot@gmail.com	Poster
36	IN VITRO APPROACH FOR CONSERVATION OF SELECTED ORCHIDS OF NER	Kalpataru Dutta Mudoi, Papor Borah and Siddhartha Proteem Saikia Agrotechnology and Rural Development Division (ARDD), CSIR-North East Institute of Science & Technology, Jorhat-785006, Assam, India	spsaikia@gmail.com	Poster
37	TAXONOMIC MISIDENTIFICATION:CAUSING SAFETY AND EFFICACY ISSUES WITH PLANT-BASED DRUGS	Kapil Kumar Kemprai, BimisaKhera, Alok Sharma and Devanjal Bora NEHAR & Dept. of Botany, Central Ayurveda Research Institute, Guwahati (Assam) India 781028	kapilkumarkemprai@gmail.com,	Poster
38	VASCULAR MACROPHYTES DIVERSITY IN RELATION TO LIMNOLOGICAL VARIABLES OF RANI LAKE OF RAJA-RANI, NEPAL	Eliza Acharya Siwakoti ¹ Chitra B. Baniya ¹ T.N. Mandal ² , ¹ Central Department of Botany, Tribhuvan University, Kirtipur,Kathmandu, Nepal ² Department of Botany, Tribhuvan University, Degree Campus, Biratnagar, Nepal	eliza.77572@iost.tu.edu.np	Poster
39	DIVERSITY OF URBAN BIRDS IN DISTRICT HEADQUARTERS TOWNS OF BTR (ASSAM), INDIA	Eliza Basumatary, Dipika Chetry and Hillojyoti Singha Department of Zoology, Bodoland University	singha.hillojyoti@gmail.com	Posters

40	PROBABLE CAUSE OF PINE MORTALITY, ITS INCIDENCE AND MANAGEMENT IN MANIPUR AND MEGHALAYA	Gurpreet Kaur Bhamra*, Kajal Gupta, Sumona Chetia and Rajib Kumar Borah, Rain Forest Research Institute, Jorhat, Assam -785010	gurpreetbhamra50@gmail.com	Poster
41	DECOMPOSITION AND NUTRIENT RELEASE PATTERN OF TWO POTENTIAL LEGUMINOUS GREEN MANURE WEEDS OF MIZORAM	Jyoti Jopir ¹ , Kalidas Upadhyaya ¹ ¹ Department of Forestry, Mizoram University, Mizoram -796004	jyotijopir10@gmail.com	Poster
42	AGROBIODIVERSITY-BASED LIVELIHOOD OF APATANI COMMUNITIES OF ZIRO VALLEY, ARUNACHAL PRADESH: A CASE STUDY OF THREE VILLAGES	Kajoli Begum ^{1&2} , Wishfully Myllemngap ¹ and Lyngdoh N ² , ¹ G.B. Pant National Institute of Himalayan Environment, North-East Regional Centre (NERC), Chandranagar, Itanagar- 791113, Arunachal Pradesh, ² Biodiversity Research Centre, Mizoram University, Tanhril, Aizwal, Mizoram	Kajoli.gbpnie@gmail.com	Poster
43	THE ROLE OF NGO IN COMMUNITY BUILDING THROUGH BIODIVERSITY CONSERVATION: A CASE STUDY OF GARUNG THUK OF SHERGAON VILLAGE, WEST KAMENG DISTRICT, ARUNACHAL PRADESH	Karma Chozom, Department of Geography, Govt. College Bomdila, West Kameng District, Arunachal Pradesh.	karzom23@gmail.com	Poster
44	THE LEGISLATIVE FRAMEWORK ON BIODIVERSITY CONSERVATION: BANGLADESH PERSPECTIVES	Laskar Muqsudur Rahman Wildlife Conservation Society, Bangladesh,	laskarmr@yahoo.com	Poster
45	ASSESSMENT OF ENZYMATIC ACTIVITIES IN CROPLAND SOIL OF ZIRO VALLEY, ARUNACHAL PRADESH	Lod Yama ^{1, 2} , SenggamWakheth Singpho ² , Debajit Mahanta ² , Om Prakash Tripathi ¹ , Karuna Shrivastava ¹ and Ashish Paul ¹ ¹ Department of Forestry, North Eastern Regional Institute of Science and Technology (Deemed to be University) Nirjuli – 791109, Arunachal Pradesh, India ² DBT-APSCS&T Centre of Excellence for Bioresources and Sustainable Development Kimin-791121, Arunachal Pradesh, India	lod1437@gmail.com	Poster
46	SEABUCKTHORN (HIPPOPHAESALICIFOLIA) AS A SOURCE OF NUTRITION IN THE HIGHER ALTITUDE	Mrityunjoy Das ^{1, 2} , Baikuntha Jyoti Gogoi ¹ , Ajitabh Bora ¹ , N L Raju ^{2*} , D V Kamboj ¹	dmrityun@gmail.com;	Poster

	REGION OF EASTERN HIMALAYAS	¹ Defence Research Laboratory (DRL), DRDO, Tezpur, 784001, Assam, India ² Department of Life Sciences & Bioinformatics, Assam University, Diphu Campus, Karbi Anglong, 782462, Assam, India	bjgogoi.drl@gov.in; ajitabh.drl@gov.in; rajunl@gmail.com	
47	EX-SITU CONSERVATION OF LANDRACES OF DIFFERENT CROP – CHALLENGES AND PROSPECTS	Niharika Saharia ^a , Ramendra Nath Sarma ^b a) Student, Department of Plant Breeding and Genetics, Assam Agricultural University, Jorhat-13, PIN: 785013 b) Professor, Department of Plant Breeding and Genetics, Assam Agricultural University, Jorhat-13, PIN: 785013	niharikasaharia10@gmail.com ramendra.sarma@aau.ac.in	Poster
48	INTERVENTIONS IN OILSEED CULTIVATION FOR CLIMATE RESILIENT FARMING IN PEREN DISTRICT OF NAGALAND	PatuK.Zeliang ^{1*} , Harendra Verma ² , KL Meena ¹ ¹ KVK Peren, ICAR Research Complex for NEH Region, Nagaland Centre, Jalukie-797110, Peren ² ICAR Research Complex for NEH Region, Nagaland Centre, Medziphema-797106	patukhate@gmail.com	Poster
49	DOCUMENTATION AND ASSESSMENT OF EMERGENT MACROPHYTIC DIVERSITY OF SACRED KHECHEOPALRI LAKE OF SIKKIM, WEST SIKKIM	Pradeepen Rai & Dhruba Jyoti Das Rain Forest Research Institute, Jorhat, Assam-785010	pradeependilpali@gmail.com,	Poster
50	WEED MANAGEMENT IN SUMMER BLACKGRAM (VIGNA MUNGO L. HEPPER) UNDER DIFFERENT PLANTING GEOMETRY IN FOOTHILLS OF NAGALAND	Aidapbiangthongni, Lanunolatzudir, Shivani kumari Department of Agronomy, SASRD, Nagaland University, Medziphema 797106	imshivani96@gmail.com	Poster
51	POTENTIAL OF MYRICA ESCULENTA IN IMPROVING LIVELIHOOD OF RURAL WOMEN IN NORTH-WESTERN HIMALAYAS	Smriti Panwar ^{1*} , H.S. Ginwal ¹ , Girish Chandra ² and Maneesh S. Bhandari ^{1¥} ^{1*} Corresponding Author-Division of Genetics and Tree Improvement, Forest Research Institute, P.O. - I.P.E., Kaulagarh Road, Dehradun – 248 195, Uttarakhand. ^{1¥} Division of Genetics and Tree Improvement, Forest Research Institute, P.O. - I.P.E., Kaulagarh Road, Dehradun – 248 195, Uttarakhand. ^{1#} Division of	gchandra23@yahoo.com ginwalhs@icfre.org maneesh31803@gmail.com smriti.panwar5991@gmail.com	Poster

		Genetics and Tree Improvement, Forest Research Institute, P.O. - I.P.E., Kaulagarh Road, Dehradun – 248 195, Uttarakhand. Department of Statistics, University of Allahabad, Prayagraj (Allahabad), Uttar Pradesh – 211 002.		
52	EFFECT OF CLIMATE CHANGE ON BUTTERFLY DIVERSITY AND ITS CONSERVATION MEASURES	Dipanwita Shyam And Inee Gogoi Department of Entomology, Assam Agricultural University, Jorhat, Assam,	dipanwita.shyam.amj21@aa u.ac.in	Poster
53	STUDY ON VARIATION IN HABITAT USE PATTERN OF THE CPG IN KADAMANI WETLAND, ASSAM	Dr. S. Upadhyaya & Anila Devi, T. H. B. College, Sonitpur (Assam), Department of Zoology, T. H. B. College, Sonitpur (Assam)	upa_sanjib@r ediffmail.com	Poster
54	HIMALAYAN WILD FOODS OF AS NATURE-BASED SOLUTION FOR FOOD AND NUTRITIONAL SECURITY IN CHANGING CLIMATE	Sandeep Rawat,* Puja Acharya, Devendra Kumar, Mayank Joshi, Indra D. Bhatt Sikkim Regional Centre, G.B. Pant National Institute of Himalayan Environment, Gangtok, Sikkim, India	sandeep_rawat15@rediffmail.com	Poster
55	CARBONIC ANHYDRASE INHIBITION STUDY OF CYANOBACTERIA CONSIDERING PHYTOCHEMICAL DATABASE OF ODISHA: AN IN-SILICO APPROACH	Archana Padhiary ¹ , Showkat Ahmad Mir ¹ , Binata Nayak ^{1*} , ¹ School of Life Sciences, Sambalpur University, Odisha- 768019	binatanayak@suniv.ac.in archana.mamunu@suniv.ac.in	Poster
56	IMPACTS OF HYDROELECTRIC PROJECTS ON ENVIRONMENT AND MITIGATION MEASURES IN THE INDIAN HIMALAYA	Bhim Chand G.B. Pant National Institute of Himalayan Environment (NIHE, Himachal Regional Centre, Mohal-Kullu-175 126, Himachal Pradesh, India	bs.geographer@gmail.com	Poster
57	QUANTIFYING MAMMAL RICH AREAS IN NORTHEAST INDIA	Bishal Kumar Majhi ^{1&2} , Ester Lalhmingliani ² , and Mriganka Shekhar Sarkar ¹ ¹ G B Pant National Institute of Himalayan Environment, Northeast Regional Centre, Chandranagar, Itanagar- 791113, Arunachal Pradesh, India. ² Systematics and Toxicology Laboratory, Department of Zoology, Mizoram University, Aizawl 796004, Mizoram, India.	mriganka.bio@gmail.com	Poster

58	ETHNO-MEDICO-BOTANICAL STUDIES OF FABACEAE IN LANGTANG NATIONAL PARK,CENTRAL NEPAL	Ila Shrestha Department of Botany, Patan Multiple Campus, PatanDhoka, Lalitpur	shrestha_ila@ yahoo.com	Oral
59	ALGAE – THE POTENT REMEDIANTS AGAINST ENVIRONMENTAL POLLUTANTS	Kalaivani Thiagarajan and Rajasekaran Chanradrasekaran Department of Biotechnology, School of Bio Sciences and Technology, Vellore Institute of Technology, Vellore -623014	tkvani72@gm ail.com	Poster
60	AN INSECTICIDAL FERN PROTEIN EXHIBITING GROWTH REGULATORY ACTIVITY AGAINST HELICOVERPA ARMIGERA	Pooja Singh ¹ , Pradhyumna kumar Singh, ² ¹ Plant Molecular Biology and Biotechnology, Laboratory, CSIR- National Botanical Research, Institute, Lucknow-226001, Indiav ² Academy of Scientific and Innovative Research (AcSIR), Ghaziabad, Uttar Pradesh, 201002,India	<a href="mailto:poojasinghnbr
i18@gmail.com">poojasinghnbr i18@gmail.co m and pksingh@nbri .res.in	Poster
61	‘Asclepiads’ (Asclepiadoideae, Apocynaceae s.l.): A Fascinating Group of Ornamental Plants of Assam, India.	Gitartha Saikia* & Nilakshee Devi Department of Botany, Gauhati University, Guwahati-781014, Assam, India.	gitarthasaikia4 108@gmail.co m	Poster
62	EVALUATION OF PROXIMATE COMPOSITION OF THREE UNDERUTILIZED WILD EDIBLE SPECIES OF ZINGIBERACEAE	Sukanya Kalita and Nilakshee Devi Department of Botany, Gauhati University, Guwahati-781014	<a href="mailto:kalitasukanya
20@gmail.com">kalitasukanya 20@gmail.co m	Poster

PANEL DISCUSSION

Topic: Himalayan Biodiversity & Climate Change: Strengthening Monitoring and Regional Cooperation

i) Opening remark & setting the context:

➤ Overview of NMSHE Task Force-3 (II) activities: *Dr. J C Kuniyal*

Studies on growth dynamics and carbon exchange potential: *Dr. Rajesh Joshi (online)*

Panellists:

- Dr. A. P. Das
- Dr. A. A. Mao, Director, BSI, Kolkata
- Dr. J.C. Kuniyal, GBPNIHE, Almora
- Dr. Hui Tag, RGU, Arunachal Pradesh
- Dr. P.K. Baruah, Professor, PBG

(iii) Way Forward: Dr. A. A. Mao, Director, BSI, Kolkata

iv) Vote of Thanks: Dr. Devendra Kumar, GBPNIHE, North-East Regional Centre, Itanagar

*Chairperson and Co-chairperson will judge both oral and poster presentation session.

*After completion of the oral presentations, the poster presentations will be judged.

* Rapporteurs will submit the proceedings same day to Dr. P. K. Barua, Professor, PBG & Chairman, Technical Committee covering the particulars of presented papers, results and outcome of the sessions. (mail id:purna.barua@aau.ac.in)