

6<sup>th</sup> International Conference

On

“Current Issues in Agricultural, Biological & Applied Sciences for Sustainable Development (CIABASSD-2022)”

Venue:- Kalimpong Science Centre, Deolo, Kalimpong, West Bengal, India

June 11-13, 2022

TECHNICAL PROGRAMME

<i>Day 1</i>	<b>June 11, 2022</b>	
	<b>Venue: Conference Hall, Kalimpong Science Centre, Deolo, Kalimpong</b>	
<b>08: 30 am onwards</b>	<b>On Spot Registration/Conference Kit Distribution &amp; Breakfast</b>	
<b>10:30-11:30 am</b>	<b>Inauguration of CIABASSD-2022</b>	
<b>11:30 -11:45 am</b>	<b>Tea Break</b>	
<b>11:45-02:00pm</b>	<b>Technical Session I</b>	
	<b>Theme 1: Recent Advances in Agricultural Sciences</b>	
	<b>Chairperson</b>	Sarah Besky, ILR School, Cornell University, USA
	<b>Co - Chairperson</b>	Dr F H Rahman, Principal Scientist, ICAR-ATARI, Kolkata
	<b>Rapporteurs</b>	Dr. Pranay Bantawa Kalimpong College  Sonika Assistant Professor, Dept of Genetics and Plant Breeding, CCS HAU, College of Agriculture Kaul
<b>Invited/Lead Lectures</b>		
	<i>Past (and present) of applied agriculture and agricultural extension</i>	Sarah Besky, ILR School, Cornell University, USA
	<i>Climate Resilient Agriculture Practices for Sustainable Livelihood in Eastern India</i>	Dr F H Rahman, Principal Scientist, ICAR-ATARI, Kolkata
<b>Oral Presentation</b>		
1.	<i>Abundance of genes involved in nutrient cycling under wheat rhizosphere of middle Indo-Gangetic plane region</i>	Dr. Mohammad Tarique Zeyad ICAR- National Bureau of Agriculturally Important Microorganisms, Kushmaur, Mau, UP
2.	<i>Performance of Newly Introduced Fodder Crops in Rice –wheat Cropping System in Adopted Villages of Bareilly District in North Western U.P.</i>	Dr. Om Singh SVPUAT, Modipuram
3.	<i>Using soil conditioners for in-situ moisture conservation in subtropic Inceptisols under rainfed conditions</i>	Dr. Vikas Abrol Sher-e-Kashmir University of Agricultural Sciences & Technology-Jammu
4.	<i>Evaluation of bacteria from termite gut for faster retting of jute plant and quality fibre extraction</i>	Dr. B.S Manjunatha, ICAR-National Institute of Natural Fibre Engineering and Technology (Erstwhile ICARNIRJAFT), 12 Regent Park, Kolkata-700040
5.	<i>Efficacy of herbicides on weed control, rhizospheric micro-organisms, soil properties in groundnut and their residual impact on succeeding crop</i>	Dr. Ekta Joshi Scientist, AICRP-Groundnut, Department of Agronomy, College of Agriculture, RVSKVV, Gwalior (M.P.)
6.	<i>Effect of Foliar Nutrients for enhancing productivity in Bt. Cotton under rainfed conditions</i>	Dr. K.N.Pawar Agricultural Research Station, University of Agricultural Sciences, Dharwad, Karnataka, India
7.	<i>Phenotypic characterization and Genetic Diversity of Indigenous Aromatic Rice of West Bengal</i>	Bimal Das, College of Agriculture (Extended Campus), UBKV, Majhian, Dakshin Dinajpur, West Bengal
8.	<i>Evaluation of Yield Potential of CO5 BN Napier Bajra Hybrid Crop Under Irrigated Condition in Rohilkhand Region of UP</i>	Dr. Om Singh, SVPUAT, Modipuram
9.	<i>Effect of irrigation and BARC hydrogel on growth and yield of isabgol in Western Rajasthan</i>	Dr. Rakesh Choudhary Agricultural Research Station, Mandor, Agriculture University, Jodhpur- 342 304, Rajasthan

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10.	<i>Molecular Characterization of French Bean Associated Rhizobiafound in North Bengal and Sikkim</i>	Dr. Ritu Rai Dept. of Botany, University of North Bengal, Malbazar, Jalpaiguri- 735221, West Bengal
11.	<i>Potential And Advantages of Mustard Based Intercropping Systems Under Eastern Himalayan Foothill</i>	Dr. Shyamal Kheroar ANP on Jute and Allied Fibres, Uttar BangaKrishiViswavidyalaya, Pundibari, Cooch behar
12.	<i>Effect of low light intensity stress on physiology and yield of Indian mustard</i>	Dr. Vinod Goyal Department of Botany & Plant Physiology, CCS HAU, Hisar-125004, India
13.	<i>Performance of rabi maize (Zea mays L.) as influenced by date of sowing</i>	P. S. Patra, Uttar BangaKrishiViswavidyalaya, Pundibari, Cooch Behar, West Bengal-736165, India
14.	<i>“Seed germination and seedling growth characteristics of rice (Oryza sativa L.) landraces from Sikkim Himalaya: response to aluminium (Al) toxicity</i>	Poonam Chetry, Department of Botany, School of Life Sciences, Sikkim University, 6th mile, Tadong, Gangtok, Sikkim- 737102
15.	<i>Effect of Nano-DAP on Growth, Yield and Economics of Rice in NewAlluvial Zone of West Bengal</i>	Prof. D. Dutta Department of Agronomy, Bidhan Chandra KrishiViswavidyalaya, Mohanpur, Nadia, West Bengal, India
16.	<i>Diversity in Paddy Genotypes deciphered by Multivariate Clustering Analysis</i>	Sonika Assistant Professor, Dept of Genetics and Plant Breeding, CCS HAU, College of Agriculture Kaul
17.	<i>Understanding and validating the traditional rainfall forecasting system with its implication to agriculture under changing climate in Kalimpong Hills</i>	Sujit Sarkar Scientist, IARI Regional Station, Kalimpong
<b>02:00-02:30pm</b>	<b>Lunch Break</b>	
<b>02:30-04:30pm</b>	<b>Poster Presentation Session</b> <b>Venue: Corridor, Kalimpong Science Centre, Deolo, Kalimpong</b>	
18.	<i>Effect of Dietary Inclusion of Cauliflower (Brassica OleraceaVar Botrytis) Leaf Meal on the Performance of Broiler Chicken</i>	A.P. Bansod MVSc Scholar, Animal Nutrition Division, ICAR-IVRI, Izatnagar, UP, India
19.	<i>“Effect of Feeding Graded Level of Dried Cauliflower Leaves Powder(CLP) On Blood Biochemical and Enzymatic profile of growing kids</i>	A.P. Bansod PhD Scholar, Animal Nutrition Division, ICAR- IVRI, Izatnagar, UP, India
20.	<i>Distribution of DTPA –extractable Iron in some soil series of Cooch Behar and effect of Iron on Palak (Beta vulgaris var. bengalensis)</i>	Abhishek Sen Soil Science and Agril. Chemistry, U.B.K.V, Pundibari, Cooch Behar
21.	<i>Morpho-molecular Charaterization OF Sarocladiumoryzae causing Sheath Rot Disease in Rice</i>	Ankita Behura Crop Protection Division, ICAR- National Rice Research Institute, Cuttack-753006, Odisha, India
22.	<i>Integrated Nutrient Management In Soybean (Glycine max L.)</i>	Anusree Paul Department of Agronomy, Bidhan Chandra KrishiViswavidyalaya, Mohanpur, Nadia, West Benga
23.	<i>Horticultural Tourism: A tool for strengthening farmers’ economy</i>	Arvind Malik Department of Horticulture, CCS HAU, Hisar
24.	<i>Effect of biochar and FYM on growth, yield and chemical composition of fodder sorghum</i>	Astha Pandey Soil Science, Banaras Hindu University Varanasi,
25.	<i>Comparative Performance Of Green Gram (Vignaradiata L. Wilczek)Under Single Super Phosphate And Nano-Phosphorus</i>	Bratati Kanjilal Department of Agronomy, Uttar BangaKrishiViswavidyalaya, P/O- Pundibari, Dist.- Cooch Behar, West Bengal
26.	<i>Effect of nano-urea application on productivity and economics of maize-wheat system</i>	Debarup Das ICAR-Indian Agricultural Research Institute, New Delhi
27.	<i>Identification of Strigolactone analogues of microbial origin throughcomputational approaches: Possible candidates for improving mycorrhizal root colonization</i>	Dikchha Singh ICAR- National Bureau of Agriculturally Important Microorganisms (NBAIM), Mau,

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		Uttar Pradesh- 275103, India
28.	<i>“Effect of nano-urea application on soil mineral nitrogen and microbial activity under maize-wheat cropping system</i>	Dr. Abir Dey ICAR-Indian Agricultural Research Institute, New Delhi
29.	<i>“Impact of land use and altitudinal variation on some chemical properties in Eastern Himalayan region of West Bengal</i>	Dr. Hriday Kamal Tarafder Soil Science and Agricultural Chemistry, Regional Research Station (Hill Zone), Uttar BangaKrishiViswavidyalaya, Kalimpong.
30.	<i>“Diversity of Odonates of three selected sites of Kota, Rajasthan (India)</i>	Johari P.R Government College Kota, University of Kota
31.	<i>Prevalence of pink canker (Corticiumsalmonicolor) of apple in Himachal Pradesh</i>	Kirtipal Singh Department of Plant Pathology, College of Horticulture, DrYashwant Singh Parmar University of Horticulture and Forestry, Nauni- Solan, HP-173230
32.	<i>Impact Of Different Treatment On Yield And Yield Attributes Of Wheat (TriticumAestivum L.) In Central Uttar Pradesh</i>	Kushal Sachan C. S. Azad University of Agriculture and Technology, Kanpur-208002, Uttar Pradesh, India
33.	<i>Screening of Endophytes for Promoting the Growth of Host Plant</i>	M. Sneha Department of Biotechnology, MepcoSchlenk Engineering College, Sivakasi- 626005, Tamil Nadu, India
34.	<i>Optimization Of Puffing Condition Of Rte Puffed Garlic Slices Using Response Surface Methodology</i>	M.H. Gajabe Senior Research Fellow, A value chain in Nutricereal (Millets)” Agricultural Engineering Section, College of Agriculture Dr. PDKV, Akola.
35.	<i>Efficacy Of Fenoxaprop-P-Ethyl 69ec On Direct Seeded Rice (Oryza sativa L.) In New Alluvial Zone Of West Bengal</i>	Madhurima Dey Department of Agronomy, Bidhan Chandra KrishiViswavidyalaya, Mohanpur, Nadia, West Bengal- 741252
36.	<i>Studies of Nano fertilizers on Yield, Economics and Water Use Efficiency in Potato (Solanumtuberosum L.) Under Various Irrigation Schedules</i>	Manimala Mahato Department of Agronomy, Bidhan Chandra KrishiViswavidyalaya, Mohanpur, Nadia, West Bengal-741252
37.	<i>Genetic analysis of lentil with reproductive stage P deficiency tolerance</i>	Murmu Sumit Department of Genetics and Plant Breeding, PalliSikshaBhavana, Institute of Agriculture VisvaBharati , Sriniketan, West Bengal, India- 731236
38.	<i>Evaluation of suitable herbicides for controlling weeds in rabi transplanted rice in old alluvial zone of West Bengal through OFT</i>	Nakul Mandal DakshinDinajpurKrishiVigyan Kendra, Uttar BangaKrishiViswavidyalaya, Majhian, Patiram, DakshinDinajpur- 733133, West Bengal
39.	<i>Physical and biochemical attributes of fruit of different banana germplasm found in Sikkim</i>	Neizohunuo, Department of Horticulture, Sikkim University, 6th mile, Tadong, Gangtok, Sikkim, 7
40.	<i>Effect of organic inputs on seed production of radish</i>	Nitin Yadav Department of Vegetable Science, Dr. Y S Parmar University of Horticulture and Forestry, Nauni, Solan, Himachal Pradesh
41.	<i>Therapeutic Potential Of Betel Leaf Against Digestive Disorders</i>	P. Divya Department of Biotechnology, MepcoSchlenk Engineering College, Sivakasi- 626005, Tamil Nadu, India
42.	<i>Physio-chemical properties on soils in different region Punjab</i>	Pankaj Kumar Yadav Department of Soil science and Agricultural chemistry, Lovely Professional University, Phagwara, Jalandhar, Punjab
43.	<i>Bioprospecting cyanobacteria for plant growth promotion ability in wheat</i>	Ritu Vishwakarma ICAR- National Bureau of Agriculturally Important Microorganisms, Kushmaur, MaunathBhanjan, Uttar Pradesh- 275103

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44.	<i>Application of Natural Biopolymer Based Hydrogel in Agriculture</i>	S. Aishwarya Department of Biotechnology, MepcoSchlenk Engineering College, Sivakasi- 626005, Tamil Nadu, India
45.	<i>Nano delivery of biocontrol agents against phytopathogens</i>	S.M. Harinii Department of Biotechnology, MepcoSchlenk Engineering College, Sivakasi- 626005, Tamil Nadu, India
46.	<i>Introduction of Avacado (Persia americana) fruits in eastern Himalaya of India: A review</i>	Saidiksha Subba Department of Pomology and Post Harvest Technology Uttar BangaKrishiViswavidyalaya (Faculty of Horticulture)
47.	<i>A New Avenue to the Synthesis of Dibarbiturate of Oxindole and ArylideneBarbituric acid Derivatives under Visible Light Irradiation</i>	Savita Kumari Department of Chemistry, Indian Institute of Technology, Banaras Hindu University, Varanasi - 221005
48.	<i>“Effect of natural preservative on various quality attributes of omega-3 and carotenoid-rich table spread during storage”</i>	Savita Kumari Department of Chemistry, Indian Institute of Technology, Banaras Hindu University, Varanasi - 221005
49.	<i>Diversity, population structure, and Selection of optimal chickpea Rhizobium combinations for nodulation, nitrogen fixation, and grainyield</i>	Shiv Charan Kumar ICAR- National Bureau of Agriculturally Important Microorganisms, Mau NathBhanjan, Uttar Pradesh- 275103
50.	<i>Covid – 19 and Medicinal Plants</i>	Shrawani University Department of Botany, Jai Prakash University, Chapra (Bihar), India – 841301
51.	<i>Biotic stresses of Apismellifera L. in Terai zone of West Bengal</i>	Sibananda Singha Department of Agricultural Entomology, Uttar BangaKrishiViswavidyalaya, Pundibari, Cooch Behar, West Bengal-736165, India
52.	<i>Effect of planting dates on performance of onion in old alluvial zone of West Bengal</i>	Siddikul Islam DakshinDinajpur KVK,UttarBangaKrishiViswavidyalayaPundibari, Coochbehar, West Bengal
53.	<i>Application of Sewage Sludge in Rice (Oryza sativa L.)-Wheat (Triticumaestivum L.) System Influences the Productivity and HeavyMetals Accumulation of Rice and Wheat cropping System</i>	Surendra Singh Jatav Department of Soil Science and Agricultural Chemistry, Institute of Agricultural Science, Banaras Hindu University, Varanasi, UP, India- 221005
54.	<i>Effect of organic inputs and land configuration on yield and quality of rice bean</i>	Tarama Chatterjee Ph.D. Scholar, PalliSikshaBhavan, VisvaBharati, Santiniketan, West Bengal
55.	<i>Impact of Soil Organic Carbon (SOC) on Global Warming</i>	Tirtharaj Patra Department of Soil Science & Agriculture Chemistry, Lovely Professional University, Phagwara, Jalandhar, Punjab
56.	<i>Ta.petang: Bloodfruit from Garo Hills</i>	Upasana Deb Department of Agribusiness Management and Food Technology, North Eastern Hill University, Tura Campus, Tura, Meghalaya
57.	<i>Study The Effect of Establishment Methods on Growth and Yield of Lathyrus Varieties in Red and Laterite Zone of West Bengal</i>	V.V.S. Jaya Krishna Department of Agronomy, Faculty of Agriculture, Bidhan Chandra KrishiViswavidyalaya, Mohanpur, Nadia, West Bengal- 74125
<b>Technical Session II</b>		
<b>Theme 2: Recent Advances in Agricultural Technology</b>		
<b>Chairperson</b>		Prof. J. P. Tamang Sikkim University
<b>Co - Chairperson</b>		Dr. J. Pradhan Senior Scientific officer, Variable Energy Cyclotron Centre, Dept. of Atomic

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		Energy, Govt. of India, Kolkata
	<b>Rapporteurs</b>	Ms. Akriti Pradhan KVK, Kalimpong Mr. Bandan Thapa, RRS, UBKV, Kalimpong
<b>Invited/Lead Lectures</b>		
	Advances in cryogenics and its Application	Dr. J. Pradhan Senior Scientific officer, Variable Energy Cyclotron Centre, Dept. of Atomic Energy, Govt. of India, Kolkata
	Integrative Approaches of Mrtagenomics and Metabolomics for validation of indigenous knowledge of food fermentation	Prof. J. P. Tamang Sikkim University
<b>Oral Presentations</b>		
58.	Design and Optimization of Battery Electric Vehicle Operated Sprayer by Using Box-Behnken Method	Dr. D. S. Karale Assistant Professor, Deptt. of Farm Power and Machinery, Dr. PDKV, Akola.
59.	Design and Optimization of Battery Electric Weeder by Using Response Surface Methodology	Dr. N. P. Awate Assistant Professor, Deptt. of Mechanical Engineering, G. H. Rasoni College of Engg., Nagpur
60.	Golden gate based cloning of AAP3 gene for increasing rice tillering	Itishree N Crop Improvement Division, ICAR-National Rice Research Institute, Cuttack-753006, Odisha, India
61.	Proteome analysis of salt responsive proteins in sorghum [Sorghum bicolor (L.) Moench] genotypes	Dr. Jayanti Tokas Department of Biochemistry, College of Basic Sciences & Humanities, CCS Haryana Agricultural University, Hisar-125004, Haryana, India
62.	A Quick Analysis Method for Protein Quantification in OilseedCrops: Improvement over Standard Protocol	Sapna Langyan ICAR-National Bureau of Plant Genetic Resources (NBPGR), New Delhi, India
63.	Solar Energy Utilization for Extraction of Essential Oil from Medicinal Plants	Dr. S. R. Kalbande Professor & Head, Department of Unconventional Energy Sources and Electrical Engineering, Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola, Maharashtra, India
64.	Ortho silicic acid - a connecting link for mitigation of climate change and sustainable crop productivity	Dr. Vinod Goyal Oilseed Section, Department of Genetics and Plant Breeding, CCS HAU, Hisar-125004, India
65.	Studies on Potential of Plasmococcus TRC1 in Decolorization and Detoxification of Indigo Carmine	Dalia Dasgupta Mandal Department of Biotechnology, National Institute of Technology Durgapur, Durgapur, West Bengal
66.	Development, Organoleptic Evaluation and Nutritional Analysis of Value Added Maize Chips (Nachos) Incorporated With Asparagus Racemosus (Shatavari)	Aparna Srivastava Research Scholar, Department of Food and Nutrition, ERA University, Lucknow
67.	Impact of Nano Selenium Supplementation on Growth Performance of Broiler Chicken	Dr. Rahul Deb Mukherjee Subject Matter Specialist (Animal Science), Cooch Behar Krishi Vigyan Kendra, Uttar Banga Krishi Viswavidyalaya, Pundibari, Cooch Behar, West Bengal, India
68.	Study on constraints faced by farmers in watershed and non-watershed areas of Bundelkhand region in Central India	Om Prakash ICAR- Indian Agricultural Research Institute, New Delhi- 110012
69.	Utilization of biochar for carbon sequestration and farm waste management	Peeyush Sharma Division of Soil Science and Agriculture Chemistry, SKUAST-Jammu, Jammu and Kashmir, India
<b>04:30-06:00 PM</b>	<b>Technical Session III</b>	

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<b>Theme 3: Recent Advances in Agroforestry and Allied Fields</b>		
	<b>Chairperson</b>	Dr. T.D. Lama ICAR-Central Soil Salinity Research Institute, Regional Research Station, Canning Town - 743 329, West Bengal, India
	<b>Co - Chairperson</b>	Dr. Malay K. Bhowmick IRRI-South Asia Regional Centre, Varanasi 221006, Uttar Pradesh, India
	<b>Rapporteurs</b>	Dr. Ranajit Panda, KVK, Kalimpong Mrs Snehalata Lama, KVK, Kalimpong
<b>Invited/Lead Lectures</b>		
	“Innovative management practices for restoration of degraded coastal lands in the Indian Sundarbans	Dr. T.D. Lama ICAR-Central Soil Salinity Research Institute, Regional Research Station, Canning Town - 743 329, West Bengal, India
	Agronomic Innovations and Interventions for Precise and Mechanized Direct-Seeded Rice	Dr. Malay K. Bhowmick IRRI-South Asia Regional Centre, Varanasi 221006, Uttar Pradesh, India
<b>Oral Presentations</b>		
70.	Woodlots importance as livelihood security in Kashmir (District-Ganderbal)	Azeem Raja PhD Scholar, Sher e Kashmir university of agricultural sciences and Technology, Kashmir
71.	Impact of Vegetation Cover on Temperature under Changing Climate in the Agriculture Dominated State of India	Darshana Duhan Chaudhary Charan Singh Haryana Agricultural University, Hisar, Haryana, India
72.	Identifying the Birds Diversity Hot Spots in Catchment of Arpa River, Bilaspur, Chhattisgarh	Dr. Alok Kumar Chandrakar Department of Forestry, Wildlife & Environmental Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh, India.
73.	The competent predictors for mangrove ecosystem degradation, key eco-physiological resilience trait complex specific for mangroves -A study from Indian Sundarbans	Dr. Mst Momtaj Begam Kalimpong College, Rinkinpong Rd, Kalimpong Khasmahal, Kalimpong, West Bengal
74.	“Socio-economic predictors of dependence on NTFPs and analyse the role of NTFP collectors towards forest conservation in Nagaland	Dr. Sanjoy Das Department of Agricultural Economics, SASRD, Nagaland University, Medziphema campus, Nagaland
75.	Diversity of Monosporangiophyta in India with special reference to West Bengal	Dr. Shuvadeep Majumdar Parimal Mitra Smriti Mahavidyalaya, Department of Botany, Mal, Jalpaiguri, 735 221, West Bengal, India.
76.	Effect of different spacing of eucalypts ( <i>Eucalyptus teriticornis</i> ) based agroforestry system on performance of agricultural crops	Dr. V. Dalal Assistant Scientist, Department of Forestry, CCS HAU, Hisar
77.	“Impact of timing of surface sterilant on callus development in Sandalwood ( <i>Santalum album</i> Linn) from shoot tip explants	Dr. Sandeep Rout Faculty of Agriculture, Sri Sri University, Cuttack, Odisha, India
<b>06:00-07:00pm</b>	<b>Cultural Programme</b>	
<b>07:00-09:00pm</b>	<b>Dinner</b>	
<b>Day 2</b>	<b>June 12, 2022</b>	
	<b>Venue: Conference Hall, Kalimpong Science Centre, Deolo, Kalimpong</b>	
<b>08:30-09:30am</b>	<b>Breakfast</b>	
<b>09:30-11:30am</b>	<b>Technical Session IV</b>	
	<b>Theme 4: Recent Advances in Horticultural Sciences</b>	

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	<b>Chairperson</b>	Dr Dwijendra Barman Incharge & Principal Scientist, IARI, Regional Station, Kalimpong West Bengal, India
	<b>Co - Chairperson</b>	Dr. Sarad Gurung Incharge & Associate Professor, Regional Research Station,UBKV Kalimpong
	<b>Rapporteurs</b>	Dr. Sumita Praadhan, UBKV, Coochbehar Dr.Natasha Gurung, ICAR-IARI, Kalimpong
<b>Invited/Lead Lectures</b>		
	Future farming- Options for modern horticulture in peri-urban and urban area	Dr Dwijendra Barman Incharge & Principal Scientist, IARI, Regional Station, Kalimpong West Bengal, India
	CINCHONA- The magic plant: the role it played in past and future prospects	Dr. Samuel Rai, Director, Directorate of cinchona and other medicinal plants, Govt. of West Bengal
<b>Oral Presentations</b>		
78.	Potential of novel fruit crops in Indian scenario	Dr. Annjoe V. Joseph Asst. Professor, Dept. of Horticulture, SHUATS, Allahabad
79.	Deciphering unculturable Microbial diversity of cabbage rhizospheric soil of Singtam (Sikkim) and their characterization	Dr. Alok K. Srivastava ICAR-National Bureau of Agriculturally Important Microorganisms, Kushmaur, Mau
80.	Weed density and weed control efficiency affected by different weed management practices in Apple nursery plants	Dr. Amit Kumar Division of Fruit Science, FOH, SKUAST- Kashmir, Shalimar Campus, Srinagar (J & K)
81.	Training need assessment and designing strategy for increasing pineapple productivity in Darjeeling district of West Bengal	Dr. Deepa Roy Assistant Professor, Department of Agricultural Extension, UBKV, Pundibari, Cooch Behar, WB
82.	Association of stress responsive genes and TFs with Jelly seed in mango	Dr. Israr Ahmad Division of Crop Improvement and Biotechnology, ICAR-Central Institute for Subtropical Horticulture, Lucknow
83.	Effect of Citrus Rootstock on leaf Nutrient Acquisition of Darjeeling Mandarin (Citrus reticulata Blanco)	Dr. N. Gurung ICAR-Indian Agricultural Research Institute, Regional Station Kalimpong,, West Bengal
84.	“Genotype x Environment Interactions and Yield stability of Butternut genotypes of Pumpkin (Cucurbitamoschata Duch. ex. Poir).	Dr. Raja Shankar Indian Institute of Horticultural Research, Hesaraghatta, Bengaluru-560089
85.	Single Bud Transplanting Technique Of Turmeric To Reduce Seed Cost	Dr. RK Roshan SMS Horticulture, ICAR-KVK Tamenglong
86.	Elicitation of trigonelline, a hypoglycemic component in fenugreek sprouts by calcium and nitric oxide priming	Dr. Saran Kumar Gupta Department of Botany, Kalimpong College, Kalimpong, West Bengal, India
87.	“Study the performance of wedge grafting in Indian jujube under different growing conditions	Dr. Satpal Baloda Department of Horticulture, CCS Haryana Agricultural University, Haryana, India,
88.	Assesment of Integrated Management of Nutrient for sustainable production of Betel vine(Piper betle L.)	Dr. Anand Prasad RakeshPanditDeendayalUpadhyay College of Horticulture & Forestry, Piprakothi, Motihari, East Champaran (Bihar) India-845429
89.	Effect of growing media on growth and flowering of Alstroemeria cv. Pluto	Dr. Sumita Pradhan Department of Floriculture, Medicinal & Aromatic Plants, Uttar

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		BangaKrishiViswavidyalaya, Pundibari, Coochbehar-736165.
90.	Assessing impact of eco-friendly iron and zinc oxide nanoparticles fabricated via green synthesis on grapevine cv. Thompson Seedless	Dr. YuktiVerma ICAR-National Research Centre for Grapes, Pune, Maharashtra 412307, India
91.	Changes in rhizome reserves composition during 4 different stages of plant development in <i>Curcuma caesia</i>	Jayoti Majumder Bidhan Chandra KrishiViswavidyalaya, Mohanpur, Nadia, West Bengal
92.	“Performance Of Twenty Three Genotypes In Tomato ( <i>Solanumlycopersicum</i> L.) Germplasm	K. Sushma College of Horticulture, SKLTSU, Hyderabad
93.	Effect Of Organic Liquid Fertilizers On The Soil Fertility Status And Plant Nutrition Behaviour Of <i>Gladiolus</i>	M. Jangyukala Dept. of Horticulture, School of Agricultural Sciences and Rural Development, Nagaland University, Medziphema -797106
94.	Ecological survey of <i>Nardostachysgrandiflora</i> DC. found in higher elevations of Sikkim	Pema Sherpa Department of Horticulture, Sikkim University, Gangtok-737102
95.	Determination of Heterosis for Growth and Yield in Eggplant	Suren Limbu Department of Horticulture, Sikkim University, 6th Mile Tadong, Gangtok 737102
<b>11:30am-11:45pm</b>	<b>Tea Break</b>	
<b>11:45am-01:45pm</b>	<b>Technical Session V</b>	
	<b>Theme 5: Recent Advances in Disease and pest management in crop plants</b>	
	<b>Chairperson</b>	Dr. Sanjay Kumar Jha Central Department of Botany Tribhuvan University, Kirtipur, Kathmandu, Nepal
	<b>Co - Chairperson</b>	Dr. Abhay K. Pandey Department of Mycology & Microbiology, Tea Research Association, North Bengal Regional R & D Center, Nagrakata-735225, West Bengal
	<b>Rapporteurs</b>	Mr. S. Baskey, RRS, UBKV, Kalimpong  Dr. Biswajit Patra, RRS, UBKV, Kalimpong
	<b>Invited/Lead Lectures</b>	
	Emerging fungal disease threats to Natural and Planted forest in Nepal	Dr. Sanjay Kumar Jha Central Department of Botany Tribhuvan University, Kirtipur, Kathmandu, Nepal
	“Gray blight-a major threat for the tea industry”	Dr. Abhay K. Pandey Department of Mycology & Microbiology, Tea Research Association, North Bengal Regional R & D Center, Nagrakata-West Bengal, India
	<b>Oral Presentations</b>	
96.	“Colorimetric LAMP assay for detection and ecological monitoring of <i>Sarocladiumoryzae</i> , an important seed borne pathogen of rice	Dr. Prassan Choudhary Microbial Technology Unit II, ICAR-National Bureau of Agriculturally Important Microorganisms, Mau, Uttar Pradesh-275103, India
97.	Development of low cost in-vivo mass production system of native EPN ( <i>Heterorhabditisindica</i> VLEPN01)	Ashish Kumar Singh Scientist in the Division crop protection, ICAR-VivekanadaParvatiyaKrishiAnusandhanSansthan, Almora-263601, Uttarakhand, India
98.	Evaluation of different Root knot nematode management practices under Protected cultivation grown tomato at mid Himalayan region	Ashish Kumar Singh Scientist in the Division crop protection, ICAR-VivekanadaParvatiyaKrishiAnusandhanSansthan, Almora-263601, Uttarakhand, India
99.	“Construction of guide RNA in CRISPR/cas9 vector using golden gate cloning: Targeting CYP71A1 gene to increase Brown plant hopper (BPH) resistance in rice ( <i>Oryza sativa</i> L.)	Bijayalaxmi S Crop Improvement Division, ICAR-National Rice Research Institute, Cuttack-753006, Odisha, India



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100.	Survey on fungal diseases of medicinal and aromatic plants of Kalimpong district of West Bengal, India	Dr. Baskey, S Department of Plant Pathology, UttarBangaKrishiViswavidyalaya, Regional Research Station (Hill Station) Kalimpong - 734301, West Bengal, India
101.	Application of beta regression in forewarning pest attacks in crops	Dr. BishalGurung ICAR-Indian Agricultural Statistics Research Institute
102.	Acaricidal Resistance and role of detoxifying enzymes in Oligonychus coffeae Nietner on tea	Dr. Biswajit Patra Regional Research Station (Hill Zone), Uttar BangaKrsishiViswavidyalaya, Kalimpong, West Bengal-734301
103.	“Insecticide resistance of black inch worm Hyposidrata laca (Lepidoptera: Geometridae) in Eastern Himalayan tea growing zone of India	Dr. Debashis Roy Dhaanya Ganga KrishiVigyan Kendra, Ramakrishna Mission Vivekananda Educational and Research Institute, Murshidabad, West Bengal – 742408, India
104.	Advances In Biological Control For Insect Pest Management	Dr. Farahanaz Rasool Directorate of Extension, SKUAST-K, Shalimar campus, Srinagar
105.	“Front Line Demonstrations of leaf spot disease management by chemical method in turmeric crop	AnuragKerketta College of Horticulture and Research Station, Jagdalpur
106.	Survey on Insect Pests of Yard Long Bean (Vigna Unguiculata Subsp. Sesquipedalis L.) in Major Growing Areas of Southern Karnataka	Dr. Ramesh M Maradi Department of Agricultural Entomology, College of Agriculture, Shivamogga, Univesity of Agriculture and Horticultural Sciences, Navile, Shivamogga, Karnataka
107.	Role of stingless bee, Tetragonulairidipennis Smith in pollination of cucumber	Dr. Rumki H. Ch. Sangma Department of Entomology, School of Agricultural Sciences and Rural Development, Nagaland University, Medziphema, Nagaland
108.	Enzymes attributed root knot nematode (Meloidogyne incognita) resistance in brinjal species	Dr. Sherly. J Assistant Professor (Horticulture), Dept. of Horticulture, Pandit Jawaharlal Nehru College of Agriculture and Research Institute, Karaikal-
109.	Seasonal incidence of ginger shoot borer (Conogethes punctiferalis) and its correlation with abiotic factors	K. Lalruatsangi Department of Entomology, SASRD, Medziphema Campus, Nagaland University, Nagaland797106
110.	Evaluation of some plant extracts and Jatropa oil against pulse beetle (Callosobruchus chinensis L.) infesting ricebean (Vigna umbellata) seeds	Khrieketou Kuotsu Department of Entomology, School of Agricultural Sciences and Rural Development, Medziphema Campus, Nagaland University, Nagaland- 797106, India
111.	Indigenous Technical Knowledge (ITK) practices against Scirtothrips dorsalis Hood and Myzus persicae Sulz infesting chilli	Pranay Rai Assistant Professor (Agricultural Entomology), I Assistant Professor (Agricultural Engineering) College of Agriculture, Susunia, Bankura, 722 132
112.	Awareness about the use of Agrochemicals by the farmers in rural areas of Solan (H.P.) India	Shalini Chouhan Department of Zoology, RGGDC, Shimla-4 (H.P.) India
113.	Colorimetric LAMP assay for the detection of Fusarium oxysporum f. sp. ciceri- wilt pathogen of chickpea using FGB1 gene	Shaloo Verma ICAR- National Bureau of Agriculturally Important Microorganisms (NBAIM), Kushmaur, Mau, Uttar Pradesh, 275103, India
114.	“Species specific short mitochondrial primer for Brown planthopper, Nilaparvatalugens	Srinivasa N Department of Entomology and Agricultural Zoology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, India-
115.	“Pest Disease Management In Sesamum Through Organic Methods Under Cluster Frontline Demonstration On Oil Seeds In West Godavari District Of Andhra Pradesh	V. Deepthi Scientists, KVK, Venkataramannagudem
01:45-02:30pm		Lunch Break

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02:30-04:30 pm		
Technical Session VI		
Theme 6: Recent advances in Animal Husbandry, Fishery and Allied sciences		
	<b>Chairperson</b>	Ferdous Ahamed Department of Fisheries Management, Patuakhali Science and Technology University, Patuakhali8602, Bangladesh
	<b>Co - Chairperson</b>	Dr. Ani Bency Animal Nutritionist, Ministry of Animal Husbandry, Fisheries & Dairying, New Delhi
	<b>Rapporteurs</b>	Dr. M. H. Khan, KVK, Kalimpong  Dr. Madhumita Srivastava Sunbeam College for Women, Varanasi
Invited/Lead Lectures		
	Estimation of key population parameters of <i>Penaeus indicus</i> (Crustacea: Penaeidae) in the Andharmanik River, southern Bangladesh: implications for sustainable management	Ferdous Ahamed Department of Fisheries Management, Patuakhali Science and Technology University, Patuakhali8602, Bangladesh
	The Emerging Trends in Livestock feeding and feed security	Dr. Ani Bency Animal Nutritionist, Ministry of Animal Husbandry, Fisheries & Dairying, New Delhi
Oral Presentations		
116.	Nutritional Profiling of Some Selected Commercially Important Freshwater and Marine Water Fishes of Bangladesh	Md. Ariful Alam Department of Fisheries Biology and Genetics, Patuakhali Science and Technology University, Dumki, Patuakhali-8602, Bangladesh
117.	Development of sustainable low-cost aquaculture technique using Asian watergrass as fish feed”	Md. Moazzem Hossain Department of Fisheries Management, Patuakhali Science and Technology University, Dumki, Patuakhali, Bangladesh
118.	Optimization of the stocking density of pabda (Ompokpabda) in cage culture system	Mohammad Lokman Ali Department of Aquaculture, Patuakhali Science and Technology University, Dumki, Patuakhali, Bangladesh
119.	Effect of Feeding Cauliflower Leaf Powder (CLP)-enriched Diet on the Carcass and Meat Quality of Rabbit	Dr. A.P. Bansod Animal Nutrition Division, ICAR-IVRI, Izamagar, Bareilly, UP, India
120.	Scope of rumen manipulation using Eastern Himalayan forest tree leaves to reduce ciliate protozoal population for improving animal productivity	Dr. Ashok Santra Eastern Regional Station, ICAR-National Dairy Research Institute, Kalyani, West Bengal
121.	Scope and Prospects of Fisheries towards Livelihood Security in Uttar Pradesh	Dr. Madhumita Srivastava Sunbeam College for Women, Varanasi,
122.	Climate Change and Sheep Husbandary Challenges in India with Reference To Himalayan Ecosystems	Dr. Dil Mohammad Makhdoomi Sher-I-Kashmir University of Agricultural Sciences and Technology of Kashmir, Shalimar
123.	Extraction of carrageenan from <i>Kappaphycussp</i> from Gujarat, India	Dr. Mandakini Devi Hanjabam ICAR-Central Institute of Fisheries Education, Kolkata Centre, Kolkata-700091
124.	Development of microbial consortium from microbes isolated from cow products based bio-formulations	Dr. R. A. Ram ICAR-Central Institute for Subtropical Horticulture, Rehmankhera, Lucknow
125.	Ornamental Bird Rearing – The Alternative Sustainable Livelihood Option for Womenfolk of Terai Region	Dr. Rahul Deb Mukherjee Cooch Behar Krishi Vigyan Kendra, Uttar Banga Krishi Viswavidyalaya, Pundibari, Cooch Behar, West Bengal, India
126.	Costs and returns of soil application of liquid organic manures to mulberry garden and cocoon production of PM x CSR2 and FC1 x FC2 silkworm breeds	Dr. S. Chandrashekhar Department of Sericulture, College of Agriculture, UAS, GKVK, Bengaluru, India
127.	Influence of liquid organic manures on growth and yield of V-1 mulberry ( <i>Morus alba</i> )	Dr. S. Chandrashekhar Department of Sericulture, College of

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		Agriculture, UAS, GKV, Bengaluru, India
128.	Feeding Culled Carrot to Growing Rabbits: Effect on Blood Biochemical Profile	Dr. Saha S.K Unconventional feed laboratory, Animal Nutrition Division, Indian Veterinary Research Institute, IZATNAGR 243 122, India
129.	Ghost fishing by lost set gillnets: A simulation study from Indian waters	Dr. Sandhya K. M ICAR-Central Institute of Fishing Technology, Kochi, Kerala-682029
130.	Effect of whey feeding on acceptability and growth performance of broiler chicks	Dr. Sanjay Kumar Dept. of Livestock Production Management, BVC, Patna
131.	Economics And Marketing of Dairy Products in Cooperative Sector of Uttarakhand: A Case Study of Aanchal Plant In Udham Singh Nagar District Of Uttarakhand	Dr. Shweta Chaudhary Assistant Professor, Department of Agricultural Communication, College of Agriculture, GBPUAT, Pantnagar
132.	Application of dielectric constant for detection of subclinical mastitis: an Overview	Indu Panchal LalaLajpatRai University of Veterinary and Animal Sciences, Hisar 125001, Haryana
133.	Livelihood Resilience Of Fishers: A Case Study Of Bargi Reservoir, Madhya Pradesh	Ms. NidhiKatre ICAR-Central Institute of Fisheries Education, Versova, Mumbai, Maharashtra, India
134.	Effect of synthetic and herbal exogenous emulsifiers on performance of broiler chickens fed energy-restricted diets	Pankaj Kumar Singh Department of Animal Nutrition, Bihar Veterinary College, Patna, Bihar, India
135.	Sub-acute renal toxicity study of CETP treated tannery wastewater in Swiss mouse (Musmusculus) model	Pradeep Kumar Singh CSIR- Indian Institute of Toxicology Research, Lucknow, Uttar Pradesh – 226001
136.	Utilization of goat rumen meat as functional food	Sushma Kumari Dept. of LPT, BVC, Patna
137.	Seasonal influence of water quality parameters on fish diversity and assemblage pattern in KailashKhal, a tropical coastal wetland, Sundarbans, India	Thangjam Nirupada Chanu ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata (W.B.)
<b>04:30-06:00pm</b>	<b>Technical Session VII</b> <b>Theme 7: Recent Advances in Livelihood Security</b>	
	<b>Chairperson</b>	Prof. Prabhat Kumar Pal Director Extension Education UBKV, Cooch Behar
	<b>Co - Chairperson</b>	Prof Bidhan Roy Department of Seed Science and Technology, Faculty of Agriculture, Uttar BangaKrishiViswavidyalaya, Pundibari, Cooch Behar 736165, West Bengal, India
	<b>Rapporteurs</b>	Mr. Sarad Gurung, Kalimpong College Ms Richa Ali, Kalimpong College
<b>Invited/Lead Lectures</b>		
	“Water management strategies of rice under changing climate scenario	Prof. M N Khan Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir
	Creation of Rice Repository and Effective Application of Farmer’ Varieties for Rice Improvement	Prof Bidhan Roy Department of Seed Science and Technology, Faculty of Agriculture, Uttar BangaKrishiViswavidyalaya, Pundibari, Cooch Behar 736165, West Bengal, India
<b>Oral Presentations</b>		
138.	Modelling volatile agricultural price series using Bayesian time series models	Dr. Achal Lama, ICAR-Indian Agricultural Statistics Research Institute, New Delhi, India

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139.	<i>Impact of Socio-cultural Attributes of Pulse Farmers on Resource Management Practices in Nayagarh District of Odisha</i>	Dr. Ajay Kumar Prusty, M S Swaminathan School of Agriculture, Centurion University of Technology and Management, Odisha, India- 761211
140.	<i>A study on agricultural information preservation by the farm women of North Bengal</i>	Dr. Ganesh Das Subject Matter Specialist, (Agricultural Extension), CoochbeharKrishiVigyan Kendra, Uttar BangaKrishiViswavidyalaya, Pundibari, Coochbehar, West Bengal, India
141.	<i>Coping strategies adopted by farm families of Uttarakhand to combat climate change</i>	Dr. PoonamTewari Deptt. of Home Science Extension, College of Home Science, G.B.P.U.A.&T., Pantnagar, Uttarakhand
142.	<i>Preparation and Evaluation of Fermented Functional Noodles from Black Rice</i>	Dr. R. Mala Department of Biotechnology, MepcoSchlenk Engineering College, Sivakasi-626005, Tamilnadu, India
143.	<i>Study on livelihood assessment analysis in Jammu region</i>	Dr. Sunil Kumar ICAR-Indian Institute of Farming Systems Research, Modipuram, Meerut,
144.	<i>Field evaluation of various methods of organic manure preparation from paddy agrowaste using bioaugmentation strategy</i>	Dr. Trupti K Vyas Food Quality Testing Laboratory, N M College of Agriculture, Navsari Agricultural University, Navsari - 396450, Gujarat, India
145.	<i>Entrepreneurship development through Mushroom Production in Sub Himalayan region of West Bengal</i>	Ganesh Das CoochbeharKrishiVigyan Kendra, Uttar BangaKrishiViswavidyalaya, Pundibari, Coochbehar, 736165, West Bengal, India
146.	<i>Communication skill of the farm women for agricultural information network output: An empirical study</i>	Ganesh Das Subject Matter Specialist, (Agricultural Extension), CoochbeharKrishiVigyan Kendra, Uttar BangaKrishiViswavidyalaya, Pundibari, Coochbehar, 736165, West Bengal, India
147.	<i>A study on B2B, B2C and C2C type of agricultural e-commerce in West Bengal</i>	Ganesh Das Subject Matter Specialist, (Agricultural Extension), CoochbeharKrishiVigyan Kendra, Uttar BangaKrishiViswavidyalaya, Pundibari, Coochbehar, 736165, West Bengal, India
148.	<i>Commercial Beekeeping for Enhanced Livelihood Security: A Case Study in Terai Region of West Bengal</i>	Suraj Sarkar, Cooch Behar KrishiVigyan Kendra, Uttar BangaKrishiViswavidyalaya
149.	<i>Prospect of scientific beekeeping for agri-entrepreneurs in Meghalaya</i>	SandipPatra ICAR Research Complex for NEH Region, Umiam, Meghalaya-793103
<b>Day 3</b>	<b>June 13, 2022</b> <b>Venue: Conference Hall, Kalimpong Science Centre, Deolo, Kalimpong</b>	
<b>08:30-09:30am</b>	<b>Breakfast</b>	
<b>09:30-11:00am</b>	<b>Technical Session VIII</b> <b>Theme 8: Recent advances in Biological and Applied Sciences</b>	
	<b>Chairperson</b>	Prof. T. S. Ghimiray RRS, UBKV, Kalimpong
	<b>Co -Chairperson</b>	Dr. M. Ghosh Director of Farms, UBKV
	<b>Rapporteurs</b>	Dr. Pranab Barma, KVK, Kalimpong  Mr. H. K. Tarafder, RRS, UBKV, Kalimpong
<b>Invited/Lead Lectures</b>		
	<i>A potential herbal antibiotic “Dinoxin B Withanolide” from Datura inoxia</i>	Dr. Priti Mathur Amity Institute of Biotechnology, Amity University Uttar Pradesh, Mallhore,

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		Lucknow
<b>Oral Presentations</b>		
150.	Nanotechnology - An Emerging Warrior against Cancer	Dr. Shweta Mehrotra Department of Bio and Nano Technology Guru Jambheshwar University of Science & Technology, Hisar-125001, India
151.	Mapping of Sunflower Crop Using Sentinel-1 and Sentinel-2 Satellite Data in Kurukshetra District, Haryana	Dharmendra Singh, Haryana Space Applications Centre, CCS HAU Campus Hisar, Haryana
152.	Isolation of Plant Growth Promoting Rhizobacteria and their Delivery through Biopolymer Matrix	Dr. R. Mala Department of Biotechnology, MepcoSchlenk Engineering College, Sivakasi-626005, Tamilnadu, India
153.	A biorefinery approach for conversion of hazardous Kraft Lignin into versatile Lignin Nanoparticles	Dalia DasguptaMandal Department of Biotechnology, National Institute of Technology Durgapur, Durgapur, West Bengal
154.	Evaluation of the antidiabetic potential of nanoformulation of curcumin and epigallocatechingallate (EGCG) in diabetic nephropathy	Gyamcho Tshering Bhutia Laboratory of Nanomedicine, Division of Pharmaceutical Biotechnology, Department of Pharmaceutical Technology, Jadavpur University, Kolkata 700032, West Bengal, India
155.	Sleep Induction by Natural NeurocosmeticNanocream	Dr. R. Mala Department of Biotechnology, MepcoSchlenk Engineering College, Sivakasi-626005, Tamilnadu, India
156.	Potential of phytomolecules as anti-protease compounds to combat SARS-CoV-2; an In silico approach	Manish Dwivedi Amity Institute of Biotechnology, Amity University Uttar Pradesh, Lucknow- 226028, India
157.	Therapeutic Potential of Essential Oils against Cytokine Storm and COVID-19	Dr. R. Mala Department of Biotechnology, Mepco Schlenk Engineering College, Sivakasi-626005, Tamilnadu, India
158.	Nano Wound Dressing to facilitate Debridement and Healing of Burn Wound	Dr. R. Mala Department of Biotechnology, Mepco Schlenk Engineering College, Sivakasi- 626005, Tamilnadu, India
11:00am-01:00pm	<b>Valedictory Session</b>	
01:00-02:00pm	<b>Lunch</b>	

**Note: Time Allotted for Lead/Invited Lecture: 20 Minutes**

**Time Allotted for Oral Presentation: 10 Minutes**

**Time Allotted for Poster Presentation: 5 minutes**