

11th International Conference on Integration of Science and Technology for Sustainable Development 2024

(11th ICIST 2024)

SCIENTIFIC SESSIONS

KEYNOTE LECTURES

Chairpersons

<p>Dr. P. Krupakar Associate Professor (Research) Sathyabama Institute of Science and Technology</p>	<p>Dr. S.S. Dawn Professor (Research) Sathyabama Institute of Science and Technology</p>	<p>Prof. Kasem Soyong Founder & President AATSEA, Thailand</p>
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List of Key note Lectures

	Time	Name of the Speaker	Title of the talk	Page No
L1	11.30-11.50	Prof. Dr. Hiroyuki Konuma Executive Director, GIAPSA (Former Professor Meiji University) Former UN FAO Assistant Director-General and Regional Representative for Asia and the Pacific), JAPAN	A pilot programme towards sustainable development of a hill tribe community in Northern Thailand	2
L2	11.50-12.10	Dr. Zainal Muktamar Professor, Department of Soil Science, University of Bengkulu, INDONESIA	Land Productivity under Long-Term Organic Farming in Humid Tropical Highland of Indonesia	3
L3	12.10-12.30	Dr. Tapio Juokslahti Professor Adjunct Professor in Helsinki University, FINLAND	Kashgar food project post-Harvest management to improve rural income	4
L4	12.30-12.50	Dr. Kampon Sriwatanakul Chairman of Thailand National Charter of Health. Former Vice President for Research and Foreign Relations, Mahidol University, THAILAND	Plant Chimera Agriculture	5
L5	12.50-13.10	Prof. TSSK Patro Principal Scientist and Head Agricultural Research Station ANGR Agricultural University Gajularega, Vizianagaram, INDIA	Neutricereals: Magical grains for climate resilient Agriculture in present era	6

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Development 2024
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ORAL PRESENTATIONS – SESSION DETAILS

Session 1 (Room xx): Agricultural Extension, Education and Development

S. No	Time	Chair : Prof. Dr. Wafaa Haggag (Egypt) Co-chairs : Prof. Dr. Pakkapong Pongsuk (Thailand)
1	14:30-14:45	IL 1: Pakkapong Pongsuk (Thailand): Learning and practical networks for growing organic herbs: facilitating learning and innovation for sustainable agriculture
2	14:45-15:00	IL 2: Wafaa Haggag (Egypt): Geographic Information Systems and Remote Sensing: Innovative Tools for Plant Health
3	15:00-15:15	Ekkaphon Thongkaew: The community strength of Ban Klum Suai, Phawa Subdistrict, Kaeng Hang Maeo District, Chanthaburi Province
4	15:15-15:30	Pirachaya Chatanan: Behaviors and opinions of marketing ingredients on garden mix purchase decisions of urban Thai Consumers
5	15:30-15:45	Christopher Llonas: Does off-farm work participation mitigate production risks? A case of rural rice farms in Chiang Rai Province, Thailand
6	15:45-16:00	Jeeranun Khernkhan: Comparison of cost and return between double crop with one crop per year of Maize Community Enterprise in Hin Sorn Subdistrict, Saraburi Province
7	16:00-16:15	Jiraporn Phumthong: Knowledge and Opinions towards fertilizer application technology based on soil analysis and soil nutrient management of durian farmers in Rayong province, Thailand
	16:15-16:30	COFFEE BREAK
8	16:30-16:45	Di Chen: Guidelines for the College of Agriculture and Technology's Competency Development of Agricultural Vocation in the Twenty-first Century
9	16:45-17:00	Christopher Llonas: Assessment of farmers' acceptance, satisfaction, and utilization of mobile application for rice production cost and return in Chachoengsao Province, Thailand
10	17:00-17:15	Kantinan Thongtem: Comparison of cost and return of durian cultivation based on the orchard management techniques of farmers in Rayong Province, Thailand
11	17:15-17:30	Surapa Lertpairat: Supply chain management efficiency for <i>Andrographis paniculate</i> (Burm. f.) Wall. ex Nees of Bandongbang community enterprises in Prachinburi province, Thailand
12	17:30-17:45	Chanhathai Kerdsriserm: Cost-return and technical efficiency of rice production of Ban Nong Saeng rice mill community enterprise in Chachoengsao Province, Thailand

13	17.45– 18.00	Sujanya Charoenpituk: Community enterprise quality management of durian exports in Ban Khao Hin Thaen, Wang Chan District, Rayong Province Thailand
14	18.00-18.15	Warisa Orsuwan: Comparison of cost and return for rubber farmers on innovations to increase latex production in Ban Khai District, Rayong Province, Thailand

Session 2 (Room xx): Animal, Fisheries Sciences and Entomology (Marine biotechnology)

S. No	Time	Chair : Prof. Dr. Dwatmadji (Indonesia) Co-chairs : Assoc. Prof. Dr. Rungtawan Yomma (Thailand), Prof. Dr. Tatik Suteky (Indonesia), Assoc. Prof. Dr. Komkhae Pilasombut (Thailand)
1	14:30-14:45	IL 3: Dwatmadji (Indonesia): Herbs supplementation with the inclusion of piper sp on nutrient intake and digestibility for local goats
2	14:45-15:00	IL 4: Tatik Suteky (Indonesia): The use of non-invasive methods to measure the physiological state of bali cattle supplemented with herbs and humic acid
3	15:00-15:15	Komkhae Pilasombut: A Nonintrusive Beef Grading Evaluation Based on Marbling Fat Imaging by using K-Means Clustering Technique
4	15:15-15:30	Ampon Klompanya: Amla Extract's Impact on Pre-Weaning Piglet Diarrhea: An Investigation into the Therapeutic Potential of Indian Gooseberry (<i>Phyllanthus emblica</i> L.)
5	15:30-15:45	Thanachat Chatchana: Effect of Different Fermented Bag on Silage Quality for Livestock Feed
6	15:45-16:00	Sirithat Thiankham: Efficacy of mangosteen (<i>Garcinia mangostana</i>) peel hot water extract against <i>Aeromonas hydrophila</i> infection of seabass fingerling (<i>Lates calcarifer</i>)
7	16:00-16:15	Hataichanok Passara: The effectiveness of star anise nanoemulsion and chemical insecticide for controlling of beet armyworm
	16:15-16:30	COFFEE BREAK
8	16:30-16:45	Sineenart Polyorach: Ruminal fermentation, microbial populations, and methane production affected by using Seaweed (<i>Ulva rigidain</i>) as a protein source in concentrate for ruminants
9	16:45-17:00	Chirasak Phoemchalard: Chemometric approach to characterizing and comparing the quality of buffalo meat from Nakhon Phanom and Khammouane provinces
10	17:00-17:15	Chanathip Thammakarn: Coexistent infection event of porcine reproductive and respiratory syndrome virus, porcine circovirus type 2 and <i>Pasteurella multocida</i> in swine
11	17:15-17:30	Ampon Klompanya: Effects of partial substitution of feed with spent coffee grounds on growth performance and carcass quality in broilers

12	17:30-17:45	Lestari Pakpahan: Consumer Satisfaction Analysis of Dried Mackerel (<i>Scomberomorus commersoni</i>) in Bengkulu City, Indonesia
13	17.45–18.00	Hataichanok Passara: Insecticidal efficiency of plant essential oil nanoemulsion formulas against Spodoptera exigua
14	18.00-18.15	Anusart Ruddit: Effectiveness of Kratom (<i>Mitragyna speciosa</i> Korth) Leaf Extracts against Adult of Sweet Potato Weevil (<i>Cylas formicarius</i> Fabricius) in Laboratory Conditions
15	18.15-18.30	Thanaporn Doungnapa: Acaricidal activities of essential oil emulsions in controlling different mite pests

Session 3 (Room Noxx) : Biological Diversity and Microbiology

S. No	Time	Chairpersons :
		Chair : Dr. Y. Swarnalatha, (India) Co-chairs : Ali, N.F. (Egypt), Dr. Nithya, Periyar University (India)
1	14:30-14:45	IL 5: Nithya, Priya (India): Studies on siderophore producing rhizobacteria enhancement on <i>Arachis hypogaea</i> L
2	14:45-15:00	IL 6: Ali, N.F. (Egypt): Sustainable application of natural dye from clitoria plant for dyeing and surface finishing of textile fibers and its characteristic bacterial effect to overcome environmental pollution
3	15:00-15:15	Naruemon Mongkontanawat: β -Glucan production of <i>Saccharomyces cerevisiae</i> by using mango fermented wastewater
4	15:15-15:30	Dang Tam Thi Thanh: <i>Streptomyces corchorusii</i> L72 as a potential biocontrol agent against soil born fungi <i>Sclerotium rolfsii</i> causing stem rot on peanut
5	15:30-15:45	Ngoc An Nguyen: Antagonistic effect of Actinomycete CNXK2 against <i>Pilidium concavum</i> SFF1 causing strawberry fruit rot
6	15:45-16:00	Patcharaporn Wongpracha: Effects of <i>Bacillus</i> probiotics, <i>Bacillus subtilis</i> and <i>Bacillus cereus</i> dietary additional to controlling Vibriosis infected of white shrimp, <i>Litopenaeus vannamei</i>
7	16:00-16:15	Racha Tepsorn: Antimicrobial Potential of Ozone in Vapour Phase against <i>Salmonella</i> Thyphimurium and <i>Escherichia coli</i> O157:H7 Contaminated on Bird eye Chili (<i>Capsicum frutescens</i> L.)
	16:15-16:30	COFFEE BREAK
8	16:30-16:45	Palanivishwanath: Microbial community structure associated with micro plastics and bioplastics in coastal marine sediments
9	16:45-17:00	G. Dharshan priya: Isolation and identification of endophytic fungi from <i>avicennia officinalis</i> collected from mangrove forest of pichavaram.
10	17:00-17:15	Dr.C.Mabel Joshaline: Multidrug resistant bacterial pathogens in mastitis milk
11	17:15-17:30	Sri Raja Lakshmi: Post COVID19 impact on bacterial diversity of pulmonary infections

12	17:30-17:45	Shyla Nancy J: <i>In-silico</i> Studies on Anti-Tuberculosis Potential of Bioactive Compounds in Karpoora Valli: Targeting <i>Mycobacterium tuberculosis</i> Cell Wall and Protein Synthesis
13	17.45–18.00	Lavanya D: Invitro Cytotoxicity, Metabolites Profiling and Insilico Studies on Dengue Envelope and Capsid Protein Inhibition by Nilavembu Kudineer components - Zingiber officinale, Vettiveria zizanioides and Piper nigrum
14	18.00-18.15	Prisho Mariam Paul: Computational Structural And Compositional Analysis of SARS CoV-2 Omicron Variant Envelope Protein For Its Stability And Transmissibility Characteristics

Session 4 (Room No xx) : Food Security/Safety/Science and Postharvest Technology

S. No	Time	Chair : Prof. Dr. Tapio Juokslahti (Finland) Co-chairs : Prof. Dr. Zainal Muktamar (Indonesia) Assoc. Prof. Dr. Anurug Poeaim (Thailand)
1	14:30-14:45	IS: Zainal Muktamar (Indonesia): The Quality of Vermicast from Biotransformation of Different Organic Substrates using <i>Lumbricus rubellus</i> and <i>Perionyx excavates</i>
2	14:45-15:00	IL 8: Kasem Soyong: Food Security/ Safety through Organic Agriculture
3	15:00-15:15	Jovita Soans: Nutritional evaluation of banana inflorescence and development of food products
4	15:15-15:30	Ngo Van Tai: Multivariable analysis of physicochemical and functional characterization of four Thai pigmented rice varieties
5	15:30-15:45	Saisuree Wongwichaiwat: Influence of seed moisture content on seed storage of Bambara groundnut (<i>Vigna subterranean</i> L.)
6	15:45-16:00	Natthalika Multha: Influence of Vacuum Packaging Combined with Storage Condition on Biochemical Activities and Quality of Groundnut Seed (<i>Arachis hypogaea</i> L.)
7	16:00-16:15	Thararat Pongcha-Umdee: Effect of Difference Plastic Bags on Corn Silage Quality for Animal Feed
	16:15-16:30	COFFEE BREAK
8	16:30-16:45	Tonrak Touyjaroon: The Analysis of Total Flavonoid Contents in Thai White Rice Landrace
9	16:45-17:00	Komkhae Pilasombut: Application of microcrystalline cellulose gel as a fat reduction strategy in phosphate-free emulsified sausage
10	17:00-17:15	Nipaporn Yonsawad: Evaluation of drying temperature and storage time on antioxidant capacity of dried kaffir lime (<i>Citrus hystrix</i> D.C.) leaf
11	17:15-17:30	Sarocho Phopaijit: Possibility of predicting indirectly the glycemic index of rice using a crop model
12	17:30-17:45	Nutwasa Jaroenjunt: Quality Improvement of Boba from Sago Flour Supplemented with Inulin Using Electron Beam

13	17.45–18.00	Sandra Kusumawardani: Investigating phytochemical and antioxidant activity of free and bound phenolics from brown rice bran and their correlation with enzymatic inhibitory and in vitro starch digestibility
14	18.00-18.15	J Jayanthi: Enhancing Hydroponics with IoT: An Automated Smart System for Optimal Cultivation

Session 5 (Room No XX): Plant Science and Pest Management

S. No	Time	Chair : Asst. Prof. Dr. S. Lalitha (India) Co-chairs : Dr. Sudhagar (India) Dr. Alex Anand (India)
1	14:30-14:45	IL 9: Dr. S. Lalitha (India): Encapsulation of plant growth promoting rhizobacteria in alginate matrix and its interaction with <i>Arachis hypogaea</i> L."
2	14:45-15:00	IL 10: Prof. Dr.Mandali Rajasri (India): Drone Technology: A sustainable tool for pest management in Precision Agriculture.
3	15:00-15:15	Naphat Somala: The effect of microfluidization on characteristics and herbicidal potential of peppermint nanoemulsion on <i>Amaranthus tricolor</i>
4	15:15-15:30	Nattaya Montri: Paclobutazol enhances yield and secondary compounds accumulation in <i>Curcuma longa</i> L.
5	15:30-15:45	Bodin Phadungsawat: Effects of Distance from Coastal Shoreline on Survival and Adaptation of Eastern Native Orchids, Thailand
6	15:45-16:00	Areeya Suraphonphinit: Rate of Azolla microphylla dry matter on nitrogen use efficiency and yield of Japonica rice
7	16:00-16:15	Theerapat Hongyotee: Influence of calcium from different seashells on growth and yield of Khon Kaen 6 peanut cultivar
	16:15-16:30	COFFEE BREAK
8	16:30-16:45	Thanakorn Boonkamjat: Influence of Plant Growth Regulators on Shoot Development of In vitro Chrysanthemums
9	16:45-17:00	Phatchayamon Piphawatthanakul: Effects of Paclobutrazol on Growth Retarding in Potted Plant Chrysanthemums (<i>Dendranthema grandiflora</i>)
10	17:00-17:15	Manthana Mueangkhong: Response to selection for resistance to pepper yellow leaf curl Thailand virus of chili pepper populations (<i>Capsicum annuum</i> L.)
11	17:15-17:30	Thanaprasong Oiuphisittraiwat: The total phenolic responses of both resistant and susceptible chili pepper to Anthracnose disease (<i>Collectotrichum acutatum</i>)
12	17:30-17:45	Siripat Baikaden: The Determine of Mechanical Damage on Soybean Seed by Clorox Soak Test
13	17.45–18.00	Pattarapon Saelao: In vitro biocontrol potential of natural substance combination to against microbial plant diseases

14	18.00-18.15	Chachpon Tebdoie: Influence of exogenous salicylic acid on phytochemical improvement and antioxidant activity in <i>Cannabis sativa</i> L.
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Session 6 (Room No XX) : Soil and Environment, Water conservation

S. No	Time	Chair : Prof. Dr. Nanik Setyowati, (Indonesia) Co-chairs : Dwi Wahyuni Ganefianti (Indonesia) Dr. Sathishkumar (India)
1	14:30-14:45	IL 11: Dwi Wahyuni Ganefianti (Indonesia): Variability, heritability and genetic advance of chili pepper agronomic characters cultivated in peat land
2	14:45-15:00	IL 12: Nanik Setyowati, (Indonesia): Growth and Yield Response of Green Mustard Under the Combination of Nitrogen Fertilizer and Organic Amendment in Acid Soil
3	15:00-15:15	Patticha Kulsuan: The carbon footprint assessment from Electricity in Ubon Ratchathani Zoo In Ubon Ratchathani province, Thailand
4	15:15-15:30	Pichailuk Thaikeaw: Growth and Yield of Cassava Cultivar KU-80 by using Biofertilizer
5	15:30-15:45	Lotis M. Balala: Assessment of heavy metal concentration in feeds and soil from selected poultry farms in Leyte Province, Philippines
6	15:45-16:00	Bancha Wiangsamut: Influence of Irrigation Water Quantity and Fertilizer Applied Together with Mulch on the Growth and Yield of Oil Palm cv. Deli x Nigeria (<i>Elaeis guineensis</i> Jacq.)
7	16:00-16:15	Anil P.: Seasonal responses of phytoplankton community in the heterogeneous coastal water regimes of southwestern India: microscopy/HPLC-CHEMTAX approaches
	16:15-16:30	COFFEE BREAK
8	16:30-16:45	Thanakit Saifa: Effect of Combination Fertilizer on Growth and Yield of Cassava cv. Rayong9 in Thailand
9	16:45-17:00	Uthaiwan Phewphan: Estimation of aboveground carbon stock in service area of Ubon Ratchathani Zoo, Ubon Ratchathani province, Northeastern Thailand
10	17:00-17:15	Kishore: Production and characterisation of biosurfactant from indian himalayan region
11	17:15-17:30	D. Sridhar: Role of PGPR on the stimulation of growth Sesame (<i>Sesamum indicum</i> L.) in salt stress.
12	17:30-17:45	Karthik Prakash: Exploring fish gut associated bacteria for aquaculture probiotic properties
13	17.45-18.00	Ramu Mithran: Isolation and Characterization of Microplastics from Different Milk Sources.
14	18.00-18.15	Mahavishnou R: Isolation and Characterization of Microplastics from Different Sources of Water

Session 7 (Room No. xx): Biotechnology and Innovation

S. No	Time	Chair : Prof. R. Sarada Jayalakshmi (India) Co-chairs : Assoc. Prof. Dr. Supattra Poeaim (Thailand) Dr. V. Rameshkumar (India)
2	14.30-14.45	IL 13: Dr. Devarajan Thangadurai: Bioprospecting Soil Microbes for Sustainable Agricultural Development
3	14:45-15:00	IL 14: Prof. R. Sarada Jayalakshmi (India): Harnessing the potential of Bioagents for Sustainable Disease Management in 21st Century
4	15:00-15:15	Nawapon Sodakul: A study of polymer for delay germination in hybrid sweet corn seed production
5	15:15-15:30	Pramote Pornsuriya: GGE biplot analysis of genotype by environment interaction and yield stability of yardlong bean lines under nine environments
6	15:30-15:45	Supattra Poeaim: Effects of NaOH/urea solution as a solvent and salt crystals as a porogen on the fabrication of porous composite scaffold of bacterial cellulose-chitosan for tissue engineering
7	15:45-16:00	Siriwan Nonthasila: Study on optimization for in vitro propagation of <i>Dalbergia oliveri</i> by plant tissue culture
	16:00-16:15	Wirunwith Boonmuang: Effect of Stabizers and Surface Materials on Anti-listeria Efficiency of Hydrogen peroxide
8	16:15-16:30	COFFEE BREAK
9	16:30-16:45	Nattika Rungprateepaiboon: Effects of growth regulators on in vitro propagation of <i>Sophora tomentosa</i> (Necklace pod)
10	16:45-17:00	Sasiwimon Panudom: Micropropagation of Ironwood (<i>Xylia xylocarpa</i> (Roxb.) Taub.) by Tissue Culture
11	17:00-17:15	Naruporn Pedklang: The biological activities of the methanolic extract of Santol (<i>Sandoricum koetjape</i>) fruits
12	17:15-17:30	Wiphada Saparam: Plant regeneration of <i>Bauhinia purpurea</i> by tissue culture technique
13	17:30-17:45	Supattra Poeaim: Genetic characterization of cassava (<i>Manihot esculenta</i> Crantz) cultivars using ISSR molecular marker
14	17.45-18.00	Natnicha Chiewchan: Effect of BA on Inducing Shoots of <i>Philodendron erubescens</i> 'Pink Princes' In Vitro
15	18.00-18.15	Putri Mian Hairani: Seed physio-biochemical quality of chili (<i>capsicum frutescens</i>) in different seed maturity

Session 8 (Room No XX) : Organic Agriculture and Smart Farms

S. No	Time	Chair : Prof. Dr. Fahrurrozi Fahrurrozi (Indonesia) Co-chairs : Prof. Dr. TSSK Patro (India) Dr. Premkumar (India)
1	14:30-14:45	IL 15: Fahrurrozi Fahrurrozi (Indonesia): Weed-based Liquid Organic Fertilizer Increased Growth and Yield of Organically Grown Leaf Celery (<i>Apium graveolens</i> var. <i>secalinum</i> Alef.)

2	14:45-15:00	IL 16: Sigit Sudjatmiko (Indonesia): The application of locally sourced liquid organic fertilizer on sweet corn growth and productivity
3	15:00-15:15	IL 17: Pakkapong Pongsuk (Thailand): Growing organic herbs to support local businesses and promote sustainability under the Plant Genetic Conservation project, suratthani, Thailand
4	15:15-15:30	Anuwat Lakyat: Study of Insect Pests and Natural Enemies on Sticky Traps in Organic Lettuce Fields
5	15:30-15:45	Arak Tira-Umphon: Light-emitting diodes and temperature effects on lettuce growth and its yield in plant factory
6	15:45-16:00	Natthamon Pradabkun: Lotus Flower Extract as a Natural Anti-browning Agent for Fresh Romaine Lettuce (<i>Lactuca sativa</i> L. var. longifolia)
7	16:00-16:15	Thanakorn Charoensuk: Young consumers' perceptions and willingness to pay for organic rice: a case study in Kochi, Japan
	16:15-16:30	COFFEE BREAK
8	16:30-16:45	Phissanu Kaewtaphan: Effect of Organic Fertilizer Quantity on Yield and Seed Qualities of Rice
9	16:45-17:00	Chutikarn Saengnang: Factors Affecting Purchase Decisions for Organic Dried Noodles of the Community Enterprise in Chachoengsao Province, Thailand
10	17:00-17:15	Sornphakdee Napassakorn: Factors affecting the adoption of smart root vegetable washing innovation of commercial vegetable growers in the Eastern Suburbs of Bangkok, Thailand
11	17:15-17:30	Nattaya Montri: Non-destructive measurement of Tetrahydrocannabinol (THC) and Cannabidiol (CBD) using near-infrared spectroscopy
12	17:30-17:45	Naruporn Pedklang: Identification of SRAP and AFLP molecular markers associated with fruit traits in Santol (<i>Sandoricum koetjape</i>)
13	17.45-18.00	Kittiya Yeamsuriyotai: Inhibitory effects of gardenia flower essential oil emulsion on browning appearance in jasmine (<i>Jasminum sambac</i> Ait.)
14	18.00-18.15	Anurug Poeaim: Effects of Plant Growth regulators on nodal regeneration of <i>Rhynchostylis</i> orchid by plant tissue culture

Session 9 (Room No. xx): Agricultural Sciences

S. No	Time	Chair : Dr. K. Sakthivel (ICAR), India Co-chairs : Dr. D. Saravanan (India)
1	14:30-14:45	IL 18 Dr Elavazhagan: Employing biological methods to tackle environmental pollution: Do the benefits outweigh the challenges?
2	14:45-15:00	IL 19 Dr Sakthivel: Members of Bacillus as beneficial microbes in plant health management
3	15:00-15:15	JOHN IRUDAYA RAJ J : Assessment of drought in Tamil Nadu based on the Standard Precipitation Evapotranspiration Index

4	15:15-15:30	E. Sakthi Uma Devi: Osmoadaptation and plant growth promotion by osmolyte - producing rhizobacteria under drought in <i>Arachis hypogaea</i> L.
5	15:30-15:45	Julie Rebecca Joseph Mathari: differential gene expression analysis reveals genes commonly expressed between different insect orders
6	15:45-16:00	Rositta Varghese: Seasonal Dynamics of Soil Fertility and Arbuscular Mycorrhizal Associations in Kerala's Black Pepper (<i>Piper nigrum</i> L.) Fields: A Comprehensive Investigation for Sustainable Cultivation Practices
7	16:00-16:15	Sreejamol T N: Critical Assessment of Soil Fertility Status of Traditional Palm Groves of Kerala, South India: A Perspective for Sustainable Development Goals 2030
8	16:15-16:30	Balu M Nair: A study on the biodiversity and effect of environmental parameters on calliphoridae flies of forensic importance
9	16:30-16:45	Monica Suresh: Elemental composition, nutritional, and anti-nutritional content of <i>Saraca asoca</i> , a sacred tree
10	16:45-17:00	Dr.T.Sivakumar : Invitro studies and bioactive compounds analysis of leaf and stem extract of <i>Tridax procumbens</i> l
11	17:00-17:15	Shashank A S: Assessment of Heavy Metals in Tilapia Fish from Ulsoor and Agara Lakes in Bengaluru, Karnataka, India: An ecotoxicological impact of a metropolitan city.
12	17:15-17:30	Grace Regina E: Utilisation of <i>Anacardium occidentale</i> leaf to extract protein as a Cleansing Agent for Water Purification
13	17:30-17:45	Kowsalya: A study on development of composite flour with lotus seed flour incorporated product
14	17.45–18.00	N.Lalitha: Impact of dietary <i>Lactiplantibacillus plantarum</i> feed additive on intestinal histology, digestive enzyme and microbial profile in Pacific white shrimp, <i>Penaeus vannamei</i>

Session 10 (Room No.xx): Biological Sciences (India)

S. No	Time	Chair : Dr. Amitkumar (India) Co-chairs : Dr. Prakash (India)
1	14:30-14:45	IL 20: Mrs. Preetha Manikandhan: Transformation of Waste to Wealth from Cow Dung
2	14:45-15:00	IL 21: Mr. Akash: Production and Characterization of Pullulan from <i>Aureobasidium pullulan</i> isolated from Spinach
3	15:00-15:15	C. Sathya: Heavy metal degradation of <i>Cajanus cajan</i> L. by PlantGrowth-Promoting Rhizobacteria
4	15:15-15:30	Anil P: Seasonal responses of phytoplankton community in the heterogeneous coastal water regimes of southwestern India: microscopy/HPLC-CHEMTAX approaches
5	15:30-15:45	Sayona Anna John: Ecology of Endomycorrhiza in Rice (<i>Oryza sativa</i> L.) of South India

6	15:45-16:00	Granap blessy R: Innovation technology for microbes in agriculture and sustainable development
7	16:00-16:15	Sakthivel: Enhancing the Utilization of Textile Sludge as Sustainable Construction Materials
8	16:15-16:30	Southamirajan: Studies on Reinforcing Scorched Concrete through Self-Repair Mechanisms
9	16:30-16:45	Grace charls: Biodiversity of epiphytes in and around Yercaud hills
10	16:45-17:00	Dr. S. Kavipriya: Strength analysis of geopolymer concrete with optimal fiber fraction
11	17:00-17:15	Sasivarman: Experimental study on replacement of ceramic waste for fine aggregate in concrete
12	17:15-17:30	Thenmozhi S: Screening of Bacterial Pathogens for Biofilm Formation and its inhibition using Actinobacterial Extract
13	17:30-17:45	Vinanthi Rajalakshmi K S: Assessment of Phytochemical-Bioactive Properties of Azolla pinnata and its Efficiency in Cadmium Chelation from Wastewater system.

Poster presentation [Time: 15.00 – 17.00]

S. No	Chairpersons : Dr. T. Rajasekar (India) Dr. Gobisaravanan (India) Dr. A. Suresh (India) Dr. S. Kumaran (India)
1	Havinesh Kumar U: Designing and operation of photo-bioreactor for Microalgae cultivation
2	A. Mary Deva Prasanna: Biological transformation of iron in soil through different column treatments using potential iron solubilizer
3	Diya Chatterjee: Smart pesticide sprinkler designing an iot-enabled arduino-based prototype
4	Hemasri D: Exploring actinobacteria from less explored manipur forest soil samples against non-tuberculosis mycobacterium species
5	Rejith R.S: A systemic study on antifungal properties of actinobacteria obtained from coal mines
6	Siva Sankar: Treatment of sago mill effluent through a bioreactor approach using aerobic bacterial consortium
7	Sriman K R: Azo dye degradation by Actinobacteria
8	Suvidha Laharika.P: Screening of polyhydroxyalkonate (pha) producing bacteria from insect nests
9	Yuvaraja T: Designing a fully automated bioreactor
10	Beula Christina.W: Development of groundnut de-oiled cake incorporated in recipes for - an alternative potential resource for food formula
11	Monisha Vijayan, Boomika Venkatesan: Bioprospecting of fish gut microbes
12	Ebshiba. N: Studies on enzymatic properties of southern ocean bacteria

13	Nidhin I K: Unravelling the soil metabolites and pollutants in degraded agricultural lands using GC-MS analysis
14	Janani T: An investigation into cell suspension parameters of moringa
15	Keerthana Rajeshkanna: Potential secondary metabolite from himalayan soil actinobacteria against <i>mycobacterium tuberculosis</i> [H37Ra and Rv strain]
16	Sobana Lakshmi KV, Roja G: Evaluation of bacterial resources for biosurfactant production
17	V. Suruthi: Production and characterization of a bioflocculant produced by <i>bacillus cereus</i> and its applications in removal of chromium (Cr ⁶⁺)