



The 10th International Conference on Integration of Science and Technology for Sustainable Development 2022 (10th ICIST 2022)

“Soil, water and environmental conservation, biological diversity, food security/safety and sustainable agriculture”

November 24 - 26, 2022

Faculty of Agricultural Technology , King Mongkut’s Institute of Technology Ladkrabang (KMITL), Ladkrabang, Bangkok, Thailand

Please visit: www.aatsea.org email: aatsea.icist@gmail.com

PROGRAM

Session 1 Onsite/online: Agricultural Extension, Education and Development

Session 2A Onsite/online: Animal, Fisheries Sciences and Entomology

Session 2B Online: Animal, Fisheries Sciences and Entomology

Session 3A Onsite/online: Biological Diversity and Microbiology

Session 3 B Online: Biological Diversity and Microbiology

Session 4 Onsite/online: Biotechnology

Session 5A Onsite/online: Food Security/Safety, Food Science and Postharvest Technology

Session 5B Online: Food Security/Safety, Food Science and Postharvest Technology

Session 6A Onsite/online: Plant Sciences and Pest management

Session 6B Online: Plant Sciences and Pest management

Session 7 Onsite/online: Soil and Environment, Water conservation, Digitalization in Food and Agriculture

Session 8 Onsite/online: Organic Agriculture

Session 9 Onsite/online: Biology in Agriculture

Overall program

- 24 November 2022:** 13:00-16:00 Desk Registration
- 25 November 2022:** 7:00 Conference day
16:40-17:40 **Training for Organic Inspection of AATSEA** by Prof. Dr. Kasem Soyong and AATSEA Organic Inspector Staff at The Central Library
17:40 Editorial board meeting 2022 at Central Library, KMITL
18:30 Closing ceremony
19:00 Welcome dinner (go to Anusorn Restaurant by Shuttle bus)
- 26 November 2022:** 7:00-16:00 Field Workshop in Organic Agriculture
Excursion program: visit Organic Farm, Practical learning in Organic Crop Production in Ratchaburi province
16:00-17:00 Visit AATSEA Research Laboratory
18:00 Goodbye dinner

DAY 1: November, 24, 2022 Room 1

Time

13:00 -16:00 Desk registration

DAY 2: November 25, 2022: Conference day

Time (Room 1)

MC staff
Asst. Prof. Dr. Jakrapan Wongpa (Thailand)
Dr. Wanlada Klangnurak (Thailand)

7:00-8:00 Registration

8:00 - 8:10 Welcome Addresses
Excellency Prof. Dr. Hussein Darwish Mustafa, President of National Research Center (NRC, Egypt)
Prof. Dr. Teodoro C. Mendoza (Philippines)

8:10 - 8:15 Message for Opening Ceremony:
Prof. Dr. Hiroyuki Konuma, President of GIAPSA (Japan)

8:15-8:20 Opening remark:
Assoc. Prof. Dr. Komsan Maleesee
(KMITL Rector)

8:20-8:25 Review the former ICIST with imagine song
Prof. Dr. Kasem Soyong, President of AATSEA

8:25 – 8:35 Awarding Ceremonies
Prof. Dr. Kasem Soyong, President of AATSEA
AATSEA Outstanding Leader Award 2022 in Education and Research

1. Dr. Hoang ND, Pham (Vietnam)
 2. Dr. V.GOPIKRISHNAN (India)
 3. Prof. Dr. Devarajan Thangadurai (India)
 4. Assoc. Prof. F. Fahrurrozi (Indonesia)
- AATSEA Award for Community Development
1. Mr. Narongsak Chuensuchon (Thailand)
 2. Dr. Sophea Kean (Cambodia)
- AATSEA Award for emerging leader of young generation**
1. Dr. DONNA RIA JOSUE-CANACAN (Philippines)
 2. Dr. S. NITHYAPRIYA (India)
 3. Dr. JAMES KENNARD SANZ JACOB (Philippines)

8:35-9:00

GROUP PHOTO and COFFEE BREAK

Plenary Session—Room 1

Chair: Prof. Dr. Teodoro C. Mendoza (Philippines)

Co-chair: Prof. Dr. Pakkapong Pongsuk (Thailand)

Time	
9:00-9:20	Prof. Teodoro C. Mendoza (Philippines)
Onsite	Transforming meat based diet to plant based diet is addressing food security and climate crisis in this Millennium
9:20-9:40	Prof. Dr. Bhat, Rajeev (EU, Estonia)
Online	Future food sector: prospects & challenges.
9:40-10:00	Dr. Sigit Sudjatmiko (Indonesia)
Onsite	Climate Change and its effect on cropping schedules and food crop productivity in Indonesia
10:00-10:20	Prof. Tapio Juokslaht (Finland)
Onsite	Potato (<i>Solanum tuberosum</i>) in the South-East Asian food system: Role in zero hunger target of the united nations sustainable development goals
10:20-10:40	Prof. Dr. Moammar Dayoub (Syria-Finland)
Onsite	Agritourism: Challenges and opportunities for rural development
10:40-11:00	Dr. Kampon Sriwatanakul (Thailand)
Onsite	Genomics for organic farming
11:00-11:20	Prof. Dr. Devarajan Thangadurai (India)
Onsite	Bioprospecting microbes from extreme environments using metagenomics approaches towards environmental sustainability
11:20-11:40	Dr. M.V. Reddy (Canada)
Online	Advances on energy, environment, and challenges in Technology
11:40-12:00	Prof. Dr. Kasem Soyong (Thailand)
Onsite	Non-agrochemical production (NAP) transition period to organic agriculture
12:00 – 13:00	LUNCH BREAK

RESEARCH FORUM

13:00-18:30 ORAL PRESENTATION - Parallel Sessions (onsite/online sessions)

SESSION 1 (Room 1) Onsite/online: Agricultural Extension, Education and Development

No.	Time	Chair: Prof. Dr. Pakkapong Pongsuk (Thailand) Co-chairs: Assoc. Prof. Dr. Adisak Singsewo (Thailand), Asst. Prof. Dr. Phattraporn Soyong (Thailand), Joselito Dar (Philippines)
1	13:00-13:20	IS: Pakkapong Pongsuk , Manitchara Thongnoi and Piyanard Junlex
	Onsite	Adaptation and new approaches to organic farming production of Naso organic rice producer group in Yasothorn province after the outbreak of Covid-19 pandemic
2	13:20-13:35	Waritsara Orsuwan , Suneeporn Suwanmaneepong and Somsak Kuhaswonvetch
	Onsite	Farmer's knowledge and perceived impacts of ethylene gas innovation toward increasing yield performance of Para Rubber in Ban Khai District, Rayong Province
3	13:35-13:50	Sirilak Simakorn , Suneeporn Suwanmaneepong and Rungtawan Yomla
	Onsite	Perceptions on the benefits and limitations of innovative agricultural food production with aquaponics for the communities with limited spaces in urban Bangkok, Thailand
4	13:50-14:05	Bunyisa Ngamchaleaw , Suneeporn Suwanmaneepong and Jeeranan Khermkhan
	Onsite	Tourists' behavior and importance of marketing factors for the decision to use the community-based agritourism services under the new normal era in Rayong Province, Thailand
5	14:05-14:20	Sorrapong Charoenkittayawut , Suneeporn Suwanmaneepong and Panya Mankeb
	Onsite	Determinants of income diversification among farm households in Thailand
6	14:20-14:35	Christopher Llonas and Suneeporn Suwanmaneepong
	Onsite	Social capital and production risk: examining the association using the case of irrigated rice farms in Northern Thailand
7	14:35-14:50	Teguh Adiprasetyo , Irnad Irnad and Nusril Nusril
	Onsite	Strategy to foster smallholder farmers in Indonesia to adopt the sustainable palm oil production system for supporting sustainable development
8	14:50-15:05	Phaitoon Thongsuk , Pakkapong Pongsuk and Piyanard Junlex
	Onsite	Developing agricultural knowledge and skills by using a learning kit on commercial native chicken rearing of agricultural teacher apprentice students, Surindra Rajabhat University
9	15:05-15:20	Prongsatorn Sinturat , Sarawut Intorrathed and Pakkapong Pongsuk
	Onsite	Using LED in various colors on the growth and yield of cos salad
10	15:20-15:35	Akbar Abdurrahman Mahfudz
	Online	Assesing the progress towards achieving sustainable development goals at a city level: Madiun City, Indonesia
	15:35-15:50	COFFEE BREAK

- 11 15:50-16:05 **Parinyaporn Topphak**, Jeeranun Khernkhan and Suneeporn Suwanmaneepong
Online Comparison of cost and return between paddy production and rice seeds of community enterprise members in Chachoengsao Province of Thailand
- 12 16:05-16:20 Jeeranun Khernkhan, Rangsim Pimthong, Thanat Samanakup and **Visawat Panyawongsataporn**
Online Economic and social effects to the safe agriculture selling products of Institute: case study of farm Chaokhun by KMITL
- 13 16:20-16:35 Surawat Chalorsuntisakul, Charunee Kasornpikul, Manatsanun Nopparatmaitree, Kataya Mahachanawong Suvarnaphaet, Nitinunt Nakburi, Mintra Lukkana Lukkana and **Phisit Suvarnaphaet**
Online Leadership of poultry farmer-leaders and implications for organic livestock extension services in Phetchaburi province
- 14 16:35-16:50 **Wattana Saduak**, Amporn Saduak, Nawarat Pourpan and Pakkapong Pongsuk
Online Developing knowledge and skills in an agricultural career after the outbreak of Covid-19 pandemic for young farmers by making mixed soil ready for commercial planting
- 15 16:50-17:05 Pornkamon Rahannok, Yingsak Kochakote, **Boonvanich Boonvarichananan**, Suwaree Sripuna, Prapaporn Chulilung and Panya Mankeb
Online Community capital for economic development according to the BCG Model
- 16 17:05-17:20 **Heejung Kim**, Adisak Singsewo and Pakkapong Pongsuk
Online Learning wild plant toward carbon neutral agriculture in international training program
- 17 17:20-17:35 **Bhutharit Raksasiri**, Thirawat Chantuk, Thongchai Thongmar, Kanokaon Netchu and Prasopchai Pasunon
Online Development of organic fertilizers formula for growing vegetables in pots and studying the level of satisfaction of people in the community towards the transfer of knowledge on the production of organic fertilizers for their own use for sustainability in the community.
- 18 17:35-17:50 **Sirapol Kekeengam** and Kittiwat Sirikasemsuk
Online Manufacturing management of organic fertilizers for organic rice production
- 19 17:50-18:05 **Jomah B. Dolo**, Alisa Kongjaimun, Onuma Thonglor, Mana Kanjanamaneesathian and Rachsawan Mongkol
Online Factors affecting the implementation of GAP on Cocoa production in Nimba County, Liberia
- 20 18:05-18:20 **Samuel T. King**, On-Uma Thonglor, Mana Kanjanamaneesathian, Rachsawan Mongkol and Alisa Kongjaimun
Online Factors Affecting the Implementation of GAP on Cassava Production in Grand Cape Mount County, Liberia
- 18:30 **Closing Ceremony: ROOM 1**

Session 2A (Room 2) Onsite/online: Animal, Fisheries Sciences and Entomology

No.	Time	Chair: Prof. Fahrurrozi Fahrurrozi (Indonesia) Co-chairs: Prof. Dwi Wahyuni Ganefianti (Indonesia), Assoc. Prof. Dr. Virapol Jamsawat, (Thailand)
1	13:00-13:20	IS: Dwatmadji Dwatmadji , Tatik Suteky and Febriana Widodo
	Online	Stocking rate effect on physiology, performance, and behavior of mixed-grazing goat and sheep under naturally infected pasture
2	13:20-13:35	Kamon Chaweewan , Wiwat Kanyarang, Netanong Phonkate, Ronachai Sitthigripong, Panneepa Sivapirunthep, Chanporn Chaosap and Rutcharin Limsupavanich
	Onsite	Effect of dietary protein levels on productive performance and carcass traits of Thai native pigs from different geometric regions
3	13:35-13:50	Pranee Pirompud , Chanporn Chaosap and Panneepa Sivapirunthep
	Onsite	Factors influencing dead on arrival and condemnation of broilers during catching, transport, lairage, and slaughter
4	13:50-14:05	Surewan Srijad , Kancharika Pilapang and Rungtawan Yomla
	Onsite	Effects of commercial feed, Mulberry leaves, and mixed feed on growth in Apple Snails (<i>Pomacea</i> sp.)
5	14:05-14:20	Metthapaul Potinil , Kancharika Pilapang and Rungtawan Yomla
	Onsite	The possibility of 17 α -Methyltestosterone (17MT) by mixing feed to induce male production of golden apple snail (<i>Pomacea canaliculata</i>)
6	14:20-14:35	Kancharika Pilapang , Surewan Srijad and Rungtawan Yomla
	Onsite	The effect of <i>Moina</i> sp. immersion with 17alpha-methyl testosterone (17MT) on sex reversal of Nile tilapia
7	14:35- 14:50	Kittichon U-Taynapun, Butsarakorn Ratchapol and Nion Chirapongsatunkul
	Onsite	Antibacterial, quorum quenching and anti-biofilm formation activities of vinasse extracts against <i>Vibrio parahaemolyticus</i>
8	14:50-15:05	Noratat Prachom, Praveena Taveekijakarn, Srinun Nattida, Wanlada Klangnurak and Sutthirat Panchakhan
	Onsite	Effects of dietary superworm (<i>Zophobas morio</i>) oil on growth and reproductive performance of female zebrafish (<i>Danio rerio</i>)
9	15:05-15:20	Teerajet Laohasatian , Teerayut Chawut, Narin Preyavichyapugdee and Pawat Serittrakul
	Onsite	Development of Loop-mediated isothermal amplification (LAMP) for rapid detection of Lumpy Skin Disease Virus (LSDV) from cattle
10	15:20-15:35	Wanninee Chankaew , Monsung Yangthong, Manee Srichanan, Suriya Chankaew and Chansawang Ngamphongsai
	Onsite	Effect of Kam Kung Alga (<i>Chara corallina</i> Willdenow) on the Growth Performance and Oxidative Defense of Nile Tilapia (<i>Oreochromis niloticus</i>)
	15:35-15:50	COFFEE BREAK

- 11 15:50-16:05 **Agdippa, Michael Deither T**
Onsite Prevalence of heartworm (*Dirofilaria immitis*) of dogs in guimba, nueva ecija using direct blood smear and modified knott's test
- 12 16:05-16:20 Nion Chirapongsatunkul, **Agnesia Damayanti** and Kittichon U-Taynapun
Onsite Comparative transcriptome analysis of Nile tilapia (*Oreochromis niloticus*) under different health conditions associated with tilapia lake virus disease (TiLVD)
- 13 16:20-16:35 **Christian Santos**, Jezie Acorda and Marvin Villanueva
Onsite Relationship of b-mode ultrasonography features of the mammary gland and teat with CMT finding and somatic cell count in dairy buffaloes *Bubalus bubalis* (Linnaeus, 1758) with subclinical mastitis
- 14 16:35-16:50 **Cheepchanok Puwanard**, Tanapoom Mounghipmalai and Mayura Soonwera
Online Toxicity of *Litsea petiolata* Hook.f.essential oil against *Aedes aegypti* (Linn.), *Aedes albopictus* (Skuse), *Anopheles minimus* (Theobald) and *Culex quinquefasciatus* (Say)
- 15 16:50-17:05 Mayura Soonwera and **Sirawut Sittichok**
Online Insecticidal activity of *Citrus aurantium* and *Eucalyptus globulus* essential oils and their major constituents against nymphs and adults of *Pediculus humanus capitis* De Geer
- 16 17:05-17:20 **Sayan Subepang**, Wimonsiri Sehawong, Anuphan Suwanphan and Sukanya Kamphayae
Online Effect of cassava leaf pellet supplementation on growth performance, nutrient digestibility and economic return in Chalorais crossbred cattle fed rice straw as basal diet
- 17 17:20-17:35 **Tanapoom Mounghipmalai** and Mayura Soonwera
Online Adulticidal activity against houseflies (*Musca domestica* L.; Muscidae: Diptera) of combinations of *Cymbopogon citratus* and *Eucalyptus globulus* essential oils and their major constituents
- 18 17:35-17:50 **Ruamruedee Panchan**, Pattira Kasamesiri, Nantaporn Sutthi, Wilailak Ounjit and Sujitar Jorjong
Online Species composition and diel variation of fish caught by traditional longline fishing
- 19 17:50-18:05 **Sirawut Sittichok** and Mayura Soonwera
Online Adulticidal effect of combinations between *Cymbopogon citratus* and *Eucalyptus globulus* essential oils against *Pediculus humanus capitis* De Geer
- 20 18:05-18:20 **Karen Ardez**, Mario Navasero, Jillian Timple and John Emmanuel Tandang
online Susceptibility estimates for fall armyworm, *Spodoptera frugiperda* (J. E. Smith) (Lepidoptera: Noctuidae) to commercially available insecticides in the Philippines
- 18:30 **Closing Ceremony: ROOM 1**

Session 2B (Room 10) Online: Animal, Fisheries Sciences and Entomology

No.	Time	Chair: Dr. Elderico Tabal (Philippines) Co-chairs: Dr. Karunarathra, Samantha. C. (Sri Lanka); Assoc.Prof. Dr. Sineenart Polyorach (Thailand); Assoc. Prof. Dr. Rungtawan Yomla (Thailand); Asst. Prof. Dr. Loetchai Chit-aree (RBRU,Thailand)
1	13:00-13:15 Online	Sirima Takeungwongtrakul , Pannepa Sivapirunthep, Trus Kaesang, Tananan Suphakitchanon and Kunya Tuntivisoottikul Association between dairy meat quality with gender, slaughter age, and marbling score, and relationships among the meat quality traits
2	13:15-13:30 Online	Lerma Ocampo and Joseph Oliver Lofranco Cryogenic tolerance to freezing temperature and sperm motility characteristics of frozen-thawed spermatozoa of Philippine native pig (<i>Sus scrofa</i>).
3	13:30-13:45 Online	Jaturaporn Poggun , Wassana Somprasong and Sukanya Leethongdee Conception rate in goat using frozen semen compare between Tris-egg yolk and Andromed®
4	13:45-14:00 Online	Tanikan Buathong , Chansawang Ngamphongsai, Laddawan Krongpong, Tivawan Meechin, Pichet Plaipetch and Jeeraporn Foowut Protein digestibility of feed ingredients in Banana shrimp <i>Fenneropenaeus merguensis</i> (De Man, 1888)
5	14:00-14:15 online	Manee Srichanun , Sunee Wanlem and Md Arefin Rahman The effect of fermented copra meal for substitution of fishmeal protein on growth, feed utilization, and carcass quality of Nile tilapia (<i>Oreochromis niloticus</i>)
6	14:15-14:30 Online	Tatik Suteky , Dwatmadji Dwatmadji and Edi Sutrisno Impact of parasitism and herb supplementation on water intake of goats
7	14:30-14:45 Online	Wiwat Waramit and Thipwadee Prapaiwong Effects of fresh ivy gourd leaves (<i>Coccinia grandis</i> (L.) Volgt) added to concentrate diets on production and egg quality of kabinburi duck eggs of 21 – 32 weeks old
8	14:45-15:00 Online	Clint D. Hassan , Noel Degamo and Nathaniel Fabila The use of drone technology in rice fields of Central Mindanao, Philippines
9	15:00-15:15 Online	Ampon Klompanya, Ronachai Sitthigripong, Jamlong Mitrchaothai, Kanokrat Srikijkasemwat and Chanathip Thammakarn The Utilization of Water Hyacinth (<i>Eichhornia crassipes</i>) and Narrowleaf Cattail (<i>Typha angustifolia</i>) as an Alternative Litter Material on Growth Performance of Broilers
	18:30	Closing Ceremony: ROOM 1

Session 3A (Room 3) Onsite/online: Biological Diversity and Microbiology

No.	Time	Chair: Dr. Hoang ND Pham (Vietnam) Co-chairs: Dr. Gopi Krishnan (India), Asst. Prof. Dr. Pornpan Sukhumpinij (RBRU, Thailand), Asst. Prof. Dr. Thanidachaya Puthmm(Thailand), Assoc. Prof. Dr. Supattra Poeaim (Thailand)
1	13:00-13:20 Onsite	IS: Chozin, M., Sumardi, S., Sudjtmiko, S., Candra. D, and Sasmita, R. Salinity stress tolerance of advanced swamp rice breeding lines
2	13:20-13:40 Onsite	IS: James Kernard Jacob Integration of Mycology in Education in the Philippines: Status and Future Prospects
3	13:40-14:00 Onsite	IS: Hutabarat, F., Sudjtmiko, S. and Pujiwati, H. Combination Effect of NPK and Plant Growth Promoting Rhizobacteria on Edamame Soybean Growth and Yield
4	14:00-14:15 Onsite	Loc Pham Van, Hoang Pham Nguyen Duc, Dung Nguyen Hoang and Quyen Ho Bao Thuy Monokaryotic characteristics and mating types of phoenix mushroom (<i>Pleurotus pulmonarius</i>) cultivars in the south Vietnam
5	14:15-14:30 Onsite	Pheaktra Phal, Kasem Soyong and Supattra Poeaim Nanofibers constructed from <i>Trichoderma hamatum</i> K01 to control durian rot var. Montong caused by <i>Phytophthora palmivora</i>
6	14:30-14:45 Onsite	Bunny Some and Kasem Soyong Biological control of papaya anthracnose causing by <i>Colletotrichum gloeosporioides</i> using <i>Trichoderma harzianum</i> PC01
7	14:45-15:00 Onsite	Patcharanun Laowklang, Supattra Poeaim and Narumon Tangthirasunun Comparative evaluation of leaf and seed methanolic extracts obtained from <i>Sophora tomentosa</i> Linn. for phytochemical, phenolic content, antioxidant and antibacterial activities
8	15:00-15:15 Onsite	Suriya Chankaew Effect of Physico-chemical conditions on the phytoplankton community in the Sago Palm Wetlands, Nakhon Si Thammarat Province, the Peninsular East Coast of Thailand
9	15:15-15:30 Onsite	Quyen Dang Hoang, Phung Pham Hoang Phi, Mai Duong Thi Thanh, Thu Nguyen Thi Minh, Hoi Pham Khanh, Hoang Pham Nguyen Duc and Chuong Nguyen Hoang Evaluating the mycelial growth of bolete from pine forest in highland Vietnam
	15:30-15:45	COFFEE BREAK

- 10 **15:45-16:00** **Wanchai Phromkerd**
 Onsite Diversity and utilization of Indigenous Up Land Rice varieties in southern Thailand
- 11 **16:00-16:15** Hang Le, **Thuy Luu**, Hoang Nguyen, Phu Dang and Hiep Dinh
 Onsite Study on *In Vitro* Skin Protection Effects of Sulfated Exopolysaccharide Fragment Isolated from Culture Medium of *Ophiocordyceps sinensis*
- 12 **16:15-16:30** Loc Pham Van, Hoang Pham Nguyen Duc, Nhi Nguyen Hoai Linh, Duyen Nguyen Thi My, Thu Nguyen Thi Minh, Thu Nguyen Minh, Dung Nguyen Hoang and **Quyên Ho Bao Thuy**
 Online The relationship between mycelial growth and fruit body's yield of oyster mushrooms (*Pleurotus* spp.) collected from southern Vietnam
- 13 **16:30-16:45** **Tanassorn Tawinchure**, Hathairat Urairong and Kittaporn Rumjuankiat
 Online Evaluation of SNPs in the THCA and CBDA synthase gene to use in varietal improvement of *Cannabis sativa* L.
- 14 **16:45-17:00** **Borworn Tontiworachai**, Rujira Deewatthanawong and Nattaya Montri
 Online Production of F1 *Papilionanthe hookeriana* (Rchb.f.) Schltr. homozygous and heterozygous: Amplified fragment length polymorphism (AFLP) analysis of flower colors and self and cross-pollination ability between different flower colors
- 15 **17:00-17:15** **Saowapar Khianggam**, Kaewta Limhang, Sathit Boonnom, Krueasuwan Kornkamol and Somboon Tanasupawat
 Online Quality of waste water management of Nile Tilapia (*Oreochromis niloticus*) culture in pond using photosynthetic bacteria
- 16 **17:15-17:30** Manigundan Kaari, **Jerrine Joseph**, Radhakrishnan Manikkam, Gopikrishnan Venugopal and Kasem Soyong
 Online Spectral and Molecular profiling of *Streptomyces* UP1A-1 for PGP and biocontrol properties
- 17 **17:30-17:45** **Kitiya Rassamee**, Hathairat Urairong, Suratsawadee Piyaviriyakul and Jantana Yahaufai
 online Neuroprotective Potential of Polysaccharides from *Schizophyllum commune* Mycelium Extract
- 18 **17:45-18:00** **Aunyarat Techanan**, Kittaporn Rumjuankiat and Hathairat Urairong
 Online Genetic diversity of arabica coffee varieties from the royal project foundation using Genotyping-by-Sequencing (GBS)
- 18:30** **Closing Ceremony: ROOM 1**

Session 3 B (Room 10) Online: Biological Diversity and Microbiology

No.	Time	Chair: Dr. Laxmi Rawat (India) Co-chairs: Assoc.Prof. Dr. Pussadee Tangwatcharin (Thailand); Assoc. Prof. Dr. Montinee Teerarak (Thailand)
1	13:00-13:15	Varanya Chamsart , Suneeporn Suwanmaneepong and Panya Mankeb Online Factors affecting farmers' adoption of <i>Trichoderma</i> spp. application to control plant diseases in Chachoengsao Province, Thailand
2	13:15-13:30	Sakulrat Hansuek , Tassanee Khawniam and Napassawan Liamnimitr Online <i>In vitro</i> Propagation of <i>Musa acuminata</i> (AAA group) 'Kluai Nak'
3	13:30-13:45	Suriya Kosinwattana and Chamaiporn Anuwong Online Influence of tuber cutting size and plant growth regulators on growth and development of Caladium 'Candidum'
4	13:45-14:00	Janejira Phakawan, Benchamaporn Raungpun and Racha Tepsorn Online Impact of Chlorinated stress on thermal characteristics of <i>Listeria monocytogenes</i>
5	14:00-14:15	Nutcha Manichart , Naphat Somala and Chamroon Laosinwattana Online Allelopathic potential of secondary metabolites produced by some fungi and physiological mechanisms on <i>Amaranthus tricolor</i>
6	14:15-14:30	Krittiya Khuenpet, Wannapa Srapinkornburee, Metawee Anawachkul and Unnop Tassanaudom Online Effect of Sterilization Conditions on the Properties and Microstructure of Cricket Protein Jelly Using Water Spray Retort
7	14:30-14:45	Le, T. H. Y. , Le, M. H., Dong, T. H. A., Tran, H. H., Nguyen T. Q., Do, T. X., Vu, X. T., Luu M.D, Katalin P. and Sándor S. Online Arbuscular mycorrhizal fungi (AMF) product for enhancing plant growth promotion and plant protection in corn, pepper and coffee tree
	18:30	Closing Ceremony: ROOM 1

Session 4 (Room 4) Onsite/online: Biotechnology

No.	Time	Chair: Prof. Dr. Teodoro C. Mendoza (Philippines) Co-chairs: Prof. Dwatmadji (Indonesia), Asst. Prof. Dr. Kannikar Charoensuk (RMUTTO, Thailand), Assoc. Prof. Dr. Komkhae Pilasombut (KMITL, Thailand)
1	13:00-13:20	IS: Patro, T.S.S.K., Sabina Mary D., Sandhya Rani Y., Anuradha N. and Triveni U. Onsite Exploiting the potential of Miracle grains on eve of international year of Millets by ecofriendly management of banded leaf and sheath blight
2	13:20-13:40	IS: Laxmi Rawat and T.S. Bisht Onsite Management strategies against ginger rhizome rot incited by <i>Fusarium solani</i> by the application of chemicals, bioagents and Herbal <i>Kunapajala</i> in mid hills of Uttarakhand
3	13:40-13:55	Supattra Poeaim, Narumon Tangthirasunun, Piyarat Parinyapong Chareonsap and Anurug Poeaim Onsite Assessing genetic diversity of Yellow Star tree using SRAP markers and efficacy of their endophytic fungi in biological control
4	13:55-14:10	Viktorija Kunina, Kasem Soyong, and Oksana Belous Onsite Biochemical composition of dwarf mandarin cv. 'Miagava-Vase' in the humid subtropics of Russia.
5	14:10-14:25	Laxmi Rawat and T.S. Bisht Onsite Eco-friendly management of sheath blight disease in barnyard millet (<i>Echinochloa crusgalli</i> L.) incited by <i>Rhizoctonia solani</i> Kuhn.
6	14:25-14:40	Benitez, F.A., Lagora, A.T., and Tabal, E.P. Onsite In vitro propagation of cocoyam (<i>Xanthosoma sagittifolium</i> L. Schoot) using different explant and plant hormones
7	14:40-14:55	Marufa Sultana, M M Masud, M A Abedin, M E Haque and M A Sarker Onsite Impact of organic amendments on the yield and quality of sweet pepper in Bangladesh
8	14:55-15:10	Worawan Thongsuk, Pakkapong Pongsuk and Piyanard Junlek Onsite The obstacles managing to organic production planning for guiding the creation of Organic Thailand Certification Products
9	15:10-15:25	Prasanth, P., Patro, T. S. S. K., Patibanda, A. K., Palanna, K. B. and Swathi, B. Online Morpho-cultural, molecular characterization and eco-friendly management of Banded leaf and sheath blight pathogen in Proso millet.
10	15:25-15:40	Sandhya Rani Yesarapu, Patro, T.S.S.K., Triveni Ungata and Anuradha Narasapalli Online Effect of Organic manures in Long Term Nutrient Management system on Yield, Quality and Soil Health in Finger Millet
	15:40-15:55	COFFEE BREAK

- 11 **15:55-16:10** **Triveni Ungata**, Nagarjuna Dorasila, Sandhya Rani Yesarapu, Anuradha Narasapalli and Patro T.S.S.K
Online Impact of crop establishment methods on energy auditing and carbon footprint of finger millet
- 12 **16:10-16:25** Jedrick Jose, **Maria Fatima Mercado** and Lucille Elna de Guzman
Online Germinability and vigor of partially-aged (*Zea mays* L.) seeds presoaked in Sampaguita (*Jasminum sambac* [L.] Aiton) flower extract and essential oil
- 13 **16:25-16:40** **Kanokpatch Kopraserit**, Chantana Watanakanjana, Umawadee Detthamrong and Jeeranun Khermkhan
Online Application of activity-based costing to the logistics cost system of organic vegetables in Nakhon Pathom, Thailand
- 14 **16:40-16:55** **Abella, L.B.**, Sulabo, R.C., Agbisit, E.M. and Angeles, A.A.
Online Energy digestibility and concentration of nitrogen-corrected apparent metabolizable energy
- 15 **16:55-17:10** **Venice Jiezzelle Nesperos**, Roberto Visco, Pastor Malabrigo Jr., Roselyn Paelmo and John Vincent Pleto
Online Blue carbon stock of aquasilviculture-based agroforestry system in Infanta, Quezon, Philippines
- 16 **17:10-17:25** **Narongthas Klinkesorn**, Suneeporn Suwanmaneepong and Panya Mankeb
Online Production efficiency of oil palm farmers under the large scale agricultural extension system project in Thapput District, Phangnga Province, Thailand
- 17 **17:25-17:40** **Karnchanok Jinsakulnee**, Suneeporn Suwanmaneepong and Panya Mankeb
Online Cost and return of acacia production under the large scale agricultural extension system project in Pho Thong District, Ang Thong Province, Thailand
- 18 **17:40-17:55** **Tabao, Nik Shawn C.**, Mendoza, Bernadette C., Pedro, Mannix S. and Monsalud, Rosario G.
Online Mycobiome in soils from irrigated, lowland rice-based farming systems in Apalit, Pampanga and Banaue, Ifugao, Philippines: Diversity and potential agro-biotechnological applications as determined by targeted metagenomics
- 19 **17:55-18:10** **Laurujisawat, P.**
Online Using supply chain analysis to promote vegetable consumption, health and the economy in Thailand
- 18:30** **Closing Ceremony: ROOM 1**

Session 5A (Room 5) Onsite/online: Food Security/Safety, Food Science and Postharvest Technology

No.	Time	Chair: Prof. Mohamad Chozin (Indonesia) Co-chairs: Prof. Tatik Suteky (Indonesia), Prof. Sigit Sudjtmiko, Asst. Prof. Dr. Nonglak Parinthawong (Thailand), Asst. Prof. Dr. Duanrung Benjamas (RBRU, Thailand), Asst. Prof. Dr. Yardrung Suwannarat (RBRU, Thailand)
1	13:00-13:20	IS: Hegde, S., Sharathchandra, K., Abhishekha, G. and Sridhar, K.R.
	Online	Comparison of bioactive compounds and antioxidant potential of three floral honey of the Western Ghats and west coast of India
2	13:20-13:40	Naruemon Mongkontanawat , Saranrat Phuangborisut, Tanawat Chanawanno and Thongjuan Khunphutthiraphi
	Onsite	Product development of functional beverage from mangosteen juice supplemented with high anti-inflammatory activity herbal plants from Thailand
3	13:40-13:55	Thanthanasorn Thuion , Supattra Poeaim and Anurug Poeaim
	Onsite	Phytochemical screening, antioxidant activity and total phenolic content of methanolic extract of Phak Wan Ton (<i>Crotalaria medicaginea</i> Lam.)
4	13:55-14:10	Panida Oonnom , Nattawut Rungjindamai and Duangjai Ochaikul
	Onsite	Bacterial cellulose production and application on a fat replacer on fat-reduced Chinese sausage
5	14:10-14:25	Unnop Tassanaudom, Nirunya Buntin and Isara Wattananapakasem
	Online	Effect of lactic acid bacteria powder on quality of fermented fish (Pla-Som) product
6	14:25-14:40	Lotis M. Balala , Bernadette C. Mendoza, Loinda R. Baldrias, Marilen P. Balolong and Joseph S. Masangkay
	Online	<i>Salmonella</i> in free-range chickens: Pathology of asymptomatic persistent infection
7	14:40-14:55	Rawiporn Polpued and Krittiya Khuenpet
	Online	Improvement the texture properties and frozen storage stability of plant-based squid from konjac glucomannan and inulin gel
8	14:55-15:10	Yuwana Yuwana and Bosman Sidebang
	Online	Performance testing of the tandem hybrid solar-biomass dryer for coffee cherry drying
9	15:10-15:25	Dia Novita Sari , Eny Rolenti Togatorop and Andreani Kinata
	Online	Sensitivity of genotypes of eggplant (<i>Solanum melongena</i> L.) by sodium chloride
10	15:25-15:40	Eny Rolenti Togatorop , Dia Novita Sari and Susi Handayani
	Online	Effect of different salinity stress on seedling growth in long beans (<i>Vigna sinensis</i>) genotypes
	15:40-15:55	COFFEE BREAK

- 11 15:55-16:10 **Samart Sai-Ut**, Theeraphol Senphan, Jaksuma Pongsetkul, Pensiri Kaewthong, Tuntivisoottikul Kunya, Sirima Takeungwongtrakul and Sitthipong Nalinanona
Online Oxidative stability of *Iresine herbstii* extract-containing coconut oil during storage
- 12 16:10-16:25 **Arina Fatharani**, Yuwana Yuwana, Dede Yusuf and Lukman Hidayat
Online Drying characteristics of robusta coffee beans using YSD-UNIB18 hybrid dryer based on thin-layer drying kinetics fitting model
- 13 16:25-16:40 **Bhutharit Raksasiri**, Korawit Prasansin, Manatsanun Nopparatmaitee, Saowapar Khianggam, Rachanon Taweephol, Wuttikorn Injana and Somboon Tanasupawat
Online Development of food products from spent laying hens meat for adding economic value for small farmers
- 14 16:40-16:55 **Tanom Tathong**, Chirasak Phoemchalard and Pitukpol Pornanek
Online Effects of low-temperature long-time cooking conditions on the quality of sous-vide cooked pork loin and ham
- 15 16:55-17:10 Bootsrapa Leelawat and **Tanwarat Taikerd**
Online Development of gluten-free and soy-free plant-based chicken meat from young Jackfruit
- 16 17:10-17:25 **Nuntaporn Aukkanit** and Prapasri Theprugsa
Online The application of high-pressure processing in reduced sodium chloride and phosphate Kai-yor (Thai chicken sausage)
- 17 17:25-17:40 **Sujitar Jorjong**, Arunrussamee Sangsila, Theeraphan Chumroenphat, Luachai Butekup, Ruamruedee Panchan, Wasana Phlaetita and Ratre Pranakhon
Online Bioactive compounds anti-hyperglycemic anti-oxidation of (*Antidesma thwaitesianum* Müll. Arg.) crude extracted
- 18 17:40-17:55 **Suteera Vatthanakul**, Suttinai Klamsakun and Surasak Sajjabut
Online Effect of electron beam irradiation on the physicochemical properties of jackfruit seed flour
- 19 17:55-18:10 Isara Wattananapakasem, Wannapa Srapinkornburee and **Unnop Tassanaudom**
Online The degradation of pickled Ginger Caused by *Enterobacter cloacae* and it's inactivation with different oxidizing agent treatments
- 18:30 **Closing Ceremony: ROOM 1**

Session 5B (Room 10) Online: Food Security/Safety, Food Science and Postharvest Technology

No.	Time	Chair: Dr. Nithyapriya S. (India) Co-chairs: Prof. Dr. Rajeev Bhat (UK), Assoc. Prof. Dr. Suneepon Suwanmaneepong (Thailand); Asst. Prof. Dr. Somsak Kramchote (Thailand)
1	13:00-13:15 Online	Prapasri Theprugsa and Charida Pakasap Effect of sodium chloride and sugar reduction on the quality of ready-to-eat- healthy Chinese fish sausage
2	13:15-13:30 Online	Sujitar Jorjong, Theeraphan Chumroenphat, Luachai Butekup, Ruamruedee Panchan, Wasana Phlaetita, Ratee Pranakhon and Arunrussamee Sangsila Phytochemical contents and anti-bacterial activity against food-borne pathogens of crude extracted of different Mao Luang cultivars
3	13:30-13:45 Online	Janejira Phakawan , Kantat Thavornsawadi and Racha Tepsorn Potential of chili extract and emulsified chili extract liposome as an antimicrobial against <i>Escherichia coli</i> O157:H7
4	13:45-14:00 Online	Ni-Orn Chomsri and Kamonwan Manowan Comparison of fermentation behaviors and properties of Naem-Hed supplemented with vegetables by spontaneous and controlled lactic acid fermentations
5	14:00-14:15 Online	Panya Mankeb , Prapaporn Chulilung, Sorrapong Charoenkittayawut, Somsak Kuhaswonvetch, Duangkamol Parnrostip and Luepong Luenam A causal relationship model of promoting food security among farm household in Nakhon Nayok Province, Thailand
6	14:15-14:30 Online	Natcha Limpasatirakit , Janejira Phakawan and Racha Tepsorn Antimicrobial activity of liposome-encapsulated (S)-(-)-Limonene, Geraniol, Nisin and Natamycin against <i>Escherichia coli</i> O157:H7
7	14:30-14:45 Online	Krittiya Khuenpet and Unnop Tassanaudom Effect of Nan Golden orange juice on manufacturing process and characterization of processed cheese during storage
8	14:45-15:00 Online	Julakorn Panatuk , Juntanee Uriyapongson and Suthipong Uriyapongson The effect of black rice bran oil on color appearance, lipid oxidation, antioxidant activity, and microbial growth of fresh ground beef patties during refrigerated storage
9	15:00 -15:15 Online	Wirunwith Boonmuang , Sirima Takeungwongtrakul, Peamsuk Suvarnakuta and Racha Tepsorn Impact of sodium citrate and ethylene glycol as the new H ₂ O ₂ stabilization for anti-listeria efficiency
10	15:15-15:30 Online	Suwaree Sripoona, Prapasri Termsaithong, Kobkhan Gubtapol , Prapaporn Chulilung and Panya Mankeb Nutritional content evaluation of traditional food recipes consumed by ethnic communities of Tai Dum in Loei, Thailand
	18:30	Closing Ceremony: ROOM 1

Session 6A (Room 6) Onsite/online: Plant Sciences and Pest management

No.	Time	Chair: James Kennard Jacob (Philippines) Co-chairs: Asst. Prof. Dr. Wikanya Prathumyot (RBRU, Thailand), Dr. Sitthi Kulabtong (RMUTTO, Thailand), Asst. Prof. Dr Najjapak Sooksawat(Thailand),
1	13:00-13:20	IS: Lalitha, S. and Sakthi Uma Devi, E
	Onsite	Next-generation technology approaches in plant development
2	13:20-13:40	IS: Hayde F. Galvez
	Onsite	The expertise/insights on Plant and Pest Management through the application of host resistance and genomics technologies including genome editing
3	13:40-13:55	Suriyasit Somnuek , Pornprapa Kongtragoul and Tanimnun Jaenaksorn
	Onsite	Fungicide resistance of <i>Phytophthora palmivora</i> causing durian diseases in eastern and southern Thailand and the <i>in vitro</i> alternative control by cajeput leaf extracts
4	13:55-14:10	Bancha Wiangsamut and Ma. Evangeline Wiangsamut
	Onsite	Effects of paclobutrazol on flowering of juvenile durian trees cv. 'Monthong' and its costs and returns of production
5	14:10-14:25	Jurairat Khemtung , Nittaya Phakamas and Pornpen Somchit
	Onsite	Effects of urea and sunn hemp on nitrogen use efficiency and physiological traits related to Japonica rice yield
6	14:25-14:40	Saisuree Wongwichaiwat , Sathaporn Chotechung, Jakarat Anothai and Nittaya Phakamas
	Onsite	Growth and yield performance of Bambara groundnut advanced line and introduced accessions grown in the rainy season in the South of Thailand
7	14:40-14:55	Nattareeporn Rodnuch and Chorkaew Aninbon
	Onsite	Harvesting time influences seed germination and vigour of some coloured rice varieties in Thailand
8	14:55-15:10	Barchia, M. F. , Sulisty, B., Diantoni, Y., Bertham, Y. H., Miswanti, M
	Onsite	Plant nutrient uptake and rice growth on marginal peat soil as affected by dolomite and NPK compound applied
9	15:10-15:25	Nipawan Makboriboon , Montinee Teerarak and Kanjana Saetiew
	Onsite	Changes in the Activity of Enzymes Associated with Enzymatic Browning and Chemical Composition during <i>Musa sapientum</i> Linn. 'Kluai Khai' Banana Fruit Ripening
10	15:25-15:40	Sumonrat Jintanasirinurak, Naphat Somala , Nutcha Manichart, Jantra Dimak and Chamroon Laosinwattana
	Onsite	Stability and pre-emergence herbicidal activity of citronella (<i>Cymbopogon nardus</i>) essential oil-based nanoemulsion during storage
	15:40-15:55	COFFEE BREAK

- 11 15:55-16:10 **Praeowanit Apithanasakulgeon**, Suriyasit Somnuek, Pornprapa Kongtragoul and Tanimnun Jaenaksorn
Onsite In vitro assessment of crude extract from Gomphrena weed (*Gomphrena celosioides*) for control of plant pathogenic fungi causing chili diseases
- 12 16:10-16:25 **Salit Supakitthanakorn**, Karnjana Vichitrakoonthavorn, Kaewalin Kunasakdakul and On-Uma Ruangwong
Onsite Development of real-time polymerase chain reaction (qPCR) technique for quantitative detection of chrysanthemum chlorotic mottle viroid (CChMVd) and chrysanthemum stunt viroid (CSVd) in chrysanthemum
- 13 16:25-16:40 **Anuradha Narasapalli**, T.S.S.K. Patro, Sandhya Rani Yesarapu, Triveni Ungata and Ashok Singamsetti
Online Studies on genetic parameters in Little Millet (*Panicum sumatrense* L.)
- 14 16:40-16:55 **Pramote Pornsuriya**, Patiyut Kwun-On, Rusama Marubodee and Apsit Chittawanij
Online Assessment of yardlong bean (*Vigna unguiculata* (L.) Walp. ssp. *sesquipedalis* Verdc.) genotypes for drought stress tolerance
- 15 16:55-17:10 **Umi Salamah**, Helfi Eka Saputra, Welly Herman and Muhimmatul Husna
Online Growth performance and sensitivity index of two types of melon under salinity stress on Bengkulu Coastal Land
- 16 17:10-17:25 **Pallavi, T.**, Patro, T. S. S. K., Sarada Jayalakshmi Devi, R., Palanna, K. B., Gurivi Reddy, M., Shanthi Priya, M.
Online Morpho-cultural, molecular characterization and eco-friendly management of banded leaf and sheath blight pathogen in barnyard millet
- 17 17:25-17:40 **Wutthisak Bunnaen** and Onart Yartniyom
Online Medicinal plants diversity and ethnobotany in Khok Hin Lad Forest of Maha Sarakham Province, Thailand
- 18 17:40-17:55 **Donna Ria Josue-Canacan**
Online IPM technology adoption, preferences and conversion of annual and perennial crop growers in Southern Philippines for targeted extension program
- 18:30 **Closing Ceremony: ROOM 1**

Session 6B (Room 10) Online: Plant Sciences and Pest management

No.	Time	Chair: Dr. Danilo Josue (Philippines) Co-chairs: Assistant Prof. Dr. Nattaya Montri (Thailand); Asst. Prof. Dr. Potjana Sikhao (Thailand)
1	13:00-13:15 Online	Randolph Candano , Wilson de Panis, Marcela Navasero, Mario Navasero, Melissa Montecalvo and Joseph Manipol Preliminary field evaluation and comparative predatory efficiency of <i>Euborellia</i> species against <i>Spodoptera frugiperda</i> (J.E. SMITH) (Lepidoptera: Noctuidae) under laboratory conditions
2	13:15-13:30 Online	Chaowanee Laosuthipong , Pawat Seritrakul and Pantipa Nachiangmai Lodging-related gene expression in upland rice varieties from Pala U village, Thailand
3	13:30-13:45 Online	Carla Jane Malbataan, Florita Carandang and Maria Fatima Mercado Efficacy evaluation of irradiated carrageenan as plant growth promoter in Cowpea (<i>Vigna unguiculata</i> L.) Walp and Bush Sitao (<i>Vigna unguiculata</i> (L.) Walp. ssp <i>sesquipedalis</i> (L.) Verdc. x <i>V. unguiculata</i> (L.) Walp ssp <i>unguiculata</i>) production
4	13:45-14:00 Online	Marcela Navasero , Melissa Montecalvo, Mario Navasero, Jose Mari Navasero and Janren Sarah Macaraig Biology and mass rearing of <i>Mythimna separata</i> (Walker) using young leaves of corn, <i>Zea mays</i> L.
5	14:00-14:15 Online	Hataichanok Passara Evaluating the acaricidal effect of essential oil nanoemulsion against the cutworm, <i>Spodoptera litura</i>
6	14:15-14:30 Online	Rustikawati Rustikawati , Entang Inorihah, Marlin Marlin, Atra Romeida, Reny Herawati and Ulfa Husna Callus formation of <i>Curcuma mangga</i> in MS media supplemented with 2,4-dichlorophenoxyacetic
7	14:30-14:45 Online	Hataichanok Passara Acaricidal effect of plant essential oil nanoemulsions on controlling <i>Spodoptera exigua</i>
8	14:45-15:00 Online	Catur Herison , Rustikawati Rustikawati, Hermansyah Hermansyah and Sri Nurahayu Individual selection of F5 SSD generation of Hot Pepper (<i>Capsicum annum</i> L.) for soil acidity tolerance in ultisol
9	15:00 -15:15 Online	Alisa Kongjaimun , Rachsawan Mongkol, Phrutiya Nilprapruck and Auraiwan Isuwan Factors related to the planting area affecting the yield and fruit quality of Som Keaw (<i>Citrus nobilis</i> L.)
10	15:15-15:30 Online	Tunjung Pamekas and Usman Kris Joko Suharjo Correlation between biochemical resistance responses and blast disease severity in 11 genotypes of swamp rice
11	15:30-15:45 Online	Sempurna Ginting , Hesti Pujiwati and Edi Susilo Insect pests attack sorghum (<i>Sorghum bicolor</i> L. Moench) in the coastal region of Bengkulu, Indonesia
12	15:45-16:00 Online	Alcantara, Nathaniel R. , Mendoza, Bernadette C., Sabina, Noel G., Simbahan Jessica T., Balatbat, Juancho B., de los Reyes, Francis III L., and Hyman Michael R. Archaeal community discovered in Phytotelmata of <i>Nepenthes alata</i> Blco. samples obtained from Nt. Makiling, Philippines as revealed by High throughput Molecular sequencing analysis
13	16:00-16:15 Online	Rachid Pengseesang and Sitthi Kulabtong Study on the use of Napier grass in tilapia culture
14	16:15-16:30 Online	Jayvee Cruz , Jan Nico A. Lazaro, Woon Goo Ha, and Norvie L. Manigbas Effects of silicon deposition on enhancing the yield of different rice cultivars
	18:30	Closing Ceremony: ROOM 1

Session 7 (Room 7) Onsite/online: Soil and Environment, Water conservation, Digitalization in Food and Agriculture

No.	Time	Chair: Prof. Zainal Muktamar (Indonesia) Co-chairs: Prof. Dr. Ali, N. F. (Egypt), Asst. Prof. Dr. Sutisa Chaikul (RBRU, Thailand), Assoc. Prof. Dr. Anurug Poeaim (Thailand), Assoc. Prof. Praprut Promsomboon (RMUTTO, Thailand)
1	13:00-13:20 Onsite	IS: Zainal Muktamar , Muhammad Galih Sanjaya, Teguh Adiprasetyo, Anandyawati Anandyawati, Nanik Setyowati and Kartika Utami Available soil phosphorous under the application of vermicompost combined with liquid organic fertilizer in ultisols
2	13:20-13:35 Online	Noel Degamo , Clint D. Hassan and Teodoro Mendoza Digitalization in agriculture as tool for localizing food security measures : The Philippine experience
3	13:35-13:50 Onsite	Pakapon Poythaisong , Jeeranan Khermkhun, Peerachai Kullachai, Kanyanee Kullachai, Duangkamon Panosathip Thunmathiwat and Panya Mankeb Value chain management of soil ready for planting products of the Phawa Sub-district agroforestry network Kaeng Hang Maeo District, Chanthaburi Province, Thailand.
4	13:50-14:05 Onsite	Kyi Kyi Shwe , Sai Huaihongthong and Sukunya Yampracha Assessment of water quality variation for agriculture in Bang Pakong River of Thailand
5	14:05-14:20 Onsite	Preyanuch Jitkaew , Siriporn Pradit, Karnda Sengloyluan, Mathinee Yucharoen, Varaporn Tanrattanakul, Suvit Suwanno, Kittiwara Sornplang, Thongchai Nitiratsuwat, Prakrit Noppradit and Mila Geindre Accumulation of microplastics in stomach, intestine, and tissue of two shrimp species (<i>Metapenaeus moyebi</i>) and (<i>Macrobrachium rosenbergii</i>) in U-Taphao canal, southern Thailand
6	14:20-14:35 Onsite	Muhammad Farid , Lindung Zalbuin Mase, Nanik Setyowati, Zainal Muktamar, Bertoka Fajar Sp Negara and Suched Likitlersuang Identification of soil porosity using geophysical and geotechnical observation for agricultural application
7	14:35-14:50 Onsite	Pattana Somniam and Vimolchat Somniam The effects of seed priming with cattle fecal extracted on seed germination of Coriander (<i>Coriandrum sativum</i>)
8	14:50-15:05 Onsite	Prongsatorn Sinturat , Sarawut Intorrathed and Pakkapong Pongusuk Potential development on smart farmer of alumni members of the Future Farmers Organization of Thailand, central region Thailand
9	15:05-15:20 Online	Kartika Utami , Evi Sari, Zainal Muktamar and Yudhi Bertham Effects of dairy cattle waste vermicompost on nitrate-n in ultisol and inceptisol
10	15:20-15:35 Online	Muhammad Faiz Barchia, Nasrul Rahman , Bandi Hermawan and Reflis Reflis Land suitability evaluation of shallot (<i>Allium ascalonicum</i> L.) at irrigated marginal lowland in Bengkulu, Indonesia
	15:35-15:50	COFFEE BREAK

- 11 15:50-16:05 **Elsa Lolita Putri**, Gusmini Gusmini, Adrinal Adrinal and Yaherwandi Yaherwandi
Online Observation of tailing contains ingredients of mercury (Hg) contaminants in ex-gold mining soil, Sijunjung Regency, West Sumatera Province, Indonesia
- 12 16:05-16:20 **Anandyawati Anandyawati**, Wuri Prameswari and Zainal Mukhtar
Online Comparison of the quality of animal manure compost conventional methods with vermicompost animal manure from *Lumbricus rubellus*
- 13 16:20-16:35 **Wimonsiri Sehawong**
Online Effect of using green manure from azolla (*Azolla microphylla* Kaulf.) on the growth for purple rice of 2 cultivars in very strongly acidic soil
- 14 16:35-16:50 **Thotsaporn Sonboot**, Suwaree Sripoona, Prapaporn Chulilung, Pomhom Cheardgotha and Panya Mankeb
Online Tree bank management pattern for sustainability of environmental and household economies in Thailand
- 15 16:50-17:05 **Boonvanich Boonvarichchananan**, Suwaree Sripoona, Prapaporn Chulilung, Phomhom Cheadkota and Panya Mankeb
Online Guidelines for developing an integrated community environmental management strategy towards sustainability of local government organizations in Thailand
- 16 17:05-17:20 **Boonyarid Buarabut**, Krisorn Ruaypom and Roytis Yartcharoen
Online Semi-automatic rambutan boring machine
- 17 17:20-17:35 **Tanyakorn Khumwong**, Suwaree Sripoona, Phomhom Cheadkota, Prapaporn Chulilung and Panya Mankeb
Online Underground water bank management network to restore environment and community economy in Thailand
- 18 17:35-17:50 **Piyapong Wongkhunkaew**, Supasit Konyai and Vichai Sriboonlue
Online Climate variability's impact on rainfed-sugarcane production in Thailand's northeast
- 19 17:50-18:05 Riwandi Riwandi, Hasanudi Hasanudin, **Anandyawati Anandyawati** and Wuri Prameswari
Online Increasing in leaves nutrient levels, N, P, K uptake and yield of Corn (*Zea Mays. L*) BISI 18 varieties with different vermicompost doses
- 20 18:05-18:20 **Duangthip Rukanee**, Rachaya Tharakunthip, Thanadech Kangsawat and Narakorn Chatchairat
Online The land use suitability evaluation for agricultural planning by using Analysis Hierarchy Process (AHP) in Chachoengsao province
- 18:30 **Closing Ceremony: ROOM 1**

Session 8 (Room 8) Onsite/online: Organic Agriculture

No.	Time	Chair: Prof. Dr. Nanik Setyowati (Indonesia) Co-chairs: Dr. TSSK Patro (India), Asst. Prof. Dr. Bancha Wiangsamut (Thailand), Dr. Teerawat Sarutayophat (Thailand), Prof. Dr. M.A. Sarker (Bangladesh)
1	13:00-13:20	IS: Teodoro C. Mendoza
	Onsite	The challenges of promoting the adoption of organic agriculture under Philippine setting
2	13:20-13:40	IS: Nanik Setyowati, Josua Valentino Hutapea and Zainal Mukhtar
	Onsite	Mexican sunflower (<i>Tithonia diversifolia</i>) compost as substitute for synthetic fertilizers for sweet corn in Ultisols
3	13:40-14:00	IS: Benjarong K. Thongbai
	Onsite	A new concept for organic tomato breeding and determination of pathotypes of tomato leaf mold, <i>Fulvia fulva</i> , in Germany
4	14:00-14:20	IS: Danilo S. Josue
	Onsite	Organic agriculture in the Philippines: Bane or Boon?
5	14:20-14:35	Thammanat Posiripong
	Onsite	Management of organic sweet potato growing group from production to markets in organic certified areas at San Klang Ngim Pong District Payao Province
6	14:35-14:50	M Nivetheetha, Venugopal Gopikrishnan , Radhakrishnan Manikkam, Kaari Manigundan, Baskaran Abirami, Sasikumar Ushanandhini and Kasem Soyong
	Onsite	Bioprospecting of plant root associated actinobacteria for Plant Growth Promoting (PGP) properties
7	14:50-15:05	Worasin Malaithong , Duddoa Khonyang, Surapong Tongrueng and Isara Wattananapakasem
	Online	Carcass quality and fatty acid composition of Thai native chicken raised in organic production system
8	15:05-15:20	Muhammadul Husna , Umi Salamah, Welly Herman, Winalia Agwil and Risky Hadi Wibowo
	Online	Stomata and morphology root of oil palm seeds use organic fertilizer in ultisol media
9	15:20-15:35	Edi Susilo , Nanik Setyowati, Uswatun Nurjannah, Riwardi and Zainal Mukhtar
	Online	Inhibition of seed germination under water extract of Sorghum (<i>Sorghum bicolor</i> L.) plant and its ratoon cultivated in swamp land
	15:35-15:50	COFFEE BREAK
10	15:50-16:05	Fahrurrozi Fahrurrozi , Zainal Mukhtar, Sigit Sudjatmiko, Nanik Setyowati, Dia Novita Sari and Eny Rolenti Togatorop
	Online	Yield responses and nutrient uptakes of peanut (<i>Arachis hypogaea</i> L.) as affected by liquid organic fertilizer and vermicompost
11	16:05-16:20	Isnin Kurnia Safitri , Fahrurrozi Fahrurrozi and Zainal Mukhtar

- Online** Effects of bio-activators on nutrient contents of goat-manure based solid organic fertilizer
- 12 **16:20-16:35** **Haryuni Haryuni**, Fahrurrozi Fahrurrozi, Zainal Muktamar, Nanik Setyowati and Supanjani Supanjani
Online Use of Moringa leaves (*Moringa oleifera* L.) and Seaweeds (*Sargassum* sp.) to improve nutrient contents of liquid organic fertilizer
- 13 **16:35-16:50** **Cheryl Bundalian**, Roselyn Paelmo, Maria Fatima Mercado and Gina Pangga
Online Effects of varying concentrations of organically sourced nutrients on vitamin C, and yield of Okra (*Abelmoschus esculentus*)
- 14 **16:50-17:05** Surawat Chalorsuntisakul and **Charunee Kasornpikul**
Online Opinions of officers of certification bodies for promotion of organic livestock farming in Thailand
- 15 **17:05-17:20** **Panida Duangkaew**, Sararat Monkhung and Thanadol Sangsuwansri
Online Screening of antagonistic bacteria to control *Colletotrichum* sp. causing anthracnose disease in tropical fruits
- 16 **17:20-17:35** **Seon Hwa Kim** and Jin-cheol Kim
Online Research on a potential biocontrol agent *Sphaerodes mycoparasitica* for controlling plant pathogenic and mycotoxigenic *Fusarium* species
- 17 **17:35-17:50** **Saralee Suwandee**, Rattasit Saelee, Prommart Koohakan and Nattaya Montri
Online Bioactivity of (*Tectona grandis* L.f.) and cajuput (*Melaleuca cajuputi* Powell) leaf extracted on inhibition fruit fungal pathogens
- 18 **17:50-18:05** **Melissa Montecalvo**, Janren Sarah Macaraig, Marcela Navasero, Mario Navasero and Jose Mari Navasero
Online Effect of organic oil formulation of *Metarhizium rileyi* (Farlow Samson) to third larval instar of fall armyworm, *Spodoptera frugiperda* (J.E. SMITH) (Lepidoptera: Noctuidae)
- 19 **18:05-18:20** **Pranot Maniin**, Pennapa Nilkong and Phissanu Kaewtaphan
Online Effect of organic fertilizer quantity on yield and seed qualities of organic Pathumthani
- 18:30** **Closing Ceremony: ROOM 1**

Session 9 (Room 9) Onsite/online: Biology in Agriculture

No.	Time	Chair: Assoc. Prof. Dr. Lalitha, S. (India) Co-chairs: Haggag M. Wafaa (Egypt), Prof Dr Younes (Iran-Turkey), Prof. Dr. Thangadurai Devarajan (India), Prof. Dr. Raphael Okigbo (Nigeria)
1	13:00-13:20 Online	IS: Haggag M. Wafaa Application of nano organic materials for sustainable agro-productivity, food security and Environment
2	13:20-13:40 Online	IS: Okigbo, R. N. and Isiofia, I. E. Fungal rot of white yam (<i>Dioscorea rotundata</i> Poir) and control with <i>Ocimum gratissimum</i> L. AND <i>Moringa oleifera</i> Lam.
3	13:40-14:00 Onsite	IS: Ali, N. F. and Abd-Elsalam, I. S. Production of amylase enzyme from novel bacterial isolates, partial purification, embolization and its application in textile industry for modification of wool fibers dyed with natural dye
4	14:00-14:20 Onsite	IS: M.A. Sarker and M.R. Ali Sandbar cropping systems: an innovative organic approach to support livelihood of the climate vulnerable people in Bangladesh
5	14:20-14:35 Onsite	IS: Sakthi Uma Devi, E. and Lalitha, S. Effect of plant growth promoting rhizobacteria as biostimulant in <i>Vigna radiata</i> L. under cadmium stress
6	14:35-14:50 Onsite	Nithyapriya S. and Lalitha S Impact of microbial inoculation on herbicide affected soil
7	14:50-15:05 Onsite	Garan, N. M., Tabal, E.P. Galo, E.V. and Garan, M.A. Energy bill to produce certified rice seeds in Philrice research station in Zamboanga city, Philippines
8	15:05-15:20 Online	Marvin Bryan S. Salinas, Teepakorn Lertwichaikul, Chakorn Khunkaew, Sukolrat Boonyayatra, Korawan Sringarm, Phongsakorn Chuammitri, and Anucha Sathanawongs Atpase subunit beta 1 (atp1b1) and glutathione s-transferase mu 3 (gstm3) expression in high and low freezability buffalo epididymal
9	15:20-15:35 Online	Abirami Baskaran, Akshata Vishwas, Radhakrishnan Manikkam, Namitha Ravindran, Govindaraju Kasivelu, Gopikrishnan Venugopal and Manigundan Kaari Characterization of biosynthesized gold nanoparticles from <i>Streptomyces misionensis</i> PYA9 with biomedical and environmental applications
	15:35-15:50	COFFEE BREAK
10	15:50-16:05 Online	Elderico P. Tabal, Mario A. Garan and Queeneevi T. Quijano Benefits of organic vegetables grown in raisedbeds: Experienced of selected urban barangays in Zamboanga City, Philippines Amidst Covid 19 Pandemic

- 11 **16:05-16:20** **Ruffa Mae Murillo**, Judelyn Saberon, Quartus Eugene Sabado and Elderico Tabal
 Online Redirecting urban farming to waste management: The case of human excreta as
 biofertilizer applied to tomato and eggplant crops
- 12 **16:20-16:35** **Phebe Valdez** and Clarissa Yvonne Domingo
 Online Detection of Classical Swine Fever Virus (CSFV) using wet and dry Rt- lamp among
 five- week old weanlings in selected provinces of the cordillera administrative region
- 13 **16:35-16:50** **Hesti Pujiwati**, Usman Kris Joko Suharjo, Wuri Prameswari, Muhimmatul Husna,
 Online Bambang Gonggo Murcitro and Edi Susilo
 Aluminum stress on 12 Soybean genotypes in nutrient cultures
- 14 **16:50-17:05** **Nuengrathai Maiprom**, Rattasit Saelee and Prommart Koohakan
 Online Characterization of *Phytophthium* and *Pythium* species from freshwater area based
 on morphological traits and ITS sequence
- 15 **17:05-17:20** **Person Pesona Renta**, Zhen-Wei Li and Yi-Min Chen
 Online Utilization CMS (Condensed Molasses Solubles) for microalgae *Tetraselmis* sp.
 Growth
- 16 **17:20-17:35** **Usman K.J. Suharjo**, Tunjung Pamekas, Rahmawati C. Zazila and Keken Septada
 Online Performance of solo garlic and regular garlic grown in vitro at WPM Media
- 17 **17:35-17:50** **Wuri Prameswari**, Umi Salamah, Muhimmatul Husna, Hesti Pujiwati, Marulak
 Online Simarmata and Ikmal Aziz
 The effect of polyethylene glycol-induced drought stress on seed germination stage
 and seedling growth of different soybean varieties
- 18 **17:50-18:05** Luepong Luenam, Panya Mankeb and **Dusit Aue-Umneoy**
 Online Biogas production from Co-Digestion of water hyacinth and old substrate mushroom
 lumps left after mushroom cultivation
- 18:30** **Closing Ceremony: ROOM 1**

Closing Ceremony: Room 1

18:30-18:50 Presentation the BEST PAPER AWARDS

Concluding Remarks: Prof. Dr. Hiroyuki Konuma (Japan)
Chairman of International Organizing Committee

**Closing and Future Remarks by Prof. Dr. Teodoro C. Mendoza
(Philippines)**

Closing address by Asst. Prof. Dr. Thongchai Putthongsiri

Welcome to the 11th ICIST 2023 in INDIA by Assoc. Prof Dr. Lalitha, S.,
Prof. Dr. Thangadurai Devarajan(India), Dr. TSSK Patro (India),

Future remarks by Prof. Dr. Kasem Soyotong, President of AATSEA
“IMAGINE”

19:00 Welcome dinner at Anusorn Resturant (shuttle bus)

DAY3 26 November 2022 – Field Workshop in Organic Agriculture

7:00-16:00 Excursion program : visit Organic Coconut Farm, Practical learning in Organic
Crop Production in Ratchaburi province

16:00-17:00 Visit AATSEA Research Laboratory

18:00 Goodbye dinner