

PROGRAM BOOK



**THE 5th INTERNATIONAL CONFERENCE
ON AGRICULTURE AND LIFE SCIENCES 2021**

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**THE 5th INTERNATIONAL CONFERENCE
ON AGRICULTURE AND LIFE SCIENCES 2021**

**November 3rd – 4th, 2021
Jember, East Java, Indonesia**

Jointly organized by:



CONFERENCE GUIDELINES

1. ICALS conference will be held virtually on 3rd – 4th November 2021. This conference consists of a Plenary and Parallel Session. We Provide the Zoom Meeting link as follow:
3rd November 2021
Meeting ID: 565 170 7996
Passcode : ICALS2021

4th November 2021
Meeting ID: 565 170 7996
Passcode : ICALS2021

2. Plenary and Parallel Session are arranged according to the schedule that has been published through the website. The Main Room is intended for opening, plenary (keynote speakers and invited speakers), and closing sessions.
3. Parallel room is intended for presenting scientific papers orally, which is divided into ten rooms as follow:

Room Name	Description
Room APP1	Agronomy and Plant Protection – 1
Room APP2	Agronomy and Plant Protection – 2
Room APP3	Agronomy and Plant Protection – 3
Room BTB1	Biotechnology and Biomolecule – 1
Room AET1	Agricultural Engineering and Technology – 1
Room FSS1	Food Science and Smart Education for Plant Based-Diet – 1
Room FSS2	Food Science and Smart Education for Plant Based-Diet – 2
Room SSP1	Smart Social and Politics in Industrial Agriculture – 1
Room SSP2	Smart Social and Politics in Industrial Agriculture – 2
Room SBA1	Smart Business for Agriculture and Healthy Food – 1

4. We use a “**breakout system**” to displace participants from one session to another session. To leave the parallel session, you can press the **Leave Breakout Room** button at the right corner of the window. In this way, the participants automatically return to the Main Room.



5. Since joining the Main Room, presenters and participants are required to change their usernames by adding a code of the room and No ID. For example, Ahmad will be engaged in APP commission room with ID 001, then you should change your user name to APP1-001_Ahmad.
6. For non presenter should change your username to NP_Room Name_Your Name, example : NP_APP1_Ahmad
7. Meeting guidelines for presenters or participants :
 - a. Please make sure that your microphone is muted to reduce distractions.
 - b. Please don't unmute yourself until the chair allows you to do so.
 - c. Please note that you are not permitted to record by yourself.
8. Presentation guidelines :
 - a. The presentation order will be selected randomly, meaning it could differ from the published schedule.
 - b. If a presenter cannot attend in person as scheduled due to technical or other reasons, we will proceed to the next presenter.
 - c. Once the issue is resolved, the former presenter will be invited to proceed.
 - d. Please don't unmute yourself until the chair allows you to do so.
 - e. Please turn your video on while your pre-recorded presentation is being shared with the floor.
9. Rule of Parallel Session:
 - a. This session will be held in parallel
 - b. In each session, there will be a video/live presentation by 5 participants, then a discussion session will be continued for 15 minutes
 - c. Playing video presentations and direct participant presentations are given a maximum time of 7 minutes
 - d. The moderator can stop the participant when the time is up
 - e. Participants who want to ask questions can write their questions in the chat column or activate the mic in the discussion session
 - f. The moderator will lead the discussion
 - g. The best presenters will be announced at the end of the ICALS event

10. Intervention guideline in commission room :

- a. After all the speakers finish their presentation, the participants will have an opportunity to ask a question or give any feedback to the speakers after being allowed by the moderator/facilitator to do so.
- b. To take this opportunity, click the raise hand menu in the chat button or write the question in the chat room.
- c. Then, the moderator/facilitator will have the privilege to choose who will have a chance to ask or give any feedback.
- d. Kindly keep interventions concise, up to a maximum of 3 minutes long.
- e. If the selected participant cannot respond to the opportunity for any reason, the moderator/facilitator will proceed to the next raised hand person.



SCHEDULE OF ICALS 2021

“Accelerating Transformation in Industrial Agriculture Through Sciences Implementation”

Wednesday, November 3rd, 2021. International Conference Symposium and Plenary session

Join Zoom Meeting :

<https://us02web.zoom.us/j/5651707996?pwd=VUVoMi94S1FTVWcrbHd2b0FtMkZ4UT09>

Meeting ID : 565 170 7996

Passcode : ICALS2021

Time (GMT+7)	Program	Remarks
07:30 - 08:00	Preparation	HOST : Tri Handoyo, S.P., Ph.D Co-Host: Student
08:00 - 08:25	Opening Ceremony:	MC
	University of Jember and Faperta	
	National Anthem “Indonesia Raya”	
	Hymne University of Jember	
	Mars Faculty of Agriculture	
	Report by General Chairman of ICALS	
	Welcoming remark by Rector of University of Jember Dr. Ir. Iwan Taruna, M.Eng.	
08:30 - 08:35	Pray	Ahmad Zainudin, S.P., M.Si
Symposium Session		
08.35 - 09.20	Keynote Speaker 1	Moderator: Ir. Kacung Hariyono, MS. Ph.D.
	Dr. Ir. Iwan Taruna, M.Eng.	
	Rector of University of Jember	
	Title	
09.20 - 10.05	Keynote Speaker 2	Notulen: Dr. Desy Cahya Widianingrum, S. Pt.
	Ir. Gatut Sumbogodjati, MM.	
	Director of Processing and Marketing of Food Crops	
Plenary Session I		
10.05 - 10.50	Guest Speaker 1	Moderator: Hardian Susilo Addy, S.P., M.P., Ph.D
	Prof Peng Zhang	
	Shanghai Center For Cassava Biotechnology (Sccb), China	
	Undestanding the starch boliosynthesis in root crop towards breeding application	
	Discussion	
10.50-11.35	Guest Speaker 2	Notulen: Ika Purnamasari, S.Si., M.Si.
	Prof Alexander Flor	
	University of The Philippines Open University	
	Socioeconomic Dimensions of Farmer-Smart Agriculture in The Fourth Industrial Revolution.	
	Discussion	
11.35-12.45	Break	Commitee

Time (GMT+7)	Program	Remarks
Plenary Session II		
12.45 – 13.30	Guest speaker 3: Prof. Tri Agus Siswoyo, S.P., M.P., Ph.D University of Jember The tandem-repeat strategy for high yield peptide production Discussion	Moderator: Wahyu Indra Duwi Fanata SP., M.Sc., Ph.D.
13.30-14.15	Guest Speaker 4:	Notulen: Melinda Erdya Krismaputri, S. Pt., MSc
	Sebastien CUNNAC	
	France	
	Crop Protection by Advanced Biotechnology	
	Discussion	
Plenary Session III		
14.15-15.00	Guest Speaker 5:	Moderator: Ir. Jayus, Ph.D.
	Prof. Dr. Thirumalaisamy P. Velavan	
	Institute of Tropical Medicine, University of Tübingen, Germany	
	Agricultural products for the prevention and treatment of covid-19	
	Discussion	
15.00 – 15.15	Closing for day 1	MC



SCHEDULE OF ICALS 2021
“Accelerating Transformation in Industrial Agriculture Through
Sciences Implementation”

Thursday, November 4th, 2021. Main Room

Join Zoom Meeting:

<https://us02web.zoom.us/j/5651707996?pwd=VUVoMi94S1FTVWcrbHd2b0FtMkZ4UT09>

Meeting ID : 565 170 7996

Passcode : ICALS2021

Time (GMT+7)	Program	Remarks
06.30-07.00	Preparation to Main Room	Committee HOST ROOM Rizki Hidayatullah MC
Parallel Session		
Preparation to Plenary Session		
Plenary Session IV		
12:00 – 13:00	Preparation to Main Room	
13.00 – 13.45	Guest speaker 6:	Moderator: Tri Handoyo, , S.P., Ph.D
	Prof. Fahrul Zaman Huyop	
	Universiti Teknologi Malaysia	
	Micro-Molecular biology method for understanding pollutant degradation from the perspective of dehalogenases	
13.45-14.30	Discussion	Notulen: Suci Risfiyana, S.T.P., MSc.
	Guest Speaker 7:	
	M. Rondhi, SP, MP, Ph.D.	
	Universitas Jember	
14.30-15.00	Strengthening Agriculture Institution to Increase farmer access to market	MC
	Discussion	
	Announcement and Closing	

SCHEDULE OF ICALS 2021
“Accelerating Transformation in Industrial Agriculture Through Sciences Implementation”

Thursday, November 4th, 2021. Room APP “Agronomy and Plant Protection”

Time (GMT+7)	Program	Remarks
06:00 – 07:00	Preparation	Committee HOST ROOM APP Rizki Hidayatullah
Parallel Session		
07.00 – 12.00	Room (@10 minute, 7 minute presenting 3 minute discuss) Room APP-1 : 25 presenters Co-Host: Adief Priyo Sembodo	Moderator Widya Kristiyanti Putri, S.Pd., M.Si
	Room APP-2 : 25 presenters Co-Host: Ana Miftahul Janah	Suci Ristiana, S.Tp., M.Sc
	Room APP-3 : 27 presenters Co-Host: Muhammad Astaf	Ika Purnamasari, S.Si., M.Si.
12.00-13.00	Break	MC

Thursday, November 4th, 2021. Parallel Session Room BTB: “Biotechnology and Biomolecule”

Time (GMT+7)	Program	Remarks
06:00 – 07:00	Preparation	Committee HOST ROOM BTB Oria Alit Farisi, S.P., M.P.
Parallel Session		
07.00 – 12.00	Room (@10 minute, 7 minute presenting 3 minute discuss) Room BTB-1: 11 presenters Co-Host: Riska Tri Septiana	Moderator Tri Ratnasari, S.Si, M.Si
12.00-13.00	Break	MC

Thursday, November 4th, 2021. Parallel Session Room AET: “Agricultural Engineering and Technology”

Time (GMT+7)	Program	Remarks
06:00 – 07:00	Preparation Parallel session	Committee HOST ROOM AET Tri Handoyo, S.P., Ph.D
Parallel Session		
07.00 – 12.00	Room (@10 minute, 7 minute presenting 3 minute discuss) Room AET-1 : 27 presenters Co-Host: Destya Putri Primasari	Moderator Susan Barbara P. SM., S.Hut, M.Sc.
12.00-13.00	Break	<i>MC</i>

Thursday, November 4th, 2021. Parallel Session Room FSS: “Food Science and Smart Education for Plant Based-Diet”

Time (GMT+7)	Program	Remarks
06:00 – 07:00	Preparation	Committee HOST ROOM FSS Dr. Laily Ilman Widuri, SP
Parallel Session		
07.00 – 12.00	Room (@10 minute, 7 minute presenting 3 minute discuss) Room FSS-1 : 20 Presenters Co-Host: Karlina Dwi Safitri	Moderator Himmatul Khasanah, S. Pt. M.Si
	Room FSS-2: 13 Presenters Co-Host: Nurul Fadilah	Dr. Luh Putu Suciati, S.P., M.Si
06:00 – 07:00	Break	<i>MC</i>

Thursday, November 4th, 2021. Parallel Session Room SSP: “Smart Social and Politics in Industrial Agriculture”

Time (GMT+7)	Program	Remarks
06:00 – 07:00	Preparation	Committee HOST ROOM SSP: Ahmad Zainuddin, S.P., M.Si.
Parallel Session		
07.00 – 12.00	Room (@10 minute, 7 minute presenting 3 minute discuss) Room SSP-1: 21 Presenters Co-Host: Fenty Fitra	Moderator Agung Sih Kumianto, S.Si., M.Ling.
	Room SSP-2: 15 Presenters Co-Host: Wahyu Riski Harwoto	Ahmad Ilham Tanzil, S.P., M.P.
12.00-13.00	Break	MC

Thursday, November 4th, 2021. Parallel Session Room SBA: “Smart Business for Agriculture and Healthy Food”

Time (GMT+7)	Program	Remarks
06:00 – 07:00	Preparation	Committee HOST ROOM SBA: Erwin Dwi Kusbianto, SP, MP
Parallel Session		
07.00 – 12.00	Room (@10 minute, 7 minute presenting 3 minute discuss) Room SBA-1: 28 presenters Co-Host: Andika	Moderator Distiana Wulanjari, S.P., M.P.
	Break	MC

PRESENTATION SCHEDULE

Room APP 1 - Agronomy and Plant Protection

Session	Time (GMT+7)	ID	Name	Title
I	07.00-07.50	APP1 001	Tri Handoyo, S.P., Ph.D.	Morphological and Molecular Identification of Some Aromatic Rice (<i>Oryza sativa</i> L.) Using RAPD (Random Amplified Polymorphic DNA)
		APP1 002	Ir. USMAN KRIS JOKO SUHARJO, M.Sc. Ph.D.	RE-HARVEST APPLICATION OF GA3 SOLUTIONS PROMOTED SEED DORMANCY BREAKING IN POTATO TUBERS
		APP1 003	Dr. Ir. Damasus Riyanto, M.Sc.	THE EFFECT OF ROOT GROWTH REGULATOR AND ENVIRONMENTAL SANITATION ON SALACCA EDULIS SEEDLING OF SLEMAN REGENCY
		APP1 004	Dr. Erna Siaga, S.P	Responses of Roots and Leaves in Nine Varieties of Chili Pepper (<i>Capsicum annum</i> L.) to Water Saturated Rhizosphere
		APP1 005	Aji Winara, S.Hut. M.Si	Agronomic characteristics and potential of local variety of citronella oil in Cianjur Regency, West Java
II	07.50-08.40	APP1 006	Muhimmatul Husna, SP., M.Si	Organic System Practice of Oil Palm Pre-Nursery in Ultisol Media
		APP1 007	Prof.Dr. Dyah Roeswitawati, MS.	UTILIZATION OF HYDRILLA (<i>Hydrilla verticillate</i> L.) AS SOIL IMPROVEMENT IN IMPROVING SOIL PHYSICAL, CHEMICAL AND BIOLOGICAL CONDITIONS
		APP1 008	Ir. Henny Kuntiyastuti, MS	Effects of Application Organic and NPK Inorganic Fertilizers on Soybean in Dry Land
		APP1 009	Ir. Sigit Soeparjono., MS., PhD	THE EFFECT OF PLANTING MEDIA COMPOSITION AND COCONUT WATER CONCENTRATION ON YIELD AND QUALITY OF RED CHILLI (<i>Capsicum annum</i> L.)
		APP1 010	Welly Herman, S.P.,M.P	Application of Tofu Liquid Waste and Patchouli Dregs on the Growth of Oil Palm Seeds in Pre Nursery with Ultisol Media
III	08.40-09.30	APP1 011	RADEN SOEDRADJAD	Effect of Biochar Application on Maize Growth Rate in Dry Land with Two Irrigation Systems
		APP1 012	Dr. Yani Maharani	Hymenoptera parasitoid, natural enemy agent controlling <i>Spodoptera frugiperda</i> in Indonesia and its identification key
		APP1 013	Rina Arimarsetiowati, MSc.	Metabolite Profiling of Resistant and Susceptible Coffee against Parasitic Nematodes (<i>Pratylenchus coffeae</i>)

Session	Time (GMT+7)	ID	Name	Title
		APP1 014	Dr. Ir. Wilyus, M.Si	Pollinating Insects in Honey Pumpkin (<i>Cucurbita moschata</i> Dusch) and Sweet Corn (<i>Zea mays</i> L. <i>Saccharata</i> Sturt) Agroecosystems
		APP1 015	Ir. Wayan Wangiyana, MSc(Hons), Ph.D.	Intercropping Red Rice Genotypes with Mungbean and Application of Mycorrhiza-Biofertilizer to Increase Rice Yield with Reduced Inorganic Fertilizer Doses
IV	09.30-10.20	APP1 016	Dr. Ir. TUNJUNG PAMEKAS, M.Sc.	INHIBITION OF BETEL LEAF EXTRACT TO SEEDBORNE PATHOGENIC FUNGI OF RICE PADDY SEEDS
		APP1 017	Dr.Ir. Slameto, MP	Effect of Mutagen Ethyl Methane Sulfonate Treatment on the Physiochemical of Tomato
		APP1 018	sarlin kusumaningrum.S.P.	Direct and Indirect relationship between root and shoot on four lowland chilli varieties (<i>Capsicum annum</i> L.)
		APP1 019	Iman Satra Nugraha, S.E	Optimation of factors affecting rubber farmer revenue to preserve their rubber farming business
		APP1 020	IR. MERAKATI HANDAJANINGSIH, M.SC	The Effectiveness Application of Urea Fertilizer Coated with Compost of Empty Palm Oil Bunch in Tablet Formula on Growth and Yield of Celery
V	10.20-11.30	APP1 021	Dr. Zozy Aneloi Noli	Influence of Foliar Spraying of <i>Moringa oleifera</i> Extracts As Biostimulant on Growth of Singgalang Cabbage (<i>Brassica oleraceae</i> var. <i>capitata</i> L.)
		APP1 022	Prof. Dr. Ir. Sri Hartatik, MS	Effect of Application of Chicken Manure and <i>Pseudomonas fluorescens</i> Bacteria on Growth and Yield of Shallot (<i>Allium ascalonicum</i> L.)
		APP1 023	Junianto S. Batubara, S.Agr	Insecticidal Activity of <i>Syzigium aromaticum</i> Leaves and <i>Allium sativum</i> Tubers Extracts Against Subterranean Termites <i>Macrotermes gilvus</i> Hagen (Blattodea: Termitidae)
		APP1 024	Elara Resigia, S.P., M.P.	EVALUATION OF THREE VARIETIES OF GARLIC AS SEEDS IN ALAHAN PANJANG, WEST SUMATRA
		APP1 025	Kelik Perdana Windra Sukma	Dry matter and nitrogen accumulation of Madura local corn var. Elos on salt stress

Room APP 2 – Agronomy and Plant Protection

Session	Time (GMT+7)	ID	Name	Title
I	07.00-07.50	APP2 026	Dr. Eries Dyah Mustikarini, SP, M.Si	Tolerance Level of Upland Rice Lines in Aluminum Stress
		APP2 027	Dr. Halimatus Sa'diyah, S.Si., M.Si	Outlying Observation in Genotype's Stability Analysis: AMMI vs Huehn Method
		APP2 028	Wilna Sari, S.P., M.Si.	THE DISTRIBUTION OF Spodoptera frugiperda J.E Smith (LEPIDOPTERA: NOCTUIDAE) AND ITS NATURAL ENEMIES IN WEST SUMATERA
		APP2 029	Wuri Prameswari, S.P., M.Si	STUDY OF DIFFERENT CUTTINGS SOURCES AND SYNTHETIC GROWTH REGULATORY SUBSTANCES AGAINST SUCCESSFUL RATE OF LONG PEPPER CUTTINGS
		APP2 030	Methasya Utami SP	Morphology and Genetic Diversity of Fusarium spp. Causes of Shallot Basal Plate Rot Diseases from Lowlands and Highlands of North Sumatra
II	07.50-08.40	APP2 031	Dr. Kristamtini	Evaluation of Maize-Soybean Intercropping on Specific Dry Land in Gunungkidul - Yogyakarta
		APP2 032	Marida Santi Yudha Ika Bayu, SP, M.Agr	Non-preference for oviposition and damage intensity on soybean genotypes by Bemisia tabaci
		APP2 033	Dr. Ir. Cahyoadi Bowo	Soil Liming in a Sub-Watershed by Using Exchangable Alumunium and Effective Exchange Capacity Methods
		APP2 034	Prof. Ir. M. Taufik Fauzi, M.Sc., Ph.D.	Compost tea as biofungicides to suppress Sclerotium rolfsii on soybean (Glycine max L. Merr.)
		APP2 035	Dr. Ir. Lilik Koesmihartono Putra	Viral Diseases of Sugarcane in Indonesia and Their Management Strategy
III	08.40-09.30	APP2 036	Dr. Runik Dyah Purwaningrahayu, S.P., M.P	High Yield Potential of Fifteen Soybean Accessions with Different Planting Methods
		APP2 037	Dr. SEMPURNA GINTING, SP, MSi	PEST ATTACK ON FIVE VARIETIES SORGHUM IN COASTAL AREA BENGKULU
		APP2 038	Hikma Ellya, S.P., M.P.	Propagation of stem cuttings of some ornamental plants at various Rootone-F concentrations
		APP2 039	Ely Lailatul Maghfiroh, S.P	Characterization of porang (Amorphophallus muelleri) endophytic bacteria

Session	Time (GMT+7)	ID	Name	Title
		APP2 040	AMBAR SUSANTI,S.P.,M.P	Identification of Simplicillium lanosoniveum At Suppressive Soil Potential Areas In Brantas Watershed - Indonesia
IV	09.30-10.20	APP2 041	Kurnia Paramita sari, SP.MP	EVALUATION OF THREE VOLATIL COMPOUNDS OF PEANUT LEAVES INFECTED BY WHITEFLY
		APP2 042	Joko Restuono, SP	Morphological Characterization of Leaf and Tuber on High Sugar Content Sweetpotato Promising Clones
		APP2 043	Abdul Rahim	Diversity and species composition of weeds in rice cultivation, Tarakan Island
		APP2 044	Dr. Tri Candra Setiawati	Effectiveness of Rock Phosphate Direct application combined with Cu and Mg on nutrient availability and uptake, production of total phenolic and flavonoid on rice
		APP2 045	Wildatur Rohmah	Abundance and Diversity of Predators in Rice Plantation with Combination Aplications of Botanical Insecticides and Endophytic Bacteria
V	10.20-11.30	APP2 046	Razhika Faradila S.Tp	Length of the Rainy Seasons and Its Effect on Food Crop Productivity
		APP2 047	Dr. Ir. Kisman, MSc	Physiological response of three large-seeded soybean genotypes under drought and puddle stress conditions
		APP2 048	Ir. Wayan Wangiyana, MSc(Hons), Ph.D.	Increasing Yield of Waxy Maize Following Paddy Rice through Mycorrhiza-Biofertilization and Additive Intercropping with Several Rows of Peanut
		APP2 049	Ir. Marwanto MSc, PhD	Azolla Compost-Based Organomineral Fertilizer for Increasing N Uptake, Growth, and Yield of Green Onion
		APP2 050	Aprian Aji Santoso, M.P.	Effect of Cattle Manure on Productivity and Attacks of Major Pests and Diseases on Inpari 24 Rice Varieties
		APP2 051	Oria Alit Farisi, SP., MP.	The effectiveness of giving organic matter to the productivity of tomato plants

Room APP 3 – Agronomy and Plant Protection

Session	Time (GMT+7)	ID	Name	Title
I	07.00-07.50	APP3 052	Nilla Kristina, SP, M.Sc	SELECTION AND RESPONSE TEST OF GARLIC VARIETY TO FERTILIZER IN ALAHAN PANJANG DISTRICT
		APP3 053	Dr. Dwi Setyorini, SP. MP.	RESPONSE OF GROWTH AND PRODUCTION OF SWEET CORN PLANTS ON EX-CANE SOIL
		APP3 054	MUHAMAD HIDAYANTO	Adaptation Test for Shallot Varieties in Kutai Kartanegara Regency, East Kalimantan Province
		APP3 055	Prof Dr Abdul Kadir Salam	The Soil Available-Potassium Enrichment by Several Potential Tropical Weeds
		APP3 056	Winih Sekaringtyas Ramadhani S.P., M.P.	EFFORTS TO REDUCE SOIL COMPACTION IN PINEAPPLE PLANTATIONS USING PLANTS ROTATION WITH BANANA CAVENDISH IN CENTRAL LAMPUNG, INDONESIA
II	07.50-08.40	APP3 057	Edi Susilo	Inhibition of Seed Germination Due to Water Extract from Main Plant and Ratoon Sorghum (<i>Sorghum bicolor</i> L.) Produced in Swamp Land
		APP3 058	Dr. Ir. Yenny Muliani, MP.	INTENSITY OF PURPLE SPOT DISEASE DUE TO ATTACK <i>Alternaria porri</i> (Ellis) Cif. IN 5 VARIETIES OF GARLIC (<i>Allium sativum</i> L.)
		APP3 059	Dr. Hesti Pujiwati, SP. MSi	Performance of Five Soybean Cultivars Grown at the Saline-Affected Soil Ammended with Soil Organic Fertilizer
		APP3 060	Ali Wafa, S.P., M.Si	Isolation protocol of <i>Î</i> Ralsto Phage
		APP3 061	BAKU ALOY PATU, S.Hut.	AGRONOMIC CHARACTERISTICS OF SOYBEAN PRODUCTION DETERMINATION IN TWO CULTIVATION TECHNIQUES ATTACKED BY <i>Etiella zinckenella</i> IN DRY LAND
III	08.40-09.30	APP3 062	Ir. Wagiyana, MP	Application of Biopesticides on Existance Prime of The Pest (<i>Nilaparvata lugens</i> Stal.) and (<i>Scirphophaga innotata</i> L.) to Implication of Natural Enemies Biodiversity on Rice in Jember, East Java, Indonesia
		APP3 063	Hikmahwati	PRODUCTION OF PHYTOHORMONES (IAA AND GA3) OF RHIZOSPHERE MUSHROOMS AS BIOCONTROL <i>FUSARIUM OXYSPOURUM</i> IN SHALLOT (<i>ALLIUM ASCOLONICUM</i> L) IN ENREKANG REGENCY
		APP3 064	Prof. Dr. Samanhudi, S.P., M.Si.	APPLICATIONS OF VERMICOMPOST FERTILIZER AND MYCORIZAL FUNGI ON GROWTH OF BIDURI (<i>Calotropis gigantea</i>)
		APP3 065	Prof Dr Abdul Kadir	The Phytoremediation Potential of Several Plants in Heavy-Metal Polluted Tropical

Session	Time (GMT+7)	ID	Name	Title
			Salam	Soils
		APP3 066	Prita Sari Dewi, Ph.D.	Response of 16 Rice Varieties (<i>Oryza sativa</i> L.) to High Temperature at Vegetative Stage
IV	09.30-10.20	APP3 067	Woro Sri Suharti, S.P., M.P., Ph.D.	EXPLORATION OF PLANT RESOURCES PRODUCING SALICYLIC ACID AS A PROSPECTIVE NATURAL AGENTS INDUCING PLANT RESISTANCE
		APP3 068	Dr. Yulmira Yanti, SSi, MP	Isolation and Characterization of Rhizobacteria <i>Bacillus</i> spp for Bacterial Leaf Blight Disease Control and Shallot Yield Improvement
		APP3 069	Hardian Susilo Addy, S.P., M.P., Ph.D	In vitro bioassay of bacteriophage XooG01 and <i>Elephantopus scaber</i> extract against <i>Xanthomonas oryzae</i> pv. <i>oryzae</i>
		APP3 070	Risqa Naila Khusna Syarifah, M.P.	DETERMINATION OF THE OPTIMUM DOSAGE OF N FERTILIZATION IN ACHIEVE OPTIMIZATION OF PERCENTAGE OF HYBRID RICE GRAIN CONTENTS
		APP3 071	Ir. Baswarsiaty, MS	POTENTIAL AND CHARACTERISTICS OF GENETIC RESOURCES OF 7 NATIONAL SUPERIOR RED ONION VARIETIES IN INDONESIA
V	10.20-11.00	APP3 072	Prof. Dr. Ir. Sabam Malau	Contribution of genotype and Bayfolan foliar fertilizer on performance of arabica coffee seedlings and its genetic component
		APP3 073	Dr. Alberth Soplanit	Assessment of Genetic Resources Superior Sago (<i>Metroxylon Sago</i> , Rottb) in Jayapura Regency. Waibu District Case Study
		APP3 074	Wahyu Indra Duwi Fanata, SP., M.Sc., Ph.D	Agronomic characters and aromatic genotypes of selected F6 generation rice plant line number 29 from cross pollination of Merah Wangi and Pendok varieties
		APP3 075	Petronella S. Nenotek, SP., M.Si	Inventory of Fruit Fly Species on <i>Citrus reticulata</i> Blanco in Sion Farmers Group, Mollo Tengah District, South Central Timor Regency.
VI	11.00-11.30	APP3 076	Ir. Agnes V. Simamora, MCP., Ph.D	Response of Endophytic Fungi to Synthetic Fungicides In Vitro
		APP3 077	Dr. Ir. Mayavira Veronica Hahuly, MCP.	Intensity of Phytophthora Fruit Rot Disease in Cocoa Production Centers, Sikka Regency, East Nusa Tenggara
		APP3 078	Dr. Ir. Sholeh avivi, MP	-

Room BTB 1 - Biotechnology and Biomolecule

Session	Time (GMT+7)	ID	Name	Title
I	07.00-07.40	BTB1 001	Jasmine Veldina Gegono	Free Radical Study of Papua's Candy as The Consumption Culture of The Papuans.
		BTB1 002	Wahyu Indra Duwi Fanata, SP., M.Sc., Ph.D	Effect of different carbon sources for callus regeneration of Mentik Wangi, Mentik Wangi Susu and Tarabas rice
		BTB1 003	Yati Maryati, M.Si	Characterization and evaluation of lipase inhibitory activity of Raja Sereh (Musa sapientum) banana kombucha enriched with lactic acid bacteria
		BTB1 004	Anandyawati, S.P., M.Si	Quality Comparison of Livestock Waste Through Vermicomposting with the help of Lumbricus rubellus
II	07.40-08.20	BTB1 005	Dr. Ir. Parawita Dewanti, M.P.	Dry Storage and Temperature Condition on Germination of Sugarcane (Saccharum officinarum) Synthetic Seeds
		BTB1 006	Intan Nirmalasari, SP	Effect of lignocellulolytic fungi to biodegradation of different type of organic waste derived from cocoa production
		BTB1 007	Dr. Ir. Didik Pudji Restanto, MS	The Induction of Somatic Embryogenesis in Cassava (Manihot esculenta Crantz)
		BTB1 008	Triyas Vinandita, S.P	Morphological Performance of Rambutan (Nephelium lappaceum L.) for the uses of biodiesel
III	08.20-08.50	BTB1 009	Natasha Florenika, S. Si.	Utilization of Coconut Water for In Vitro Shoots Multiplication of Pogostemon cablin Benth. "Sidikalang" and Essential Oil Profile
		BTB1 010	Kadek Bintang Indah Lestari	POTENTIAL OF rhLF (RECOMBINANT HUMAN LACTOFERRIN) AS IMMUNOMODULATOR IN FORMULA MILK FOR INFANTS WITH MOTHERS EXPOSED TO COVID-19
		BTB1 011	Dr. Lily Viruly	PHYLOGENETIC TREE OF HISTONE PROTEINS FROM GONGGONG SEA SNAIL (Laevistrombus turturella) AS SOURCES OF ANTIMICROBIAL PEPTIDES (AMPs) AND ITS ANTIMICROBIAL MECHANISMS

Room AET 1 - Agricultural Engineering and Technology

Session	Time (GMT+7)	ID	Name	Title
I	07.00-07.50	AET1 001	Riska Surya Ningrum, S.Si., M.Sc	The Effect of Modified Sago Using Butanol Precipitation on the Physicochemical Properties
		AET1 002	Vira Allsari, S.P	Comparison of the quality of vermicompose from some sources of animal waste the different result of the decomposition of the worm <i>Perionyx excavatus</i>
		AET1 003	ir.Aspiyanto	PERFORMANCE OF ULTRAFILTRATION MEMBRANE IN SEPARATING CORN (<i>Zea mays</i> var. <i>indentata</i>) HYDROLYZED FOR FORTIFICANT OF NATURAL FOLIC ACID
		AET1 004	Ir. Agustine Susilowati, M.M	POTENTIAL USE OF ULTRAFILTRATION IN CONCENTRATING CORN (<i>Zea mays</i> var. <i>indentata</i>) HYDROLYZATE AS FORTIFICANT OF NATURAL FOLIC ACID
		AET1 005	Dr. Ir. Syafrial, MS.	The effect of climate change perception on adaptation strategy: Evidence from potato farmers In East Java Indonesia
II	07.50-08.40	AET1 006	Ainun Nafisah, S.Pt., M.Si	Nutrient content and physical characteristics linkage of palm kernel meal and coconut meal after wet separation using molecular weight approach
		AET1 007	Miftahul Choiron, PhD	The effect of hot compressed water on ion released of a wasted biomass treatment
		AET1 008	Retno Utami Hatmi, ST., MSc	The Potential of Nglanggeran Village, Gunungkidul, Yogyakarta, Indonesia as a Farmer Corporation-Based Agricultural Area
		AET1 009	Dr. Ir. Sugeng Winarso, M.Si.	Limiting Factors and Balance of NPK Nutrients in Rice Paddy Farming System and Corn Crop Dry Land
		AET1 010	Dina Nursita, S.Si.	The Supporting Factor of Developing Organic Fertilizer in Banyuwangi Regency
III	08.40-09.30	AET1 011	Dr. Jamaluddin, M.P.	Drying Characteristic of Blanched Asam Mangga Using Food Dehydrator
		AET1 012	Alif Gita Arumsari, S.T., M.T.	Kinetics Reaction of the Flynn Wall Ozawa Method on Sawdust Pyrolysis Using a Small Scale Pyrolysis Apparatus
		AET1 013	Dr. Agr. Sc. Ernoiz Antriyandarti, SP, MP, M.Ec	Agricultural Mechanization and Indonesian Rice Production in the Era of President SBY
		AET1 014	Dr. Ir. Andi Masnang, M.Si	Effectiveness of application of organic fertilizer on plant growth and yield of taro on dry land
		AET1 015	Edo Hariyanto	Effect of Temperature and Drying Time on The Physical Properties of Patik Mas (<i>Euphorbia heterophylla</i>) Leaf Tea



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Session	Time (GMT+7)	ID	Name	Title
IV	09.30-10.20	AET1 016	Yosefina Mangera, S.Si., M.Sc	DESIGN OF FISH SMOKING WITH HOT AND COLD SMOKING METHODS
		AET1 017	Dr. Ir. Agus Triono, S.T., M.T.	Analysis Of Surface Roughness And Chips Morphology In Teak Wood Drilling Process
		AET1 018	Indra Milyardi, S.ST, M.T	Evaluation Of Service Quality At The “Merah Putih” Gamma Irradiator Using A Fuzzy Servqual Based Method
		AET1 019	Muhammad Imam Nugraha, S.T., M.Si.	The Effect of Composted Oyster Mushroom Baglog Waste on Rice Growth and Productivity in Acid Sulfate Soils
		AET1 020	Prof. Ir. Mulyati, SU., Ph.D.	Utilization of agricultural waste as biichar to enhance the soil chemical changes, growth and yield of soybean plant on sandy loam soil
V	10.20-11.00	AET1 021	Endi Sailul Haq, S.T., M.Kom	Development of IoT-Based Web Application for Controlled Greenhouse Environment
		AET1 022	Farid Lukman Hakim, S.T.	Tracking of five decades land use and land cover change in Bedadung watershed: learning from Landsat data
		AET1 023	Aflizar, SP., MP., Ph.D	Land Suitability Evaluation 3D Method for Mapping the feasibility of the Gambir Plantation (Uncaria gambir. Roxb) in West Sumatra, Indonesia
		AET1 024	Aflizar, SP., MP., Ph.D	Purifying Pollutant Indicators in Tofu Factory Wastewater Using a Multi Soil Layering System
VI	11.00-11.30	AET1 025	Ayu Rekno Wati	Using sentinel image to study the land cover change from 2015 to 2019 in Probolinggo and Pasuruan Regencies
		AET1 026	Mohamad Wawan Sujarwo S.TP.	Using Landsat to track land use and land cover change from 1970 to 2020 in Mayang watershed, East Java
		AET1 027	Dr. Ir. Arthur F. C. Regar, M.Sc.Ag	-

Room FSS 1 - Food Science and Smart Education for Plant Based-Diet

Session	Time (GMT+7)	ID	Name	Title
I	07.00-07.50	FSS1 001	Dr. Aditya Candra, M.Biomed., AIFO-K	Study of Potential Metabolic Compounds from Carica Papaya Leaves as a New Ergogenic Model for Muscle Fatigue Inhibitors
		FSS1 002	Ryan Budi Setiawan, SP, M.Si	Antioxidant Activity of Five Plants Species as Immunomodulator
		FSS1 003	Hamyana	The Effect of Kale (Brassica Oleracea A) Juice Product Quality on Consumer Satisfaction
		FSS1 004	Surya, S.Pt., S.Pd., M.Si.	Concentration Index of Feed Production Based on Harvested Area of Rice Plants in the Farmers Groups, Siparappe Village, Sawitto District, Pinrang Regency as One of the Ruminant Livestock Feed Bases in Fulfilling Animal Foods
		FSS1 005	Livy Febria Tedjamulia	Novelty and Smart Education of Microalgae Spirulina and Chlorella sp. based Sausages.
II	07.50-08.40	FSS1 006	Dr.Ir. I Ketut Budaraga.MSi	Study of Antioxidants by-products of Gambir Leaves into Tea with the Addition of Red Ginger Powder (Zingiber officinale Var. Rubrum)
		FSS1 007	Dr. Sudarti, M.Kes.	RESISTANCE ANALYSIS OF BLACK VINE (VITIS VINIFERA) EXPOSED TO EXTREMELY LOW FREQUENCY (ELF) MAGNETIC FIELD (ELF) 300 μ T AND 500 μ T
		FSS1 008	Hernawan, S.Si, M.Sc	Physicochemical, Fatty Acid Composition and Antioxidant Properties of Mahogany (Swietenia humilis Zucc.) Seeds Oil: A Comparative study
		FSS1 009	Hakiki Melanie, Ph.D	Separation and concentration of phycocyanin from Spirulina sp. using microfiltration membrane for natural pigment
		FSS1 010	Andini Sundowo, M.Si	Bioactivities and Organoleptic Analysis of Dark Chocolate Probiotic as a Functional Beverage
III	08.40-09.30	FSS1 011	Mu'adz	Development of Tea Bags from Tea Mistletoe (Scurulla oortiana), Tea Leaves (Camelia sinensis) and Stevia (Stevia rebaudiana) as Herbal Drinks Rich in Flavonoids and Potential Antioxidants



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Session	Time (GMT+7)	ID	Name	Title
		FSS1 012	TAHARA DILLA SANTI, S.Pd., M.Biomed	Analysis Active Compounds of Carica papaya, Averrhoa bilimbi and Chromolaena odorata leaves from Geothermal Area
		FSS1 013	Hani Mulyani	EFFECTIVITY ANTIBACTERIAL OF FERMENTED KATUK LEAVES (Sauropus androgynus (L.) Merr.) AGAINST GRAM POSITIVE BACTERIA Staphylococcus aureus AND FREE RADICAL INHIBITORY
		FSS1 014	Mochammad Akhsan Aziz Izzulhaq, S.Tr.Pt.	The Dipping Effect on Lime Solution (Citrus Aurantifolia) For Interior Quality And Total Bacteria Of Egg Laying Hens
		FSS1 015	Dr. Ir. Herlina, MP., IPM.	Production of Black Garlic from Local Garlic Varieties Lumbu Hijau at Various Aging Times
IV	09.30-10.20	FSS1 016	Anastasia Fitria Devi, PhD	Protein Content Affected Sensorial Properties of Cooked Rice Samples from The Merauke Regency
		FSS1 017	Dr.Miksusanti.MS	IMPACT OF VIRGIN COCONUT OIL (VCO) ON PROBIOTIC Lactobacillus delbrueckii subsp. bulgaricus
		FSS1 018	Tri Hadi Jatmiko	Machine Learning and Thin layer Drying Model of Gembili (Dioscorea sp.)
		FSS1 019	Mojiono, S.TP., M.Si.	Investigating physical and visual alterations of oven-dried cabya (Piper retrofractum Vahl.)
		FSS1 020	Ariza Budi Tunjung Sari, S.TP., M.Si	Improvement of sensory profile of unfermented cocoa powder by means of water incubation

Room FSS 2 - Food Science and Smart Education for Plant Based-Diet

Session	Time (GMT+7)	ID	Name	Title
I	07.00-07.50	FSS2 021	Dr. Riksfardini Annisa Ermawar	Microwave-Assisted Extraction and Characterisation of Pectin from Pineapple Biomass
		FSS2 022	Yeyen Prestyaning Wanita, S. TP., M.MA	The Physicochemical Properties of Taro Tuber Flour with Several Processing Methods
		FSS2 023	ARROHMATUS SYAFAQOH LI'AINI, SP, M. Sc., MP	Notes on Edible Poaceae Collected at Eka Karya Bali Botanic Garden
		FSS2 024	Umi Laila, S.T., M.Eng.	Utilization of Moisture Sorption Isotherm in Predicting Shelf-Life of Salted-Roasted Peanut
		FSS2 025	Lukman Hudi, S.TP., M.MT.	Gracilaria verrucosa Flour As a Nutraceutical Source: A Study Of Various Treatments on The stability of Nutritional Content and Antioxidants
II	07.50-08.40	FSS2 026	Henri Purwaningsih, STP.,MP.,PhD	Physical and milling quality of local rice variety and new superior varieties in Indonesia
		FSS2 027	Ismawati, S.TP., M.Sc	Tannins Contents in Tradisional Medicine Plants of The Sumenep Community
		FSS2 028	Mohammad Rizky	Formulation of Lemongrass and Lemon Essential Oil Nanoemulsion Stabilized with Soybean Protein Isolate and Lecithin
		FSS2 029	R. Amilia Destryana, M.P., M.Sc	Exploring Daily Diet and Physical Activity Habit Changes Associated with COVID-19 Pandemic: A case Study of Java Island
		FSS2 030	Listya Purnamasari, S.Pt., M.Sc.	Detection of Pesticide Residue in Forage for Dairy Farms in Jember District, East Java
III	08.40-09.10	FSS2 031	Dr. Nur Fathonah Sadek	Antioxidant, Anti-microbial, and Physical Properties Improvements of Turmeric (<i>Curcuma domestica</i> Val.) Effervescent Tablets with Stevia (<i>Stevia rebaudiana</i>) Leaf Powder
		FSS2 032	Ns. Tantut Susanto, S.Kep., M.Kep., Sp.Kep.Kom., Ph.D	Vegetable and Fruit Consumption and Body Mass Index Among Farmers: Data Analysis of the Integrated Non-Communicable Diseases Development Post of Jenggawah Public Health Center of Jember Regency in 2020
		FSS2 033	Dr. Nur Aini	Effect of packaging and storage temperature to quality and shelf life of corn-egg roll

Room SSP 1 - Smart Social and Politics in Industrial Agriculture

Session	Time (GMT+7)	ID	Name	Title
I	07.00-07.50	SSP1 001	H. Saediman	Consumer Perception Towards Hydroponic Vegetables
		SSP1 002	Ariq Dewi Maharani, SP, MP	FINANCIAL FEASIBILITY ANALYSIS AGROINDUSTRY OF CREATIVE ECONOMY PRODUCT FOR COASTAL COMMUNITY
		SSP1 003	Tamba Juan Livia	Analysis of Income the Rice (<i>Oryza sativa</i> L.) Farm in the Village Tani Aman District Loa Janan Ilir in Samarinda (Case Study : The Subur Aman Farmers Group)
		SSP1 004	Wiwit Rahayu, SP, MP	Determinants of Ready-to-eat Food Consumption in Central Java: An Evaluation of Healthy Food Concern in the Community
		SSP1 005	Adityo Wicaksono, S.Ds., M.Buss.	Cost-Benefit Analysis On Transforming Conventional Food Businesses into Canning Businesses During Covid-19 Pandemic
II	07.50-08.40	SSP1 006	Dra. Sofia, M.Hum.	Increasing the women's role in industrial agriculture through the development of cocoa-based agroindustry in rural area
		SSP1 007	Dr. Ir. Edison, M.Sc.	Technical efficiency in smallholders corn crop farming: Application of stochastic frontier production function
		SSP1 008	Samsul Alam Fyka, S.P., M.Si.	Feasibility Analysis of Application of Mina Padi System Innovation Technology on Rainfed Land in Realizing Farmer Welfare in South Konawe Regency
		SSP1 009	Dr. Muhammad Aswar Limi, S.Pi., M.Si	Profitability of Hydroponic Business in Kendari City During the Covid-19 Pandemic
		SSP1 010	Ir. Any Suryantini, MM, PhD.	Garlic Farming Efficiency in Central Java Province
III	08.40-09.30	SSP1 011	Resti Prastika Destiarni, S.E., M.Si	The Study of Law and Business Ethics to Support The Existence of Traditional Herb Business in Pamekasan Regency
		SSP1 012	Dr. Ir. Abdul Wahib Muhaimin, MS.	The Influence of Sustainable Marketing and Knowledge on The Purchase Decision of Organic Coffee in East Java Indonesia

Session	Time (GMT+7)	ID	Name	Title
		SSP1 013	Illia Seldon Magfiroh, S.E., M.P.	Farmer Response to The Implementation of Farmer Card
		SSP1 014	Dian Fajarika	Factor analysis of the oleochemical industry in downstream industrial development based on palm oil: evidence from Lampung Province
		SSP1 015	Dr. Isdiana Suprapti, S.P., M.M.	Niche marketing identification of Madura local corn marning
IV	09.30-10.30	SSP1 016	Neneng Kartika Rini, S.P.,M.P	THE ROLE OF MILLENIALS ORGANIC AGRICULTURAL STARTUPS IN INCREASING COMPETENCE, PRODUCTS, INCOME AND BUSINESS NETWORKS
		SSP1 017	Intan Kartika Setyawati, S.P., M.P.	Consumer Attitudes Towards Food Attributes Due to the Dynamics of Supply Shock Covid 19
		SSP1 018	Nihliatun Ni'mah, SP.	Chili Farmers' Willingness to Continue Keeping Contract Farming with Agro-Industry in Jember Regency
		SSP1 019	Novi Haryati, SP, MP	Opportunity Focused, Innovativeness and Resource Leveraging: A case study on smart business factors towards food industry competitiveness in New Normal Era
		SSP1 020	Dr. Lina Fatayati Syarifa	Analysis of Outlook and Short Term Forecasting For Indonesian Rubber
		SSP1 021	Lenny Widjayanthi, SP. MSc. PhD	CAPACITY OF RICE FARMERS IN USING MEDIA AND ACCESSING AGRICULTURAL INFORMATION IN JEMBER DISTRICT

Room SSP 2 - Smart Social and Politics in Industrial Agriculture

Session	Time (GMT+7)	ID	Name	Title
I	07.00-07.50	SSP2 022	Ciplis Gema Qoriah, S.E., M.Sc	Soybean Institutional Management Strategy in Indonesia: Value Chain and SWOT Approach
		SSP2 023	M. Abd. Nasir, S.E., M.Sc	Determinants of Tobacco Supply in Indonesia: Generalized Method of Moment Approach
		SSP2 024	Sri Ratna Triyasari, SP., MP.	FOMO: BRAND EXPERIENCE AND LOYALTY OF AUTHENTIC MADURA FOOD PRODUCTS
		SSP2 025	Dwii Nurul Amalia S.P M.Si	Income and Welfare of Liberica Coffee Farmers in West Tanjung Jabung Regency Jambi Province
		SSP2 026	Dwi Putri Jeng Ivo Nurun Nisa', S.P	Comparative Analysis of Indonesian Cocoa Competitiveness in the International Market
II	07.50-08.40	SSP2 027	Pramesti Rizma Dita Safitri, S.P	The Omni-channel Marketing Strategy and Customer Path in Fast Food Industries: A Comparison Study
		SSP2 028	Renno Setya Werdiavy S.P.	Improving Employee Productivity Through TQM Implementation: Case study in Cocoa Industry
		SSP2 029	Dr. Titik Ismandari, S.P.,M.Sc	Optimiation of Encapsulation Process of Karamunting Fruit (Rhodomyrtus Tomentosa, (w.ait), Myrtaceae) Powder from Tarakan Island as Antioxidant Sources
		SSP2 030	Dr. Ir. Joni Murti Mulyo Aji, M. Rur. M	SUPPLY CHAIN AND QUALITY MANAGEMENT OF ARABICA COFFEE: A CASE OF SMALLHOLDERSâ€™ AGRIBUSINESS IN BONDOWOSO REGENCY
		SSP2 031	Vella Tri Agustin, S.Agr	Pengaruh Kompensasi dan Komunikasi Serta_Komitmen terhadap Budaya Organisasi dan Kinerja Penyuluh Pertanian
III	08.40-09.10	SSP2 032	Nanda Rusti,S.P., M.Sc.	The Effect of Satisfaction and Competitive Advantage on The SMEs Sustainability of Local Coffee Shops: A Case in Yogyakarta, Indonesia
		SSP2 033	H. Saediman	Determinants of Value Addition in Copra Processing in Central Buton District of Southeast Sulawesi

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Session	Time (GMT+7)	ID	Name	Title
		SSP2 034	Dr. Abdul Mutolib	Level of Interest and Satisfaction of Farmers on Rice Farming Partnerships in Pamarican District, Ciamis Regency
	09.10=09.40	SSP2 035	Djoko Soejono, SP, MP	ESSENTIAL OIL AGROINDUSTRY: POTENTIAL AND DEVELOPMENT
		SSP2 036	Dr. Ir. Evita Soliha Hani, MP	Improved management services cafe and fishing pond Omahku based on protocol covid 19
		SSP2 037	Ainun Faidah	the effect of land tenure on farming income

Room SBA 1 - Smart Business for Agriculture and Healthy Food

Session	Time (GMT+7)	ID	Name	Title
I	07.00-07.50	SBA1 001	Putri Permatasari S.P., M.Si	Sustainability of Organic Rice Certification in the Rukun Makaryo Farmer Group, Pereng Village, Mojogedang District, Karanganyar Regency
		SBA1 002	Fanny Septya SP, M.Si	Does The Rice Agroindustry In Dumai City Develop Based On Marketing Analysis?
		SBA1 003	Prof. Dr. Ir. Soetriono, MP	SOYBEAN AGROINDUSTRY DEVELOPMENT PATTERN IN THE SCARCITY OF IMPORTED SOYBEAN
		SBA1 004	Ir. Cungki Kusdarjito, M.P., Ph.D	Population Density and the Pattern of Vegetable Cultivation in the Yogyakarta Agglomeration Area: Machine Learning Approach
		SBA1 005	Aditya Alqamal Alianta, S.Pt., M.Sc	Implementation and Success Rate of â€œ Unit Pengolahan Pupuk Organikâ€œ (UPPO) PROGRAM (Case Study on Koto Panjang Saiyo Farmers Group, Pauh, Padang City, West Sumatera)
II	07.50-08.40	SBA1 006	Djoko Soejono, SP, MP	DEVELOPMENT OF EDUCATION TOURISM BASED AGRICULTURAL THROUGH AHP (ANALYTICAL HIERARCHY PROCESS) APPROACH
		SBA1 007	Dina Roffida Haqqi Daqianus, S.P.	Indonesian Cocoas Export Commodity : A Comparison in Competition and the Affecting Factors
		SBA1 008	Tri Suwanto, S.Hut	Strategy to Increase Pine Sap Production in Banyuwangi Regency
		SBA1 009	Ananda Rizky Widodo	Diversification of Processed Mushroom Products to Support the Leading Potential of Gondangmanis Village
		SBA1 010	Imroatul Khoiriyah, S.Tr.P	Sustainability Analysis and Strategic Planning for Improving the Performance of the Coffee Agroindustry Supply Chain in Jember Regency
III	08.40-09.30	SBA1 011	Hanif Fakhri Suryono	Increasing the Institutional Capacity of Mushroom Processing Business Groups (KUPJ) through Partner Network Expansion
		SBA1 012	Dedi Darusman, Ir. M.Sc.	ANALYSIS OF THE EFFECTIVENESS OF FARMERS' FOOD CORPORATE PROGRAM AND ITS INFLUENCE ON BUSINESS SUSTAINABILITY PT. PAMARICAN VILLAGE PARTNER

Session	Time (GMT+7)	ID	Name	Title
		SBA1 013	Ahmad Musthofa Anshori	Family Medicinal Plant Business Development Strategy through Digital Marketing to Realize Competitive Village Superior Products
		SBA1 014	Ir. Amrizal Anas, MP	Stages and Measures of Artificial Insemination Innovation Adoption on Cattle Farmers in Agam Regency in West Sumatera
		SBA1 015	Okti Auliya Hapsari S.Tr.P	Analysis of Major Constraints on The Development of Non-Smoking Tobacco Derivative Products in Jember Regency
IV	09.30-10.20	SBA1 016	VIQEDINA RIZKY NOVIYANTI	Analysis of Sustainable Arabica Coffe Agribusiness Development Activities during the Covid-19 Pandemic in Ijen Raung, Bondowoso Regency
		SBA1 017	Mei Tri Sundari, SP, MSi	Analysis of Chili Demand in Indonesia
		SBA1 018	Mahdaviqia Dharmawan	Gazebo Semar: An Android-based Farmer Education Platform for Agricultural Waste Management
		SBA1 019	M. Afif Habibullah	Farmer Decision Making in the Adoption of New Planting Area Expansion Program (PATB) in Ngargotirto Village, Sumberlawang District, Sragen Regency
		SBA1 020	Melinda Puspita Sari , S.P	STUDY OF FARMER SATISFACTION LEVEL ON THE QUALITY OF AGRICULTURAL SERVICES IN THE MUANG IN ENVIRONMENT EXPLANATION LEMPAKE NORTH SAMARINDA DISTRICT
V	10.20-11.30	SBA1 021	Soetriorono and Annis Suciati	Policy and Strategy of Developing Competitiveness or Arabica Coffe Plant in Bondowoso Regency
		SBA1 022	Farid Akbar Al Hafiz, S.Pt	Communication Flow of Beef Cattle Farmers in Banyuasin Regency, Indonesia
		SBA1 023	Muhammad Safrudin Musthofa	Taruna Taniâ€™s Perception on the Pekarangan Pangan Lestari Progam in Karangbangun Village, Karanganyar
		SBA1 024	I Putu Eka Indrawan, ST., MT.	Entrepreneurial Attitude During the Covid-19 Pandemic Women Laborer in Traditional Markets
		SBA1 025	Angga Nugraha,	Resources on the Smallholder Dairy Cattle In Indonesia



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Session	Time (GMT+7)	ID	Name	Title
			S.Pt., M.Pt	
VI	11.30-12.20	SBA 026	Supardi Rusdiana	Financial Feasibility of Sheep Business through Improvement of Farmer Business Scale
		SBA 027	Satria Bayu Setyoaji, S.P.	Dynamics of Beef Imports in Indonesia
		SBA 028	Dr. Luh Putu Suciati, S.P, M.Si	Analysis of Farmer's Decision in Sugarcane Farming in Situbondo District, East Java
		SBA 029	Dr. La Sinaini, S.P., M.Si.	EFFICIENCY ANALYSIS AND CORN FARMING SCALE IN MUNA REGENCY, INDONESIA
		SBA 0	Dr. Ir. Rayuddin, M.P.	Pengembangan agroindustrial nilam (pogostem cablin benth) untuk meningkatkan pendapatan petani di kabupaten konawe utara, sulawesi tenggara, indonesia

**Thank You and Looking Forward to
See You at The Conference**





EXPLORATION OF PLANT RESOURCES PRODUCING SALICYLIC ACID AS A PROSPECTIVE NATURAL AGENTS INDUCING PLANT RESISTANCE

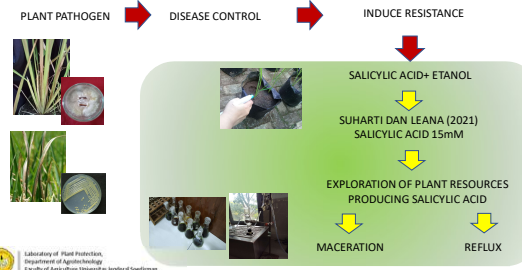
Woro Sri Suharti, Etik Wukir Tini, Nurtiati



The 5th International Conferences of Agriculture and Life Sciences 2021
University of Jember, 3-4 november 2021

Laboratory of Plant Protection,
Department of Agrotechnology,
Faculty of Agriculture Universitas Indraloka Soedjatmaja

INTRODUCTION



Laboratory of Plant Protection,
Department of Agrotechnology,
Faculty of Agriculture Universitas Indraloka Soedjatmaja

THE AIM OF THE RESEARCH

- to explore of plant resources producing salicylic acid
- to obtain the appropriate extraction methods for selected plant resources preparation.

The research is expected to provide the information related to plant resources with high salicylic acid content which could potentially become plant resistance-inducing agents.



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MATERIAL AND METHODS

> The plant material: 30 plant resources

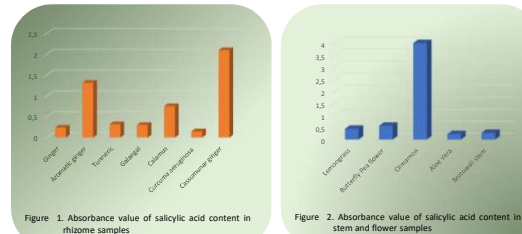
- rhizome part (ie ginger, aromatic ginger, turmeric, galangal, calamus, pink-blue ginger, and cassumunar ginger)
- leaves part (ie chamberbitter leaves, madagascar periwinkle leaves, december tree leaves, moringa leaves, soursoop leaves, heartleaf maderavine madevine leaves, fameflower leaves, ornamental pepper leaves, piper beetle leaves, barbados nut leaves, marsh fleabane leaves, snowberry leaves, brotowali leaves, bay Leaf, lemon basil leaves, sambong leaves, God's crown leaves, spiny amaranth leaves, sulfur cosmos leaves, mimosa leaves),
- stem-flower part (ie lemongrass, butterfly pea flower, cinnamon, aloe, and brotowali stem).

> Salicylic acid assay by spectrophotometer

> Extraction: maceration and reflux methods

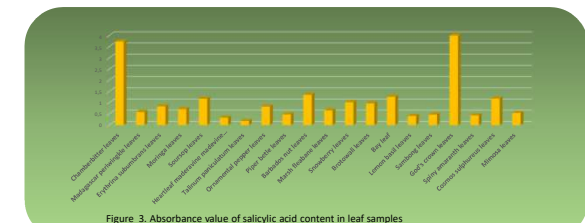
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RESULT AND DISCUSSION



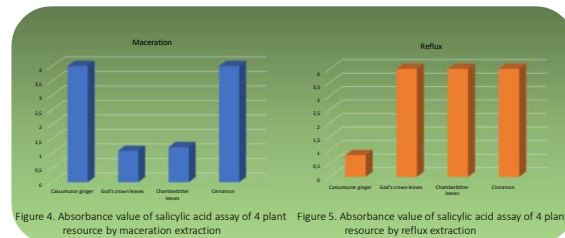
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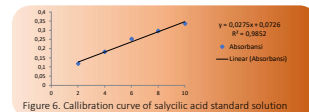
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Table 1. Salicylic acid content

No.	Sampels	Salicylic acid content (mg/ml)	
		Maceration	Reflux
1.	Cassumunar ginger	0,14	0,03
3.	God's crown leaves	0,04	0,14
4.	Chamberbitter leaves	0,04	0,14
5.	Cinamon	0,14	0,14

CONCLUSIONS

- There were four plant resources contain salicylic acid which have the potential ability as inducing agent for plant resistance, ie cassumunar ginger, God's crown leaves, chamberbitter leaves and cinnamon.
- Extraction by maceration technique is suitable for separating salicylic acid in cassumunar ginger, and cinnamon. while reflux extraction is suitable for chamberbitter leaves, God's crown leaves, and cinnamon.

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CERTIFICATE

No: 20830/UN.25/TU/ICALS/2021

This is to certify that

Woro Sri Suharti, S.P., M.P., Ph.D.

has attended as oral presenter following paper entitled:

Exploration of Plant Resources Producing Salicylic Acid as a Prospective Natural Agents Inducing Plant Resistance

at the 5th International Conference on Agriculture and Life Sciences
“Accelerating Transformation in Industrial Agriculture Through Sciences Implementation”
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