

7<sup>th</sup> International Conference Sustainable Agriculture, Food and Energy

### **SAFE 2019**

International Conference Sustainable Agriculture, Food and Energy. October 18-21, 2019 Phuket. THAILAND.

Conference Programme Papers Abstracts

GREEN AGRI-FOOD ENERGY PRODUCTION
FOR A BETTER WORLD IN A CHANGING CLIMATE

# SAFE NETWORK

Asia Pacific Network for Sustainable Agriculture, Food and Energy

www.safe-network.org

# 7<sup>th</sup>International Conference Sustainable Agriculture, Food, and Energy SAFE2019

October 19-21, 2019 Phuket Rajabhat University, Thailand

"Green Agri-food Energy Production for a Better World in a Changing Climate"

## CONTENTS

Welcome Message from SAFE-Network Coordinator Prof. Dr. Novizar Nazir

Welcome Remark from the Rector of Andalas University-INDONESIA, Prof. Dr. Tafdil Husni.

Welcome Remark from Local Conference Chairman/Country Coordinator SAFE-Network (Thailand)
Assoc.Prof. Sermklat Jomjunyong, Ph.D

Welcome Remark from the President of Phuket Rajabhat Univerity, Asst. Prof. Hiran Prasankarn, Ph.D.

54FE2019 Committee

Virtual Farm Academy

SAFE2019 Program

List of Abstract based on Code of Sub-theme

Abstracts

SUB-THEME 1 Agriculture Science and Technology (AST)

SUB-THEME 2 Energy (Energy)

SUB-THEME 3 Environment (Environment)

SUB-THEME 4 Food Science and Technology (FST)

SUB-THEME 5 Green Production and Innovation (GPI)

SUB-THEME 6 Product Development (PD)



# WELCOME MESSAGE FROM SAFE-NETWORK

Welcome to the International Conference on Sustainable Agriculture, Food, and Energy (SAFE 2019)

We are proud to welcome you to the International Conference on Sustainable Agriculture, Food, and Energy (SAFE2019): Green Agri-food Energy Production for a Better World in a Changing Climate" which will be held from October 19-21, 2019 in Phuket, Thalland. The host institution are Phuket Rajabhat

University, Chiang Mai University and Chiang Mai Rajabhat University. This conference is the 7th annual conference after the 1<sup>st</sup> International Conference on Sustainable Agriculture, Food, and Energy (SAFE2013) in Padang, Indonesia (12-14 May 2014), the 2<sup>std</sup> conference SAFE2014 in Ball, Indonesia (17-19 September 2014). The 3<sup>std</sup> conference SAFE2015 in Ho Chi Minh City, VIETNAM (17-19 November 2015), 4<sup>std</sup> conference SAFE2016, Colombo, Sri Lanka (October 20-22, 2016), the 5<sup>std</sup> conference SAFE2017, Malaysia, August 22-24, 2017 and and 5<sup>std</sup> SAFE2018 Conference is Makati, Manila PHILIPPINES

Aside from the conferences, workshops and short course programs, SAFE-Network has expanded to producing SAFE Rice Project as an output of organic rice research conducted by Malaysian and Indonesian faculty-researchers. As the Network grows, the Network plans to embark on innovative platforms where "sustainability" can be served best especially to some group of learners who do not have sufficient background in agriculture science. The Network chooses Philippines, particularly CBSUA, to initially host the Virtual Farm Academy in collaboration with SAFE Network and eventually with universities from Malaysia, Indonesia, India, Pakistan, Iran, Thailand, Japan, Taiwan, Sri Lanka. Australia and Bangladesh who are also active members of the Network. CBSUA will take the lead in facilitating the modules to online participants and take the necessary actions in expediting the modular classes. The Network Head Coordinator, together with CBSUA President shall issue certificates of program completion to registered participants. We express our deep gratitude for the support given by Dr. ALBERTO N. NAPERI the President of CBSUA. The virtual farm academy will be launched in the opening ceremony of SAFE2019 and we invite all of us to discuss the operational plan of this Virtual Academy on October 19, 2019 in Phuket.

On behalf of SAFE-Network, we would like to say thanks and convey our appreciation to the Phuket Rajabhat University, Chiang Mai University and Chiang Mai Rajabhat University for co-hosting this conference.

We would like especially to thank Prof. Dr. Tafdil Husni, Rector of Andalos University for his strong support to this event, Assoc Prof. Sermkiat Jomjunyong, Ph.D., Local Conference Coordinator, Dr. Worajit Setthapun, Conference Secretary and the members of the local organizing committee who helped with all the preparations required to make the conference a success, as well as the session organizers who worked to ensure a high level of science presented at the meeting. Moreover, of course, we thank all honorable speakers and participants who have agreed to attend and discuss your work! Finally, please understand that while every effort was made to publish this book as the final" program, we know that unavoidable withdrawals and other changes will occur.

Welcome to SAFE-2019, Phuket! Please enjoy the friendship! One planet! One happiness! Friendship creates wonders!

Prof. Dr. Novizar Nazir SAFE-Network Coordinator



# MESSAGE FROM THE RECTOR OF ANDALAS UNIVERSITY-INDONESIA

I would like to congratulate and convey my gratitude to the SAFE Network for undertaking the Sawasdi khap. initiative to organize SAFE2019 (7" International Conference on Sustainable Agriculture, Food, and Energy). Andalas University is delighted to be the organizer of this conference since the 1<sup>st</sup> International Conference on Sustainable Agriculture, Food, and Energy (SAFE2013) in Padang, Indonesia (12-14 May 2014), the 2<sup>nd</sup> conference of SAFE2014 in Bali, Indonesia (17-19 September 2014), the 3<sup>rd</sup> conference of SAFE2015 in Ho Chi Minh City, VIETNAM (17-19 November 4th conference (SAFE2016) in Colombo, Sri Lanka, October 20-22, 2016, the 5th conference SAFE2017, Malaysia. August 22-24, 2017 and 6th 5AFE2018 Conference is Makati, Manila (Philippines).

The theme of this year's conference is " Green Agri-food Energy Production for a Better World in a Changing Climate". Climate change is one of the most complex problems we face today. This issue involves many dimensions - science, economics, society, politics and morals and ethical questions and are global problems, felt on a local scale, which will exist for decades and centuries to come. Activities in the agricultural, food and energy sectors are sectors that have an impact on climate change, but on the other hand, that are heavily affected by climate change itself. Therefore, the participation of the scientific community from universities and research institutions to address the problems related to climate change is highly expected.

Through the conference, we hope to generate substantial contributions to create a better solution and new value on sustainability and sustainable development of agriculture, food, and energy. We are confident that valuable innovation that can change or create more efficient processes, products and ideas are forged after attending this conference. Sustainability is a difficult issue and complex. It is not a goal but a process. I would like to thank the organizing committee and the co-organizer institutions for the hard work and full commitment in preparation of this conference.

Finally, we congratulate Phuket Rajabhat University, Chiang Mai University and Chiang Mai Rajabhat University for hosting this conference. My personal respect and thanks go to all participants. Please enjoy the friendship, enjoy the culture of Thailand) I wish you an enjoyable and memorable conference in Phuket.

Khawp khun khap!

Prof. Dr. Tafdil Husni Rector of Andalas University



# OPENING AND WELCOME MESSAGE BY CONFERENCE COORDINATOR

Assoc.Prof. Sermkiat Jomjunyong, Ph.D., Country Coordinator of SAFE-Network (THAILAND) Faculty of Engineering. Chiang Mai University.

Prof. Dr. Tafdil Husni, Asst.Prof.Dr. Hiran Prasarnkarn, Dr. Alberto N. Napen and Prof. Dr. Novizar Nazir, Distinguished participants, Ladies and Gentlemen:

It gives me a great pleasure to welcome all of you and chair the Opening Ceremony this morning to the "International Conference on Sustainable Agriculture, Food, and Energy (SAFE 2019)" Green Agri-food Energy Production for a Better World in a Changing Climate" which will be held from October 18<sup>th</sup> - 21<sup>st</sup>, 2019. Phuket, Thailand. The host institution is jointly organized by SAFE Network, Chiang Mai University, Chiang Mai Rajabht University, Phuket Rajabhat University, THAILAND and ANDALAS University, INDONESIA.

SAFE Network is an Asia Pacific network of university and college educators, researchers, and activists, who collaborate in analysis, synthesis, connecting and educating the people for a better economy, ecology, and equity in agriculture, food and energy system.

This conference is the seventh conference since the year 2013 to 2018. The SAFE 2019 conference will provide us not only essential knowledge but also a great opportunity to share experiences both technical and regulatory issues.

our honorable speakers. All of them have been working with us since the beginning of the planning stage and they are still here today for all of us, even though they are both very busy with their responsibilities at their agencies. We truly appreciate your dedication. Again, this conference program could not have been made possible without SAFE Network and Phuket Rajabhat University, THAILAND.

Finally, this is an opportune time for me to declare the official opening of the "SAFE 2019" and I wish at 4 fruitful days of interesting and beneficial program and also that you have a pleasant stay in Fluxet.

I warmly welcome you again.

Assoc.Prof. Sermkiat Jomjunyong, Ph.D.

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# WELCOME SPEECH BY PRESIDENT OF PHUKET RAJABHAT UNIVERSITY

Welcome All delegates,

I am pleased to welcome you to this landmark conference on the International Conference on Sustainable Agriculture, Food, and Energy (SAFEZU19): Green Agrifood Energy Production for a Better World in a Changing Climate" which held from October 19-21, 2019 in Phuket, Thailand. Through this conference, we would like to engage with all of you in an open and constructive dialogue about resources and opportunities to interact with prominent leaders in the field of sustainability and greatly expand your global network of scholars and professionals This event aims to bring together people from different areas and interests to share ideas, explore various discussions, maintain existing connections, establish new connections and partnerships, and share the achievements of the work.

I am honored and delighted to greet you all at the 7th International on Conference Sustainable Agriculture, Food, and Energy or SAFE 2019. For this The conference which brings together experts and academics from around the world, especially ASEAN Country. There are many sessions regarding keynote speech, oral presentation, and poster presentation etc. You can network and learn with the professionals in this conference.

I would like to thank you to our partners with the good relationship for long time. I am happy to see all of delegates in this international conference. I am sure that everyone will find the conference and your stay in Phuket both valuable and enjoyable.

Asst. Prof. Hiran Prasankarn, Ph.D. President of Phuket Rajabhat University.

### Patron

Prof. Dr. Tafdil Husni, The Rector of Andalos University. Indonesia. Asst.Prof.Dr. Hiran Prasarnkarn, The President of Phuket Rajabhat University-THAILAND

### Executive Chairman |

Prof. Dr. Novizar Nazir-Andalos University-INDONESIA

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Assoc.Prof. Sermkiat Jomjunyong, Ph.D., Country Coordinator (THAILAND) Faculty of Engineering . Chiang Mai University.

### Conference Secretary

Dr. Worajit Setthapun, Dean of Asian Development College for Community Economy and Technology (adiCET) Chlang Mai Rajabhat University-THAILAND HP:+66 53 885 871. E-mail: worajit@gmail.com

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Nia Boru Ritonga, Andalos University-INDONESIA

Mentari Larashinta, Andolos University-INDONESIA

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Dr. Saiful Irwan Zubairi-Universiti Kebangsaan Malaysia, MALAYSIA

## SAFE2019 PROGRAM

DAY 0: Thursday, October 17 2019

ARRIVAL OF PARTICIPANTS AND SECRETARIAT MEMBER & CHECK IN HOTEL: METROPOLE PHUKET HOTEL

DAY 1: Friday October 18 2019

PHI PHI ISLAND TOUR

SAFE Secretariat arrange Phi Phi Island Tour/participants should pay)

DAY 2: Saturday, October 19, 2019

10.00-12.00 AM NETWORKING DISCUSSION

Agenda: Virtual Farm Academy, Conference, Workshop, Summer Course, Collboration

Venue: METROPOLE PHUKET Hotel, THAILAND

01.00-09.00 PM PRE-CONFERENCE TOUR (FREE FOR PARTICIPANTS)

Starting Point: METROPOLE PHUKET Hotel, THAILAND

DESTINATION: Phuket Old Town, Karon View Point, B'g Budda, Wat Chalong Temple, Promtep Sunset, Chilva Market

07.30-09.45 PM | WELCOME DINNER:

SAFE Network will provide food and drink Registration: OC will provide conference kits Venue: METROPOLE PHUKET Hotel, THAILAND

08.15-08.30 PM

INVITED SPEAKER

AGRICULTURE, FOOD, ENERGY, AND SUSTAINABILITY IN NEPAL

Prof. Dr. Megh Raj Pokhrel

Central Department of Chemistry, Tribnuvan University, Kirtipur, Kathmandu. Nepal

Venue: METROPOLE PHUKET Hotel, THAILAND

## VENUE: PHUKET RAJABHAT UNIVERSITY, PHUKET-THAILAND

		Opening Ceremony Venue: PKRU CONVENTION HALL Person in Charge/MC: Dr. Worajit Setthapun, AciCET, Chiang Mai Rajabbat University, THAILAND
WANTED STATE OF THE PARTY OF TH	7,30-8,00 AM	Registration
8.15-8.25	Thalland National Anthem Indonesia National Anthem	THE PROPERTY OF THE PARTY AND
8.25-8.30	Conference Program Introduction by Local Conference Coordinator, D. UNIVERSITY (CMU). THAILAND	r. Serklyat Jornjunyong, SAFE-Network National Co-ordinator (THAILAND). CHIANG MAI
8.30-8.35	Welcome Remark from Rector of Andalas University, Prof. Dr. Tafdil H	lusni
8.35-8.40	Opening Remark from President of Phuket Rajabhat University, THAIL	AND. Asst.Prof.Dr. Hiran Prasarnkarn
8.40-9.00	to a contract Dt. Los Datables (Leismedia, /DRII)	Or. Novizar Nazir (SAFE-Network) to the host of SAFE2019: Andalas University, Chiang Mai yat Jomjunyong, and Local Conference Secretary, Dr. Worajit Setthapun,
海路多次M	KEY NOTE ADDRESS:	A Company of the Comp
	Session Chair: Dr. Norman de Jesus, (Country Coordinator, Phil	ippines). Pampango state Agricultural University, Primppines
9.00-9.30	The Concept of Virtual Farm Academy Prof. Dr. Helmi, Andalas University-Indonesia Dr. Hanllyn Hidalgo, Central Bicol State Agricultural University (CBSUA)	l). Philippines
9.30-9.40	Discussion	
9.40-9.45	Signing Coremony of Letter of Intent on the Establishment of Virtual 6	Farm Academy between SAFE-Network and CBSUA, Philippines
9.45-10.00	COFFEE BREAK	
	Plenary Session I  Venue: Main Conference Room	Plenary Session II Venue

	Session Chair: Prof. Dr. Manggala de Chatura, (Country Coordinator, Sri Lanka). University of Ruhuna, Sri Lanka	Session Chair: Dr. Worajit Setthapun, AdiCET. Chiang Mai University, Thailand Note: The time allocated for each speaker is 20 minutes, consisting of 15 minutes for presentation and 5 minutes for question and answer
10.10-10.30	INVITED SPEAKER 1:  EMERGING PLASMA TECHNOLOGY FOR NEXT GENERATION AGRICULTURE AND FOOD PROCESSES  Prof. Jeon Geon Han Thai-Korea Collaboration Research Center, Chiang mai University, Thailand Center for Advanced Plasma Surface Technology, Sungkyunkwan University, Republic of Korea	INVITED SPEAKER 5: TOWARD SUSTAINABLE TRANSPORT VIA ASEAN FUEL ECONOMY ROADMAP Dr. Nuwong Chollacoop Lab Head, Renewable Energy Laboratory National Metal and Materials Technology Center (MTEC), National Scrence and Technology Development Agency, Thailand
10.30-10.50	SUSTAINABLE DRYING SYSTEMS FOR AGRICULTURAL CROPS IN RURAL COMMUNITIES  Romualdo C. Martinez, Ph.D. Chief Science Research Specialist Philippine Center for Postharvest Development and Mechanization (PhilMech) Munoz, Nueva Ecija, Philippines	INVITED SPEAKER 6: CONVERSION OF AGRI-WASTE INTO BIOMASS ENERGY INTEGRATED WITH MICROGRIDS Assoc.Prof. Keng-Tung Wu, PhD Director, Industry Promotion Office for Southeastern Asia (IPOSA) Head, Planning & Marketing Division, International College of Innovation and Industry Liaison (ICIIL). National Chung Hsing University, Talchung, Taiwan (ROC)
10.50-11.10	INVITED SPEAKER 3:  ENABLING ENVIRONMENT FOR ENTREPRENEURSHIP & DISRUPTIVE TECHNOLOGY  Dr. Wilbool Plyawattanametha Director, Advanced Imaging Research Center Department of Biomedical Engineering, Faculty of Engineering King Mongkut's Institute of Technology Ladkrabang (KMITL), Thailand	10.50-11.00 Presenter 1: AN OVERVIEW OF COMMUNITY EMPOWERMENT BY SOLAR ENERGY Dr Vivek Mandot V. K. B. Government Girk' College, Oungarpur, Rajaasthan 31/8001, India 11.00-11.20 Presenter 2: COMPOSITIONAL ANALYSES OF SELECTED LIGNOCELLULOSIC BIOMASS FROM MALAYSIA AGROWASTE USING VAN SOEST METHOD Dr. Masita Mohammad Solar Energy Research Institute, SERI, UKM, Malaysia 11.20-11.30 Presenter 3: PRODUCTION OF BIOGAS FROM PALM OIL MILL EFFLUENT WITH INDIGENOUS BACTERIA Prof. Dr. Muhammad Said Chemical Engineering Department, Faculty of Engineering, Universitas Sriwijaya
1,10-11.30	INVITED SPEAKER 4:	

11.30-12.00	TRANSFORMATION OF GADONG TUBER STARCH INTO SOPHISTICATED MATERIAL Assoc. Prof.Dr. Azwani Mat Lazim Universiti Kebangsaan Malaysia. Malaysia DISCUSSION	11.30-13.00 Venue: Room1 Presentation:	
		Energy-005 Energy 06 Energy 07 Energy 08 Energy 09 Energy-011 Energy 015 Energy 014 Energy 015 Energy 010 Energy 017 Energy 015 Energy 020 Energy 021 Energy 023 Energy 024 Energy 025 GPI-97	
2.10-13.30	BREAKOUT SESSION 1 Venue: Room 1-8		
3 00-14.00	LUNCH BREAK		

DAY 3: Sunday, October 20, 2018

### VENUE: PHUKET RAJABHAT UNIVERSITY, PHUKET-THAILAND

12.05- 13.00	CHAIR: Dr. F	ssion 1 (Previous Speak Ravindra Joshi, Country , Rahmanta Setiahadi (	Coardinator (Fiji	and Pacific Island	J))			
Paralliel Session	Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7	Room 8
12.05-12.15	Energy	THE REGIDNAL LAND LISE CONTROL FOR SUSTAINABLE AGRICULTURE. Mellinde Noer, Andalas University, Indonesia	BROGERTILIZERS INCREASES THE GROWTH AND VIELD OF EDAMANIE SOVBEANS ON THE COASTAL SOE OF RENGELL U, PRODUCTIA Abimanyu Dipo Nusantara, Univ. Bengkulu, Indonesia	CATECHIA, EPICATECHIN AND EPIGALLOCATECHIN CALLATE OF GAMBIR TEA WITH TELANG PROMENT. Tuty Anggrains, Andalas University, Inconesia	THE HOUSTIC COMPONENTS OF CATTLE PRODUCTION FOR SOLVING THE HAZE IN CHANG MAI Sermiliat Tompunyong, EMU Thilliand	SOLATION AND CHARACTERIZATION OF POTENTIAL PROBROTIC YEAST FROM FISH HERMENTED Yetti Marlida, Andalas University. Indonesia	VOLUME AND AVAILABILITY OF BANANA AND WATER ULY AND THEIR LTILIZATION AS CEED INGREDIENTS FOR GOATS IN LUZON- PHILIPPINES. Norman de Jesus, PSAU. Philippines	EFFECTS OF BACILLIS THURINGENSIS- BASTO BIOS. RISECTICIDES ON THE PRESENCE OF INSECTS AND THEIR LEVEL OF ATTACK. ON MELON FRUIT CULTIVATION IN POLYBAGS Yulia Pujlastuti. Unstri. Indonesia
12.15-12.20	Energy	GPI-01	AST-01	PD-02	Environment-15	FST-02	GPI-11	AST-11
12.20-12.25	Energy	GPI-02	AST-02	PD-03	Environment-16	F5T-05	GPI-12	AST-12
12.25-12.30	Energy	GPI-03	AST-03	PD-06	Environment-17	FST-06	GPI-12	AST-13
12.30-12.35	Energy	GPI-D4	AST-04	PD-08	Environment-18	FST-07	GPI-14	AST-14
12.35-12.40	Energy	GPI-06	AST-D6	PD-10	Environment-19	FST-08	GPI-17	AST-15
12.40-12.45	Energy	GPI-07	A51-09	PD-12	Environment-20	FST-09	GPI-18	The state of the s
12.45 12.50	Energy	GPI-08	A5T-10	PD-14	Environment-21	FST-10	GPI-20	AST-16 AST-17
12 50-13.00	Q&A	Q&A	Q&A	Q&A	Q&A	Q&A	Q&A	Q&A

14.00-15.35 Breakout Session 2 (Previous Speaker will invite the next speaker to present, etc) Chair: Assoc,Prof.Dr. Nurul Huda, Country Coordinator (Malaysia)
Setretary: Dr. Leily Nurul Komariah (Sriwijaya University, Indonesia)

			Room 3	Room 4	Room 5	Room 6	Room 7	Room 8
Paralilel	Room 1	Room 2	RDOM 3	Noons 4.		4		
Session 14.00-14.10	MODELING VISCOPLASTIC PROPERTIES OF GLUTEN-FREE RED RIDNEY SCAN NOCOLE Pavalee Chompoorat Postharvest program in Faculty of Engineering and Agro-Industry, Maejo University, Thalland	THE MORPHOLOGY OF CHEMBU SWEET POTATO AFTER COOKED BY BOILING IN WATER, BAKED AND MICROWAVE IRRADIATION.  Bohari M. Yamin.  UKM, Malaysia	WATER RAINFALL HARVESTING QUALITY AS A FERTIGATION RESOURCES USING AUTOPOT TOMATO CHERRY ISOLANUM L. VAR CERASFORME) QUALITY. Nurpillhan, Unpad. Indonesia	THE FFFECT DE PROBIOTIC SUPPLEMENTATION ON LIVER BIOCHEMSTRY AND COLON MORPHOMETRIE IN BROILER CARCASS AT POST TRANSPORTATION ROOSTITA L. Balla, Universitas Padjadjaran, Indonesia	O MOTHER EARTH-IS THE SOIL IN YOU IS SAFE FOR AGRICULTURE-7: AN EAST METHOD TO FIND IT SAFE!  G.R. Rajakumar, AICRP for Dryland Agriculture. India	FRACTIONALIEN, ISOLATION AND CHARACTERISATION OF OIL PAILM FRONDS XYLOOLIGOSACCHARIDES TA POTENTIAL SOURCE DE PREBIOTES. Sabiha Hanim Saleh, UITM. Malaysia	THE HALAL FOOD PROFILE IN THAI CONSUMER ATTITUDE BY USING FLASH PROFILE METHOD Kallayanee Tengpongsathon . King Mongkut's Institute of Technology Ladkrabang, Thailand	IMPROVEMENT of MANGO PROBUCTION through SCIENCE and TECHNOLOGY INNOVATIONS and SUPPORT MECHANISMS for CAPACITY DEVELOPMENT IN BATAAN and ZAMBALES Hermogenes M. Paguia, Bataan Positiosula State University, Philippines
	GPI-21	GPI-40	AST-18	PD-15	Environment-02	FST-11	GPI-59	AST-36
14.10-14.15	GPI-22	GPI-41	AST-19	PD 16	Environment-03	FST-12	GPI-60	AST-37
14.20-14.25	GPI-23	GPI-43	AST-20	PD-17	Environment-04	FST-13	GPI-61	AST-38
14.25-14.25	GPI-24	GP1-44	AST-21	PD-18	Environment-05	FST-14	GPI-62	AST-39
14.30-14.35	GPI-25	GPI-45	AST-23	PD-19	Environment-06	FST-15	GPI-63	AST-40
	GPI-26	GPI-46	AST-24	PD-20	Environment-07a	FST-16	GPI-64	AST-41
14.35-14.40	GP1-28	GPI-47	AST-25	PD-21	Environment-08	FST-17	GPI-65	AST-42
14.45-14.50	GPI-29	GPI-48	AST-26	PD-22	Environment-11	FST-18	GPI-67	AST-43
14.45-14.50	GPI-30	GPI-49	A5T-27	PD-23	Environment-12	FST-19	GPI-68	AST-45
	GPI-31	GPI-50	AST-28	PD-25	Environment-13	FST-20	GPI-69	AST-46
14.55-15.00	GP1-32	GPI-51	AST-29	PD-26	Environment-22	FST-21	GPI-70	AST-47
15.00-15.05	GPI-33	GPI-52	A5T-30	PD-27	AST-53	FST-22	GPI-71	AST-48
15.05-15.10	GPI-34	GPI-53	A5T-31	PD-28	AST-54	FST-25	GPI-73	AST-49
15.10-15.15	GPI-35	GPI-56	AST-33	PD-29	AST-55	FST-26	GPI-73	AST-50
15.15-15.20		GPI-57	AST-34	PD-30	AST-S6	FST-27	GP1-74	AST-51
15.20-15.25	GPI-38 GPI-39	GPI-58	AST-35	PD-31	AST-57	FST-28	GP1-75	AST-52
15.25-15.30	Q&A	Q&A	Q&A	Q&A	Q&A	Q&A	Q&A	Q&A

			1	DD 53	PD-72	101115	SPI-123	GPI-114
17.45-17.50	AST-80	AST-103	AST-123	PD-52				CDI 445
	ACT OIL	AST-104		PD-53	PD-74		GPI-124	GPI-115
17.50-17.55	AST-81		1000000		004	Q&A	Q&A	Q&A
17 55-18 10	O&A	Q&A	Q&A	Q&A	Q&A	Light	Story	

### 18.10 –18.20 CLOSING CEREMONY

### KEY POINTS/HIGHLIGHT FROM THE SESSIONS

Dr. Worajlt Setthapun (CMRU, Thailand), Local Conference Secretary

Dr. Helen Martinez, SAFE2019 Networking Meeting Secretary, Philmech, Philippines

Dr.Irawati Chaniago, SAFE-Network Secretory, Andolos University-INDONESIA

Closing Message: Dr. Sermklat Jonjumnyong, Local Conference Coordinator. CMU, Thailand

AST-Agricultural Science and Technology|
FST-Food Science and Technology|
PD-Product Development |
GPI-Green Production and Innovation |
Energy-Energy |
Environment-Environment |

# LIST OF PAPER BASED ON SUB-THEME

Name .	Affiliation	Title	Code
		Agricultural Science and Te	AND DESCRIPTION OF THE PERSON NAMED IN
War Arfani Banus	Total control of		
	Universitas Muhammadiyah Sumatera Utara	Morphophysiology Characteristics and Production of Some Varieties of Paddy on Saline Soil by Antioxidant Application	AST-01
Mick Designi Dage	Faculty of Agriculture, University of Jambi	ORGANIC FERTLIZERS FOR SUSTAINABLE AGRICULTURE AND SOYBEAN (GLYCINE MAX L) GROWTH AND YIELD	AST-02
Wifest	Faculty of Agriculture, Universitas Jambi	MODEL of AGROECOSYSTEM MANAGEMENT as RESERVOIR (BANK) NATURAL ENEMY IN RICE AGROECOSYSTEM	AST-03
Titles	Universitas Jambi	SUPPLY RESPONSIVENESS MODEL OF CORN IN TANIAB TIMUR DISTRICT: APLICATION WITH META RESPONSE FUNCTION	AST-04
Name .	Faculty of Agriculture, Universities Jambi	IDENTIFICATION OF GENETIC CHARACTERISTICS OF LOCAL RICE FIELDS OF ORIGIN JAMBI	AST-05
Michigan Saputra	Faculty of Agriculture, Universitas Jambi	Influencing Factors of potatoes Production in Merangin Regency	A\$T-06
lists.	Sekolah Tinggi Ilmu Pertanian, Graha Karya ( STIP- GK) Jambi	The effect of goat urine liquid as organic fertilizer on the growth of oil palm seedlings in ultisol soil	AST-07
Minimunes Digo Minimunes	Faculty of Agriculture, Universitas Bergkulu	BIOFERTILIZERS INCREASES THE GROWTH AND YIELD OF EDAMAME SOYBEANS ON THE COASTAL SOIL OF BENGKULU, INDONESIA	AST-08
Soften.	Faculty of Agriculture, Universitas Bengkulu	USING BIOFERTILIZER TO INCREASE PEANUT GROWTH AND YIELD ON COASTAL SOIL OF BENGKULU, INDONESIA	AST-09
Lhurjo	Faculty of Agriculture, Universitas Bengkulu	BREAKING THE DORMANCY OF POTATO SEEDS AND PROMOTING SEEDLING GROWTH BY NATURAL PGR EXTRACTED FROM SHALLOT (Allium ascalonicum L.)	AST-10
Ratiowed.	Faculty of Agriculture, Universitas Bengkulu	EFFECTIVENESS OF MYCORRHIZAL APPLICATION IN SALINE SOIL TO IMPROVE GROWTH AND YIELD OF MAIZE	AST-11
limit Herson	Universitas Bengkulu	GROWTH AND YIELD RESPONSE OF FOUR CHILI PEPPER (Capsicum annuum L.) HYBRIDS TO NPK FERTIGATION IN ULTISOL	AST-12
Neng-Herawati	Universitas Bengkulu	CORRELATIONS and PATH ANALYSIS to DETERMINE the SELECTION CHARACTERS on NEW-TYPE UPLAND RICE	AST-13
laid femaless	Universitas Bengkulu	TEMPORAL AND VERTICAL CHANGES IN VOLUMETRIC WATER CONTENT AT FOUR CONTRASTING-TEXTURED SOILS	AST-14
Imang Pamekas	Faculty of Agriculture, Universitas Bengkulu	Pre Nursery Palm Oil Resistance Response to Stem Rot using Culture Filtrate of Irichoderma sp.	AST-15
HAPLESA HITTIG	Faculty of Agriculture, Universitas Bengkulu	New Invasive Pest, Spodoptera frugiperda (Lepidoptera: Noctuidae) and its Natural Enemies Attacks on Corn in Bengkulu	AST-16
laments (private)	Faculty of Agriculture, Universitas Bengkulu	EFFECTIVENESS OF TWO BIOPESTICIDES TO CONTROL TWO LEPIDOPTERAN SPECIES OF CITRUS PESTS IN BENGKULU, INDONESIA	AST-17
no bosman	Faculty of Agriculture, Universitas Bengkulu	INFLUENCE OF MEDIA PROPAGATION AND EFFECTIVENESS OF SELECTED STREPTOMYCES TO CONTROL BACTERIAL WILT DISEASE IN PEANUTS	A57-18
Sin Subwest	Faculty of Agriculture, Universitas Bengkulu	Seed-transmitted Potency of Cowpea mild mottle virus (CPMMV) on 10 Varieties of Soybean in Indonesia	AST-19
Name Provide	Faculty of Agriculture, Universitas Bengkulu	TOU BIODUNCION PROPERTY.	AST-20
iffstand	Universitas Sriwijaya	THE EFFECTS OF PROBIOTIC FROM Hymenache acutigluma SILAGE TO THE LENGHT OF SMALL INTESTINE AND CAECA IN PEGAGAN DUCKS	AST-21

ulia Pujiastuti -	P	Hects Of Bacillus Touringiensis-Based Bio-Insecticides On The resence Of Insects And Their Level Of Attack On Melon Fruit Jultivation in Polybags	AST-22
Mery Hasmeda		MOLECULAR ANALYSIS OF CROSSING BETWEEN BLACK RICE	AST-23
aila Hanum	Universitas Sriwijaya (	SENETIC DIVERSITY OF LOCAL RED RICE FROM SOUTH SUMATRA USING SPECIFIC MOLECULAR MARKERS FOR ENCODE PROANTHOCYANIDIN PROTEIN	AST-24
Me sji Llana Sari	Universitas Sriwijaya	The Effect OF Provision Wuluh Star Fruit Solution (Averrhoa Blimbl L.) To Carcass Weight And Commercial Carcass Slices Of Pegagan Ducks	AST-25
Yuanita Windusari	Universitas Sriwijaya	Genetic variability Of Swamp Buffalo (Buballs buballs Linn.) South Sumatera Based On Polymerase Chain Reaction-Random Amplified Polymorphic DNA (PCR-RAPD)	AST-26
Yuanita Winduseri	Faculty of Agriculture,	PREFERENCE FOR LANDING AND BITTING OF MOSOUITOES BASED ON BLOOD TYPE: Case study in the Kemelak Bindung Langit Village, Ogan Komering Ulu District, South Sumatra	AST-27
Weri Harlin	University Crimina	Antifeedant and mortality activity of Ageratum conyzoides, Tithonia diversifolia and Cuscuta australis on Crocidolomia pavonana Fabricius (Lepidoptera: Pyralidae)	AST-28
Aptriansyah	Universitas Sriwijaya	THE COMPARISONS OF Hymenachne acutigluma SILAGE QUALITY INOCULATED WITH EM-4, RUMEN FLUID AND RICE RINSED WATER	AST-29
Susanda Nurdin Suparman Suparman	Department of Plant Protection, Faculty of Agricultue, Universitas Sriwijaya	Transmission of Pepper Yellow Leaf Curl Virus in Different Varieties of Pepper	AST-30
Warmanti Mildaryoni	Universitas Mercu Buana Yogyakarta, Doctoral Student, UNS Surakarta	RELATIONS OF PLANTS AGE WITH PHYSICAL AND CHEMICAL PROPERTIES OF MATERIAL DEPOSITS IN OIL PALM LEAF AXILL.	AST-31
Ir. Nurpilihan Bafdal,M.Sc	Universitas Padjadjaran	Water Rainfall Harvesting Quality as a Fertigation Resources Using Autopot Tomate Cherry (Solanum L. Var Cerasiforme) Quality	AST-32
Berty Natalie Fitriatin	Universitas Padjadjaran	Effects of biofertilizers (N-fixers and P-solubilizers) and organic ameliorants on yiled of upland rice	AST-33
Stefina Liana Sari	Faculty of Agriculture, Universitas Padjadjaran	Utilization of CuSO4 in Liquid Fertilizer Formula to Prevent a  Decrease in Red Chili Production	AST-34
Fardian Khairul Hakim	Faculty of Agriculture, Universitas Padjadjaran	Effect of N, P, K and Ca. Mg Fertilizers, on pH, Ca-dd, Mg-dd, Ca, Mg Uptake, Growth and Yield of Sweet Corn (Zea mayssaccharata L) on inceptisols	AST-35
Bambang Puliasmanto	FP, Universitas Sebelas Maret, Surakarta	The effect of colchicing on the performance of Sambiloto plants (Andrographis paniculata Nees.)	AST-36
Etty Handayani	Doctoral Program of Agricultural Science, Universitas Sebelas Maret, Surakarta	Analysis Diversity of Indigenous Kepel (Stelechocarpus burahol (BL) Hook, F & Thomson) in Yogyakarta Based on Morphological Characters	AST-97
Paulus Chadikun	Doctoral Program of Agricultural Science, Universitas Sebelas Maret, Surakarta	DIOSCOREA SPP. EXPLORATION AT MANOKWARI REGENCY, WEST PAPUA, INDONESIA	
Bambang Heri Isnawan	Universitas Muhammadiyah Yogyakarta; Doctoral Program of Agricultural Science, Universitas Sebelas Maret, Surakarta	Nutrient uptake, root development, and crop growth analysis of several local rice varieties with intermittent irrigation	AST-39
Sri Gunawan	Doctoral Program of Agricultural Science, Universitas Sebelas Maret, Surakarta	THE PERFORMANCE OF OIL PALM PRODUCTIVITY AND MANAGEMENT OF ORGANIC MATERIALS AT VARIOUS RAIN INTENSITY IN SANDY LAND	AST-40
Idum Satia Santi			AST-41

Anggun Cinditya Putri	Laboratory of Genetics and Breeding, Faculty of Biology, Universitas Gadjah Mada	MOLECULAR DETECTION OF BEGOMOVIRUS CAUSING YELLOW CURLY LEAF DISFASE ON PEPPERS (Capsicum fintescens L. 'cempluk')	AST-42
Eindy Gresyllia Permadani	Universitas Gadjah Mada	DETECTION OF RESISTANCE GENE TO BEGOMOVIRUS IN CHILI PEPPER (Capsicum frutescens L. 'CEMPLUK')	AST-43
Amagun Cinditya Putn	Laboratory of Genetics and Breeding, Faculty of Biology, Universitas Gadjah Mada	ASSEMBLY OF ORANGE HYBRID WATERMELON (Citrullus lanatus (Thunberg.) Matsum&Nakai) RESULT OF CROSSING BETWEEN 'Putri Delima' AND 'Maduri' CULTIVARS	AST-44
Tacobus Sunaryo	University of Sarjanawiyata Tamansiswa, Yogyakarta	The Dynamic of Paddy Plantation in Banjararum, Kalibawang, Kulonprogo, Yogyakarta: from Inorganic to Organic	AST-45
Maria Theresia Carini	University of Sarjanawiyata Tamansiswa, Yogyakarta	The Correlation Between Nodule Population with Component Growth of Jackbeen (Canavalia ensiforms L.) in intercropping with aloe (Aloe vera L.) plant in the lime soil	AST-46
Maria Theresia Cerni	Universitas Sarjanawiyata Tamansiswa, Yogyakarta	Endophytic Root Population Dynamics and Agronomic Characteristics of Aloe vera L. Plants by Application of Nitrogen Fertilizer Dosage and Biofertilizers Sources in Sandy Soil	AST-47
Endah Puspitojati	Politeknik Pembangunan Pertanjan Yogyakarta Magelang	Effect of fermentation time on the molecular weight distribution of ACE inhibitory peptides from jack bean (Canavalia ensiformis)	AST-48
Toyanda Bait	Faculty of Agricultural Technology, Universitas Gadjah Mada	FREE-RADICAL SCAVENGING ACTIVITY OF RICE WITH CHERRY (MUNTINGIA CALABURA) LEAF EXTRACT	AST-49
Saala Herlambang	Prodi Ilmu Tanah UPN Veteran Yogyakarta	EFFECT RESIDUE of BIOCHAR and ORGANIC WASTE to SOIL IMPROVING for PRESERVE FOOD SECURITY IN PADDY SOIL	AST-50
Perawita Dewanti	Faculty of Agriculture, Universitas Jember	Encapsulation and Regeneration through somalic embryogenesis from spindle leaf segments of sugarcane (Saccharum officinarum L).	AST-51
Te Candra Secawati	Faculty of Agriculture, Universitas Jember	The Changes of Some Soil Nutrient Concentration and Nutrient Uptake By Aromatic Pendok Tuban Rice Applied By Mixed Organic Matter, Agro-mineral and Microorganisms	AST-52
Sel Erwin Labianto	Faculty of Agriculture, Universitas Jemberxi	The growth and crystallization in aromatic Pendok Tuban rice cultivated by applying mixed organic matter, agromineral and microorganisms in Jember, Indonesia	A57-53
Se Hartatik	Faculty of Agriculture, Universitas Jember	SHOOT PRUNING AND POTTASIUM APPLICATION EFFECT ON CUCUMBER (Cucumis sativus I.) SEEDS PRODUCTION AND QUALITY	AST-54
Seeing Winarso	Faculty of Agriculture, Universites Jember	THE DECOMPOSITION AND EFFICIENCY OF NPK-ENRICHED BIOCHAR ADDITION ON ULTISOL WITH SOYBEAN	AST-55
aptiningsih Samawati Manurani	Faculty of Agriculture, Universitas Merdeka Madiun	OPTIMIZATION OF ROOT NODULES AND NPK UPTAKE WITH THE APPLICATION OF RHIZORIUM AND MYCORRHIZAE IN PEANUT PLANTS (Arachis hypogaea L.)	AST-56
ahidin Nuriana	Universitas Merceka Madiun	UTILIZATION OF MIDRIBS OF PISANG KEPOK LEAVES SAP, TEAK LEAF SAP, PURPLE YAM SAP WITH SOXCHLET EXTRACTION AS A ENVIRONMENTALLY FRIENDLY TEXTILE DYE	AST-57
Luh Suriani	FMIPA Biologi, Univ Udayana	ANTAGONISM TRICHODERMA SP FOR PRESSING BLAST DISEASE ON RED BALL RICE PLANTS (DRYZA SATIVA)	AST-58
Lah Suriani	FMIPA Biologi, Univ Udayana	INHIBITORY ACTIVITY OF PIPER CANINUM LEAF EXTRACT AGAINST CURVULARIA SPOTTING DISEASE ON RICE PLANTS	AST-59
M Arlani Mastuti	Departmenet of Biology FMIPA, Universitas Udayana	CONDITIONS OF HEMATOLOGY AND DIGESTIVE SYSTEM HISTOPATHOLOGICAL DESCRIPTION FROM DUCK AFTER GIVING BACTERIA Salmonella SP, WHICH HAS BEEN EXPOSED TO ULTRAVIOLET	AST-60
igirah Intan Kratmini	FMIPA Biologi, Universitas Udayana	WATER-SOAKED Leucaena leucocephala LEAF MEAL AS FEED FOR RABBITS: EFFECT OF INCLUSION ON PERFORMANCE	AST-61
Pharmawati	Departmenet of Biology FMIPA, Universitas Udayana	ISSR AND RAPD PRIMERS SELECTION OR ASSESSMENT OF GENETIC DIVERSITY OF SEAGRASS Enhalus acordides	A5T-62
eny Suhernawan Usup	Universitas Udayana	COPEPEODS AS NATURAL FEED FOR FISH HATCHERY; Formulated diet for Copepods, Acartla Spp., mass culture	AST-63a

Angun Chditja Non	Laboratory of Genetics and Breeding, Faculty of Biology Universitas Gadjah Mada	MOLECULAR DETECTION OF BEGOMOVIRUS CAUSING YELLOW CURLY LEAF DISEASE ON PEPPERS (Capsicium frutescens I 'cempluk')	AST-42
Circli Gresylla Remadani	Universitas Gadjah Mada	DETECTION OF RESISTANCE GENE TO BEGOMOVIRUS IN CHILI- PEPPER (Capsicum frutescens L. 'CEMPLUK')	A5T-43
Angum Coditye Plans	Laboratory of Genetics and Breeding, Faculty of Biology, Universitas Gadjah Mada	ASSEMBLY DE ORANGE UVODIO STATEDANTI ON THE	AST-44
Sanaryo	University of Sarjanawiyata Tamansiswa, Yogyakarta	The Dynamic of Paddy Plantation in Banjararum, Kalibawang, Kulonprogo, Yngyakarta: from Inorganic to Organic	AST-45
Wate Theresia Dates	University of Sarjanawiyata Tamansiswa, Yogyakarta	The Correlation Between Nodule Population with Component Growth of Jackbean (Canavalia ensiformis L.) in intercropping with aloe (Aloe vera L.) plant in the lime soil	AST-46
Warra Theresia Danni	Universitas Sarjanawiyota Tamansiswa, Yogyakarta	Endophytic Root Population Dynamics and Agronomic Characteristics of Aloe vera L. Plants by Application of Nitrogen Fertilizer Dosage and Biofertilizers Sources in Sandy Spil	AST-47
Pasktojati	Politeknik Pembangunan Pertanian Yogyakarta Magelang	Effect of fermentation time on the molecular weight distribution of ACE inhibitory peptides from jack bean (Canavalia ensiformis)	AST-48
Toyanda Bait	Faculty of Agricultural Technology, Universitys Gadjah Mada	FREE-RADICAL SCAVENGING ACTIVITY OF RICE WITH CHERRY (MUNTINGIA CALABURA) LEAF EXTRACT	AST-49
Suits Herlambang	Veteran Yogyakarta	EFFECT RESIDUE of BIOCHAR and ORGANIC WASTE to SOIL IMPROVING for PRESERVE FOOD SECURITY IN PADDY SOIL	AST-50
Paramita Dewanti	Faculty of Agriculture, Universitas Jember	Encapsulation and Regeneration through somatic embryogenesis from spindle leaf segments of sugarcane (Saccherum officinarum L).	AS7-51
Tri Candra Settmenti	Faculty of Agriculture, Universitas Jember	The Changes of Some Soil Nutrient Concentration and Nutrient Uptake By Aromatic Pendok Tuban Rice Applied By Mixed Organic Matter, Agro-mineral and Microorganisms	AST-52
Dw Erwin Kuthianto	Faculty of Agriculture, Universitas Jemberyl	The growth and crystallization in aromatic Pendek Tuban rice cultivated by applying mixed organic matter, agromineral and microorganisms in Jember, Indonesia	AST-53
Se Hartatik	Faculty of Agriculture, Universitas Jember	SHOOT PRUNING AND POTTASIUM APPLICATION EFFECT ON CUCUMBER (Circumis sativus L.) SEEDS PRODUCTION AND QUALITY	AST-54
Sugeng Winarso	Faculty of Agriculture, Universitas Jember	THE DECOMPOSITION AND EFFICIENCY OF NPK-ENRICHED BIOCHAR ADDITION ON ULTISOL WITH SOYBEAN	AST-55
actiningsih Samawati Idinurani	Faculty of Agriculture, Utilversitas Merdeka Madiun	OPTIMIZATION OF ROOT NODULES AND NPK UPTAKE WITH THE APPLICATION OF RHIZOBIUM AND MYCORRHIZAE IN PEANUT PLANTS (Arachis hypogaea L.)	AST-56
Nuriana	Universitas Merdeka Madiun	UTILIZATION OF MIDRIBS OF PISANG KEPOK LEAVES SAP, TEAK LEAF SAP, PURPLE YAM SAP WITH SOXCHLET EXTRACTION AS A ENVIRONMENTALLY FRIENDLY TEXTILE DYE	AST-57
Suriani	FMIPA Biologi, Univ Udayana	ANTAGONISM TRICHODERMA SP FOR PRESSING BLAST DISEASE ON RED BALL RICE PLANTS (ORYZA SATIVA)	AST-58
Tuh Suriani	FMIPA Biologi, Univ Udayana	INHIBITORY ACTIVITY OF PIPER CANINUM LEAF EXTRACT AGAINST CURVULARIA SPOTTING DISEASE ON RICE PLANTS	A5T-59
M Ariani Mastuti	Departmenet of Biology FMIPA, Universitas Udayana	CONDITIONS OF HEMATOLOGY AND DIGESTIVE SYSTEM HISTOPATHOLOGICAL DESCRIPTION FROM DUCK AFTER GIVING BACTERIA Salmonella sp., WHICH HAS BEEN EXPOSED TO ULTRAVIOLET	AST-60
gurah Intan Viratmini	FMIPA Biologi, Universitas Udayana	WATER SOMED LOUISING THE STATE OF THE STATE	AST-61
adé Pharmawati	Departmenet of Biology FMIPA, Universitas Udayana	ISSR AND RAPO PRIMERS SELECTION OR ASSESMENT OF GENETIC DIVERSITY OF SEAGRASS Enhalus accroides	AST-62
eny Suhernawan Isup	Universitas Udayana	CODEDCODE AS NATIONAL CORP.	AST-63a

ery Suhernawan	Universitas Udayana	THE FEEDING RESPONSE OF SEATURTLE Legidochelys allivacea: The Inclusion Of Dried Seawcod And Seagrass On The Fish Pellet	AST-63b
issiip li Gusti Ayu Manik rmayanti	Universitas Jdayana	Effect of Cod Liver Oil Supplementation in Feed on the Haematological Values and Concentration of Epididymis Spermatozoa of Local Rabbits	AST-64
da Bagus Made Suaskara		SPECIES OF BIRDS BASED ON FOOD TYPE IN RICE FIELD SUBAK MAMBAL, BADUNG REGENCY.	AST-65
Rai Suarni	Universitas Udavana	SUBSTITUTION OF COMMERCIAL FEED WITH MORINGA LEAF MEAL TO IMPROVE THE SPERM QUALITY OF MALE RABBIT	AST-66
utu Anom iulistyawati	Universitas Warmadewa	THE ROLE OF CARBOHYDRATES AND THE C / N RATIO OF LEAVES IN THE BUDDING TYPES AND PHASE OF FLOWERING DEVELOPMENT IN THE FRAMEWORK OF HARVEST FORMED IN PLANTS	AST-67
Anak Agung Sagung Putri Risa Andriani	Universitas Warmadewa	Locally Isolated Trichoderma spp. From the Soil of Conventional and Organic Cultivated Rice	AST-68
Yohanes Parlindungan Situmeang	Universitas Warmadewa	UTILIZATION OF MANURE FROM COWS, GOATS, AND CHICKENS AS BOCHAR AND COMPOST TO INCREASE THE YIELD OF RED CHILI	AST-69
ida Bagus Komang Mahardika	Universitas Warmadewa	Application of Rabbit Manure Compost and Lateral Buds Pruning on Growth and Yield of Chili (Capsicum annuum L.)	AS1-70
Zauzah Abdullatif	Lecturer of Faculty of Agriculture, Khairun University, Ternate, North Maluku, Indonesia	Identification of Sofu Tafure (Piper sormentosum Roxb ex W. Hunter) Weed Associations and its Status Enhancement to Become Cultivated Plant	AST-71
Ramii Hadun	Postgraduate Study Program in Agricultural Sciences, Khairun University	LAND CHARACTERISTICS ANALYSIS FOR FOOD PLANT DEVELOPMENT IN EAST SAHU DISTRICT WEST HALMAHERA DISTRICT	AST-72
Lilly Ishak	Soil Science Department, Faculty of Agriculture, University of Khairun, Ternate	DISTRIBUTION AND EDAPHIC CONDITIONS BETWEEN PROVENANCE OF CAPILONG - BEAUTY LEAF TREE IN TERNATE ISLAND	AST-73
Tri Mulya Hartati	Department of Soil Science, Faculty of Agriculture, Khairun University, Ternate	Study of Morphological Properties of Cassava Plants in Local Varieties of Tobelu, North Maluku, Indonesia	AST-74
Karmila lorahim	Faculty of Agriculture, Universitas Khairun, Ternate	analysis of the determination of growth centers and hinterland areas in the ternate city	AST-75
Betty Kadir Lahati	Faculty of Agriculture, Universitas Khairun, Ternate	BIODIVERSITY OF INSECTS ON ORGANIC AND CONVENTIONAL CHILI (Calsicum annum) PLANTATIONS IN THE TERNATE CITY OF NORTH MALUKU PROVINCE	AST-76
Hermogenes IM.Paguia	Batzan Peninsula State University, City of Balanga, Bataan, Philippines	IMPROVEMENT of MANGO PRODUCTION through SCIENCE and TECHNOLOGY INNOVATIONS and SUPPORT MECHANISMS for CAPACITY DEVELOPMENT in BATAAN and ZAMBALES	AST-77
Riaz Shah	Sultan Qaboos University, Oman	BASELINE SUSCEPTIBILITY of WHITEFLY ADULTS (Bemisla tabaci) (HEMIPTERA: ALEYRODIDAE) from OMAN	AST-78
Rethinasamy Velazhahan	Sultan Qaboos University, Muscat, Oman	Efficacy of native microbial antagonists in the ecofriendly management of Monosporascus root not and vine decline disease of muskmelon in Oman	AST-79
Ghazi Al-Karaki	Jordan University of Science & Technology	Nursery pre-inoculation of marigold with mycorrhizal fungi improves seedling quality and subsequent growth under drought	AST-80
Jallaman Sipayung	National Pingtung University of Science and Technology, Taiwan	Isolation of halo-tolerant bacteria with plant growth-promoting traits	AST-81
Muhsanati	Agriculture Faculty of Andalas University. Indonesia. Email:	"GANDASIL D" FOLIAR FERTILIZER APPLICATION ON VANILLA (VANILLA PLANIFOLIA) IN ULTISOL	AST-82

Merg-legist	National Pingtung University of Science and Technology, Taiwan	Isolation of halo-tolerant bacteria with antifungal activity against Botrylis cinerea	AST 83
Takina Poma Budi Libema	Department of Biological Science and Technology, National Pingtung University of Science and Technology, Taiwan ROC	Characterization of Plant Growth Promoting Rhizobacteria (PGPR) from Saline Soil in Taiwan	AST-84
Michelina Sudjarid	Sakon Nakhon Rajabhat University, Thailand	HEXACHLOROBENZENE PESTICIDES PERSISTENCE IN AGRICULTURAL CHEMICAL USAGE AREA	AST-85
Street Copy Name	Bangladesh Agricultural University, Mymensingh, Bangladesh	Response of wheat plant under system of wheat intensification	AST-86
Street Card	Banglacesh Agricultural University, Mymensingn, Banglarlesh	Evaluation of the Local, High Yielding and Hybrid Rice Varieties for Grain Morphology and Grain Yield	A5T-87
Batter)	Faculty of Agriculture, Universitas Riau	ISOLATION AND IDENTIFICATION OF PHOSPHATE SOLUBILIZING BACTERIA PROM ULTISOL SOIL IN KAMPAR DISTRICT, RIALI PROVINCE INDONESIA	AST-88
Bellevige	Faculty of Agriculture, University of Jambi	DEVELOPMENT OF SOMATIC EMBRYOGENESIS IN THE PROPAGATION OF PALM OIL (Elaets guineensis Jacq.) BY TISSUE CULTURE	AST-89
The tarska	Faculty of Agriculture, Universitas Jambi	EFFECTIVENESS and COMPATIBILITY of ARBUSCULAR MYCORRHIZAL FUNGI with ANTAGONISTIC RHIZOSPHERE FUNGI on LIBERIKA TUNGKAL JAMBI COFFEE SEEDLINGS in PEAT SOIL	AST-90
Etheriti .	Faculty of Agriculture, University of Jambi	THE INDUCTION of EMBRYOGENIC CALLUS USING YOUNG (EAF EXPLANTS of COFFEA (Coffea liberica L. cv. Liberika Tungkal Jambi)	AST-91
limeti	Faculty of Agriculture, University of Jambi	IN VITRO CALLUS DEVELOPMENT ON IMMATURE LEAF EXPLANTS OF LIBERICA COFFEE (Coffee liberica L. cv Liberika Tungkal Jambi) BY THE APPLICATION OF 2,4-D AND BAP	AST-92
Rock-Designi Room	Faculty of Agriculture, University of Jambi	Organic Fertlizers for Sustainable Agriculture in Tidal Area and Soybaan (Glycine max.) Growth and Yield	A5T-93
Text Spanyets	Dept. of Crop Science University of Bengkulu. Jl. Wr. Supratman Kandang Limun, Bengkulu, 38371, Indonesia	YIELD POTENTIAL AND RESISTANCE PERFORMANCE OF SOYBEAN GENOTYPES TO POD SUCKER (Riptorsus linearis)	AST-94
meet Clanago	Universitas Andalas	The Introduction of Indigenous Rhizobacteria to Promote the Growth and Yield of Potato var. Granola at Alahan Panjang, West Sumatra	AST-95
Burned	Universitas Andalas	THE EFFECT OF ELECTRICAL STIMULATION ON MEAT QUALITY OF INDONESIAN LOCAL AND CROSSBREED CATTLE	AST-96
listimangah	Universitas Andalas	THE EFFECT OF FLECTRICAL STIMULATION ON MEAT QUALITY OF INDONES AN LOCAL AND CROSSBREED CATTLE	AST-96
Milita Owlpa	Universitas Andalas	EFFECT OF INDIGENOUS RHIZOBACTERIA AND MANURE ON THE GROWTH AND YIELD OF RED POTATOES (Solanum tuberosum L.)	AST-97
min Suliansyah	Universitas Andalas	GRAIN YIELD EVALUATION and AGRONOMIC CHARACTERIZATION of 10 NEW HYBRID MAIZE PROSPECTIVE GENOTYPES	AST-98
ligang Rusman	Universitas Andalas	Improvement of the chemical characteristics of Andisols on Oil Palm Plantation Using the Implementation of Biochar	AST-99
ili Wandie Putri	Faculty of Animal Science, Universitas Andelas	EFFECT OF VARYING RUMEN DEGRADABLE AND DEGRADABLE PROTEIN OF RATION ON NUTRIENT DIGESTIBILITY, IN VITRO RUMEN FERMENTATION CHARACTERISTICS AND MICROBIAL PROTEIN TOTAL	A5T-100
	Faculty of Animal Science, Universitas Andalas	The Use of Different Binders to Improve Physical Quality and Performance of Native Chicken Ration in Pellet Form Based on Coconut Meat Waste Supplemented with Mannanolytic Thermophilic Bacteria and Thermostable Mannanase	AST-101
Anna Permata Sari	Faperta Universitas Andalas	BIOLOGICAL AGENT OF PREDATOR AND PARASITOID DIVERSITY IN HYBRID MAIZE	AST-102

'ulmira Yanti	Faperta Universitas Andalas	Development of the PGPR and Cyanobacteria Consortium for Growth Promotion and Control Ralstonia syzigi subsp. indonesiensis of Tomato	AST-103
ertia Della Nova	Fakultas Peternakan Universitas Andalas		AST-104
My Syahrawati	Faperta Universitas Andalas		AST-105
Haliatur Ranma	Faperta Universitas Andalas		AST-106
înda Afriani	Faculty of Animal Science, Universitas Andalas	SUPERDVULATION RESPONSE TO GIVING FOLLICLE STIMULATING HORMONE (FSH) AND GONADOTROPH IN REALIZING HORMONE (GNRH) IN BUFFALO (Bubaius Bubaiis)	AST-107
rusmarni	Faculty of Agriculture, Universitas Andalas	farming and processing in Simawang village Tanah Datar district	AST-108
Sita Ciptaan	Faculty of Animal Science, Universitas Andalas	Utilization of Fermented Soybean Meal Waste with Aspergillums ficuum in Broiler Ration	AST-109
Arief	Faculty of Animal Science, Universitas Andalas	Milk Quality of Etawa Dairy Goat Fed Palm Kemel Cake, Tithonia (Tithonia diversifolia) and Sweet Potato Leaves (Ipomoea batatas L.)	AST-110
Arief	Faculty of Animal Science, Universitas Andalas	MILK QUALITY, RATION CONSUMTION AND DISESTIBILITY RATION OF ELAWA CROSSBRED DAIRY GOAT FED VARIOUS PALM KERNEL CAKE, TITHONIA (Tithonia difersifolia) AND CORN WASTE	AST-111
Yurnalis	Faculty of Animal Science, Universitas Andalas	Single nucleotide polymorphism of GHR gene and its association with body weight in Bayang duck, local duck from west sumatera, Indonesia	AST-112
Mardieti Zain	Faculty of Animal Science, Universitas Andalas	The effects of legumes (Gliricidia sepium, Leuraena leucocephala and Indigofera zollingeriana) as substitute for Concentrate in ammoniated rice straw-based rations on rumen characteristics and in vitro methane production	AST-113
Zaituni Udin	Faculty of Animal Science, Universitas Andalas	Effect Of Different Techniques And Storage Time Of Ovarium On Quantity And Quality Of Buffalo Oocyte As Agenetic Material Resources	AST-114
Masrizali	Faculty of Animal Science, Universitas Andalas	Effect Of Different Techniques And Storage Time Of Ovarium On Quantity And Quality Of Buffalo Oocyte As Agenetic Material Resources	AST-114
Suci Rahmawati	Faculty of Animal Science, Universitas Andalas	Effect Of Different Techniques And Storage Time Of Ovarium On Quantity And Quality Of Buffalo Oocyte As Agenetic Material Resources	AST-114
Syafri Nanda	Faculty of Animal Science, Universitas Andalas	Effect Of Different Techniques And Storage Time Of Ovarium On Quantity And Quality Of Buffalo Oocyte As Agenetic Material Resources	AST-114
Nobutaka Ito	Faculty of Engineering, Chiang Mai University	FFAGPI, Future Farmers of Asia Growing Program Initiative	AST-115
Choncharpen Sawangrat	Faculty of Engineering, Chiang Mai University	FFAGPI, Future Farmers of Asia Growing Program Initiative	AST-115
Latifa Hanum	Politeknik Pertanian Negeri Payakumbuh	Sociceconomic Characteristics of Breeder Against Adoption of Artificial Insemination Technology	A5T-115
Mizanur Rahman Bhuiyan	Soil, Water and Environment Discipline, Khulna University, Khulna, Bangladesh	IMPLICATIONS OF SOIL BULK DENSITY ON THE WATER UPTAKE PATTERN OF SOYBEAN PLANT UNDER DIFFERENT SOIL MOISTURE CONDITIONS	AST-117
Malik Makmur	Faculty of Animal Science, Universitas Andalas	Evaluation of Ratio Grass-Legume on Inhibition of Biohydrogenation in Rumon In Vitro System	AST-118
Novirman Jamarun	Faculty of Animal Science, Universitas Andalas	EFFECT OF FERMENTATION OF TITONIA (Tithonia diversifolia) WITH Lactobaccilus plantarum BACTERIA ON THE pH, TOTAL BACTERIA COLONI AND PHYTASE ENZYME ACTIVITIES	AST-119
Hendri	Faculty of Animal Science, Universitas Andalas	THE EFFECT OF FSH DOSES ON LITTER SIZE, SEX RATIO AND BIRTH WEIGHT IN DIFFERENT PARITIES OF GOAT	AST-120

Rusmana Wijaya Setianingrat	Faculty of Animal Science,	The effects of legumes (Gliricidia sepium, Leucaena leucocephala	AST-121
Sersimingrat	Universitas Andalas	and Indigofera zollingerlana) as substitute for Concentrate in ammoniated rice straw-based rations on rumen characteristics and in vitro methane production	
Nurbailis	Faculty of Agriculture, Universitas Andalas	EXPLORATION OF FUNGITHAT ASSOCIATED WITH BRANDH DIEBACK DISEASES IN COCOA (Theobromae cacao L.) PLANTS IN PADANG CITY	AST-122
Yulensri	Politeknik Pertanian Negeri Payakumbuh	POTENTIAL OF BACTERIA ISOLATED FROM LOCAL MICROORGANISM (LMO) OF BANANA STEM BUD AS A PEST BIOCONTROL AGENT Spodoptera litura F	AST 123
Yulensri	Politeknik Pertanian Negeri Payakumbuh	COMPATIBILITY OF SOME BACTERIA AS PESTICIDES AND BIOLOGICAL FERTILIZERS AND THE FORMULATIONS ON VARIOUS ORGANIC MATERIALS	AST-124
Kresna Murti	Politeknik Pertanian Nogeri Payakumbuh	ROLE OF BIO-LIQUID ORGANIC FERTILIZERS (BIC-LOF) ON SOIL FERTILITY AND NUTRIENTS UPTAKE ON MAIZE (Zee mays L)	AST-125
Misfit Putrina	Politeknik Pertanian Negeri Payakumbuh	APPLICATIONS OF VARIOUS TYPES AND DOSAGE OF BIO- COMPOSTS ON GINGER PLANT (Zingiber officinale L)	AST-126
Noven	Politeknik Pertanian Negeri Payakumbuh	POTENTIAL OF BACTERIA OF BAMANA STEM BUD LOCAL MICRO ORGANISM (LMO) AS A BIO-FERTILIZER TO INCREASE THE GROWTH OF PADDY IN SRI METHOD	A5T-127
Nelson Flita Politeknik Pertanian Negeri Payakumbuh		THE APPLICATION BIOFERTILIZER CONTAINING Azotobacter BACTERIA AND Pseudomonas fluorescents Indigenous FORMULATION OF ORGANIC COMPOS WITH VARIOUS SUBSITUTION MATERIALS ON RICE PRODUCTION SRI METHOD	AST-128
Rita Erlinda	Politeknik Pertanian Negeri Payakumbuh	The Test of Storage Time for Azotobacter Bacteria Isolate Formulation, Indigenous Pseudomonas fluorescents as Biofertifizer on the Number of Bacterial Cosonies	A5T-129
Yun Sondang	Food Crops Department, Politeknik Pertanian Negeri Payakumbuh	ISOLATION AND IDENTIFICATION OF EFFECTIVE MICRODRGANISMS FROM WATER HYACINTH BIOFERTILIZERS	AST-130
Fardedi	Department of Water System of Agriculture , Politeknik Pertan an Negeri Payakumbuh	Trips (Thysanoptera: Thripidae) Population Monitoring At Mangosteen Planting Area	AST-131
Deswani Panggabean	Politeknik Pertanian Negeri Payakumbuh	Making Organic Fartilizers from Orok-orok ( Crotalaria juncea.) as a nucrient for chicory (Brassica juncea.) that are grown fertigately	AST-132
Sri Nofianti	Politeknik Pertanian Negeri Payakumbuh	Effect of Breeder Knowledge Against Adoption of Artificial Insemination Technology	AST-133
aswandi	Faculty of Animal Science, Universitas Andalas	THE USE OF STRAW FOR INVITRO MATURATION OF CATTLE OCCYTES DURING TRANSPORTATION	AST-134
Made Deviani Juaja	Agriculture Faculty, Jambi University	REDUCE THE USE OF MINERAL FERTILIZERS IN CHINESE KALE (Brassica alboglabra Bailey)	AST-135
inak Agung Ketut Permadi	Biology Study Program Faculty of Mathematics and Natural Sciences Udayana University Buli-Indonesia	ANTIFUNGAL ACTIVITIES OF CINNAMON LEAF EXTRACTS AGAINST SIGATOKA FUNGUS (PSFUDOCERCOSPORA FUIENSIS)	AST-136
			Energ
irmansyah	Politeknik Negeri Srivijaya	Study of the Supply Water Discharge at the Micro Hydro Power Installation in the Sarwan Village South Sumatera	Energy-01
resna Dewi	Politeknik Negeri Sriwijaya	ACTIVE AND PASSIVE COOLING COMPARISON OF PV PANELS APPLIED IN TROPICAL CITY; CASE STUDY PALEMBANG, SOUTH SUMATRA	
entri Irtas	Politeknik Negeri Sriwijaya	The Effect of Electric Current on the Production of Brown's Gas using Hydrogen Fuel Generator with Seawater Electrolytes	Energy-03

Feni Alvionita	Chemical Engineering Department, Feculty of Engineering, Universitas Sriwijaya	Production of Biogas from Palm Oil Mill Effluent With Indigenous Bacteria	Energy-05
Muhammad Said	Chemical Engineering Department, Faculty of Engineering, Universitas Sriwijaya	Conversion Of Palm Oil Mill Effluent To Produce Biogas With Consortium Bacteria	Energy-06
Muhammad Said	Chemical Engineering Department, Faculty of Engineering, Universitas Sriwijaya	Synthesis of Epoxide and Polyol Compounds as Intermediates for Biolubricant from Soybean Oil	Energy-07
Yohandri Bow	Politeknik Negeri Sriwijaya	Effect of Air Flow Rate on Thermal Efficiency in the Process of Drying Crackers with Dryer using Photovoltaic Solar Panels	Energy-08
Herdian Wibowo	Politeknik Negeri Sriwijaya	Performance Comparison Analysis of Fixed and Solar-Tracker Installed Panel at PV System in PT. Pertamina (Persero) RJ-III Plaju	Energy-09
Aisman	Universitas Andalas	ANALYSIS OF BIOMASS CHARACTERISTICS AND CALORIES VALUE FROM VARIOUS BAMBOO TYPES AROUND GUMANTI RIVER LEMBAH GUMANTI SU3-DISTRICT OF SCLOK DISTRICT	Energy-10
Muhaji	Department of Mechanical Engineering, Universitas Negeri Surabaya	Flame Caracteristics Difusion Cumbostion Jatrophia Curras Linn Oil Biodiesel and Diesel Fuel Oil Blend	Friergy-11
Nasrul Ilminnafik	Department of Mechanical Engineering, Universities Jember	Improving the Quality of Biogas with the Addition of Liquefied Petroleum Gas (LPG)	Energy-12
Weiwei LUO	Chiang Mai Rajabhat University/Yunnan Academy of Scientific and Technical Information, P.R.China	DETERMINANTS OF CHINESE SMES' ENTRY TO ASEAN RENEWABLE ENERGY MARKET	Energy-13
Vivek Mandot	V. K. B. Government Girls' College, Dungarpur, Rajassthan 314001, India	An Overview of Community Empowerment by Solar Energy	Energy-14
Chayanoo Sawatdeenarunat,	Asian Development College for Community Economy and Technology, Chiang Mai Rajabhat University, Thailand	The combustion characteristic of biomass stove with a r-preheated by porous medium	Energy-15
Chayanon Sawatdeenarunat,	Asian Development College for Community Economy and Technology, Chiangmai Rajabhat University, Chiang Mai, Thailand	ENERGY POTENTIAL OF ELEPHANT CAMP : THE PERLIMINARY STUDY OF TUMBON MAEWIN, APMPHOE MAEWANG, CHIANG MAI, THAILAND	Energy 16
Masita Mohammad	Solar Energy Research Institute, SERI, UKM, Malaysia	COMPOSITIONAL ANALYSES OF SELECTED LIGNOCELLULOSIC BIOMASS FROM MALAYSIA AGRO-WASTE USING VAN SOEST METHOD	Energy-17
Giang Van Tran	Maejo University, Chiang Mai, Thailand	EFFECTS OF CO-SUBSTRATE CONCENTRATIONS ON THE ANAEROBIC CO-DIGESTION OF COMMON REED AND COW DUNG	Energy-18
Marwan Asrof	Mining Department of Engineering Faculty, Universitas Sriwijaya, Palembang 30662, Chemical Department of Engineering Faculty, Universitas Sriwijaya, Palembang 30662, Indonesia.	THE CHARACTERISTICS ANALYSIS OF CHAR RESULTED FROM LOW RANK COAL GASIFICATION	Energy-19
Hathaithip Sintuya	Asian Development College for Community Economy and Technology, Chiang Mai Rajabhat University, Thailand	LOW COST ONLINE MONITORING DEVICES FOR HOME ENERGY MANAGEMENT SYSTEMS THROUGH WIFI NETWORK	Energy 20

late Nanul Namuriah	Department of Chemical Engineering, Universitas Sriwijaya, Ji Srijaya Negara, Palembang, 30119,	Best Tank Materials for Biodiesel Storage; a Comparative Study on Corrosion Profile	Energy-71
	Indonesia.		
Minuch Iumpanalaisatit	Asian Development Colleg for Community Economy and Technology, Thailand	THE EFFECT OF SPACE UTILIZATION UNDER THE GROUND- MOUNTED SOLAR FARM ON POWER GENERATION	ENERGY-22
namethip Sintuya	Asian Development College for Community Economy and Technology, Chiang Mai Rajabhat University, Thailand	LOW COST ONLINE MONITORING DEVICES FOR HOME ENERGY MANAGEMENT SYSTEMS THROUGH WIFI NETWORK	Energy-23
Rograpa Dulesak	Asian Development College for Community Economy and Technology, Chiang Mai Rajabhat University, Thailand	ECONOMIC ANALYSIS OF APPLYING HYBRID BIDMASS STOVE TO PRODUCE HOT WATER SERVING CHILD DEVELOPMENT CENTER IN OMKOLDISTRICT, CHIANG MAI, THAILAND	Energy-24
Seeda Nurrat	Asian Development Colleg for Community Economy and Technology, Thailand	HOUSEHOLD BIOMASS GAS STOVE PERFORMANCE AND EXHAUST GAS EMISSIONS	ENERGY-25
			Environment
lamikat lamjunyong	Industrial Engineering Department, Faculty of Engineering, Chiang Mai University, Thailand 50200	THE HOLISTIC COMPONENTS OF CATTLE PRODUCTION FOR SOLVING THE HAZE IN CHIANG MAI	Environment-01
La Lusumawati	Universitas Negeri Surabaya	Utilization of Teak Leaf Waste as an Environmentally Friendly Butik Dyes	Environment-02
Sica Novita	Faculty of Agricultural Technology, Universitas Jember	BEDADUNG RIVER POLLUTION LOAD CHANGES STUDY IN SUSTAINABLE WATER QUALITY MANAGEMENT AT JEMBER REGENCY, EAST IAVA, INDONESIA	Environment-03
Ruimanta Siriahadi	Faculty of Agriculture, Universitas Merdeka Madiun	STRATEGY ACTION OF LAND-BASED CLIMATE CHANGE MITIGATION IN GEOPARK AREA OF GUNUNG SEWU, JOGJAKARTA	Environment-04
Authing Kustanti	Faculty of Agriculture, University of Brawijaya	FARMERS ROLE ON SUSTAINABLE UB FOREST MANAGEMENT-A Case From Indonesia	Environment-05
Des Novia	Faculty of Agriculture, University of Brawijaya	The Development Strategy of Dampit Coffee Ecotourism To Improve the Rural Economy (A Case Study in Amadanom Village, Malang Regency, East Java)	Environment-06
Reioni Wahyuni Ruborini	Department of Biology, Basic Science and Math Faculty, University of Udayana	Diversity of Arbuscular Mycorrhizal Fungi (AMF) in Rhizosphere Plants at the West Bali National Park (TNBB)	Environment-07a
Wahyuni Wasini	Department of Biology, Basic Science and Math Faculty, University of Udayana	Fungus species that change the Blood Type of Blood Stains on Iron, Aluminum, Ceramics, Wood and the Length of Change as Evidence for Forensics	Environment-07b
Grace DF,	Da Compound, San Agustin, Pili, Camarines Sur, PHILIPPINES	INTEGRATED VULNERABILITY ASSESSMENT OF WATER-ENERGY- FOOD NEXUS SECURITY OF WARAS-LALO SUBWATERSHED, BICOL RIVER BASIN PHILIPPINES	Environment-08
Melody Morano	Block 18, Lot 7, Ideal Homes Subdivision, Barangay Libertad, Butuan City, Agusan Del Norte 8600, PHILIPPINES	ASSESSMENT of the RIVERBANK STABILIZATION PROJECT IN NASIPIT, AGUSAN DEL NORTE, PHILIPPINES	Environment-09
E.R. Rajakumar	AICRP for Dryland Agriculture, Regional Agriculturel Research Station Vijayapura, Karnataka, University of Agricultural Sciences, Dharwad, India	O MOTHER EARTH-IS THE SOIL IN YOU IS SAFE FOR AGRICULTURE- ?; AN EASY METHOD TO FIND IT SAFE!	Environment-10

ukanya	Phuket Rajabhat University,	FLOOD RISK AREA ASSESSMENT IN PATONG MUNICIPALITY,	Environment-11
ongtanaboon	Thailand	KATHU DISTRICT, PHUKET PROVINCE	
akollawat awetrattanakul	Chiang Mai Rajabhat University	APPROPRIATE GUIDELINES OF WASTE MANAGEMENT FOR KEUDCHANG SUB-DISTRICT, MAETANG DISTRICT, CHIANG MAI PROVINCE, THAILAND	Environment-12
Viskandar	Universitas Jambi	RECLAMATION of the PHYSICAL PROPERTIES OF EX-COAL MINE LAND by USING BIOCHAR and MANURE	Environment-13
Viskandar	Universitas Jambi	The EFFECT of BIOCHAR and COMPOST of TITONIA on the PHYSICAL PROPERTIES of SOIL IN POST-MINNING LAND of COAL	Environment-14
igus Susatya	Dept of Forestry, University Bengkulu	VULNERABILITY AND ITS INFLUENCING FACTORS TO CLIMATE CHANGE OF THE VILLAGES AROUND KERINCI SEBLAT NATIONAL PARK: A CASE STUDY ON PINANG BERLAPIS DISTRICT, LEBONG REGENCY, INDONESIA	Environment-15
Rusdianasari	Jurusan Teknik Kimia, Politeknik Negeri Sriwijaya	The Effectiveness of Electrocoagulation Process in Rubber Wastewater Treatment using Combination Electrodes	Environment-16
Sita Mulyasari	Faculty of Agriculture, Universitas Bergkulu	How Climate Change Affects the Livelihood Vulnerability of Marine Capture Fishermen in Bengkulu Province, Indonesia	Environment-17
Owi Probowati Sulistyani	Universitas Sriwijaya	LAND SUITABILITY ASSESSMENT FOR TEAK PLANT (Tectona grandis) IN THE AREA OF COAL MINE RECLAMATION PT. BUKIT ASAM, TBK. TANJUNG ENIM SOUTH SUMATRA	Environment-18
Rita Tri Puspitasari	IPB University	BIOAUGMENTATION IN DOMESTIC AND ORGANIC WASTEWATER FOR PLANT FERTILIZERS	Environment-19
Wiji Tuhu Utami	Student, Universitas Sebelas Maret, Surakarta	AN EVALUATION ON THE IMPLEMENTATION OF SURAKARTA LOCAL REGULATION NO. 3/2010 ABOUT RUBBISH MANAGEMENT	Environment-20
Raden Roro Ilma Kusuma Wardani	Faculty of Agriculture, Universitas Sebelas Maret, Surakarta	The Dynamic of Rubbish Bank Management in Solo City, Indonesia	Environment-21
Widyatmani Sin	Faculty of Agriculture,	Increasing Soil C Sequestration as Key Point Facing Climate Change	Environment-22
Dewl	Universitas Sebelas Maret, Surakarta	Food Science a	nd Technolog
Dewi			nd Technolog
Pauzan Azima Wenny Surya	Surakarta	Food Science a  Evaluation of Oily Food Product Quality at the Market  Isolation and Characterization of Lipid Degraded Bacteria from	
Dewi Fauzan Azima	Fateta Universitas Andalas Universitas Andalas Faculty of Animal Science,	Evaluation of Oily Food Product Quality at the Market  Isolation and Characterization of Lipid Degraded Bacteria from Galamai Leftovers  NEW POULTRY PROBIOTIC OF LACTIC ACID BACTERIA ORIGIN	FST-01
Fauzan Azima Wenny Surya Murtius	Fateta Universitas Andalas Universitas Andalas Faculty of Animal Science, Universitas Andalas Faculty of Animal Science,	Food Science a  Evaluation of Oily Food Product Quality at the Market  Isolation and Characterization of Lipid Degraded Bacteria from Galamai Leftovers  NEW POULTRY PROBIOTIC OF LACTIC ACID BACTERIA ORIGIN FROM FOOD FERMENTED WEST SUMATERA, INDONESIA  Isolation and Characterization of Potential Probiotic Yeast from	FST-01 FST-02
Fauzan Azima Wenny Surya Murtius Yetti Marlida	Fateta Universitas Andalas Universitas Andalas Faculty of Animal Science, Universitas Andalas	Evaluation of Oily Food Product Quality at the Market  Isolation and Characterization of Lipid Degraded Bacteria from Galamai Leftovers  NEW POULTRY PROBIOTIC OF LACTIC ACID BACTERIA ORIGIN FROM FOOD FERMENTED WEST SUMATERA, INDONESIA	FST-01 FST-02 FST-03
Fauzan Azima Wenny Surya Murtius Yetti Marlida Yetti Marlida	Fateta Universitas Andalas Universitas Andalas  Faculty of Animal Science, Universitas Andalas Faculty of Animal Science, Universitas Andalas Faculty of Agricultural Technology, Universitas	Food Science a  Evaluation of Oily Food Product Quality at the Market  Isolation and Characterization of Lipid Degraded Bacteria from Galamai Leftovers  NEW POULTRY PROBIOTIC OF LACTIC ACID BACTERIA ORIGIN FROM FOOD FERMENTED WEST SUMATERA, INDONESIA  Isolation and Characterization of Potential Probiotic Yeast from Fish Fermented  The Microbiological Characteristic of Grinded Fresh Chilli	FST-01 FST-02 FST-03 FST-04
Fauzan Azima Wenny Surya Murtius Yetti Marlida Yetti Marlida	Fateta Universitas Andalas Universitas Andalas Faculty of Animal Science, Universitas Andalas Faculty of Animal Science, Universitas Andalas Faculty of Agricultural Technology, Universitas Andalas Politeknik Pertanian Negeri	Evaluation of Oily Food Product Quality at the Market  Isolation and Characterization of Lipid Degraded Bacteria from Galamai Leftovers  NEW POULTRY PROBIOTIC OF LACTIC ACID BACTERIA ORIGIN FROM FOOD FERMENTED WEST SUMATERA, INDONESIA  Isolation and Characterization of Potential Probiotic Yeast from Fish Fermented  The Microbiological Characteristic of Grinded Fresh Chill (Capsicum annum L.) with Addition of Cooking Dil on Storage  GLYCEMIC RESPONSE OF INSTANT YELLOW CORNMEAL AND TEMPE FLOUR PORRIDGE AND THE FACTORS AFFECTING THE	FST-01 FST-02 FST-03 FST-04 FST-05
Fauzan Azima Wenny Surya Murtius Yetti Marlida Yetti Marlida Novelina	Fateta Universitas Andalas Universitas Andalas Universitas Andalas Faculty of Animal Science, Universitas Andalas Faculty of Animal Science, Universitas Andalas Faculty of Agricultural Technology, Universitas Andalas Politeknik Pertanian Negeri Payakumbuh Faculty of Agriculture,	Evaluation of Oily Food Product Quality at the Market  Isolation and Characterization of Lipid Degraded Bacteria from Galamai Leftovers  NEW POULTRY PROBIOTIC OF LACTIC ACID BACTERIA ORIGIN FROM FOOD FERMENTED WEST SUMATERA, INDONESIA  Isolation and Characterization of Potential Probiotic Yeast from Fish Fermented  The Microbiological Characteristic of Grinded Fresh Chilli (Capsicum annum L.) with Addition of Cooking Dil on Storage  GLYCEMIC RESPONSE OF INSTANT YELLOW CORNMEAL AND TEMPE FLOUR PORRIDGE AND THE FACTORS AFFECTING THE RESPONSE  ANTIMICROBIAL ACTIVITY OF LACTIC ACID BACTERIA STRAINS ISOLATED FROM DADIH AGAINST ESCHERICHIA COLI  Characterization of Bacterlocin produced by Lactobacillus	FST-01 FST-02 FST-03 FST-04 FST-05
Fauzan Azima Wenny Surya Murtius Yetti Marlida Yetti Marlida Novelina Susi Desminarti Usman Pato	Fateta Universitas Andalas  Universitas Andalas  Faculty of Animal Science, Universitas Andalas  Faculty of Animal Science, Universitas Andalas  Faculty of Agricultural Technology, Universitas Andalas  Politeknik Pertanian Negeri Payakumbuh  Faculty of Agriculture, Universitas Risu Faculty of Agriculture,	Evaluation of Oily Food Product Quality at the Market  Isolation and Characterization of Lipid Degraded Bacteria from Galamai Leftovers  NEW POULTRY PROBIOTIC OF LACTIC ACID BACTERIA ORIGIN FROM FOOD FERMENTED WEST SUMATERA, INDONESIA  Isolation and Characterization of Potential Probiotic Yeast from Fish Fermented  The Microbiological Characteristic of Grinded Fresh Chilli (Capsicum annum L.) with Addition of Cooking Dil on Storage  GLYCEMIC RESPONSE OF INSTANT YELLOW CORNMEAL AND TEMPE FLOUR PORRIDGE AND THE FACTORS AFFECTING THE RESPONSE  ANTIMICROBIAL ACTIVITY OF LACTIC ACID BACTERIA STRAINS ISOLATED FROM DADIH AGAINST ESCHERICHIA COLI	FST-01 FST-02 FST-03 FST-04 FST-05 FST-06
Fauzan Azima Wenny Surya Murtius Yetti Marlida Yetti Marlida Novelina Susi Desminarti Usman Pato Evy Rossi	Fateta Universitas Andalas  Universitas Andalas  Faculty of Animal Science, Universitas Andalas  Faculty of Animal Science, Universitas Andalas  Faculty of Agricultural Technology, Universitas Andalas  Politeknik Pertanian Negeri Payakumbuh  Faculty of Agriculture, Universitas Riau Faculty of Agriculture, Universitas Riau	Evaluation of Oily Food Product Quality at the Market  Isolation and Characterization of Lipid Degraded Bacteria from Galamai Leftovers  NEW POULTRY PROBIOTIC OF LACTIC ACID BACTERIA ORIGIN FROM FOOD FERMENTED WEST SUMATERA, INDONESIA  Isolation and Characterization of Potential Probiotic Yeast from Fish Fermented  The Microbiological Characteristic of Grinded Fresh Chilli (Capsicum annum L.) with Addition of Cooking Dil on Storage  GLYCEMIC RESPONSE OF INSTANT YELLOW CORNMEAL AND TEMPE FLOUR PORRIDGE AND THE FACTORS AFFECTING THE RESPONSE  ANTIMICROBIAL ACTIVITY OF LACTIC ACID BACTERIA STRAINS ISOLATED FROM DADIH AGAINST ESCHERICHIA COLI  Characterization of Bacterlocin produced by Lactobacillus plantarum isolated from solid waste of soymilk production  Addition Of Red Palm Oil On Chemical And Sensory Characteristics	FST-01 FST-02 FST-03 FST-04 FST-05 FST-06 FST-06
Fauzan Azima  Wenny Surya Murtius  Yetti Marlida  Yetti Marlida  Novelina  Susi Desminarti  Usman Pato  Evy Rossi  Dewi Fortuna Ayu	Fateta Universitas Andalas  Universitas Andalas  Faculty of Animal Science, Universitas Andalas  Faculty of Animal Science, Universitas Andalas  Faculty of Agricultural Technology, Universitas Andalas  Politeknik Pertanian Negeri Payakumbuh  Faculty of Agriculture, Universitas Riau  Universitas Riau  Faculty of Agriculture, Universitas Riau	Evaluation of Oily Food Product Quality at the Market  Isolation and Characterization of Lipid Degraded Bacteria from Galamai Leftovers  NEW POULTRY PROBIOTIC OF LACTIC ACID BACTERIA ORIGIN FROM FOOD FERMENTED WEST SUMATERA, INDONESIA  Isolation and Characterization of Potential Probiotic Yeast from Fish Fermented  The Microbiological Characteristic of Grinded Fresh Chilli (Capsicum annum L.) with Addition of Cooking Dil on Storage  GLYCEMIC RESPONSE OF INSTANT YELLOW CORNMEAL AND TEMPE FLOUR PORRIDGE AND THE FACTORS AFFECTING THE RESPONSE  ANTIMICROBIAL ACTIVITY OF LACTIC ACID BACTERIA STRAINS ISOLATED FROM DADIH AGAINST ESCHERICHIA COLI Characterization of Bacterloid produced by Lactobacillus plantarum isolated from solid waste of soymilk production Addition Of Red Palm Oil On Chemical And Sensory Characteristics Of Mayonnaise From Patin Fish Oil  YOGURT POWDER ISOLATE OF WINGED BEAN PROTEIN AS	FST-01  FST-02  FST-03  FST-04  FST-05  FST-06  FST-07  FST-07  FST-09

In-In Hanidah	Fakultas Teknologi Industri Partanian, Universitas Pacjadjaran	CHARACTERIZATION OF PROBIDITIC BACTERIAL CANDIDATES FROM IATINANGOR-INDONESIA BREAST MILK	FST-12
Endah Wulandari	Faculty of Industrial Agriculture Technology, Universitas Padjadjaran	Functional characteristics of white and red sorghum (Sorghum bicolor (L.) Moench) proteins from local bandung cultivar	F5T-13
Debby Moody Sumanti	Universitas Padjadjaran Indonesia	SYNROTIC BISCUIT POTENTIAL REDUCING BLOOD SUGAR LEVELS IN WISTAR WHITE RATS	FST-14
S.Rosalinda	Universitas Padjadjaran Indonesia	Physico-chemical Characteristic of Corn Varieties Based on Starch Properties	F5T-15
Gusti Setiavani	IPB University	RHEOLOGICAL CHARACTERISTICS OF DODOL ULAME DURING STORAGE IN DIFFERENT TEMPERATURES	FST-16
Dandy Yusuf	IPB University	HYPOCHOLESTEROLEMIC PROPERTIES OF LACTOBACILLI ISOLATED FROM INDONESIAN KEFIR GRAINS	FST-17
Yuliana Tandi Rubak	IPB University	ANGIOTENSIN CONVERTING ENZYM INHIBITORY (ACE-I) ACTIVITY AND NOVEL ACE-I PEPTIDES IN FERMENTED GOAT MILK BY INDIGENOUS LACTIC ACID BACTERIA	F\$7-18
Fenny Amilia Mahara	Department of Food Science and Technology, Faculty of Agricultural Engineering and Technology, IPB University	Growth and Folate Production of Lactic Acid Bacteria in Folate- Free Culture Medium	FST-19
Mentari Larashinda	Agricultural Technology, Andalas University, Padang, West Sumatera, Indonesia, 25613	Identification of Purine Content in Various Processed Foods of Chicken as Specialty Food of West Sumatra	FST-20
Luh Suriati	Food Science and Technology, Universities Warmadewa, Bali	CHARACTERISTICS of the PHYSICOCHEMICAL Aloe vera GEL TREATMENT of FILLER as EDIBLE COATING on STRAWBERRY FRUIT	FST-21
Surya Aulia H	Department of Food Science and Technology, Faculty of Agricultural Engineering and Technology, IPB University	DIETARY FIBER PROFILE OF WINGED BEAN (PSOPHOCARPUS TETRAGONOLOBUS)	FST-27
Novizar Nazir	Faculty of Agricultural Technology, Universitas Andalas	PHYSICAL-CHEMICAL PROPERTIES, GLYCEMIC INDEX AND SENSORY PROFILE OF PRABOILED PURPLE RICE GROWN IN WEST SUMATRA	F5T-23
Sabiha Hanim Saleh	Universiti Teknologi Mara	Fractionation, isolation and characterisation of oil palm fronds xylooligosaccharides: A potential source of prebiotics	FST-24
Wiwit Amrinola	Department of Food Science and Technology, Faculty of Agricultural Engineering and Technology, IPB University	Studies on Characteristics Of Developed Pigmented Ampiang : Faked Glutinous Rice From West Sumatra, Indonesia	FST-25
fusma Yennie	Department of Food Science and Technology, Faculty of Agricultural Engineering and Technology, IPB University	EFFECT OF DIFFERENT DRYING METHODS ON CHARACTERISTICS OF DRIED SALTED NOMEI (Harpodon nehereus) FISH	FST-26
Sakina Yeti Optiyah	Food Science, Faculty of Agricutural Technology, Universitas Gadjah Mada, Yogyakarta	THE EFFECT OF BLANCHING AND EXTRACTION ON TOTAL PHENOLIC AND FLAVANOID CONTENT OF KENCUR (Kaempferia galanga. L).	FST-27
lita Ismawali	Department of Home Economic, Faculty of Engineering, Universitas Negeri Surabaya	Effect of Soybean sorts on Chemical Characteristics and Sensory of Tempeh Sausage	FST-28
lashan Shadikin Purdin	Faculty of Agriculture, Universitas Khairun, Ternate	Composition and nutrition content in honey Trigona sp. in the production forest management area Tidore islands	FST-29
ucia Tri Pangesthi	Jurusan PKK, Faculty of Engineering, Universitas Negerl Surabaya	DEVELOPMENT ABILITY OF SWEET BREAD MADE FROM LIQUID AND DRY RAISIN YEAST	FST-30
Suspita Sari	Universitas Jember	Antioxidative Properties of Arabica, Liberica, and Robusta Coffees Grown in Jember District, Indonesia	FST-31

ii.

12

13

14

15

-17

-18

-19

1-20

t-21

t-27

ology

		Analysis Fatty Acid Ethyl Ester dan a-Tocopherol as Antioxidants in	FST-32
II Made Suaniti	Department of Chemistry, FMIPA, Universitas Udayana	Virgin Coconut Oil Synthesis and commercial	131-32
Novi Safriani	Department of Food Science and Technology, Faculty of Agricultural Technology, IPB University	Antioxidative and immunomodulatory effect of selected edible plants from Indonesia in vitro	FST-33
		Green Production a	nd Innovation
Sri Widayanti	Universitas Pembangunan Nasional "Veteran" Jawa Timur	Analysis of Rice Supply Chains In Rice Mills In Kedungpring District, Lamongan	3PI-01
Endang Yektiningsih	Universitas Pembangunan Nasional "Veteran" Jawa Timur	RISK ANALYSIS OF RED CHILLI FARMING	GPI-02
Ira Wahyuni Syarfi	Faperta Universitas Andalas	THE REVITALIZATION OF THE FARMER COOPERATIVE IN SMALLHOLDERS PALM OIL REPLANTATION IN DHARMASRAYA DISTRICT, WEST SUMATERA PROVINCE, INDONESIA.	GPI-03
Dwi Evaliza	Faperta Universitas Andalas	INCOME ANALYSIS AND WORK TIME ALLOCATION OF NUTWEG PLANT PRODUCTS IN PADANG SELATAN DISTRICT, PADANG CITY OF WEST SUMATRA	GPI-04
Melinda Noer	Faperta Universitas Andalas	The Regional Land Use Control for Sustainable Agriculture	GPI-05
Bosril Basyar	Faculty of Agriculture, Universitas Muhammadiyah Sumatera Barat, Padang	LPHN Member Participation in Nagari Pasir Talang Timur Forest in the Empowerment Program through Beef Cattle Fattening	GPI-06
Muhamad Reza	Faculty of Agriculture, Universitas Muhammadiyah Sumatera Barat, Padang	culture, LPHN Member Participation in Nagari Pasir Talang Timur Forest in the Empowerment Program through Beef Cattle Fattening	
Hery Bachrizal Tanjung	Faculty of Agriculture, Universitas Andalas	TOWARDS TRANSFORMATION OF DISTRICT AGRICULTURAL EXTENSION INSTITUTION (BPP) IN DIGITAL ERA	GPI-07
Dedet Deperiky	PhD Student of Agricultural Science, Universitas Andalas	Development of Agriculture Area Based On Community Supply Chain With Local Wisdom Perspective	GPI-08
Candrianto	Politeknik ATI Padang	THE FINANCING MODEL FOR WASTE MANAGEMENT IN LUBUK ALUNG SUB-DISTRICT, PADANG PARIAMAN REGENCY THROUGH THE USE OF VILLAGE FUNDS	GPI-09
Desniorita	Politeknik ATI Padang	VALIDATION OF OPTIMIZATION OF pH, TEMPERATURE AND LONG PECTIN EXTRACTION OF COCOA POD WITH RESPONSE SURFACE METHODOLOGY (RSM)	GPI-10
Ameilia Zuliyanti Siregar	Faculty of Agriculture, Universitas Sumatera Utara	POTENTIAL USE OF NATURAL PESTICIDE TO CONTROL OF ORSEOLIA ORYZAE AND LEPTOCORISA ORATORIUS IN PADDY ECOSYSTEM IN PERCUT OF PESTS IN SALINE PADDY OF PERCUT, NORTHERN SUMATERA	GPI-11
Dini Wahyuni	Universitas Sumatera Utara	MODELLING OPERATION OF LOGISTICS MANAGEMENT IN MODERN MARKET: A CASE STUDY IN INDONESIAN RETAIL COMPANY	GPI-12
Dini Wahyuni	Universitas Sumatera Utara	The Effect of Illumination on Work Result in Sorting Department	GPI-13
Meilita Tryana Sembiring	Industrial Engineering Department, Faculty of Engineering, Universitas Surnatera Utara	Redesigning Distribution Routes of Smartphone X in North Sumatra	GPI-14
Meilita Tryana Sembiring	na Industrial Engineering Department, Faculty of Engineering, Universitas  REDUCTION BULLWHIP EFFECT IN THE SUPPLY CHAIN SINGLE VENDOR AND MULTI RETAILER USING METHOD VENDOR MANAGED INVENTORY (VMII) IN PT. XYZ  Sumatera Utara		GPI-15
Nurhayati Sembiring	Universitas Sumatera Utara	Organization and Management Review related to Sustainable Supply Chain Management	GPI-16

Service .		Universitas Sumater		Management by Sustainable Supply Cl	nain	GP!-17
Line	dian	Universitas Sumatera	Utara	Effectiveness of Communication, Information and Education in Implementing the Samily Di		GPI-18
Department of Ingineering 11		Department of Indust Engineering , Universi	rial	REDESIGN THE DISTRIBUTION CACHEROS		
Ri Store		Surnatera Utara	1.05	THE SUSTAINABILITY OF LIQUIFIED PETROLEUM GAS SUPPLY I	N	GPI-19
Martin		Faculty of Nursing, Universitas Sumatera	Utara	KNOWLEDGE AND NUTRITIONAL STATUS OF ELDERLY	-	GPI-20
- Company		Faculty of Nursing, Universitas Sumatera L	1	The Correlation between Food Consumption Pattern and Nutritional Status among Street Children In Shelter Home, Mod City		GPI-21
Ster Arrays	Ariga	Faculty of Nursing, Universitas Sumatera U	tara	Effectiveness of Demonstration and Local		GPI-22
Online Treat		Faculty of Nursing, Universites Sumatera Un	ara	Examination of Vital Sign on Clinical Skill in the Nursing Student USU  PATIENTS 'ABILITY TO MAKE NUTRITIONAL NEEDS DURING HEMODIALYSIS IN MEDIAN, INDICAMENTAL NEEDS DURING	s of	
Namen of Sta	pu I	Faculty of Nursing. Universitas Sumatera Ut	-	Correlation between Steen Overla		GPI-23
Smary funk	=   }	aculty of Nursing, Iniversitas Surnatera Ut,		Behavior of TB-DM Patients in Made Associated Medan, Indones	ia	SPI-24
Sertish	1.5	aculty of Nursing, Iniversitas Sumatera Uta		THE BEHAVIOUR OF ECREAN CONTRACT		GPI-25
Set Mada	Fa	eculty of Nursing		VILLAGES IN MEDAN	1	SPI-26
Sample Company	U	niversitas Sumatera Uta	ra 1	Model Application Of Kentong SOSA, Abon Fish Lele, And SMS in The Discussion Of The Lung To Transmission Chain in Medan 2018	6	PI-27
	Un	culty of Nursing. riversitas Sumatera Utar	10	Ommunity Behavior in Prevent as 0.1		Di aia
man Sudar	so ST	E IBBI, Medan	1 1/1	VarPLS Approach for Modelling 2.1		PI-28
Bismyst	STI	E IBBI, Medan	Sa	atisfaction Customer Loyalty Through Customer	69	N-10
				ariance-Based SEM Approach for Modeiling Customer Itisfaction Mediating of Product Quality and Service Quality on Istomer Loyalty	GP	1-30
Faydav Trang Silalah	Poli	teknik Pembangunan				
mar indah marginangin	Polit	anian Medan teknik Pernbangunan	LEV	VANCIAL ANALYSIS OF INTEGRATION OF BEEF CATTLE LIVESTOCK ID OIL PALM IN KOTA WARINGIN REGENCY VEL OF APPLICATION OF POST-HARVEST COCOA (THEOBROMA CAO L.) TECHNOLOGY BY FARMERS WAS TO COCOA (THEOBROMA	GPI	-31
- Courawaty	Facu	anian, Medan Ity of Agriculture,	LAN	VIGKAT REGENCY	GP)	32
	Unive	ersitas Riau	APP	MPARATIVE ANALYSIS OF INCOME ON PALM OIL PRODUCTION WEEN THE LAND APPLICATION (LA) AND NON LAND LICATION (NLA) WASTE MANAGEMENT IN LUBUK DALAM ATE OF PTPN V. SIAK DISTRICT, REMARKS	GPI-	33
Mardesci	Unive (UNIS	rsitas Islam Indragin I), Tembilahan - Riau	DET	ERMINATION of VALUE-ADDED and CONTRIBUTING ANIZATION in the DEVELOPMENT	GPI-3	4
ing Paman sal	Facult	ty of Agriculture, rsitas Islam Riau	FARM	O INDUSTRY  M MACHINES DENSITY AND APPLICATION LEVEL ON SMALL- E RICE FARMING IN REGENCIES OF RIAU PROVINCE	GPI-3	5
na Putra Utama	Faculty Univer	v of Agriculture, Sitas Bengkulu	THER	IOLE OF FARMERS CONTACTE POSS		
- Cahyadinata		sitas Bengkulu	FARM	LERS GROUPS IN SELUMA DISTRICT, BENGKULU PROVINCE	GPI-36	3
Adipresetyo	Faculty	of Agriculture,	Indone	esia) Province,	SPI-37	
	Universi	itas Bengkulu	Develo	oring Strategy for Increasing the Adoption of Indonesia sable Palm Dif Production System by Smallholder Farmers	PI-38	1800

ovation

Damres Uker	Faculty of Agriculture, Universitas Bengkulu	POTENTIAL AVAILABILITY OF RAW MATERIALS AND BUSINESS PERCEPTIONS IN THE DEVELOPMENT OF PRABERBY COFFEE IN KEPAHIANG DISTRICT, BENGKULU	GPI-39
Irned Ardenis	Faculty of Agriculture, Universitas Bengkulu	EXPLORING FACTORS AFFECTING SUSTAINABILITY OF COFFEE FARMING: A STRUCTURAL EQUATION MODELING STUDY	GPI-40
Nusril	Faculty of Agriculture, Universitas Bengkulu	POTENCY OF AGRICULTURAL SUBSECTORS IN PROVINCE ECONOMY ON THE SUMATERA REGION, INDONESIA	GPI-41
Ketut Sukiyono	Faculty of Agriculture, Universitas Bengkulu	Husband's And Wife's Housework Time Allocation among Fishery Households In Bengkulu City: Does Working Wife Have an Impact?	GPI-42
Eliza	Dept. of Chemistry FMIPA, Universitas Sriwijaya	GREEN SYNTHESIS SILVER NANOPARTICLE USING EXTRACT OF KECAPI (Sandoricum koetjape) TO INHIBIT FLINGAL GROWTH Neofusicoccum parvum	GPI-43
Mirza Antoni	Faculty of Agriculture, Universitas Sriwijaya	DETERMINANT FOR SOURCES OF PRODUCTION COSTS CHOICE BY BICE FARMERS IN INDONESIA	GPI-44
Sawanii Hasibuan	Master of Industrial Engineering Program, Universitas Mercu Buana, Jakarta	FRAMEWORK OF SUSTAINABILITY PERFORMANCE MEASUREMENT FOR PALM BIOMASS POWER PLANT	GPI-45
Dian Astriani	Department of Agrotechnology, Universitas Mercu Buana Yogyakarta	THE EFFECT OF CNSL CONCENTRATION AND THE ADDITION OF NATURAL DYES IN BOTANICAL PESTICIDE FORMULATION ON SITOPHILUS ZEAMAIS AND CORN SEED QUALITY	GPI-46
Indira Lanti Kayaputri	Faculty of Agriculture Industrial Technology, Universitas Padjacjaran	REVIEW : THE POTENCY OF BEE POLLEN FROM STINGLESS BEES AS FUNCTIONAL FOODS	GPI-47
Ratu Safitri	Study Program of Biotechnology, Postgraduate Study, Universitas Padjadjaran	Biodegradation Of Black And Red Remazol textile Dyes By Bacterial Strains Isolated From River Contaminated Dyewaste Effkient	GPI-48
Ririn Regiana Dwi Satya	IPB University	A DIGITAL BUSINESS MODELLING FOR GREEN SUPPLIER SELECTION OF POTATO CHIPS AGROINDUSTRY	GPI-49
Lely Herlina	Departement of Agro- Industrial Technology, Faculty of Agricultural Technology, IPB University	Business Process in Production and Distribution Planning: A case of shrimp agro-industry supply chain	GPI-50
Nuraeni Dwi Doctoral Program nl Dharmawati Agricultural Science, Universitas Sebelas Maret, Surakarta		ANALYSIS OF SOFTENER EFFECTIVENESS IN REDUCING HARDNESS OF BUILER FEED WATER IN CRUDE PALM OIL MIL	GPF51
Ari Astuti	Universitas Sarjanawiyata Tamansiswa, Yogyakarta	PROSPECTS FOR RED ONION (Allium cepa L.) FARMING DEVELOPMENT IN THE LIME FIELD	GPI-52
Nita Kusumawati	Universitas Negeri Surabaya	Exploration and Standarization of Coconut Fiber Waste Utilization in Batik Dyeing Process	GPI-53
Asrul Bahar	Universitas Negeri Surabaya	Strengths and Weaknesses of Halal Gelatin Based on Bovine and Goat Skin Gelatin as Alternative Substitute for Pig Skin	GPI-54
A Shalikin	Industrial Engineering Department, Faculty of Engineering, Universitas Sumatera Utara.	LEAN APPROACH ON HALAL CERTIFICATION SERVICE SYSTEM USING INTEGRATED COST VALUE STREAM MAPPING	GPI-55
A. Shalihin	industrial Engineering Department, Faculty of Engineering, Universitas Sumatera Utara,	THE POINT OF CRITICAL HALAL SUPPLY CHAIN MANAGEMENT IN INDUSTRY MANUFACTURING	GPI-56
Ummi Sholikhah	Faperta Universitas Jember	ANTHOCYANIN CONTENT IN SOME BLACK RICE CULTIVARS	GPI-57
Dwi Erwin Kushianto	Universitas Jember	THE GROWTH AND CRYSTALLIZATION IN AROMATIC PENDCK TUBAN RICE CULTIVATED BY APPLYING MIXED ORGANIC MATTER, AGROMINERAL AND MICROORGANISMS IN JEMBER, INDONESIA	GPI-S8

Nita Kuswanihan	Agriculture Industrial Technology Department, Agricultural Technology Faculty, Universitas Jember	BUILDING A DEVELOPMENT STRATEGY FOR ROBUSTA COFFEE AGROINDUSTRY IN ARGOPUPO MOUNTAIN AREA, JEMBER REGENCY, EAST JAVA, INDONESIA	GPI-57
Silvana Maulidah	Faculty of Agriculture, University of Brawijaya	SUSTAINABLE BUSINESS MODELS: CHALLENGES ON POTATO AGRO-INDUSTRY SMES	GPI-60
Andan Linggar Rucitra	Faculty of Agricultural Technolog, Universitas Brawijaya	Integration of Statistical Quality Control (SQC) and Failure Mode Effect Analysis (FMEA) Method of Tea Product Packaging	GPI-61
Ardaneswari Dyah Pitaloka Citraresmi	Universitas Brawijaya	RISK ANALYSIS IN THE DISTRIBUTION PROCESS OF FROZEN SHRIMP	GPI-62
Azimmatul Ihwah	Faculty of Agricultural Technology, Universitas Brawijaya	CONSUMER PREFERENCES TOWARD INOVATION OF HANDMADE ART-PAPER FROM ARECA-PALM FIBER USING CONJOINT METHOD	GPI-63
Andy Kerniawan	Faculty of Agriculture, University of Brawijaya	Sustainable Community Livelihood Strategy Around the Ternate- Tidore Protected Forest Management Area North Maluku Province	GPI-64
Retno Kawuri	Departmenet of Biology FMIPA Universitas Udayana	Molecular identification and Determination of Chemical Components in Extract of Streptomyces KCM2 by GC-MS spectrometry	GPI-64
Made Antara	Universitas Udayana	STRATEGY TO MAINTAIN OF THE REGIONAL FOOD SECURITY IN BALL PROVINCE, INDONESIA	GPI-65
Ni Made Ayu Gemuh Rasa Astiti	Universitas Warmadewa	Impact of marketing of Ball cattle calf to the income of farmers	GPI-66
Mardiyani Sidayat	Faculty of Agriculture, Universitas Khairun, Ternate	Sustainable Practices: the role of farmer in maintaining the sustainability of terubuk (Sacharum Edule) vegetable in Tidore- North Maluku-Indonesia	GPI-67
Mila Fatmawati	Faculty of Agriculture, Universitas Shairun, Ternate	DETERMINANT OF CHICKEN INCOME IN TERNATE CITY	GPI-68
Fatmawati Kaddas	Faculty of Agriculture, Universitas Khairun, Ternate	DETERMINANT OF CHICKEN INCOME IN TERNATE CITY	GPI-58
Norman de Jesus	Pampanga State Agricultural Universality (PSAU), Magalang, Pampanga- Philippines	VOLUME AND AVAILABILITY OF BANANA AND WATER LILY AND THEIR UTILIZATION AS FEED INGREDIENTS FOR GOATS IN LUZON-PHILIPPINES	GPI-69
Reta	Politani Negeri Pangkep, Sulawesi Selatan	The Fermentation Of Parchment Ohmic Technology Used To Process Coffee Beans (A Wei Black Coffee) Aroma	GPI-70
Wan Haniza	Universitas Medan Area	SUSTAINABILITY MODEL FOR PRIVATE HIGHER EDUCATION OF NORTH SUMATERA, INDONESIA	GPI-71
Mohamad Sazuan B Sahrom	University Kebangsaan Malaysia	CRYSTALLINITY OF SOME RICE GROWN IN ASEAN COUNTRIES BY XRD TECHNIQUE	GPI-72
Sri Desfita	STIKes Hang Tueh Pekanbaru	CHARACTERISTIC OF FOREST HONEY FROM SEVERAL AREAS IN RIAU PROVINCE	GPI-73
Bohari M Yamin	Publication Enhancement Unit, UKM	THE MORPHOLOGY OF CILEMBU SWEET POTATO AFTER COOKED BY BOILING IN WATER, BAKED AND MICROWAVE IRRADIATION	GPI-74
Mohamad Hasnul Nam Abd Hamid	University Kebangsaan Malaysia	MORPHOLOGY AND ELEMENTAL DISTRIBUTION OF MANDOTI SALUNKANAN GELATINOUS RICE CULTIVATED IN SOUTH SULAWFSI, INDONESIA	GPI-75
rma Lisa Sridanti	STIPER Rejang Lebong	Genetic Variability Of Quality Properties Of Arabican Coffee Breeds In Highland Jang-Hiang-Bong	GPI-76
Mohd Noorsyakir Septel Yazan	Center for Research and Instrumentation Management, Universiti Kebangsaan Malaysia	THE SYNTHESIS OF NANO CALCIUM OXIDE AND HYDROXYAPATITE FROM THE SHELLS OF INDONESIAN CUTTLEFISH (Sepia sp.)	GPI-77
ens Sharif	Universiti Kebangsaan Malaysia	MORPHOLOGICAL STUDY of RHIZOBACTERIA TREATED and UNTREATED POTATOES by SCANNING ELECTRON MICROSCOPY	GPI-78
St Halimah 8t	Fakulti Sains Gunean, Universiti Teknologi MARA	Synthesis and Controlled Release study of 4-Chloro-2- Methylphenoxyacetic Acid And 3,4-Dichlorophenoxyacetic Acid intercalated in Zinc Layered Hydroxide Host Carrier	GPI-79

iti Norasmah urip	Malaysia	Pineapple Leaf Fibers (PALF)/ Polyethylene Terephthalate (PET)  Flectrospun Nanofibers: Effect of Ratio on Wetting, Structural &  Thermal Properties	3PI-80
lermogenes A.Paguia	Bataan Peninsula State University, Philippines		GPI-81
lanilyn Hidalgo	Central Bicol State University of Agriculture	LIVELIHOODS OF MOUNTAINOUS SITES IN VIETNAM AND PHILIPPINES: ARE THEY THREATENED FROM COLD SPELL AND TYPHOON?	G21-82
Phatnawatch Nimkum	King Mongkut's University of North Bangkok (KMUTNB)	Using IoT based Technology for Monitoring Sustainable IBC Aquaponics System in Raising Malayan Kelah Fish	GPI 83
ла. Teresa В. Irag	CENTRAL BICOL STATE UNIVERSITY OF AGRICULTURE	Economic Analysis of Cacao (Theobroma cacao) Production in Camarines Sur, Philippines	GPI-84
Md Aminul Islam	Agronomy and Soil Science, University of New England, Armidale, Australia	THE ROLE OF FARMERS' PERCEPTION OF SALINITY AND ADAPTATION STRATEGIES FOR ENSURING FOOD SECURITY: EVIDENCE FROM COASTAL RICE GROWING AREAS OF BANGLADESH	GPI-85
Prapatsorn Kittimanorom	Rajapruk University, Thailand	The relationship between internal control and Creative Accounting risk management of SMEs entrepreneurs in Bangkok Metropolitans	GPI-86
Ma Cresilda M. Caning	Central Bicol Stata University of Agriculture	Innovation management and practices of agri-based SMEs in Camarines Sur, Philippines	GPI-87
Ramona Isabel S. Ramirez	Central Blcol State University of Agriculture	CAPACITATING FARMING FAMILIES IN FARMING COMMUNITIES FOR RESILIENCY AND POVERTY ALLEVIATION	GPI-88
Manoj K S Chhangani	Government Meera Girls College, Udaipur- (Rajasthan), INDIA	GREEN CHEMISTRY: APPROACH FOR HEALTHY ENVIRONMENT AND SUSTAINABILITY	GPI-89
Kallayanee Tengpongsathon	King Mongkut's Institute of Technology Ladkrabang, Thailand	THE HALAL FOOD PROFILE IN THAI CONSUMER ATTITUDE BY USING FLASH PROFILE METHOD	GPI-90
Inanpi Hidayati Sumiasih	Universitas Trilogi, Jakarta	DESIGN AND CONCEPT OF AGRIEDUTOURISM PARK USING SUSTAINABLE AGRICULTURE PRINCIPLE AT ATTAQUE FARM F	GPI-91
Nerisa Paladan	Partido State University, Philippines	Uplifting Farmer's Association's Communities: A Training Needs Assessment	GPI-92
Nathitakarn Pinthukas	Faculty of Agriculture, Chiang Mai University, Thailand	Livestock Raising following the sufficiency economy philosophy in the area Mac Chaem district Chiang Mai Province	GPI-93
Mae S.A. Lustre	Central Bicol State University of Agriculture, Philippines	Production and Marketing Practices of Agritourism Farms in the Blook Region, Philippines	GPI-94
Maria Victoria P. Balderas	Central Bicol State University of Agriculture, Philippines	Resource Inventory of Organic Diversified Crop Farms with Meliponiculture in Camarines Sur	GPI-95
Suwattanarwong Phanphet	Department of Industrial Technology, Faculty of Science and Technology, Chiang Mai Rajabhat University, Thailand	The Building a Brand and Participation in Decreased Tackling Haze effects and Particulate matter Less Than 2.5 Micron (PM2.5) A Case Study: A Group of Students of Yuppara) Wittayalai School, Chiang Mai Province, Thailand	GPI-96
Zangta Sang Energy Research and Development Institute- Nakornping, Chiang Mai University		ANAEROBIC DIGESTION OF STARCH WASTEWATER: THE EFFECT OF PH AND OXIDATION REDUCTION POTENTIAL ON THE REACTOR PERFORMANCE	GP1-97
Prapatsorn Kittimanorom	Rajapruk University, Thailand	COMPENSATION MANAGEMENT AND EMPLOYEE MOTIVATION OF KUNMING HAITIAN HOTEL	GP-98
Suratman Sudjuc	1)Postgraduate Study Program in Agriculturat Sciences, Khairun University, Ternate, Indonesia	ANALYSIS OF POTENTIAL AND STRATEGY FOR DEVELOPMENT OF FOOD PLANTS IN EAST HALMAHERA DISTRICT	GPI-99
Pritteshkumar K Patel	C G Bhakta Institute of Biotechnology, Uka Tarsadia University, India	Pathogenic variability of red rot pathogen Colletotrichum falcatum under South Gujarat condition	GPI-100

Tone Soon Kong	Faculty of Applied Sciences, Universiti Teknologi MARA	Growth and metal uptake of spinach grown from soil amended with co-compost of cat manure and spant coffee ground	GPI-101	
Nas Anitra Yusof	Department of Process and Food Engineering, Faculty of Engineering, Universiti Putra Malaysia	THE APPLICATION OF CLAY POT FOR MOISTURE REDUCTION OF GENIOTRIGONA THORACICA STINGLESS BEE HONEY	GPI-102	
Sambang Herry Pamoma	Agroindustrial Technology Study Program, Faculty of Agricultural Technology, Jember University, Indonesia	Diagnosis Model of Production Risk in Sugar Agroindustry		
Bahamad Hasnul Baim 4 Hamid	Research and Instrumentation Center, Universiti Kebangsaan Malaysia	MORPHOLOGY AND ELEMENTAL DISTRIBUTION OF MANDOTI SALUNKANAN GELATINOUS RICE CULTIVATED IN SOUTH SULAWESI, INDONESIA	GPI-104	
Nerul Athirah Refressed Adam	Universiti Teknologi Mara, Shah Alam, Selangor, Malaysia	Direct and indirect regeneration of Melastoma decembidum from nodal explants	GPI-105	
Tohuya Ahmad	Universiti Teknologi MARA, Shah Alam, Selangor 40450, Malaysia	The potential of areca nut of Areca catechu Linn, as a functional food ingredient based on its antidiabetic properties	GPI-106	
terrale terraley	Faculty of Applied Sciences, Universiti Teknologi MARA, Malaysia	Congo Red Dye Removal from Aqueous Solutions using Palm Oil Empty Fruit Bunch	GP1-107	
Sukor	Department of Food Science, Faculty of Food Science and Technology, Universiti Putra Malaysia	ISOLATION, IDENTIFICATION AND ANTIBIOTIC SUSCEPTIBILITY OF BACTERIA FROM HUMAN BREAST MILK	GPI-108	
See Findaus Bt  See Amend Nurul	Universiti Teknologi MARA, Malaysia	Physico-chemical and sensory characteristic of functional coffee - A case study of UNACOFFEE	GPI-109	
New Abidin Ab Aziz	Universiti Putra Malaysia	PERFORMANCE EVALUATION OF PORTABLE HOT WATER JET FOR FROZEN MEAT INDUSTRY APPLICATION	GPI-110	
Bellata	Sekolah Tinggi Teknologi Dumai	THE ROLE OF HUMAN RESOURCE COMPETENCY IN IMPROVING LOGISTIC PERFORMANCE	GPI-111	
YENNIE	Research Center For Marine and Fisheries Product Processing and Biotechnology, PhD Student of IPB University	EFFECT OF DIFFERENT DRYING METHODS ON CHARACTERISTICS OF DRIED SALTED NOMEI (Harpodon nehereus) FISH	GPI-112	
Rus Pharingan Justic	Department of A CORRELATION BETWEEN the INCREASED TEMPERATURES		GPI-113	
Nam Promogen Spale	Department of Agrotechnology, Universitas 17 Agustus 1945, Samarinda	Study of Changes in Forest Cover and Temperature at West Kutai Regency	GPI-114	
Senatra	Universitas Mahaputra Muhammad Yamin Solok	The Preservation Epididymis Spermatozoa of Buffalo Into Talp Diluent With Addition of Serum Level	GPI-115	
To Castal	Universitas Mahaputra Muhammad Yamin Solok	EFFECT FERMENTATION OF SUGARCANE TOPS WITH Phanerochaete chrysosoporium ON THE ACTIVITY OF LACCASE, LIGNIN PEROXIDASE AND MANGANESE PEROXIDASE ENZYMESEFFECT FERMENTATION OF SUGARCANE TOPS WITH Phanerochaete chrysosoporium ON THE ACTIVITY OF LACCASE, LIGNIN PEROXIDASE AND MANGANESE PEROXIDASE ENZYMES	GPI-116	
New Wega Sari	Faculty of Agriculture, Universitas Mahaputra Muhammad Yamin Solok	THE INFLUENCE OF SOME TYPE OF MANURE ON THE GROWTH AND PRODUCTION OF ELEPHANT GRASS (Pannisetum Purpureum) CV. TAIWAN IN ACID SOIL	GPI-117	
- Anna	Faculty of Agriculture, Universitas Mahaputra Muhammad Yamin Solok	PARTMERSHIP PATTERN BETWEEN FARMERS DEVELOPMENT WITH COOPERATIVE SOLOK RADIO COFFEE IN LEMBAH GUMANTI SUBDISTRICT SOLOK REGENCY	GP-118	

Helty Andriani	Universitas Mahaputra	Adaptation Tests of Some Shallots Varieties on Lowlands Area In	GPI-119
	Muhammad Yamin Solok	the Pesisir Selatan District West Sumatera	
Rohmatulloh	Kemeterian ESDM Jakarta	CHARACTER EDUCATION of FOOD LOCAL CULTURE VALUES in the PEOPLE of KAMPUNG ADAT CIRENDEU THROUGH EXEMPLARY	GPI-120
Ghazalie Ghazalle	Indonesian Defense University	STRATEGY to REALIZE NATIONAL ENERGY SECURITY IN MASELA BLOCK	GPI-121
Mutiara Dewi Pupsitawati	Universitas Trilogi, Jakarta	ORGANIC FERTILIZER FROM WASTE OF STARFRUIT AS: SUSTAINABLE AGRICULTURE SOLUTION	GPI-122
Agoës Thony Ak	STIPER Sriwigama- Palembang, Indonesia. Agribisnis Building, South Sumatera Palembang. Indonesia	ANALYSIS OF FACTORS AFFECTING THE PRODUCTIVITY OF SWAMPY LOWLAND RICE FARMING AND ITS CONTRIBUTION TO HOUSEHOLD INCOME IN OGAN KOMERING ILIR SOUTH SUMATERA	GPI-123
Agus Susatya	Dept of Forestry, University Bengkulu, Bengkulu Indonesia	VULNERABILITY AND ITS INFLUENCING FACTORS TO CLIMATE CHANGE OF THE VILLAGES AROUND KERINCI SEBLAT NATIONAL PARK: A CASE STUDY ON FINANG BERLAPIS DISTRICT, LEBONG REGENCY, INDONESIA	GPI-124
Made Antara	Study Program of Agribusiness, Faculty of Agriculture, University of Udayana, Bali, Indonesia	STRATEGY TO MAINTAIN OF THE REGIONAL FOOD SECURITY IN BALL PROVINCE, INDONESIA	GPF-125
		Product	Developmen
Nurjanna Albaar	Khairun University, Ternate 97719, Indonesia	Characterization Carrot Quality Using Packaging Primary and Secondary During Transportation Simulation	PD-01
Rina Yenrina	Fateta Universitas Andalas	Antioxidant Activity and Poliphenols Content of Red Ginger. Powder with Various Drying Methods	PD-02
Kesuma Sayuti	Fateta Universitas Andalas	The Effect of Addition of "Senduduk" Leaves (Melastoma malabathricum L.) on the Characteristics of Crackers	PD-03
Rini Bahar	Fateta Universitas Andalas	CHARACTERIZATION OF PROTEIN IN DENDENG LAMBOK AS A TRADITIONAL MINANGKABAU FOOD - INFLUENCED BY COOKING METHODS	PD-04
Tuty Anggraeni	Fateta Universitas Andalas	Catechin, Epicatechin and Epigaillocatechin Gailate of Gambir Tea With Telang Pigment	PD-05
Tuty Anggraeni	Fateta Universitas Andalas	Effect of Green and Black Tea Processing : The DPPH Radical Scavenging Activity, IC50 Value, Total Polyphenols, Catechin and Epigallocatechin Gallate	PD-06
Mirnawati	Faculty of Animal Science, Universitas Andalas	The Effect of Fermented Palm Oil sludge with combination Phanerochacte cryspsporium and Neurospora crassa on Broiler Performance	PD-07
Mirnawati	Faculty of Animal Science, Universitas Andalas	Broiler Performance on Utilization of Fermented Palm Kernel Cake with Bacillus subtilis in Ration	PD-08
l Ketut Budaraga	Faculty of Agriculture, Universitas Ekasakti, Padang	The Antioxidant Characteristics of The Liquid Smoke of Cocoa Shell (Theobroma Cacao, L) In Different Water Content Variations	PD-09
l Ketut Budaraga	Faperta Univ. Ekasakti, Padang	Antimicrobial Activity and Minimum Killing Concentration of Uquid Smoke of Cocoa Fruit Skin on Growth of Fungus Lasiadiplodia Theobromae	PD-10
SALVIA. S	Politeknik Pertanian Negeri Payakumbuh	THE QUALITY OF PE GOAT MILK SUPPLEMENTED WITH Chlorella vulgaris	PD-11
SALVIA, S	Politeknik Pertanian Negeri Payakumbuh	PRODUCTIVITY OF PE DAIRY GOATS FED DIET WITH TOFU PULP AND SOYBEAN SHELLS	PD-12
Rince Alfia Fadri	Department of Food Technology, Politeknik Pertanian Negeri Payakumbuh	EVALUATION of THE VALUE of DEFECTS AND TASTE OF arabica COFFEE (Coffee arabica L) MANUFACTURED BY WEST SUMATRAN COFFEE PROCESSING UNIT	PD-13

Rince Alfia Fadr	Department of Food Technology, Politeknik Pertanian Negeri Payakumbuh	AROMA INTENSITY ACIDITY, ACIDITY, AND FAVORITE STRAWBERRY DRINK TYPE	PD-14
Andi Eviza	Politeknik Pertanian Negeri Payakumpuh	Performance Test Of West Sumatera Kahwa Daun's Roaster	PO-15
Evawati	Politeknik Fertanian Negeri Payakumbuh	Study on Making instant Mangostahurt of Encapsulation with Varying Concentrations and Type of Coating Material	PD-16
Mutia Elida	Politeknik Pertanian Negeri Payakumbuh	THE VIABILITY OF PROBIOTIC LB PARACASEI SSP PARACASEI MLB IN BIO-CAPSULES CARRAGEENAN-SKIM MILK	PD 17
N M R Suarni	Study Program of Biology, Faculty of Mathematic and Natural Sciences	Substitution of commercial feed with moringa leaf meal to improve the sperm quality of male rabbit	PD-18
Bahlina Mohd Nur	Faculty of Agriculture, Universitas Sylah Kuala	THE EFFECTS OF DIFFERENT SOURCES OF CARBOHYDRATE AND FERMENTATION TIME ON QUALITY OF MAMAN'S VEGETABLE (Cleome gynandra L.)	PD-19
Fachrul Razi	Faculty of Engineering, Universitas Sylah Kuala	THE ANTIOXIDANT RECOVERY OF Syzygium cumini L. FRUIT JUICE USING COMBINATION OF ULTRAFILTRATION/NANOFILTRATION MEMBRANE	PD-20
Novia Mehra Erfiza	Faculty of Agriculture, Universitas Sylah Kuala	DEVELOPMENT OF COCONUT WATER - BASED KEHR AS A FUNCTIONAL BEVERAGE	PD-21
Hafidh Hasan	Faculty of Engineering, Universities Sylah Kuala	Numerical modeling of heat transfer to gain insight in the fish canning sterilization process for various filling medium	PD-22
Murna Muzaifa	Faculty of Agriculture, Universitas Syiah Kuala	PHENOTYPIC IDENTIFICATION OF LACTIC ACID BACTERIA FROM CIVET (Paradoxorus hermaphroditus)	PD-23
Murna Muzaifa	Faculty of Agriculture, Universites Sylah Kuala	Study of Pectin Production from Coffee Pulp under Different Time and Temperature	PD-24
Herman Fithra	Department of Civil Engineering, Universitas Malikussaleh, Lhokseumawe, Aceh	Mass Evacuation Transportation Model using Hybrid Genetic Algorithm	PD-25
Dahian Abdul ah	Department of Civil Engineering, Universitas Malikussaleh, Lhokseumawe, Aceh	Model Slack Super Efficiency and Reverse Efficiency for Activity Benchmarking	PD-26
ismail Sulaiman	Faculty of Agriculture, Universitas Sylah Kuala	Effect of Fermentation Media on The Quality of Arabica Wine Coffee	PD-27
Fahrizal	Faculty of Agriculture, Universitas Sylah Kuala	EFFECTS OF CHITOSAN AND GLYCEROL ON THE PROPERTIES OF BIOFILM MADE OF COMPLEX FISH SKIN GELATIN AND CHITOSAN	PD-28
Normalina Arpi	Faculty of Agriculture, Universitas Syiah Kuala	CHEMICAL CHARACTERISTICS OF CASCARA, COFFEE CHERRY TEA, MADE OF VARIOUS COFFEE PULP TREATMENTS	PO-29
Iddion Nizori	Universitas Jembi	DESIGN, DEVELOP AND PERFORMANCE TEST OF DRYING RACK FOR KERINGI ARABICA COFFEE BEANS QUALITY	PD-30
Addion Nizori	Universitas Jambi	Influence of Commut Oil composition as Cocoa Butter Replacers in The Development of Dark Chocolates Products as Functional Fouris from Jambi Cocoa Bean Origins	PD-31
Mksusanti	Dept. of Chemistry FMIPA, Universites Sriwijaya	THE INCORPORATION OF SAPPAN WOOD EXTRACTS IN AREN STARCH TO MAKE THE ANTIBACTERIAL AND ANTIOXIDANTS FILM	PD-32
lfita	Dept. of Chemistry FMIPA, Universitas Sriwijaya	CHEMICAL COMPOUNDS FROM THE ANTIBACTERIAL ACTIVE FRACTION OF Cordyline fruticosa (L)	PD-33
li Sahara	Universitas Srivijaya	THE EFFECT OF GIVING CHITOSAN TO THE ACCESSORIES ORGAN (HEART AND PANCREAS) AND REPRODUCTIVE ORGAN (OVARIY AND OVIDUC) ITIK TEGAL	PO-34
irki Palupi	Faculty of Agriculture, Universitas Sriwijaya	The effect of added blomass by Fermented of pineapple waste and Indigofera zollingeriana leafs to nutrient digestibility as in vitro	PD-35
tri Nova Liya	Faculty of Agriculture, Universitas Sriwljaya	Effect of supplementation of natural antioxidant in feed on the performance of locally grown chicken	PD-36
effi Heza Walanti	Universitas Sriwijaya	PHARMACOVIGILANS ASPECT OF BILIMBI (AVERRHOA BILIMBI) FOR FISH	PD-37

ent

nur Imsya	Faperta Universitas Sriwijaya	DIFFERENT UREA LEVELS ON CHANGE OF NUTRITION AND FIBER CONTENTS	-39
eni Radiani Arifin	Faculty of Agricultural Industrial Technology, Universitas Padjadjaran	NANOCRYSTALLINE CELLULOSE PROPERTIES FROM OFF CHEM- EXTRACTION METHODS AS REINFORCEMENT BIONANOCOMPOSITE FILM: A REVIEW	-35
Roostita L. Balia	Faculty of Animal Husbandry, Universitas	THE EFFECT OF PROBIOTIC SUPPLEMENTATION ON CIVER BIOCHEMISTRY AND COLON MORPHOMETRIC IN BROILER BIOCHEMISTRY AND COLON MORPHOMETRIC IN BROILER	
lerlina Marta	Padjadjaran Universitas Padjadjaran Indonesia	AND PHYSICOCHEMICAL PROPERTIES OF BANANA (Musa spp.)	0-41
Nia Boru Ritonga	Faculty of Agricultural Technology, Andalas University, Padang Indonesia	FORMULATION AND EVALUATION OF SKIN LOTION WITH VCO RAW MATERIAL WITH ADDITION OF SECANG TIMBER (Caesalpinia sappan) AS NATURAL COLORS	D-42
Tuti Widjastuti	Faculty of Animal Husbandry, Universitas	Application of Mangosteen Peel Extract (Garcina Inal gustatus Ey As Feed Additive in Ration for Performance production and Egg As Feed Additive in Ration for Performance production and Egg	PD 43
Akhmad Endang Zainal Hasan	Padjadjaran, indonesia  Department of 8 ochemistry Faculty of Mathematics and Natural Sciences, IPB University, Jl. Lingkar Akademik, Kampus IPB	Diversity of Secondary Metabolites Produced by a Pilot Plant Scale from Endophytic Fungi Isolated from Soursop Leaves (Annoha muricata L.)	PD-44
Akhmed Endang Zainal Hasan	Darmaga, Bogor, Indonesia Department of Biocnemistr Faculty of Mathematics and Natural Sciences, IPB University, Jl. Ungkar Akademik, Kampus IPB	70% ETHANOL EXTRACT OF PROPOLIS	PD-45
Henny Purwaningsih	Darmaga, Bogor, Indonesia d Chemistry Department, Faculty of Mathematics an Science, IPB University. Darmaga Campus, Chemis Building, Tanjung Street, Bogor, 16680, Indonesia	ry land the same of the same o	PD-46
Adi Ruswanto	Universitas Sebelas Mare Surakarta	THE STUDY OF CAROTENE CONTENT AND IODINE VALUE OF OIL FROM DIFFERENT RIPENING LEVELS AND STORAGE DURATION OF PALM FRESH FRUIT BUNCHES	P)-47
Hamidin Rasuli	Agricultural Doctor Progr Sebelas Maret University	Mechanical and Barrier Properties of Kappa Carrageenan-Based	PD-48
Ngatirah	(UNS)  Institut Pertanian Stiper Yogyakarta; Doctoral Student of Food Science Universitas Gadjah Mad		PD-49
Hasiine	Fakultas Teknologi Pertanian, Universitas Semarang	Optimation of Corn Silk Powder Extracts from Three Indonesian Local Varieties	P0-50
Hamidah Hendrarini	Universitas Pembangur Nasional "Veteran" Jaw	ATTRIBUTES THROUGH THE PISTOETH WILLIAM	PD-51
Sudiyarto	Universitas Pembangu Nasional "Veteran" Jav	PRODUCTS IN SURABATA CITY	PD-52
Páwana Nur		EFFECT OF TASTE, PRICE, LOCATION, AND SERVICE ON PURCHAS DECISIONS (CASE STUDY TAHU KOPECI KECAMATAN KUNINGAN KUNINGAN DISTRICT)	) F933

Pawana Nur Indah	Universitas Pernbangunan Nasional "Veteran" Jawa Timur	SAVOR, LOCATION, PRICE AND SERVICE INFLUENCED TOWARDS PURCHASE DECISION (TAHU KOPECI STUDY CASE IN KUNINGAN SUB-DISTRICT, KUNINGAN DISTRICT)	PD-54
Rahayu Kuswardani	Universitas Negeri Surabaya	SEMPRIT COOKIES USING SUBSTITUTE INGREDIENTS RAMBUTAN- SEED FLOUR and FAT-TYPE PROPORTION	PD-55
Mauren Gita Miranti	Universitas Negeri Surabaya	NUTRITIONAL VALUE AND CONSUMER ACCEPTABILITY OF BISCOTTI MADE FROM RAMBUTAN SEED FLOUR	PD-56
Meda Wahini	Universitas Negeri Surabaya	Rambutan Seed Flour as Substitute Ingredient in Semprit Biscuit with Different Fat Type	PD-57
Sri Wahjuni	Fakultas MIPA Universitas Udayana	ADMINISTRATION OF ETHANOL MUSTARD GREEN (Brassica rapa L) LEAVES DECREASES 8-OHDG (8-Hydroxi-2-Deoxiguanosine) LEVELS IN HYPERGLYCEMIC WISTAR RATS	PD-58
Wiwik Susanah Bita	FMIPA Universitas Udayana	Antibacterial Activity of Milk Banana (Musa paradisiaca L.) Peel Methanol Extract and Its Total Flavonoid and Phenolic Contents	PD-59
IDA AYU RAKA ASTITI ASIH	Universitas Udayana	IN VIVO EVALUATION OF ANTIOXIDANT ACTIVITY OF FLAVONOID GLYCOSIDE EXTRACT FROM TAMARILLO (Solanum betaceurn Cav)	PD-60
Sang Ketut Sudirga	Department of Biology FMIPA, Universitas Udayana	Bioactive Compounds of Mansoa alliacea Leaf Extract has Potential as Botanical Pesticides to Control Colletotrichum acutatum Against Anthracnose Disease on Chili Peppe	PD-61
Sri Soenarsih	Faculty of Agriculture, Universitas Khairun, Ternate	DETERMINATION ON DIVERSITY OF ESSENSIAL OIL FROM NUTMEG (Myristica sp.) NORTH MALUKU	PD-62
fusnaini	Faculty of Agriculture, Universitas Chairun, Ternate	The Characteristics of Volatile Compounds of Kenari (Cenarium Indicum L.) Shell Liquid Smoke	PD-63
Erna Rusliana Muhamad Saleh	Department of Agricultural Product Technology, Universites Khairun, Ternate	THE EFFECT OF BLEACHED SAGO PULP CONCENTRATION ON PHYSICAL AND BIODEGRADABILITY CHARACTERISTICS OF BIOEOAM	PD-64
ndah Rodianawati	Faculty of Agriculture, Universitas Khairun, Ternate	Chemical Physical Characteristics of Essential Dilk from Seeds, Mace, Fruit and Leaf nurmeg (Myristica sp.) Varieties Ternate 1 and Tidore 1.	PD-65
Mulyati M. Tahir	Universitas Hasanuddin Makassar	Study of Making Dark Chocolate with Addition of Ginger Extraction (Zingiber officinale) As Filler Material	PD-66
Andi Sukalnan	Agricultural Technology Education Study Program, Faculty of Engineering, Universitas Negeri Makassar	ANALYSIS QUALITY OF SOFT CHEESE COTTAGE WITH ADDITIONAL OF PINFAPPLE JUICE (ANANAS COMUSUS (L.) MERR) AND LACTORACILLUS FABIFERMENTANS	PD-67
Patnawaty Fadilah	Politeknik Pertanian Negeri Pangkep	EFFEC? OF COMBINE RAW MATERIALS AND FERMENTATION TIME ON QUALITY AND THE NUMBER OF MICROBES OF ORGANIC LIQUID FERTILIZER	PD-68
hariff Ibrahim	Universiti Teknologi Mara, Malaysia	APPLICATION OF CATIONIC SURFACTANT MODIFIED MENGKUANG LEAVES (PANDANUS ATROCAPUS) FOR THE REMOVAL OF REACTIVE ORANGE 16 DYE IN WASTEWATER: A COLUMN STUDY	PD-69
atifa Aini	Faculty Of Agricultural Technology, Andalas University	Technology Of Environmentally Friendly Catechin Extraction Process From Gambir Asalan With Ultrasonic Bath In West Sumatra	Pd-70
ioorlaila Ahmad	Universiti Teknologi MARA	Optimisation of pectin extraction from Roselle (Hibiscus sabdariffa L.) calyces using Response Surface Methodology	PD-71
eslie R. Jorge	Bataan Peninsula State University, Philippines	Marketability of Mango-based Products: Input to Product Development of Locally Farm Produced Mangoes in Central Luzon	PD-72
laseetha V S Janikam	Universiti Teknologi MARA	Effect of Extraction Solvents on Phenolic Compounds of Theobroma Cacao L. By-products using Ultrasound-Assisted Extraction	PD-73
YARIL RAMLI	Faculty of Applied Sciences, Universiti Teknologi MARA	Tannase Production In Selected Agri-Industrial By-products by Aspergillus niger PN1	PD-74
lorrizah Jaefer idik	Faculty of Applies Sciences, Universiti Teknologi MARA, Malaysia	TOTAL PHENOLIC CONTENT OF Typhonium flageliforme LEAVES EXTRACT FROM DIFFERENT GROWTH CONDITIONS	PD-75

Aida Safina Aridi	Universit Futra Malaysia	PHYSICOCHEMICAL PROPERTIES OF CHITOSAN EXTRACTED FROM LEUCAENA LEUCOCEPHALA PODS USING DEPROTENIZATION AND DECOLORIZATION STEPS	PD-76
SITI NOOR HAJJAR BINTI MD LATIP	Universit Teknologi Mara	ANTIFEEDANT AND FEEDING DETERRENT ACTIVITIES OF THE Curcuma longa AND Cymbopogon citratus EXTRACT ON THE APPLE SNAIL	PD-77
Masita Mohammad	Solar Energy Research Institute, SERI, UKM, Malaysia	ISOLATION OF NANOCRYSTALLINE CELLULOSE (NCC) FROM POTENTIAL AGRICULTURAL WASTE RESOURCES (PINEAPPLE LEAVES AND SUGAR CANE) IN MALAYSIA	PD-78
Elsa Cerla Azizi	Universitas Airlangga	The Effect of Tempe Substitution and Addition of Carrot Puree on The Acceptability and Nutritional Value of Sausages for Snacks for School Children	PD-79
Yuli Wibowo	Faculty of Agricultural Technology Universitas Jember	Effect of Seed Type and Harvest Time of Seaweed (Eucheuma Cottonii) on The Quality of Alkali Treated Cottonii	PD-80
Abdul Kadir Kamaluddin	Faculty of Agriculture, Khairun University, Ternate 97719, Indonesia	The Use Of Fishing Tuna Flour Fortification Modified Tapioca Starch in Emergency Food Product	PD-81
Zuife Fitri Ikatrinasari	Master of Industrial Engineering Program, Universitas Mercu Buana. Corresponding	PROCESS DESIGN OF PUREE COOLING IN SMALL MEDIUM INDUSTRY PROCESSING FRUIT	PD-82
		INV	TED SPEAKER
Ir. Helmi	Faperta Universitas Andalas	The Concept of Virtual Farm Academy	INVITED SPEAKER
Azwani Mat Lazim	University Kebangsaan Malaysia	TRANSFORMATION GADONG TUBER STARCH INTO SOPHISTICATED MATERIAL	INVITED SPEAKER
Nuwong Chollacoop	Lab Head, Renewable Energy Laboratory. National Metal and Waterials Technology Center (MTEC), National Science and Technology Development Agency, Thailand	Toward sustainable transport via ASEAN fuel economy roadmap	INVITED SPEAKER
Assoc. Keng-Tung Wu, PhD	Director, Industry Promotion Office for Southeastern Asia (IPOSA) Head, Planning & Marketing Division, International College of Innovation and Industry Lisison (ICIIL). National Chung Hsing University, Talchung, Talwan (ROC)	Conversion of Agri waste Into Biomass Energy Integrated With Micrognids	INVITED SPEAKER
Hanilyn Hidalgo	Central Bicol State University of Agriculture (CBSUA). Philippines	The Concept of Virtual Farm Academy	INVITED SPEAKER
Jeon Geon Han	Thai-Korea Collaboration Research Center, Chiang mai University, Thailand Center for Advanced Plasma Surface Technology, Sungkyunkwan University, Republic of Korea	Emerging plasma technology for next generation agriculture and food processes	INVITED SPEAKER
ROMUALDO C. MARTINEZ, PhD.C	Philippline Center for Postharvest Development and Mecharitation (PhiliMech). Muncz, Nueva Ecija, Philipplines	Sustainable Drying Systems for Agricultural Crops in Rural Communities	INVITED SPEAKER
Wibool Piyawattanametha	Director, Advanced Imaging Research CenterDepartment of Blomedical Engineering, Faculty of Engineering King Mongkut's Institute of Technology Ladkrabang (KMITL), Thailand	Enabling Environment for Entrepreneurship & Disruptive Technology	INVITED SPEAKER
Megh Raj Pokhrel	Central Department of Chemistry, Tribhuvan University, Kirlipur, Kathmandu, Nepal	Agriculture, Food, Energy, and Sustainability in Nepal	INVITED SPEAKER