



FAKULTAS PERTANIAN
UNIVERSITAS MULAWARMAN

Kampus
Merdeka
INDONESIA JAYA

STAFF HANDBOOK

DOCTORAL PROGRAM OF AGRICULTURAL SCIENCE
FACULTY OF AGRICULTURE
MULAWARMAN UNIVERSITY





Prof. Dr. Ir. H. Rusdiansyah, M.Sc.

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Research Interest:

Agronomy,
Plant Breeding

Sinta ID:

6016362

Scopus ID:

57189845525

Orchid ID:

0000-0003-0471-1355

Formal Education:

Bachelor of Agriculture
Mulawarman University, 1986

Master of Science

Bogor Agricultural Institute,
1996

Doctor of Agriculture

Bogor Agricultural Institute,
2002

Office Address:

Gunung Kelua, Kec Samarinda
Ulu, Kota Samarinda,
Kalimantan Timur 75243

Website:

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Recent Publication:

1. Selection of BC1F5 Lines Pandan Ungu/ Kambang/ Pandan Ungu (PU/K/PU) Based on Agronomic Characteristics, 2023
2. Occurrence of BC1F4 Cross Reciprok of Kambang Rice/Purple Pandan//Purple Pandanus Based on Agronomic Characters in Tidal Rice Fields in Sidomulyo Village, Anggana District, 2022
3. Growth and yield of maize plants (*Zea mays* L.) With Mycorrhizal Enrichment and Compound Fertilizer on Post-Coal Mining Land, 2022
4. Edible Part Nutritional Value And Calcium Content In Five Lai-Durian (*D. zibethinus* X *D. Kutejensis*) Fruit Rind From Loa Kulu East Kalimantan, 2021
5. Growth and yield of maize (*Zea mays* L.) Applied by Several Compound Fertilizer Compositions to Post-Coal Mining Land, 2021
6. Growth and Yield of Tomato (*Lycopersicon esculentum* MILL.) on the application of Zn fertilizer and different planting distances, 2020
7. Morphological Characteristics of Batuah Red-Fleshed Durian (*Durio graveolens*), an Endemic Exotic Plant from East Kalimantan, Indonesia, 2020
8. Six potential superior durian plants resulted by cross breeding of *D. zibethinus* and *D. Kutejensis* from East Kalimantan, Indonesia: Initial identification, 2019



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Research Interest:

**Agronomy,
Plant Breeding**

Lecture:

1. Philosophy of Science and Application of Research Methods
2. Ecophysiology of Humid Tropical Plants
3. Selected Topics in Plant Breeding
4. Current Topics in Crop Production
5. Management of Genetic Resources of Tropical Humid Plants
6. Plant Breeding for Stressful Environments

RESEARCH ROADMAP



Current work, Releasing process of superior rice varieties from the cross of East Kalimantan local rice. In 2022 (the proposed varieties are waiting for the results of the analysis of pest and disease resistance, iron tolerance (Fe) and rice quality from BB Padi Sukamandi.



Kampus
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Prof. Dr. Bernatal Saragih, SP, M.Si.

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Research Interest:

Nutrition and Food Science

Sinta ID:

5978410

Scopus ID:

6506392412

Orchid ID:

0000-0002-8506-0947

Formal Education:

Agricultural Product Technology
(Bachelor)
St. Catholic University Thomas
Medan, 1995

Food Science (Magister)
Bogor Agricultural Institute
Food, 2001

Community and Family Nutrition
Study Program (Doctor)
Bogor Agricultural Institute
Food

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Recent Publication:

1. Antioxidant activities (DPPH and ABTS method) from extract of Bangle rhizome (*Zingiber cassumunar*) using different method of extraction, 2024
2. Utilization of the tiwai plant (*Eleutherine americana* merr) as a functional instant drink containing antioxidant, 2024
3. The effect of variations in coffee tiwai as drink products on blood lipid profiles and hematological indices, 2024
4. Substitution of Banana Heart Flour (*Musa Paradisiaca*) and Green Beans (*Vigna Radiata*) to Protein, Fiber and Sensory Steamed Brownies, 2024
5. Use of Tiwai Onion Extract (*Eleutherine americana* Merr) as an Inhibitor of Rancidity in Bulk Cooking Oil, 2023
6. Engineering of rotary system pepper dryer with temperature controller for pepper powder quality improvement, 2023
7. Physical Properties, Organoleptic, Antioxidant Activity And Glucose Response of Tiwai Coffee, 2023
8. The relationship between fruit and vegetable consumption patterns to nutritional status during the Corona Virus Disease 19 (COVID-19) pandemic, 2023
9. Sensory evaluation and antibacterial activity of bee pollen extracts isolated from several stingless bees in two drying methods, 2023
10. The Effect of the Substitution of Banana Blossom Flour (*Musa paradisiaca*) and Mung Bean (*Vigna radiata*) on Proteins, Fiber, and Steamed Brownies Sensory, 2023



Prof. Dr. Bernatal Saragih, SP, M.Si.

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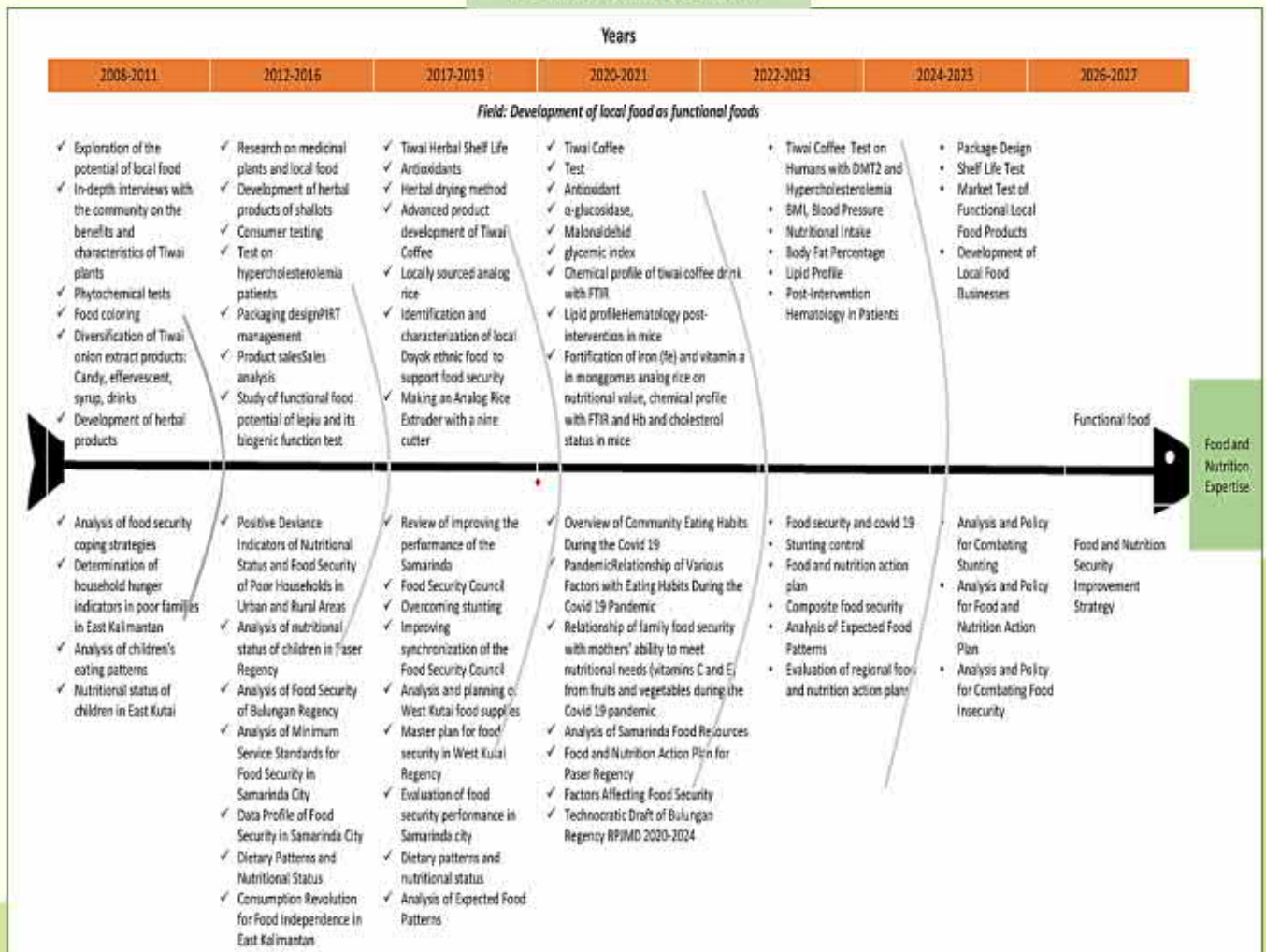
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Research Interest: Nutrition and Food Science

Lecture:

1. Philosophy of Science and Application of Research Methods
2. Advanced Food Science
3. Advanced Agricultural Product Chemistry
4. Quality Management and Food Safety
5. Agricultural Product Processing Techniques
6. Post-Harvest Technology of Tropical Agricultural Products

RESEARCH ROADMAP





Prof. Dr. Oec. Trop. Ir. Krishna P. Candra, M.S.

NIDN:

031076405

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kcandra_99@yahoo.com

Research Interest:

Chemistry and Microbiology of Food/Agricultural Products

Sinta ID:

259986

Scopus ID:

57196435267

Orchid ID:

0000-0003-1358-1329

Formal Education:

Agricultural Industrial Technology (Bachelor) Bogor Agricultural Institute, 1987

Food Science (Magister) Bogor Agricultural Institute Food, 1993

Food Science (Doctor) Christian-Albrecht University of Kiel Germany, 2000

Office Address:

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Website:

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Recent Publication:

1. Green open space development as A green city concept implementation strategi (Case study in Samarinda city), 2024
2. Yield optimization in coconut oil extraction (*Cocos nucifera* L.) by wet rendering method, 2023
3. The Effect of *Passiflora foetida* L. Leaves Decoction on Blood Pressure Profile and Its Correlation with the Demographics of Hypertensive Patients, 2023
4. Perception of preventing behavior against COVID-19 among Indonesian industrial workers, 2022
5. Critical factors affecting the quality of the longissimus lumborum from native thai cattle (*Bos indicus*), 2022
6. Critical factors affecting the quality of the longissimus lumborum from native thai cattle (*Bos indicus*), 2022
7. Fatigue on Oil Refinery Workers and Related Factors, 2021
8. Rapid authentication of East Kalimantan forest honey with ATR-FTIR spectroscopy combined with chemometric analysis, 2021
9. Evaluation and analysis of new design traditional handloom performance in reducing work musculoskeletal disorders among Sarong Samarinda female weavers: A quasi-experimental study, 2021
10. Factors Affecting Musculoskeletal Disorder (MSD) Prevalence among Women Weavers Working With Handlooms in Samarinda, Indonesia, 2020



Prof. Dr. Oec. Trop. Ir. Krishna P. Candra, M.S.

NIDN:

031076405

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kcandra_99@yahoo.com

Research Interest:

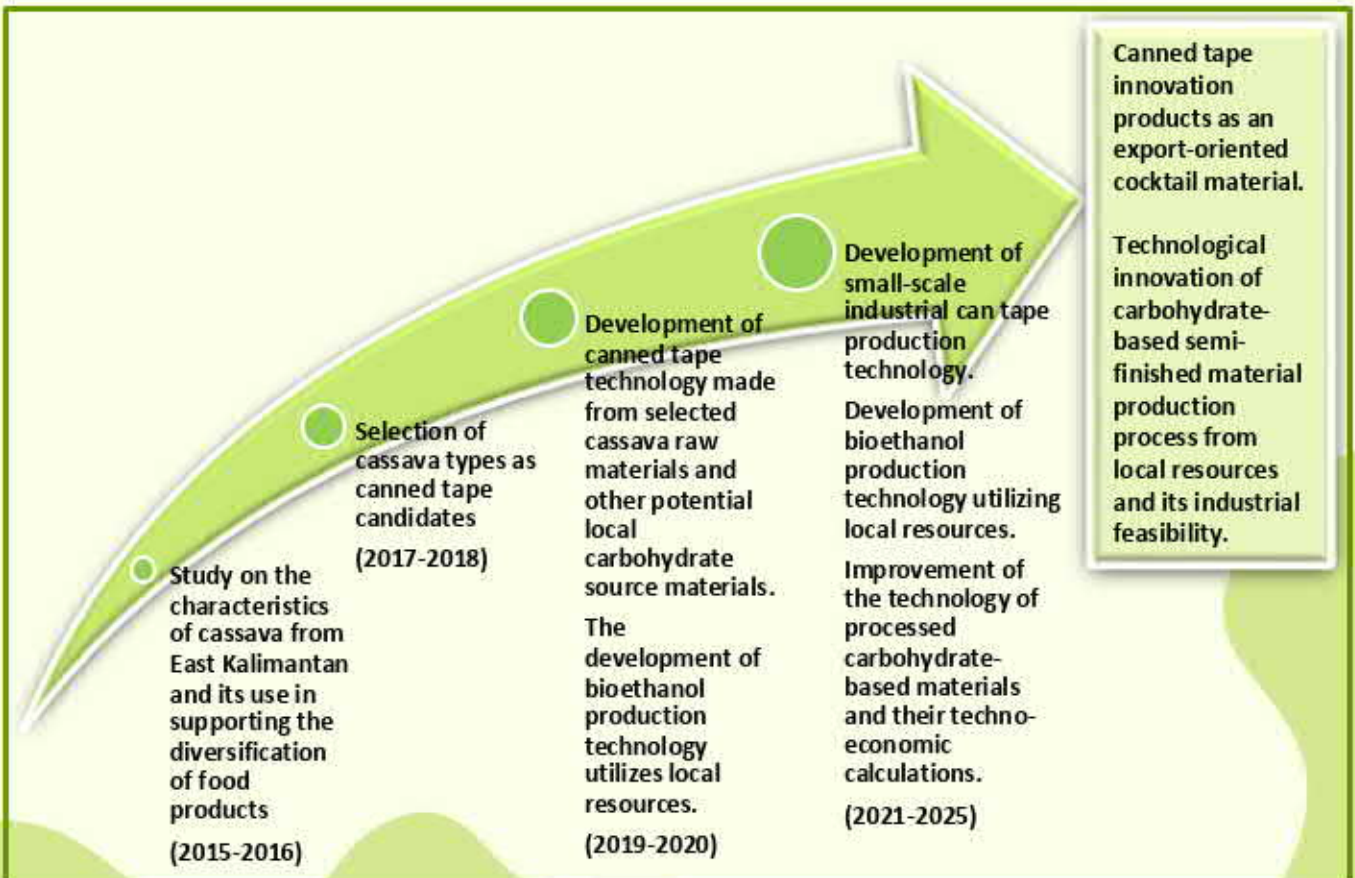
Chemistry and Microbiology of Food/Agricultural Products

Lecture:

1. Philosophy of Science and Application of Research Methods
2. Scientific Writing and Academic Ethics
3. Advanced Agricultural Product Analysis
4. Advanced Agricultural Product Microbiology
5. Biotechnology of Tropical Agricultural Products
6. Post-Harvest Technology of Tropical Agricultural Products

RESEARCH ROADMAP

**Utilization of Carbohydrate-Based Local Resources for the Development of Food and Energy Diversification
2015-2025**





Prof. Dr.sc.agr. Nurhasanah, S.P., M.Si.

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Research Interest:

Plant Biotechnology,
Plant Breeding,
Plant Molecular Breeding

Sinta ID:

6002829

Scopus ID:

57113544300

Orchid ID:

20000-0001 -6957-5708

Formal Education:

Bachelor of Agriculture
Jambi University, 1998

Master of Forestry Management
Bogor Agricultural Institute,
2003

Doctor of Science in Agriculture
Georg August Universitat Zu
Gottingen, Germany, 2010

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Recent Publication:

1. Shoot multiplication of Doyo (*Curculigo latifolia* Dryand.) using the combinations of BAP dan IBA in In-Vitro propagation, 2022
2. Somatic Embryos Induction of East Kalimantan Local Rice (*Oryza sativa* L.) Cultivars and In Vitro Selection Against Salinity, 2022
3. Genetic and phytochemical analysis of Indonesian black rice cultivars, 2021
4. In Vitro Regeneration Of Banana Genotypes Possessing Distinct Genomes By Using Male Flower Explants, 2021
5. Genetic relationships among cultivated and wild bananas from East Kalimantan, Indonesia based on ISSR markers, 2021
6. Genome group classification and diversity analysis of talas and rutai banana, two local cultivars from East Kalimantan, based on morphological characters, 2021
7. Somatic embryos response against iron stress in in-vitro culture condition of East Kalimantan (Indonesia) rice, 2019
8. Interspecific grafting to solve the rootstock shortage in vegetative propagation of Lai-durian (*Durio zibethinus x kutejensis*) originated from East Kalimantan, 2019
9. Selection and regeneration of purple sweet potato calli against drought stress simulated by polyethylene glycol, 2019
10. The response of East Kalimantan, Indonesia local rice cultivars against iron stress, 2019



Prof. Dr.sc.agr. Nurhasanah, S.P., M.Si.

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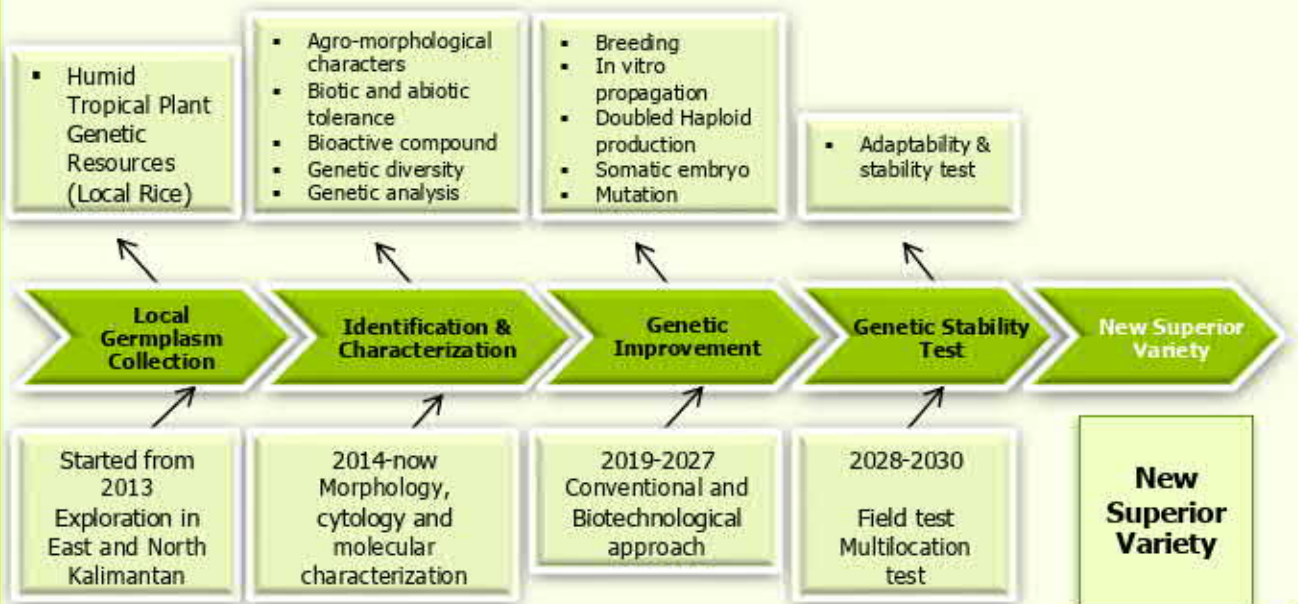
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Research Interest:
Plant Biotechnology,
Plant Breeding,
Plant Molecular Breeding

Lecture:

1. Selected Topics in Plant Breeding
2. Plant Molecular Biology
3. Plant Genetic Engineering
4. Mutation Breeding
5. Molecular Analysis
6. Plant Biotechnology

RESEARCH ROADMAP



CURRENT RESEARCH





Ir. Sopialena, MP, Ph.D.

NIDN:

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Research Interest:

Phytopathology,
Epidemiology

Sinta ID:

5988089

Scopus ID:

57193899578

Orchid ID:

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Formal Education:

Bachelor of Agriculture
Mulawarman University, 1986

Master of Agriculture
Brawijaya University, 1991

Doctor of Philosophy
University of The Philippines,
2004

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Recent Publication:

1. Identification and Testing of Trichoderma spp. Indigenous Antagonists in Several East Kalimantan Areas Against the Causes of Tomato Wilt Disease (*Fusarium oxysporum*), 2024
2. Antagonist Test of Trichoderma sp and Gliocladium sp Againsts Fungal Pathogens That Cause Diseases on Tomato Plant, 2024
3. Controlling Diseases in Porang Plants (*Amorphophallus muelleri* Blume) Using Endophytic Fungi In vitro, 2024
4. Effect of Garlic and Cinnamon Extract Administration on Anthracnose Disease in Red Pepper (*Capsicum annum L.*), 2024
5. Test of the Effectiveness of Plant-Based Pesticides from Bay Leaf Extracts, Galangal and Turmeric on Rhizoctonia Fruit Rot (*Rhizoctonia Solani* Kühn) on Tomatoes (*Lycopersicum Esculentum* Mill.) In Vitro, 2023
6. Effect of Chitosan Liquid Organic Fertilizer on Porang Plants (*Amorphophallus muelleri* Blume) on the Control of Fusarium Wilt Disease (*Fusarium sp.*), 2023
7. Microbes in Plant Growth Promoting Bamboo Rhizobacteria, Reeds and Bananas, 2023
8. Effect of Tuba Root Extract (*Derris elliptica* Roxb.) Against the Intensity of Insect Attack of Large Chili Virus Vector (*Capsicum annum L.*), 2022
9. Impact of Metarhizium sp. and Trichoderma sp. on Soil Fertility and Growth of Tomatoes (*Solanum Lycopersicum L.*) in Post-Mining Land, 2022
10. Control of antracnose disease in tomato (*Solanum lycopersicum*) using endophytic fungi, 2022



Ir. Sopialena, MP, Ph.D.

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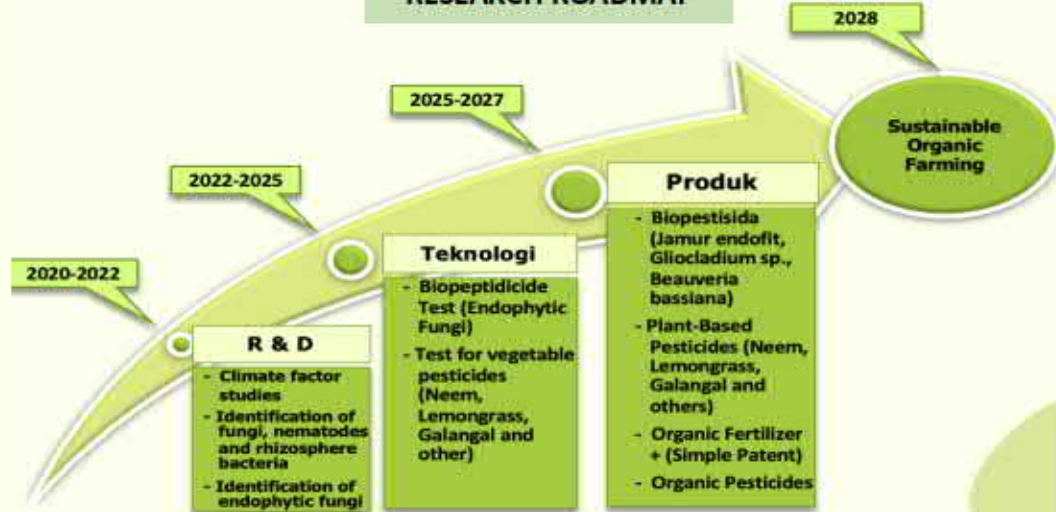
Research Interest:

Phytopathology,
Epidemiology

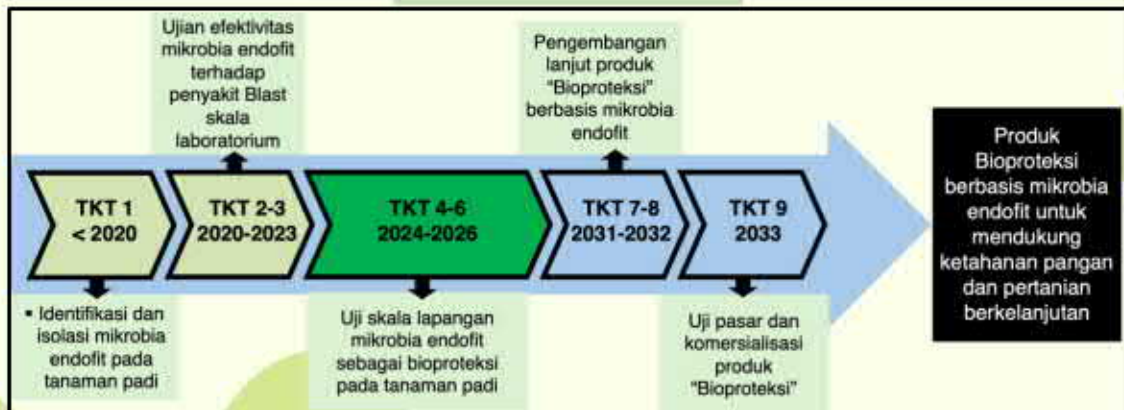
Lecture:

1. Microbe and Plant Interactions
2. Epidemiology and Management of Pests and Diseases in Humid Tropical Plants
3. Integrated Pest Management in Humid Tropical Environments
4. Plant Resistance to Pests and Pathogens
5. Advanced Plant Bacteriology
6. Advanced Plant Mycology

RESEARCH ROADMAP



CURRENT RESEARCH





Prof. Widi Sunaryo, S.P., M. Si., Ph. D.

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Research Interest:

Agronomy,
Plant Biotechnology,
Plant Molecular Biology

Sinta ID:

6002444

Scopus ID:

56401125000

Orchid ID:

0000-0002-2461 -4985

Formal Education:

Bachelor of Agriculture
Mulawarman University, 1997

Master of Science

Bogor Agricultural Institute,
2002

Doctor of Philosophy

Georg August Universitat Zu
Gottingen, Germany, 2010

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Gunung Kelua, Kec Samarinda
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Kalimantan Timur 75243

Website:

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Recent Publication:

1. Genetic diversity and cluster analysis of local pigmented rice from East and North Kalimantan, Indonesia based on quantitative and qualitative characters, 2024
2. Diversity, nutrient contents and production of forage plants in an integrated cattle livestock-oil palm plantation in East Kalimantan, Indonesia, 2023
3. The diversity of banana cultivars in East Kalimantan based on morphological characteristic, 2022
4. Shoot Multiplication on Doyo Plant (*Curculigo latifolia* Dryand.) Using Multiple Combinations of BAP and IBA in In-Vitro Propagation: Shoot Multiplication in Doyo Plants (*Curculigo latifolia* Dryand.) Using Multiple Combinations of BAP and IBA in In-Vitro Propagation, 2022
5. Somatic Embryos Induction of East Kalimantan Local Rice (*Oryza sativa* L.) Cultivars and In Vitro Selection Against Salinity, 2022
6. Benzyl Amino Purine (BAP) Growth Regulator Application and Shoot Origin Stem Lai (*Durio kutejensis*) Against Growth Durian (*Durio zibethinus* Murr) Grafting Seedlings, 2022
7. In vitro regeneration of banana genotypes possessing distinct genomes by using male flower explants, 2021
8. Protocol for screening and expression studies of T-DNA and tagging-based insertional knox mutants in *Arabidopsis thaliana*, 2021
9. Induction of Multiplication of Cassava var. Elephant (*Manihot esculenta* crantz) Through Tissue Culture With BAP Growth Regulators and NAA Multiplication of Induction of Cassava var. Elephant (*Manihot esculenta* crantz) Through Tissue Culture Using BAP and NAA Growth Control, 2021
10. Genetic relationships among cultivated and wild bananas from East Kalimantan, Indonesia based on ISSR markers, 2020



Prof. Widi Sunaryo, S.P., M. Si., Ph. D.

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Research Interest:
Agronomy,
Plant Biotechnology,
Plant Molecular Biology

Lecture:

1. Scientific Writing and Academic Ethics
2. Plant Molecular Biology
3. Advanced Plant Physiology and Stress Physiology
4. Current Topics in Plant Physiology
5. Management of Genetic Resources of Tropical Humid Plants
6. Plant Breeding via Tissue Culture
7. Plant Genetic Engineering
8. Molecular Analysis
9. Plant Biotechnology

RESEARCH ROADMAP

PROPOSED RESEARCH (2024)



TKT



Prof. Ir. Suyadi, MS, Ph.D.

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0016085906

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fadhilsuyadi@yahoo.com

Research Interest:

Plant Protection, Crop Protection,
Integrated Pest Management,
Plant Neonatology,
Integrated Farming

Sinta ID:

6010975

Scopus ID:

57204601391

Orchid ID:

-

Formal Education:

Bachelor of Agriculture
Mulawarman University. 1983

Master of Science

Gadjah Mada University. 1988

Philosophy of Doctor

University of The Philippines, At
Los Bathos. 1994

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Website:

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Recent Publication:

1. Strategy for Increasing the Quantity and Quality of Agricultural Commodity Production in Berau Regency, 2023
2. Plant Parasitic Nematodes (NPTs) Are Silent Pests in East Kalimantan, 2023
3. Nematode Diversity In Post-coal Mining Reclamation Land In Bangun Rejo Village, Tenggarong Seberang District, 2023
4. Ecosystem Monitoring on Leaves of Leaf Rust Disease of Maize (*Zea mays* L.), 2022
5. Strategies for Improving East Kalimantan's Food Security and Challenges as a Buffer for IKN, 2021
6. Control of bacterial leaf blight disease in several varieties of rice plants (*Oryza sativa* L.) by using bacteria of *Paenibacillus polynyxa* Mace, 2021
7. Tenurial Conflicts Within Protected Forest Management Unit (PFMU) of Tarakan, North Kalimantan, 2021
8. Nematode diversity indices application to determine the soil health status of Lembo agroecosystem in West Kutai, East Kalimantan Province, Indonesia, 2021
9. Impact of Sedimentation and Soil Properties on the Presence of Entomopathogenic Nematodes in the Oil Palm Rhizosphere in Kutai Kartanegara Regency, East Kalimantan Province, 2021
10. Efektivitas Cendawan Endofit Sebagai Pengendali Penyakit Blast Pada Tanaman Padi (*Oryza sativa*), 2020
11. Exploration of Nematophage Fungi from Manure in Samarinda City: A Case Study of Lempake Village, 2020



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Prof. Ir. Suyadi, MS, Ph.D.

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Research Interest:

Plant Protection, Crop Protection,
Integrated Pest Management,
Plant Neonatology,
Integrated Farming

Lecture:

1. Epidemiology and Management of Pests and Diseases in Humid Tropical Plants
2. Bio-ecology and Insect Classification
3. Integrated Pest Management in Humid Tropical Environments
4. Pesticide Toxicology
5. Advanced Plant Nematology
6. Advanced Plant Virology
7. Biology and Production of Entomopathogens

RESEARCH ROADMAP

Survey and
Identification
of Plant
Parasitic
Nematodes

Integrated Pest
Management
Especially for
Plant Parasitic
Nematodes

Integrated
Farming of Staple
Food Crop
Alternatives

Self Sufficient
Food Production



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Taufan.pd@gmail.com

Research Interest:

Nutrition and Animal Forage Plants

Sinta ID:

6160460

Scopus ID:

57190672703

Orchid ID:

0000-0003-0986-8909

Formal Education:

Animal Nutrition and Forage
(Bachelor)
Brawijaya University

Animal Nutrition Science
(Magister)
Padjadjaran University

Animal Science (Doctor)
Bogor Agricultural Institute

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Kalimantan Timur 75243

Website:

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Recent Publication:

1. Performance Evaluation Of The Implementation Of The Cattle Corporation Village Development Program (Case Study Of The Babulu Brahman Jaya Livestock Production), 2024
2. Effect of Cow Manure and Different Planting Distances on the Growth of Pakchong Variety Elephant Grass (*Pennisetum purpureum* cv. pakchong), 2023
3. Identification of types of buffalo feed crops on Lanting Island, West Kutai Regency, 2023
4. In vitro evaluation of ruminal digestibility and fermentation characteristics of local feedstuff-based beef cattle ration, 2023
5. Analysis of the Post-Mining Program of Cattle Farming on Former Mining Land of Pt Kitadin Site Embalut, 2023
6. Diversity, nutrient contents and production of forage plants in an integrated cattle livestock-oil palm plantation in East Kalimantan, Indonesia, 2023
7. Effect of kecombrang flower extract (*Etligeria elatior*) and basil leave extract (*Ocimum afrinacum*) to the growth of *Streptococcus mutans* ATCC 35668 and *Staphylococcus aureus* ATCC 33591, 2023
8. Potential for Beef Cattle Development Based on the Availability of Forage in Berau Regency, 2022
9. Produksi Rumput Pakchong Dengan Perlakuan Pupuk Kandang Sapi Dan Jarak Tanam Berbeda, 2022
10. Heavy Metal Levels in Legumes *Calopogonium mucunoides* Planted on Post-Coal Mine Reclamation Land Pt. Kitadin Embalut Kutai Kertanegara, 2022



Kampus
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INDONESIA JAYA

Prof. Dr. Ir. Taufan Purwokesumaning Daru, MP

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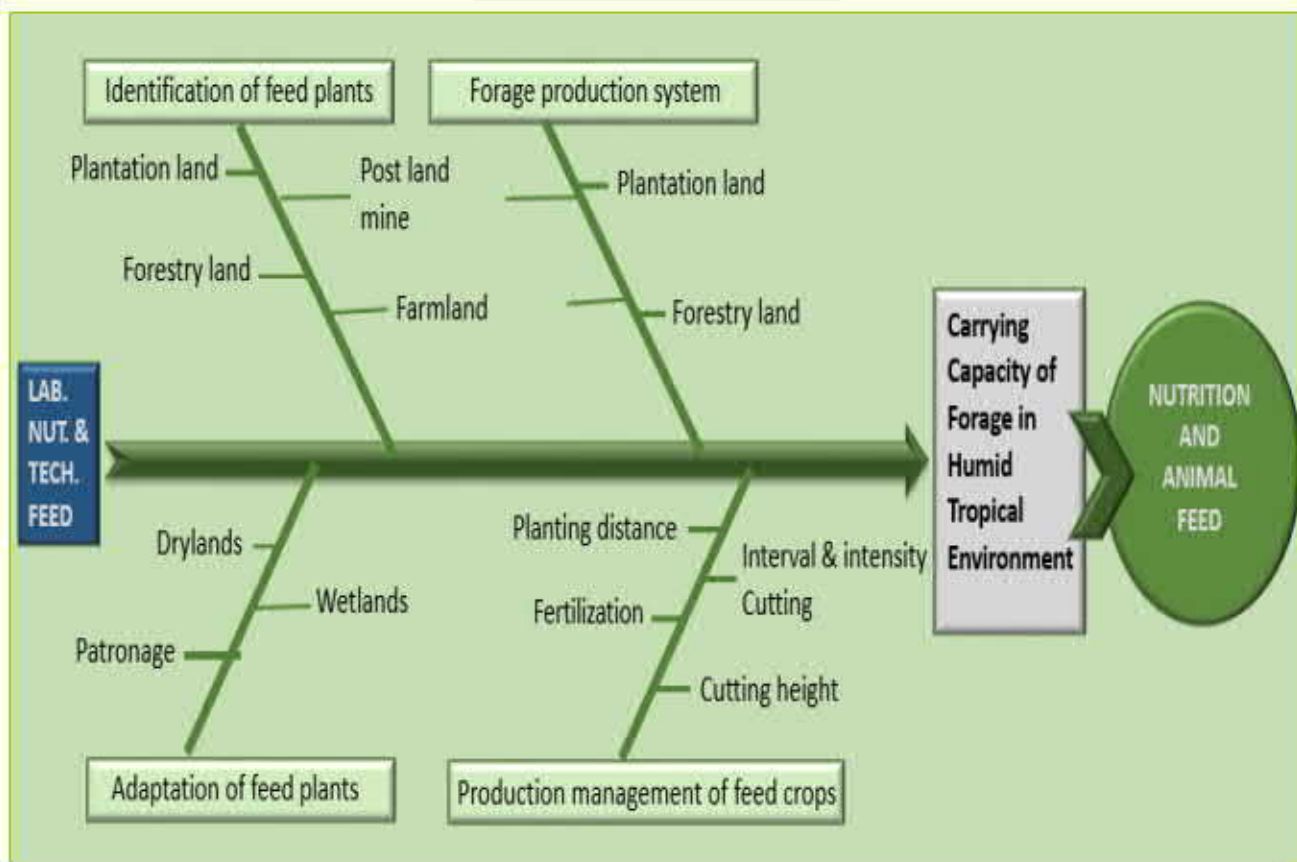
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19590901 198702 1 002

E-mail:
Taufan.pd@gmail.com

Research Interest:
Nutrition and Animal Forage Plants

Lecture:
Advanced Tropical Agroecosystems

RESEARCH ROADMAP





Dr. Ir. Sadaruddin, MP

NIDN:

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E-mail:

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Research Interest:

Agronomy,
Ecophysiology of Rice Plants,
Plant Ecophysiology

Sinta ID:

6014161

Scopus ID:

57189296446

Orchid ID:

-

Formal Education:

Bachelor of Agriculture
Mulawarman University, 1984

Master of Agriculture
Padjadjaran University, 1991

Doctor
Padjadjaran University, 2003

Office Address:

Gunung Kelua, Kec Samarinda
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Kalimantan Timur 75243

Website:

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Recent Publication:

1. Diversity analysis and genetic potency identification of local rice cultivars in Penajam Paser Utara and Paser Districts, East Kalimantan, 2016
2. Yield-related traits characterization of local upland rice cultivars originated from East and North Kalimantan, Indonesia, 2017
3. Investigation of Organic C, N, P, K and C/N ratio of Fruit Plant Leaves for Organic Fertilizer Materials, 2020
4. Effect of Foliar Compost Fertilizer on the Growth and Biomass of Local Rice in Mayas Merah in Post-Coal Mining Soil Snapshots, 2020
5. Growth Response and Yield of Shallot Plants (*Allium cepa* var. *ascalonicum* L.) Against the Application of Several Concentrations of Liquid Organic Fertilizers, 2021
6. Investigation of C-Organic Content, Nitrogen, P and K, pH and C/N Ratio of Rainfed Rice Fields in Sarinadi Village, Kota Bangun District, Kutai Kartanegara Regency, 2022
7. Photocyclate allocation, growth and yield of local field rice (*Oryza sativa* L.) Origin of East Kalimantan Province With Organic Material Application, 2024



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Research Interest:

**Agronomy,
Ecophysiology of Rice Plants,
Plant Ecophysiology**

Lecture:

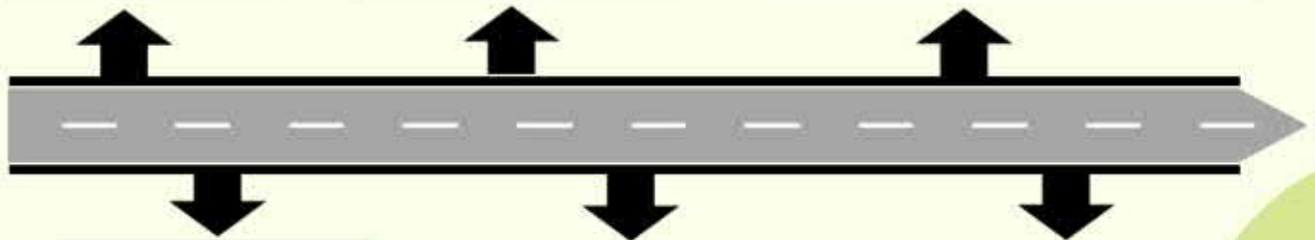
1. Ecophysiology of Humid Tropical Plants
2. Advanced Plant Physiology and Stress Physiology
3. Current Topics in Plant Physiology
4. Current Topics in Plant Ecology

RESEARCH ROADMAP

Exploration and
Characterization
of Local Upland
Rice

Growth Monitoring
and Photosynthetic
activity observation

Develop light response curves to
understand the photosynthetic
light-use efficiency and shade
tolerance of local upland rice



Field experiment
different shading
and light intensities
on upland rice
growth

Yield Response
Analysis

Test the applicability of
the shading results in
practical agroforestry
and intercropping
systems



Dr. Ir. H. Encik Akhmad Syaifudin, MP

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Research Interest:

Weed Science,
Statistics

Sinta ID:

6767860

Scopus ID:

-

Orchid ID:

-

Formal Education:

Bachelor of Agriculture
Mulawarman University, 1987

Magister of Science
Gadjah Made University, 1993

Doctor
Padjadjaran University, 2002

Office Address:

Gunung Kelua, Kec Samarinda
Ulu, Kota Samarinda,
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Website:

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Recent Publication:

1. Some Notes on the Effect of *Ageratum conyzoides* on Several Local Gogo Rice Cultivars, 2024
2. Effect of Plant Growth Promoting Application of Rhizobacteria and Trichoderma sp on Fusarium Wilt Disease on Shallot Plants (*Allium cepa* L.), 2023
3. Mortality of *Aphis gossypii* in Cayenne Pepper Plants (*Capsicum frutescens*) with Application of Leaf Extracts of *Ageratum conyzoides*, *Tagetes erecta*, and *Chromolaena odorata*, 2023
4. Effectiveness of Weed Extract in Inhibiting Anthracnose Disease (*Colletotrichum* sp.) In Vitro The Effectiveness of Weed Extract in Inhibiting Anthracnose (*Colletotrichum* sp.) Disease in Chilli (*Capsicum annum* L.) In Vitro, 2023
5. Identification of Weeds in the Rice Fields of Local Rice Swamps of East Kalimantan in Rapak Lambur Village, Tenggaraong District, 2022
6. Potensi Gulma Eceng Padi (*Monochoria vaginalis*) Sebagai Tanaman Hias: Potential Of Rice Water Weed (*Monochoria Vaginalis*) As Ornamental Plants
7. EA Syaifudin, N Akhsan, S Suyadi, F Syahrianto, 2022
8. Effect of Weed Control Frequency on Weed Population in Shallot Plants (Bima Brebes), 2021
9. The Ability of Rice Endophytic Fungi to Infirm the Growth of Fungi Causing Rice Plant Disease (*Oryza sativa* L.) In Vitro, 2021
10. Identification of the species of nematode Meloidogyne sp. on tomato plants (*Solanum lycopersicum* L) and celery (*Apium graveolens* L) in Samarinda, 2021



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Research Interest:

Weed Science,
Statistics

Lecture:

Advanced Weed Science

RESEARCH ROADMAP

01



Identification
of the
biological
characterization
of weeds

02



Development
of control
techniques
(mechanical
and physical
methods,
chemical
control)

03



Biological
control
(biological
control agents
and ecological
interactions)

04



Development
of integrated
control
systems
(integration of
methods,
rotation &
diversification
of plants)



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Research Interest:

Agronomy, Agricultural Cultivation and Plantation, Land Processing

Sinta ID:

6766930

Scopus ID:

58172793200

Orchid ID:

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Formal Education:

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Recent Publication:

1. Identification of Homegarden Patterns on Several Ethnic in Berau Regency, 2024
2. The Degree of Stability of Rubber Stands (*Hevea brasiliensis*) in the Timber Estate Area of PT. Sylvaduta District Kembang Janggut, Kutai Kartanegara District East Kalimantan Province, 2023
3. Effect of Soil Tillage on Weed Growth and Soybean Plant Production (*Glycine max* (L.) Merrill), 2023
4. The Effect of Arbuscular Mycorrhiza Inoculation and SP 36 Fertilizer on the Growth of Palm Oil (*Elaeis Guineensis* Jacq.) Seedling DxP PPKS 540 Variety Grown in Pre Nursery Phase, 2022
5. Comparison of Content and Status of the C-Organic, Nitrogen, C/N Ratio, Soil pH, and Organic Matter in Rainfed, Tidal and Swampy Rice Fields (Case Study in Three Villages, in East Kalimantan), 2022
6. Estimation of soil erodiability and identification of erosion types in post-coal mining areas, 2022
7. Benzyl Amino Purine (BAP) Growth Regulator Application and Shoot Origin Stem Lai (*Durio kutejensis*) Against Growth Durian (*Durio zibethinus* Murr) Grafting Seedlings, 2022
8. Investigation of C-Organic Content, Nitrogen, Phosphorus, Potassium Nutrients, pH Soil and C/N Ratio of Tidal Rice Fields in Sidomulyo Village, Anggana District, Kutai Kertanegara Regency, East Kalimantan, 2022
9. Investigation of C-Organic Content, Nitrogen, P and K, pH and C/N Ratio of Rainfed Rice Fields in Sarinadi Village, Kota Bangun District, Kutai Kertanegara Regency, East Kalimantan, 2022
10. Benzyl Amino Purine (BAP) Growth Regulator Application, 2022



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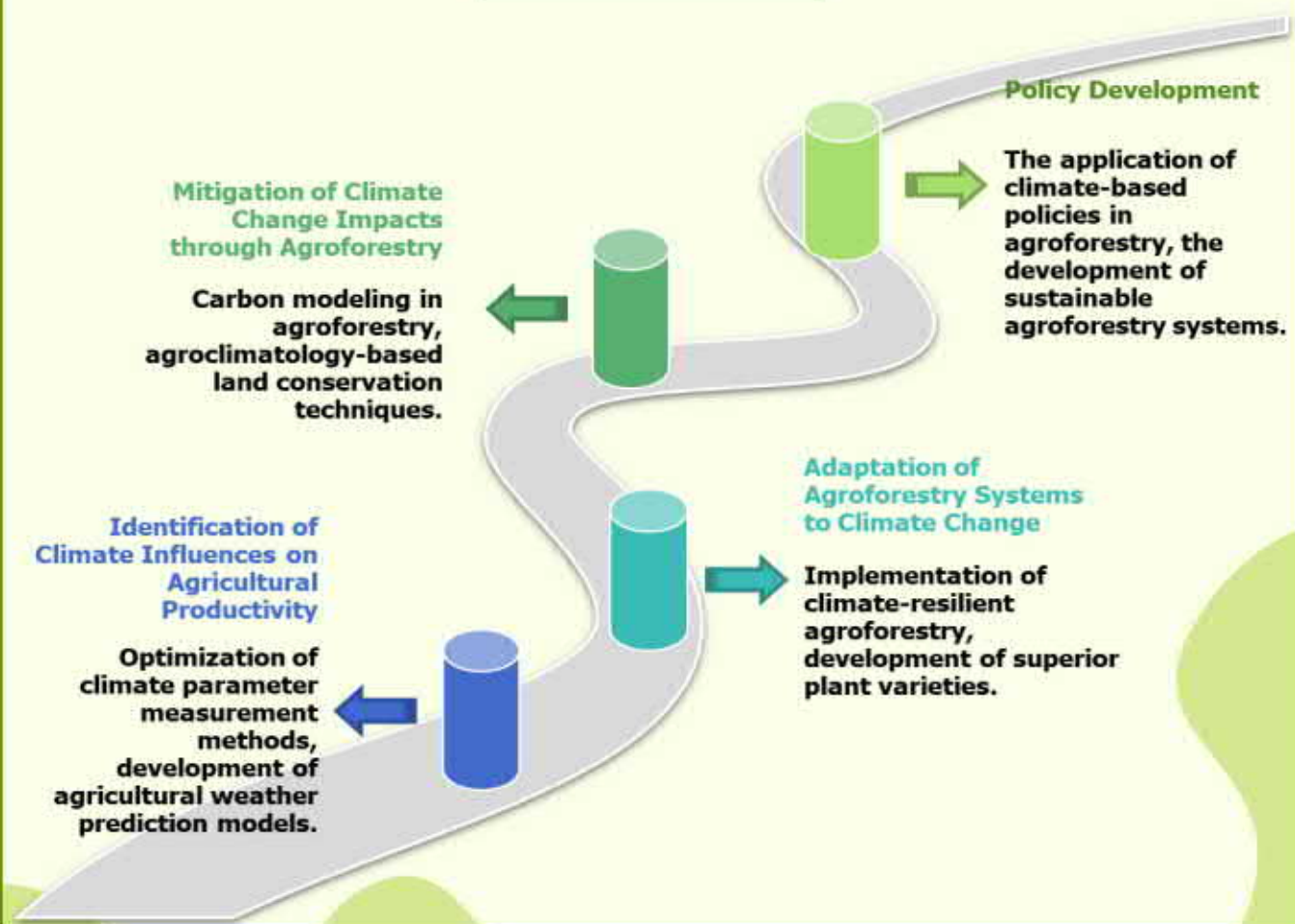
Research Interest:

Agronomy,
Agricultural Cultivation and Plantation,
Land Processing

Lecture:

1. Advanced Tropical Agroecosystems
2. Current Topics in Plant Ecology

RESEARCH ROADMAP





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Research Interest:

Plant Biotechnology,
Plant Breeding,
Agronomy

Sinta ID:

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Scopus ID:

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Orchid ID:

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Formal Education:

Bachelor of Agriculture
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Master of Science

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Recent Publication:

1. Growth and Yield of Komak Beans (*Lablab purpureus* (L.) Sweet) with Application of Photosynthetic Bacteria PNSB under Shade, 2024
2. Identification of Cavendish Banana Tissue Culture Contamination, 2024
3. Growth Response of Dendrobium Orchid Seedlings (*Dendrobium Ira Veronica*) to the Addition of Foliar Fertilizer and Organic Fertilizer to Fertilization Composition, 2024
4. Morphological and Agronomical Characters Identification of Rice Plant (*Oryza sativa* L.) Backcross1 (BC1F1) Pandan Ungu/Kambang/Pandan Ungu, 2023
5. Aquaponics In The Yard, 2023
6. Application of Combinations of Different Types and Concentrations of Antioxidants as Browning Inhibitors in Tissue Culture Propagation of Cavendish Bananas, 2023
7. Test on the Effectiveness of Mycorrhizal Biofertilizer on the Growth and Yield of Tomato Plants (*Lycopersicum esculentum* Mill), 2022
8. Growth and Yield of Soybean Plants (*Glycine max* L) with the Utilization of Solid and Liquid Rabbit Livestock Waste, 2022
9. Diversity of F3 Strains Cross-Produced by Puncak Kambang/Purple Pandan//Ciherang based on Agronomic Characters in Tidal Rice Fields in Sidomulyo Village, Anggana District, 2022
10. Effect of Growth Regulators and Organic Matter on the Growth of *Grammatophyllum speciosum* Blume Sugarcane Orchid by Tissue Culture, 2021



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Research Interest:

**Plant Biotechnology,
Plant Breeding,
Agronomy**

Lecture:

- 1. Advanced Plant Metabolism**
- 2. Plant Breeding via Tissue Culture**

RESEARCH ROADMAP

**Development of
Tissue Culture
Methods for
Tropical Local
Plants**

**(Optimization the
proper media and
growth
substances)**

01



TISSUE CULTURE

03



**Application of
Tissue Culture
Technology for
Comercial Scale**

**(Producing tissue
culture derived
seedlings for
mass
propagation)**

02



**Establishing
Propagation
Method**

**(Producing
efficient
propagation
methods for the
conservation and
commercialization
of local plants)**



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Research Interest:

Phytopathology,
Mycology

Sinta ID:

6644597

Scopus ID:

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Orchid ID:

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Formal Education:

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Recent Publication:

1. *Aphis gossypii* Mortality on Cayenne Pepper (*Capsicum frutescens*) with the Application of Leaf Extract *Ageratum conyzoides*, *Tagetes erecta*, and *Chromolaena odorata*, 2023
2. Utilization of Water Hyacinth Weeds (*Euchornia crassipes*) and Rice Husks as Alternatives for White Oyster Mushroom (*Pleurotus ostreatus*) Growth Media, 2023
3. Effectiveness of Weed Extract in Inhibiting Anthracnose Disease (*Colletotrichum* sp.) Chili Plants (*Capsicum annum* L.) in Vitro, 2023
4. Isolation of Entomopathogenic Fungi in Food, Horticulture, and Plantation Crops in North Penajam Paser Regency and Pathogenicity Test in *Spodoptera litura*, 2023
5. Disease incidence of tomato plants (*Lycopersicon esculentum* Mill) on soil from different plants, 2022
6. POTENTIAL OF RICE WATER HYACINTH WEED (*Monochoria vaginalis*) AS AN ORNAMENTAL PLANT, 2022
7. Identification of Rhizosphere Fungi in Shallot Crop Fields (*Allium ascalonicum* L.) Weed in Bendang Raya Village, Tenggara District, 2022
8. Identification of Rhizosphere Fungi in Kepok Banana Plants (*Musa paradisiaca* L.) What grows in the plains and hills, 2021
9. Sustainable Weed Control for Conservation Agriculture, 2021
10. Effect of Weed Control Frequency on Weed Population in Shallot Plants (*Bima Brebes*), 2021



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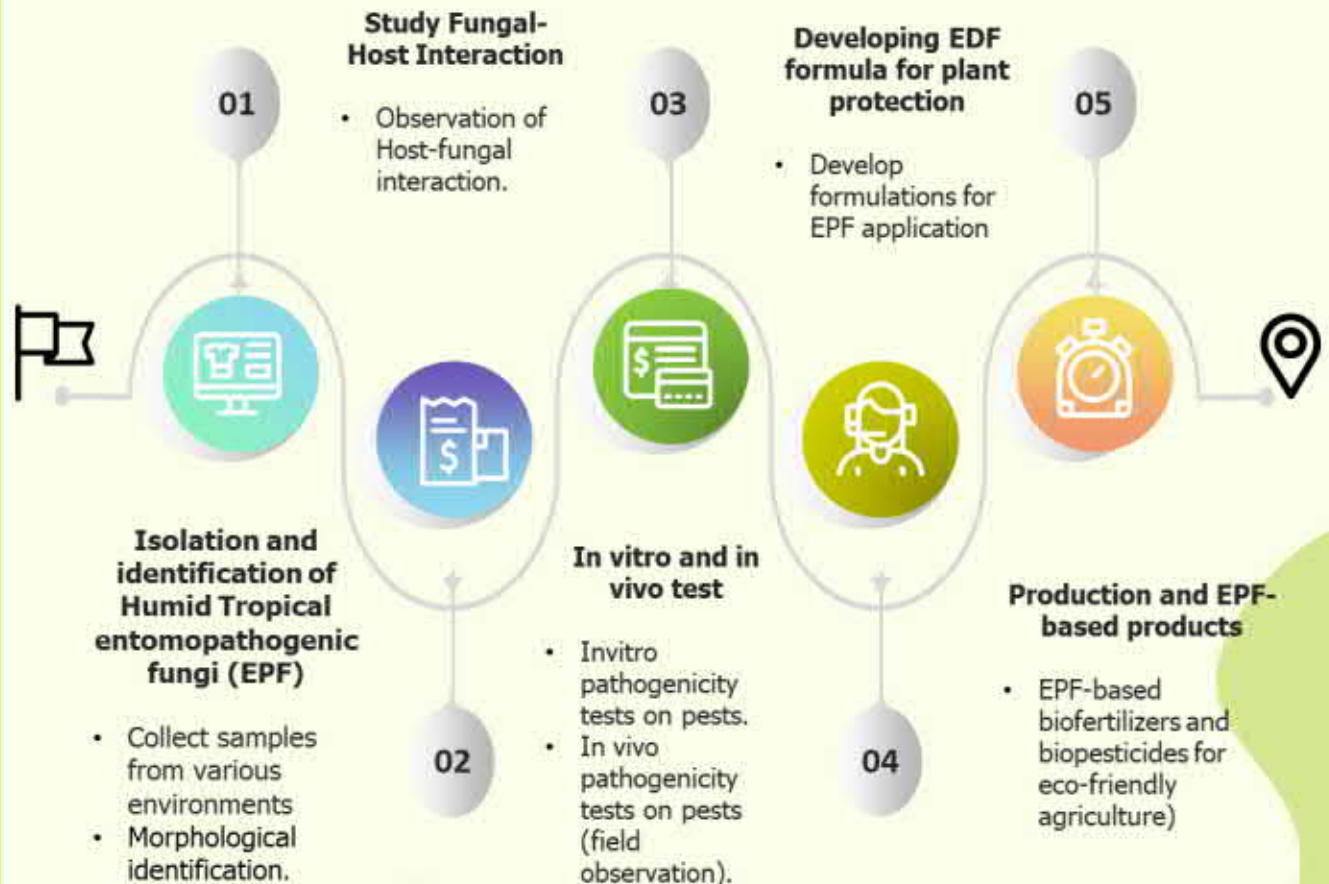
Research Interest:

**Phytopathology,
Mycology**

Lecture:

1. Microbe and Plant Interactions
2. Advanced Plant Mycology

RESEARCH ROADMAP





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Research Interest:

Quality Management and Food Safety

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Scopus ID:

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Orchid ID:

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Formal Education:

Food Science & Technology
(Bachelor)

Gadjah Mada University, 1997

Nutritional Program, School of
Public Health & Tropical
Medicine (Magister)

Tulane University, USA, 2003

Halal Products Management
Doctor)

University Putra Malaysia, 2016

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Recent Publication:

1. PHYSICAL AND ORGANOLEPTIC CHARACTERISTICS OF TAMARIND PASTE (*Tamarindus Indica* L) WITH MODIFIED ELEPHANT CASSAVA (*Manihot Esculenta*) DERIVATIVE PRODUCT THICKENER, 2024
2. Chemical properties, spreadability and sensory properties of the combination of Pedada fruit (*Sonneratia caseolaris*) and Soursop fruit (*Annona muricata*), 2023
3. Effect of Comparison of Toraja Arabica Coffee Powder (*Coffea Arabica*) with Papaya Seed Powder (*Carica papaya*) on Moisture Content, Ph, Antioxidant Activity, Sensory Characteristics, and Coffee Color, 2023
4. Identification of Influential Factors in the Development of Modified Screen-printed Carbon Electrode in the DNA-based Electrochemical Biosensor Using the Design of Experiment, 2023
5. Assistance for Spp-irt and Halal Legality for Krenyezz Tempeh Chips MSMEs and Alza MSMEs in Kutai Kartanegara Regency, 2023
6. Application of Good Food Production Methods for the Household Industry (CPPB-IRT) in MSMEs Seasoning Dew Cuisine Samarinda, 2023
7. Colorimeter design for dry food-products inspection using TCS3200 sensor and Arduino Mega-2560, 2023
8. Physical Properties, Organoleptic, Antioxidant Activity And Glucose Response of Tiwai Coffee, 2023
9. Physical and Sensory Properties of Tamarind Powder Produced Using Elephant Cassava Starch Filler Using the Foam-mat Drying Method, 2023
10. Analysis of the Suitability of the Implementation of Sanitary Hygiene in Food Service Providers: (Case Study of Assistance at MSMEs Dapur Mamak Nia, Waru District), 2023



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Research Interest:

Quality Management and Food Safety

Lecture:

1. Advanced Agricultural Product Chemistry
2. Quality Management and Food Safety

RESEARCH ROADMAP

Mapping Food
Risks and
Contaminants in
the Tropical
Environment

Food contaminant
risk maps in humid
tropical
environments and
rapid detection
technology

Development of
HACCP-Based
Food Quality
Management
System

Design and
implement a
Hazard Analysis
and Critical
Control Points
(HACCP) system
for local food
products.

Innovation in
Natural Food
Preservation
Technology

Safe and
effective natural
ingredients-
based food
preservation
technology.

Strengthening
Food Safety
Based on
Regulation

Strict food
safety regulatory
system



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Research Interest:

Soil Science,
Soil Fertility

Sinta ID:

6719624

Scopus ID:

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Orchid ID:

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Formal Education:

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Recent Publication:

1. Analysis of Land Capability for Direction of Agricultural Land Use on Ex-Mining Land in Batu Butok Village, Muara Komam, Paser Regency, 2024
2. Mapping of Soil Quality by Land Use Type in Tepian Baru Village, Bengalon District, East Kutai Regency, 2024
3. Changes in pH, Exchangeable Aluminum and Phosphorus Available Ultisol due to Organic Fertilizer Application of Banana Stems and Coal Fly Ash, 2023
4. Literature Review on the Utilization of Coal Fly Ash on Phosphorus Uptake in Plant Growth and Production, 2023
5. Analysis of Land Capacity for Land Use Direction on Ex-Mining Land in Krayan Makmur-long Ikis Village, Paser Regency, 2023
6. Spatial distribution of paddy field's heavy metals diversity contamination in Samarinda using remote sensing imagery, 2023
7. Literature Review: The Use of Plant Growth Promoting Rhizobacteria (PGPR) to Increase Growth and Reduce the Use of Inorganic Fertilizers in Agricultural Crops, 2022
8. Effect of Soil Damage on Carrying Capacity of Biomass Production: A Lesson from Tanjung Selor District—Tanjung Redeb, Indonesia, 2022
9. Improvement of phosphorus fertilization efficiency on ultisol using coal fly ash, 2021
10. The possible use of coal fly ash and phosphate-solubilizing fungi for improving the availability of P and plant growth in acid soil, 2020



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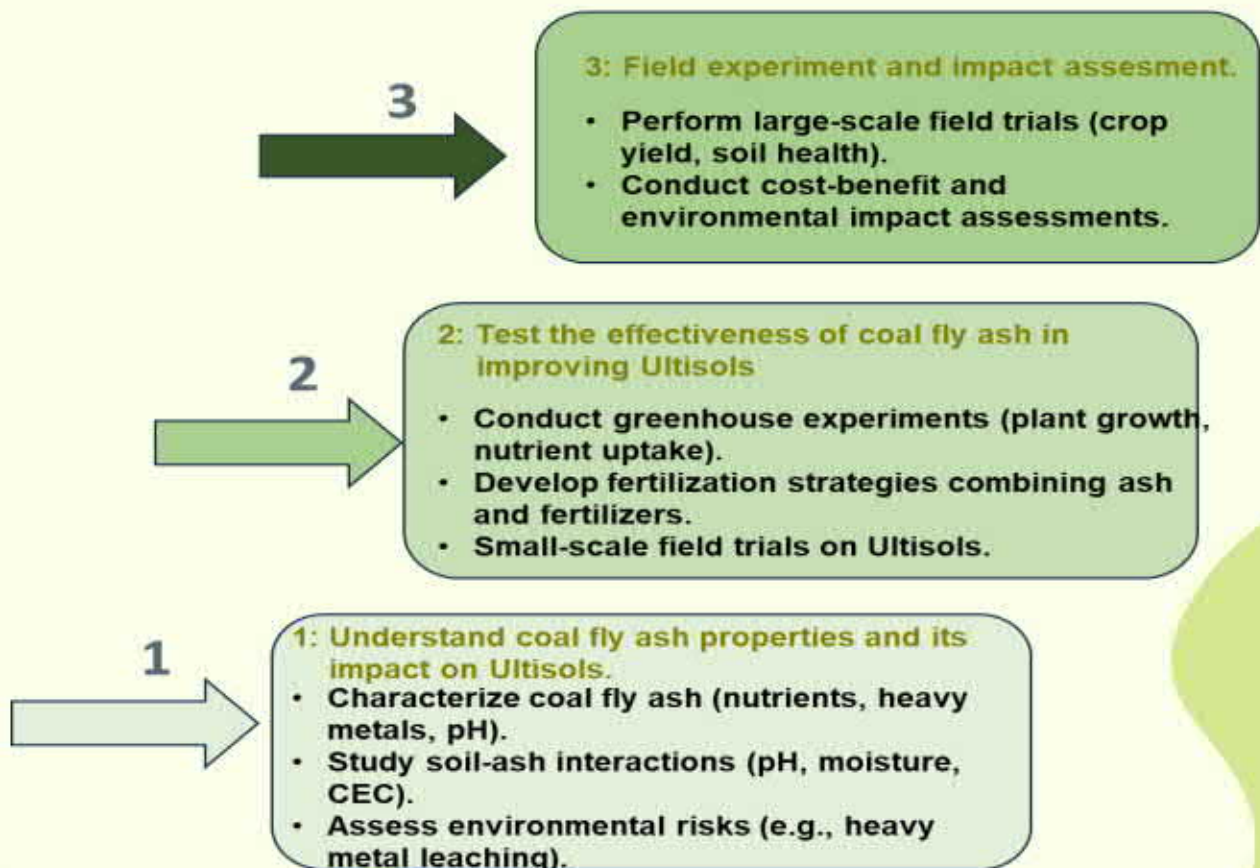
Research Interest:

Soil Science,
Soil Fertility

Lecture:

1. Technology for Managing Marginal Lands in Humid Tropics
2. Interaction Between Soil and Plants
3. Post-Mining Land Managemen

RESEARCH ROADMAP





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Research Interest:

Horticulture (Pomology)

Sinta ID:

5975609

Scopus ID:

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Orchid ID:

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Formal Education:

Bachelor of Agriculture
Mulawarman University, 2004

Magister of Science

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Recent Publication:

1. Effect of Mixed Compost Fertilizer Dose of *Trichoderma* sp., Mushroom Planting Media Waste, and Cow Manure on the Growth and Yield of Curly Pepper Plants (*Capsicum annum* L.), 2023
2. Effect of Liquid Organic Fertilizer and Chicken Egg Shell Flour on the Growth and Production of Shallot Plants (*Allium cepa* L.), 2023
3. Exploration and Identification of Local Lake Purun (*Lepironia articulata*) as a Natural Adsorbent in a Humid Tropical Climate in East Kalimantan, 2022
4. Edible Part Nutritional Value And Calcium Content In Five Lai-Durian (*D. zibethinus* X *D. Kutejensis*) Fruit Rind From Loa Kulu East Kalimantan, 2021
5. Study on the Growth of Roots and Shoots of Pepper Cuttings (*Piper nigrum* L.) on a Combination of Different Planting Media and Number of Internodes, 2021
6. Study on the Growth of Roots and Shoots of Pepper Cuttings (*Piper nigrum* L.) on Different Planting Media and Number of Segments, 2020
7. Identification of dominant maternal and paternal line characters influence to new find sahang durian plant morphological characters as nature cross-pollination result, 2020
8. Can We Grow Shallot (*Allium ascalonicum* L.) Root in Hydroponic System with Simple Growing Media?, 2020
9. Morphological Characteristics of Batuah Red-Fleshed Durian (*Durio graveolens*), an Endemic Exotic Plant from East Kalimantan, Indonesia, 2020
10. Six potential superior durian plants resulted by cross breeding of *D. zibethinus* and *D. Kutejensis* from East Kalimantan, Indonesia: Initial identification, 2019



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Research Interest:
Horticulture (Pomology)

Lecture:

1. Technology for Managing Marginal Lands in Humid Tropics
2. Interaction Between Soil and Plants
3. Post-Mining Land Managemen

RESEARCH ROADMAP

02

- Green house scale test
- Improve the cultivation techniques



Exploration & Identification

01

- Exploration local fruit varieties
- Superior traits and morphological analysis



Cultivation Technology



Yield Improvement

03

- Yield improvements with cultivation technology in the field experiment



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Functional Food Processing
Technology

Sinta ID:

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Scopus ID:

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Orchid ID:

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Formal Education:

Food and Nutrition Technology
Bogor Agricultural Institute, 2002

Food and Nutrition Technology
University of New South Wales,
Australia, 2008

Pharmacology/Functional Foods
University of Western Sydney,
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Recent Publication:

1. Antioxidant activities (DPPH and ABTS method) from extract of Bangle rhizome (*Zingiber cassumunar*) using different method of extraction, 2024
2. Utilization of the tiwai plant (*Eleutherine americana* merr) as a functional instant drink containing antioxidant, 2024
3. Engineering of rotary system pepper dryer with temperature controller for pepper powder quality improvement, 2023
4. Assistance for Spp-irt and Halal Legality for Krenyezz Tempeh Chips MSMEs and Alza MSMEs in Kutai Kartanegara Regency, 2023
5. Assistance in the Implementation of the Halal Product Assurance System for MSMEs Omah Kue Uti Atik in Balikpapan City, 2023
6. Feasibility Study and Business Development in Brown Rice MSMEs in Tenggarong City, 2023
7. Sensory evaluation of Elephant cassava chips (*Manihot utilissima* var. Elephant) with the addition of bay leaf powder (*Syzygium polyanthum*), 2023
8. Implementation of the halal product assurance system for MSMEs to increase product competitiveness, 2023
9. Colorimeter design for dry food-products inspection using TCS3200 sensor and Arduino Mega-2560, 2023
10. Effect of comparison of honey pineapple juice and skimmed milk on total titrated acid, total BAL and sensory characteristics of honey pineapple yogurt, 2023



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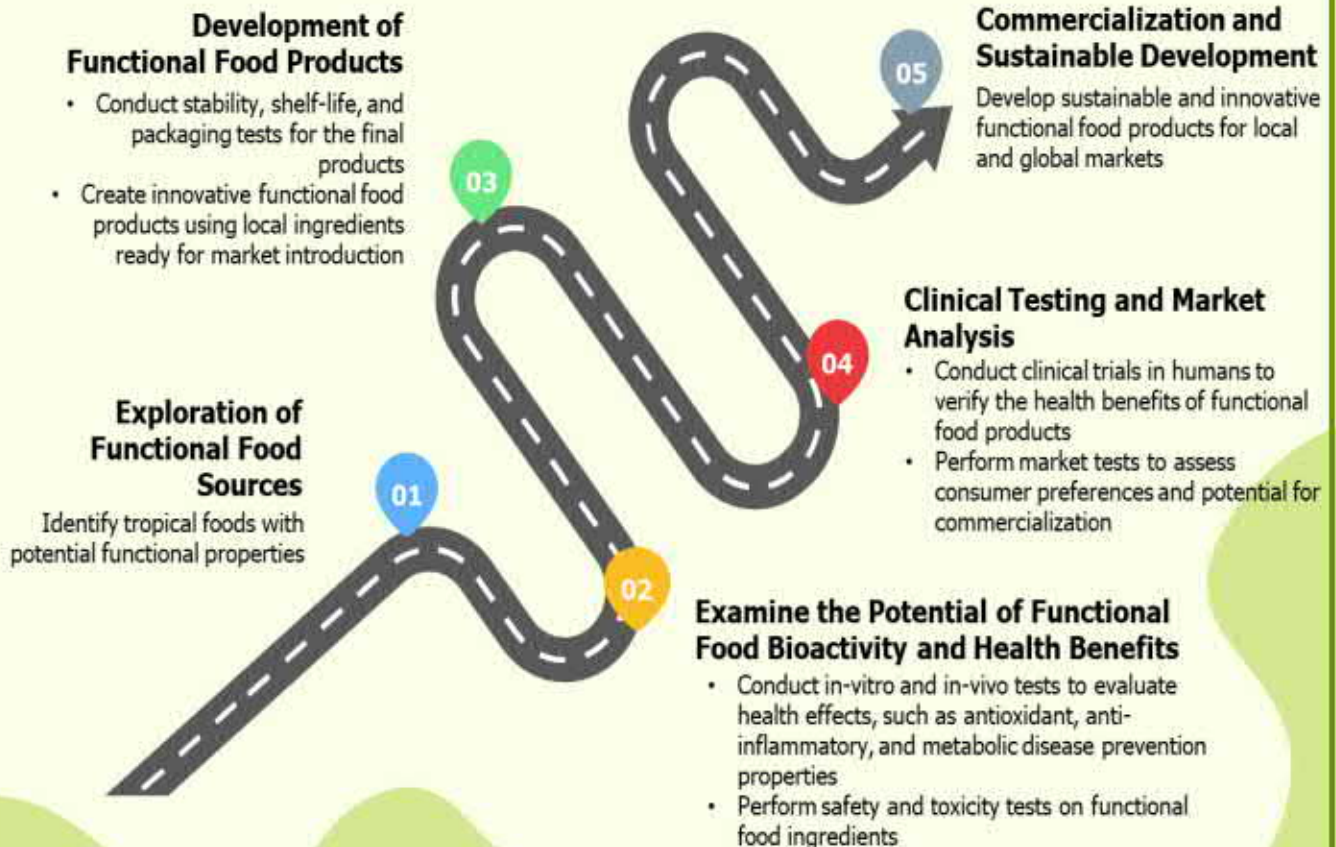
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Research Interest:
Functional Food Processing Technology

Lecture:

1. Advanced Agricultural Product Analysis
2. Bioactive Components of Tropical Wetlands and Their Utilization

RESEARCH ROADMAP





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Research Interest:

Microbiology of Food Processing

Sinta ID:

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Scopus ID:

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Orchid ID:

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Formal Education:

Food Technology (Bachelor)
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Food Science (Magister)
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Food Science (Doctor)
Bogor Agricultural Institute,
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Recent Publication:

1. Organoleptic Quality Profile of Fresh and Cooked Products from Tilapia (*Oreochromis niloticus*) Preserved Using Keluwak Leaves (*Pangium Edule* Reinw.), 2023
2. The appropriateness of Pangi (*Pangium edule* Reinw) leaves as natural preservative based on sensory quality and microbiological safety profile, 2023
3. Proximate Analysis of the Combination of Moringa Leaves (*Moringa Oleifera*) and Soursop Fruit (*Annona Muricata* L.), 2023
4. Addition of Bangkal Bark Powder (*Nauclea subdita*) in the Making of Health Soap Made from VCO (*Virgin Coconut Oil*), 2023
5. Effect of comparison of honey pineapple juice and skimmed milk on total titrated acid, total BAL and sensory characteristics of honey pineapple yogurt, 2023
6. Effect of Elephant Cassava and Oyster Mushroom Composite Portion with Dragon Fruit on Proximate and Sensory Content of Vegetarian Naget Vegetarian, 2023
7. The relationship between fruit and vegetable consumption patterns to nutritional status during the Corona Virus Disease 19 (COVID-19) pandemic, 2023
8. Implementation of CPPB-IRT and halal product assurance system as an effort to improve the quality and halalness of MSME products, 2023
9. Utilization Of Tahongai Leaf (*Kleinhovia hospita* L) In The Production Of Alabio Duck Nuggets As Functional Foods, 2023
10. The Utilization of Tahongai Leaves (*Kleinhovia hospita* L) in Making Alabio Duck Nuggets as a Functional Food., 2023



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Research Interest:

Microbiology of Food Processing

Lecture:

1. Advanced Food Science
2. Advanced Agricultural Product Microbiology
3. Biotechnology of Tropical Agricultural Products

RESEARCH ROADMAP

Assess market potential and commercial scale-up

Conduct consumer trials to gauge market demand, preferences, and potential improvements. Analyze production costs, packaging, and distribution strategies

Nutritional Enhancement and Probiotic Fortification

Improve the nutritional profile and probiotic content of the plant-based yogurt

Optimization of Fermentation Process

Optimize the fermentation process using lactic acid bacteria (LAB) for plant-based yogurt

Identification nutrient content and functional properties of local fruits

Nutritional analysis of potential local fruits

Shelf-Life Testing and Stability Analysis

The shelf stability and safety analysis of the plant-based yogurt

Sensory Evaluation and Texture Improvement

Improve the sensory characteristics of the plant-based yogurt, focusing on taste, texture, and appearance

Development the plant-based yoghurt formula

Analyzing the physicochemical properties of the milk base (viscosity, pH, protein content)



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Research Interest:

Entomology,
Insect Taxonomy,
Insect Pathology

Sinta ID:

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Scopus ID:

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Orchid ID:

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Formal Education:

Bachelor of Agriculture
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Doctor of Philosophy

Kyushu University, 2022

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Recent Publication:

1. Identification and Testing of Trichoderma spp. Indigenous Antagonists in Several East Kalimantan Areas Against the Causes of Tomato Wilt Disease (*Fusarium oxysporum*), 2024
2. Exploration of Endophytic Fungi in Sweet Corn Plants (*Zea mays saccharata* L.) and Its Potential as an Entomopathogenic Fungi, 2024
3. Effect of Tuba Root Extract (*Derris elliptica* Roxb.) Against the Intensity of Insect Attack of Large Chili Virus Vector (*Capsicum annum* L.), 2022
4. A new species of the genus Agrioglypta Meyrick (*Lepidoptera: Crambidae*) from Japan based on morphological characters and DNA barcoding, 2021
5. Impact of Sedimentation and Soil Properties on the Presence of Entomopathogenic Nematodes in the Oil Palm Rhizosphere in Kutai Kartanegara Regency, East Kalimantan Province, 2021
6. Identification of Nematode Genera on Rubber Plantation Land (*Hevea braziliensis*) in Santan Ulu Village, Marangkayu District, Kutai Kartanegara Regency, 2019
7. Microbial diversity on sedimentated rice fields due to coal mining activities in Tenggara Seberang subdistrict of Kutai Kartanegara, 2018
8. The role of neem leaves as organic pesticides in chili pepper (*Capsicum frutescens*), 2018
9. Genus Nematode Entomoparogen in Rice Field (*Oriza sativa* L.) in Muara Wis District, Kutai Kartanegara Regency, 2017
10. The role of plant parasitic nematodes on productivity reduction of banana and tomato in East Kalimantan, Indonesia, 2017



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Research Interest:

Entomology,
Insect Taxonomy,
Insect Pathology

Lecture:

1. Advanced Plant Nematology
2. Biology and Production of Entomopathogens

RESEARCH ROADMAP

Insects & Nematodes Biosystematic Ecology

Market	National Government/ Overseas	Local Government	Farmer	Private
Product	Insects collection, Nematodes collection, DNA barcoding for Gene Bank, molecular detection of dangerous insects pest and plant nematodes, insects pest and plant nematodes application for identification, biopesticides (nematodes, fungi and bacteria), healthy soil ecosystem, insects garden for ecotourism.			
Technology	<ul style="list-style-type: none"> - insects and mites morphological characters distinguished by head, thorax, abdomen, wings, legs and genitalia dissection - nematodes characters distinguished by morphometrics, internal dissection and perineal pattern for Root-Knot Nematodes - molecular specific primer for rapid detection of dangerous pests (insects and nematodes) - morphological characters (insects and nematodes) for new species and their cladistic analysis - DNA barcoding (insects, nematodes and mites) for new species and their phylogeny - Bioinsecticide bioassays (LD₅₀, LT₅₀) - molecular genetics for insect resistance - changes in morphological characteristics due to insecticides - Microbial symbionts (especially Wolbachia) in insect resistance and insect controlling - Total population (insects-nematodes-microbes), Soil chemical and physical for healthy soil - Insect breeding and conservation 			
R & D	Insect & Nematode Biosystematic Morphological and Genetics Molecular for systematic and phylogeny <ul style="list-style-type: none"> - Especially Lepidoptera, Hemipteroidea, Isoptera, Diptera and Collembola. - Agricultural mites (Acariformes) - Agricultural nematodes 		Insect & Nematode Ecology <ul style="list-style-type: none"> - Association insects and its natural enemies - Insects-Nematodes-microbes association - Association insects/nematodes and its host plant - Pesticides and insect resistance - Ecotourism insects 	



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Research Interest:

Post-Harvest Technology and Food Processing of Agricultural Products

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Scopus ID:

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Orchid ID:

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Formal Education:

Science of Pests and Plant Diseases (Bachelor)
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Food Science and Technology
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Food Science (Doctor)
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Recent Publication:

1. Antioxidant activities (DPPH and ABTS method) from extract of Bangle rhizome (*Zingiber cassumunar*) using different method of extraction, 2024
2. The effect of variations in coffee and tiwai plants as drink products on blood lipid profiles and hematological indices, 2024
3. Assistance for Spp-irt and Halal Legality for Krenyezz Tempeh Chips MSMEs and Alza MSMEs in Kutai Kartanegara Regency, 2023
4. MSME Product Digitization Technology to Increase the Marketability of Web-Based Geblek Snacks, 2023
5. Fulfillment of Aspects of Good Processed Food Production Methods (CPPOB) in Taganang MSMEs, Balikpapan City, 2023
6. Implementation of CPPB-IRT and halal product assurance system as an effort to improve the quality and halalness of MSME products, 2023
7. Feasibility Study and Business Development in Brown Rice MSMEs in Tenggarong City, 2023
8. Implementation of the halal product assurance system for MSMEs to increase product competitiveness, 2023
9. Becoming a viewer again? Optimizing educational tour at IKN Nusantara to encourage community enthusiasm, 2023
10. Application of Good Processed Food Production Method (CPPOB) for BPOM distribution license certification, 2023



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Research Interest:

Post-Harvest Technology and Food Processing of Agricultural Products

Lecture:

Bioactive Components of Tropical Wetlands and Their Utilization

RESEARCH ROADMAP

Identification and Utilization of Bioactive Compounds in Food Ingredients

Identification of bioactive compounds from post-harvest tropical agricultural products

Development of Post-Harvest Handling Technology to Maintain Bioactive Compounds

Optimal post-harvest handling and storage methods to minimize the degradation of bioactive compounds

Development of Functional Food Products Based on Bioactive Compounds

Formulation and development of functional food products incorporating bioactive compounds preserved through post-harvest handling

Clinical Testing for Commercial Purpose

Clinical testing of bioactive-based functional food products



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Research Interest:

Plant protection, Plant-Insect Interaction

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Bachelor of Agriculture
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Okayama University, 2022

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Recent Publication:

1. The use of animal manure for improving chemical properties of degraded Ultisol, yield, and secondary metabolic of *Zingiber montanum*, 2023
2. Effect of Soil Tillage on Weed Growth and Soybean Plant Production (*Glycine max* (L.) Merrill), 2023
3. BSR1, a Rice Receptor-like Cytoplasmic Kinase, Positively Regulates Defense Responses to Herbivory, 2023
4. PGPR-induced rice plant defense against brown planthopper, 2023
5. PGPR Suppresses Herbivore Attacks and Promotes The Growth Of Common Bean (*Phaseolus vulgaris* L.), 2023
6. Herbivore-induced and constitutive volatiles are controlled by different oxylipin-dependent mechanisms in rice, 2021
7. Ethylene functions as a suppressor of volatile production in rice, 2020
8. The role of hormonal signaling in rice defense against herbivores with focus on ethylene function, 2020
9. Nonglandular silicified trichomes are essential for rice defense against chewing herbivores, 2020
10. Soy and Arabidopsis receptor-like kinases respond to polysaccharide signals from *Spodoptera* species and mediate herbivore resistance, 2020



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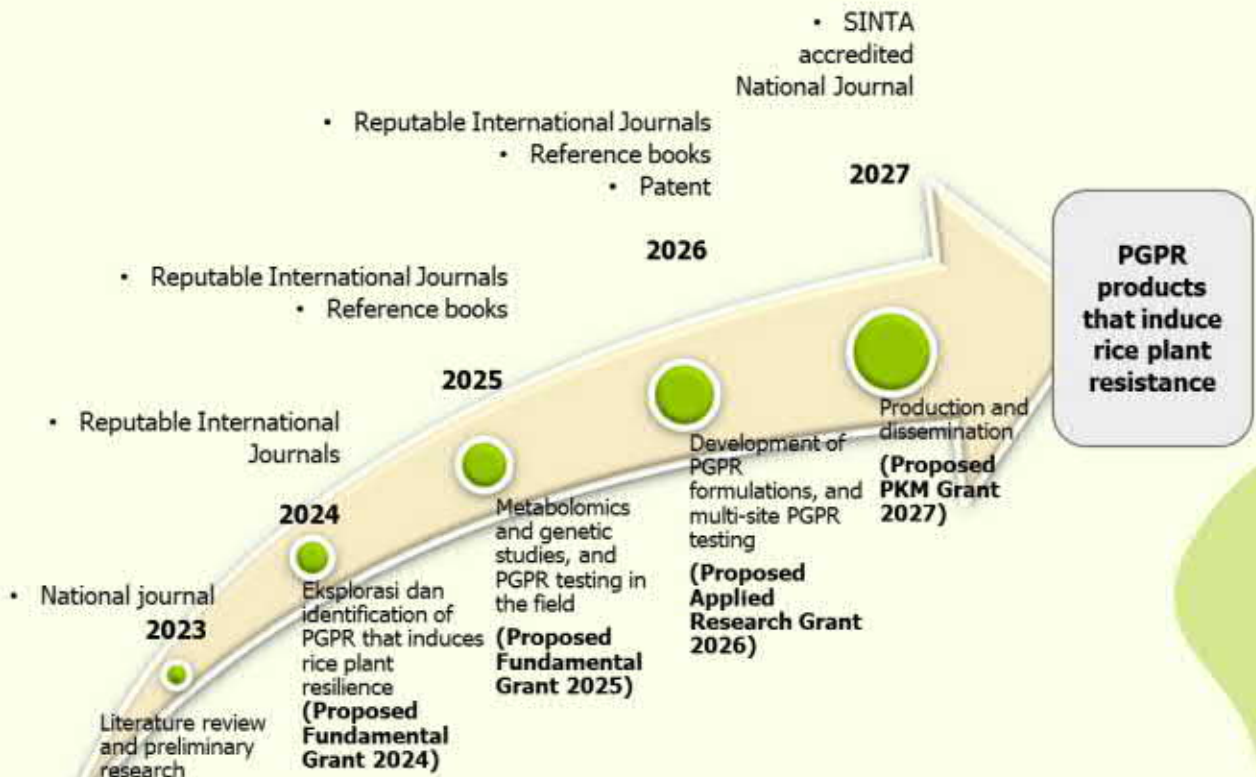
Research Interest:

Plant protection, Plant-Insect Interaction

Lecture:

1. Plant Resistance to Pests and Pathogens
2. Pesticide Toxicology

RESEARCH ROADMAP





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Soil Genesis and Classification, Soil Conservation

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Scopus ID:

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Orchid ID:

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Recent Publication:

1. Soil Developed from Mud and Sand Rocks for Coating of Former Coal Mine Piles in Teluk Dalam, East Kalimantan, 2023
2. Semi-Quantitativ Evaluation of Soil Fertility of Upland and Lowland Rice Areas By Using Multivariate Analysis, 2023
3. Suitability of Rubber Plantation on Old Volcanic Parent Material at Barong Tongkok, East Kalimantan, 2023
4. Land Reclamation Identification, Revegetation and Post-Mining Land Resources Evaluation in East Kalimantan, 2023
5. Morphological characteristics of top soiling in the reclamation areas of post-coal mining at Kutai Kartanegara and Kutai Timur Regencies, 2023
6. The growth of *Paraserianthes falcataria* at three different plant ages and soil thickness classes on reclamation sites of post-coal mining areas in East Kalimantan, Indonesia, 2022
7. Identification and Evaluation of Land Resources in Post-Coal Mining Land Reclamation Areas in East Kalimantan, 2022
8. Land Characteristics, Morphology and Soil Fertility Based on Slope Position (*Toposequence*) in East Kutai Regency, 2022
9. Regional Pedology of Characteristics, Potentials, Constraints and Management for Agricultural Development in Kalimantan, 2022
10. Improving the Efficiency of Foliar Fertilization in Ultisol by Using Coal Fly Ash, 2021



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Research Interest:

Soil Genesis and Classification, Soil Conservation

Lecture:

1. Pedogenesis of Humid Tropics
2. Impact of Land Use in Mining and Plantation Areas

RESEARCH ROADMAP

2. Genesis Study of Tropical Soils

Study of soil formation processes (genesis) in tropical environments, including key factors such as climate, vegetation, parent material, and topography

4. Evaluation of Soil Potential and Suitability for Agricultural Use

Assessment of the potential and suitability of tropical soils for various agricultural and plantation uses, based on classification results

1. Characterization of Soil Morphology in Humid Tropical Regions

Characterization and mapping of soil morphological properties such as color, texture, structure, consistency, and soil horizons in various tropical ecosystems

3. Classification of Soil Based on the International System

Classification of soils using both local systems relevant to humid tropical conditions and international classification standards

5. The Influence of Climate Change on Soil Morphology and Genesis

Examination of the impact of climate change on soil morphology and formation processes in tropical regions



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Soil Conservation, Land Use Management

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Scopus ID:

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Orchid ID:

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Formal Education:

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Recent Publication:

1. Erosion Rate in Post-Coal Mining Reclamation Area in Kutai Kartanegara District, Indonesia, 2023
2. Analysis of Surface Flow Rate (Runoff) on Land use Case Study in Loa Bakung Sub-District, 2023
3. Stem Flow On Some Types of Tress, 2022
4. Study on the Status of Land Damage for Biomass Production in Marangkayu District, Kutai Kartanegara Regency, 2022
5. Analysis of several soil physical properties as indicators of soil damage in dry land, 2022
6. The Effect of Flooding On Content Nutritional Elements N, P, K in Ultisols, 2022
7. The Effect Of Bokashi And Their Incubation Period On Some Chemical Properties Of Ultisols Soil, 2022
8. Study of some Chemical Properties of Ultisols Soils Based on the Existence of Earth Worms, 2022
9. Policy Analysis, Geospatial And Economic Value Of Plantation Areas In The Province Of East Kalimantan, Indonesia, 2022
10. Physical and Chemical Properties of Various Products of Composting Process on Palm Oil Middle Waste, 2022



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Research Interest:
Soil Conservation, Land Use Management

Lecture:

1. Advanced Regional Development
2. Impact of Land Use in Mining and Plantation Areas

RESEARCH ROADMAP

Development of Soil and Water Conservation Technology

Soil and water conservation technologies that are adaptive to humid tropical environments, ready to be implemented in the field

2

Monitoring and Evaluation the Impact of Conservation Programs

Conducting comprehensive evaluations of the effectiveness of soil and water conservation programs, with recommendations for future policies

4

1

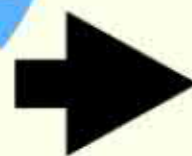
Identification of Soil Degradation and Water Availability

Mapping areas affected by soil and water degradation, and collecting baseline data for conservation planning

3

Regional Planning Based on Soil and Water Conservation

Designing regional plans that integrate soil and water conservation principles to ensure the sustainability of natural resources





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Research Interest:

Soil Biology,
Soil Fertility

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Formal Education:

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Magister of Agriculture
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Doctoral of Agriculture
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Recent Publication:

1. Changes in pH, Exchangeable Aluminum and Phosphorus Available Ultisol due to Organic Fertilizer Application of Banana Stems and Coal Fly Ash, 2023
2. Absorption of Iron Heavy Metal (Fe) by Phytoremediation Method in Rice Field Soil using Water Kale Plants (*Ipomoea aquatica*), 2022
3. Literature Review: The Use of Plant Growth Promoting Rhizobacteria (PGPR) to Increase Growth and Reduce the Use of Inorganic Fertilizers in Agricultural Crops, 2022
4. Soil Quality Mapping with Geographic Information System Analysis in Samarinda City, 2021
5. Evaluation of Land Suitability of Shallot Plants (*Allium ascalonicum* L.) in Tanjung Perangat Village, Sambaliung District, Berau Regency, 2020
6. Improvement of Several Chemical Properties in Post-Coal Mining Soils by Dosing Bokashi Kiapu (*Pristia stationes* L.) and Krinyu (*Choromolaena odorata* L.), 2019
7. Development of Tomato (*Lycopersicon esculentum* Mill.) Roots in Every Growth Stage in Flooding Conditions, 2019
8. Farmers' Attitudes in Receiving Agricultural Extension Materials and Media in Sengkotek Village, Loa Janan Ilir District, Samarinda City, 2019
9. Effect of Inundation on Cation Exchange Capacity and Soil Base Saturation, 2019
10. Effect of Inundation on Cation Exchange Capacity and Soil Base Saturation, 2019



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Research Interest:

Soil Biology,
Soil Fertility

Lecture:

Advanced Soil Biotechnology

RESEARCH ROADMAP

Understanding and Identifying Key Soil Chemical Issues

01

- Conduct lab experiments to understand the chemical behavior of post-coal mining soils
- Test different chemical amendments (lime, biochar, etc.) on soil samples

Scaling up and Commercializing Treatment Solutions

03

- Collaborate with mining companies to implement large-scale treatment solutions
- Develop commercial applications and policy guidelines for widespread use

Testing and Validating Chemical Treatments in the Field



02

- Apply treatments on small field plots
 - Monitor soil properties (pH, nutrient levels) and plant growth



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Recent Publication:

1. Towards the New National Capital (IKN) in Indonesia: Premises and Challenges of Food Security, 2023
2. Analysis of Land Carrying Capacity in Kutai Kartanegara Regency, 2023
3. What Driving Gross Domestic Product of Agriculture? Lessons from Indonesia (2014-2021), 2023
4. Spatial distribution of paddy field's heavy metals diversity contamination in Samarinda using remote sensing imagery, 2023
5. Application Of Maggot Fertilizer To Plant, Soil Chemical Properties Development and Production of Sawi Hibrida (*Brassica juncea* L), 2023
6. Channeling Information and Reviewing FFB Productivity Disruptions of Residents' Palm Oil Gardens in Saliki Village (Muara Badak District, Kutai Kartanegara Regency), 2022
7. Suitability of Paddy Rice Fields in Bumi Rapak Village and Selangkau Village, East Kutai Regency, 2022
8. Understanding Market Behavior on Corn Commodity: Phenomenon at Year End, 2022
9. Analysis of Soil N-Total Content and pH of Leguminosae Cover Crops (LCC) at Different Planting Ages and Liming Doses, 2022
10. Effect of Soil Damage on Carrying Capacity of Biomass Production: A Lesson from Tanjung Selor District-Tanjung Redeb, Indonesia, 2022



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Lecture:

1. Ecology and Land Management
2. Post-Mining Land Management

RESEARCH ROADMAP

Development of Technology-Based Land Survey Methods

Integration of technologies such as GIS, drones, and soil sensors to enhance the accuracy and efficiency of soil surveys

Preparation of a Sustainable Land Management Model

Develop an integrated land management model

Test the implementation of the model in the field and evaluate its success

Soil Characteristics Mapping

Collect soil samples from various locations

Analyze key parameters such as texture, pH, organic content, and soil nutrients



Evaluation of Land Suitability for Agriculture

Determine land suitability classes based on land potential and limitations

Provide recommendations for optimal land use for specific crops

Assessment of Land Use Impact on the Environment

Study the effects of land conversion on soil quality and the environment

Recommend environmentally friendly agricultural practices



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Agricultural economy

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Formal Education:

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Recent Publication:

1. Side Business Contributions (Trigona Bee Farming) and The Main Business for Household Income, 2024
2. Analysis Of Determinant Of The Human Development Index In The Province Of East Kalimantan, 2024
3. Financial Feasibility Analysis of Product Diversification Development in Kangbejo Agrotourism, Balikpapan City, East Kalimantan, 2022
4. Behavior of Oil Palm Farmers in the Self-Help Pattern Facing Fluctuations in Fresh Fruit Bunches Prices, 2022
5. Performance Of Agricultural Extension Worker In The Work Area Of Agricultural Extension Center Of Jempang, Regency Of West Kutai, 2022
6. The Role Of Agricultural Extension in the Development of Farmer Groups in Tanah Abang Village Long Mesanggat Subregency East Kutai Regency, 2021
7. Contribution of the Karya Bhakti Mandiri Cooperative to the Broiler Chicken Farming Business in Bengalon District, East Kutai Regency, 2020
8. Potential of Plants in Post-Coal Mining Reclamation Land as Animal Feed, 2020
9. The Role of Field Agricultural Extension Workers in Increasing Rice Production (*Oryza sativa* L.) in Pulau Atas Village, Sambutan District, Samarinda City, 2020



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Research Interest:
Agricultural economy

Lecture:

1. Advanced Production Management in Agribusiness
2. Institutional Economics of Agribusiness
3. Advanced International Trade

RESEARCH ROADMAP

Analysis of the Structure and Role of Agricultural Institutions

(Field study on existing institutions in the agricultural sector and identification of institutional weaknesses and areas for improvement)

Sustainable Institutional Model Development

(Designing resilient and sustainable agricultural institutional models to enhance farmers' competitiveness)

01



02



03



04



Strengthening the Capacity of Agricultural Cooperatives (Evaluation of the effectiveness of cooperatives in distributing agricultural products. Includes training and managerial capacity-building for cooperative administrators)

Implementation of Digital Cooperatives and Institutional Networks (Encouraging the digitalization of cooperatives and strengthening institutional networks within the context of agricultural supply chain integration)



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Development Economics,
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Management

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Formal Education:

-

Recent Publication:

1. Strategy For Improving Public Services Case Study At The Office Of The Regional Technical Implementation Unit Of The Regional Revenue Office Of East Kalimantan Province In Samarinda, 2024
2. Analysis Of Community Perception And Welfare On The Impact Of Corporate Social Responsibility In Tenggarong District, Kutai Kartanegara Regency, 2023
3. The Impact of Fiscal Decentralization on the Performance of Regency/City Governments with the Balanced Scorecard Approach, 2015
4. Rural Agricultural Economic Development, 2011
5. The Impact of Fiscal Decentralization Policy on the Performance of City Regency Governments with a Balanced Scorecard Approach, 2007

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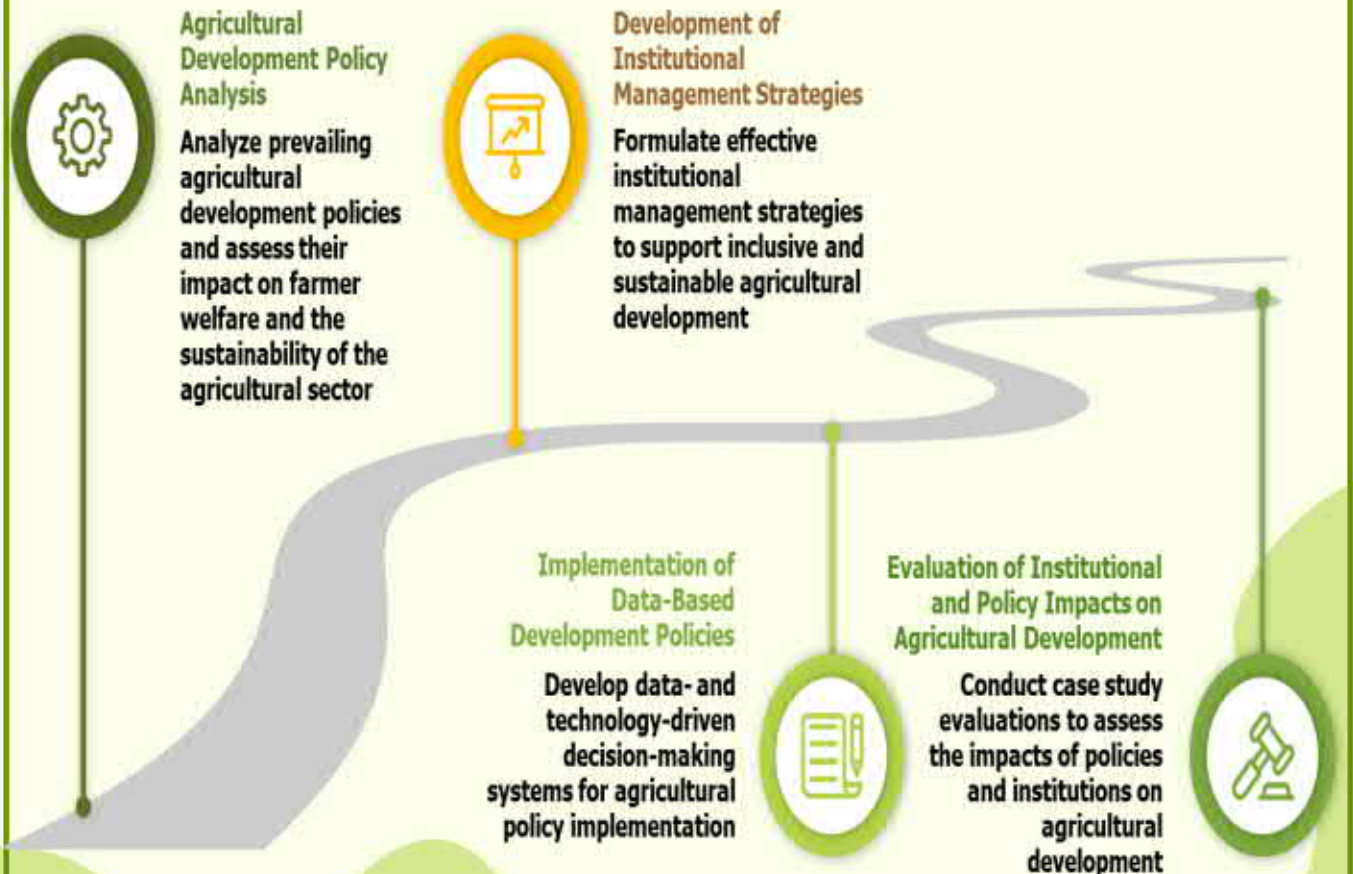
Research Interest:

Development Economics, Macroeconomics, Agribusiness Management

Lecture:

1. Advanced Managerial Economics
2. Policy for Agricultural and Agribusiness Development in Humid Tropics
3. Advanced Production Management in Agribusiness
4. Institutional Economics of Agribusiness

RESEARCH ROADMAP





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Orchid ID:

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Recent Publication:

1. Composition and Structure of Mangrove Species in Sekurau Bawah Hamlet, East Kutai Regency, East Kalimantan, 2023
2. The dietary, productivity, and economic value of swiftlet (*Aerodramus fuciphagus*) farming in East Kalimantan, Indonesia, 2021
3. The ecology, productivity and economic of swiftlet (*Aerodramus fuciphagus*) farming in Kota Bangun, East Kalimantan, Indonesia, 2020



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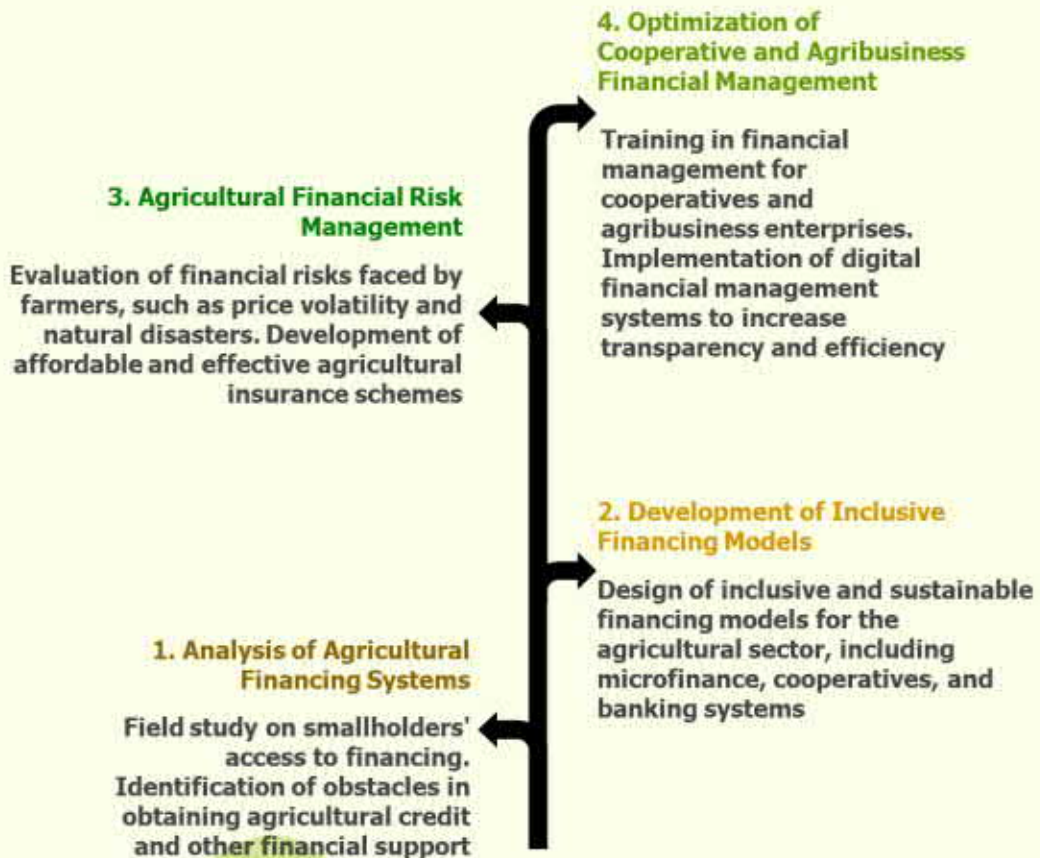
Research Interest:

Agricultural Economics, Financial Management

Lecture:

1. Agribusiness Financing Management
2. Advanced International Trade

RESEARCH ROADMAP





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Scopus ID:

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Doctoral

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Recent Publication:

1. Technology Adopters versus Non-Technology Adopters on the Sustainability of Agricultural Cooperatives, 2024
2. The Impact Of Mining Excavations (Voids) On The Water Quality Management In The North Kalimantan Province, 2024
3. Analysis of the level of land suitability and finance for the development of kaliandra energy plants (*Calliandra callothyrsus*) at the location of the former coal mine of PT Padangsubur Biomasa Kaltim, 2024
4. Technology Adopters versus Non-Technology Adopters on the Sustainability of Agricultural Cooperatives: The Case of the East Kutai Regency Scale, 2023
5. Evaluation of the Performance of Field Agricultural Extension Workers and the Effectiveness of the Use of Social Media at the Agricultural Extension Center, Linggang Bigung District, Kutai BaraT Regency, 2023
6. Study of Local Knowledge on the Practices of Swidden Agriculture to Increase Productivity and Sustainable Land: Case Study on the Kenyah and Bahau Dayak in East Kalimantan, Indonesia, 2022
7. Understanding local peoples' participation as "Means" and "Ends" in protected areas management: A qualitative study in the heart of Borneo, 2022
8. Planning of Cropping Patterns in Penajam Paser Utara District, 2022
9. Contribution of Sumalindo Company: In Managing Forest Resources with Local Communities: Mahakam Ulu-East Kalimantan, 2022
10. Contribution of Sumalindo Company: In Managing Forest Resources with Local Communities: Mahakam Ulu-East Kalimantan, 2022



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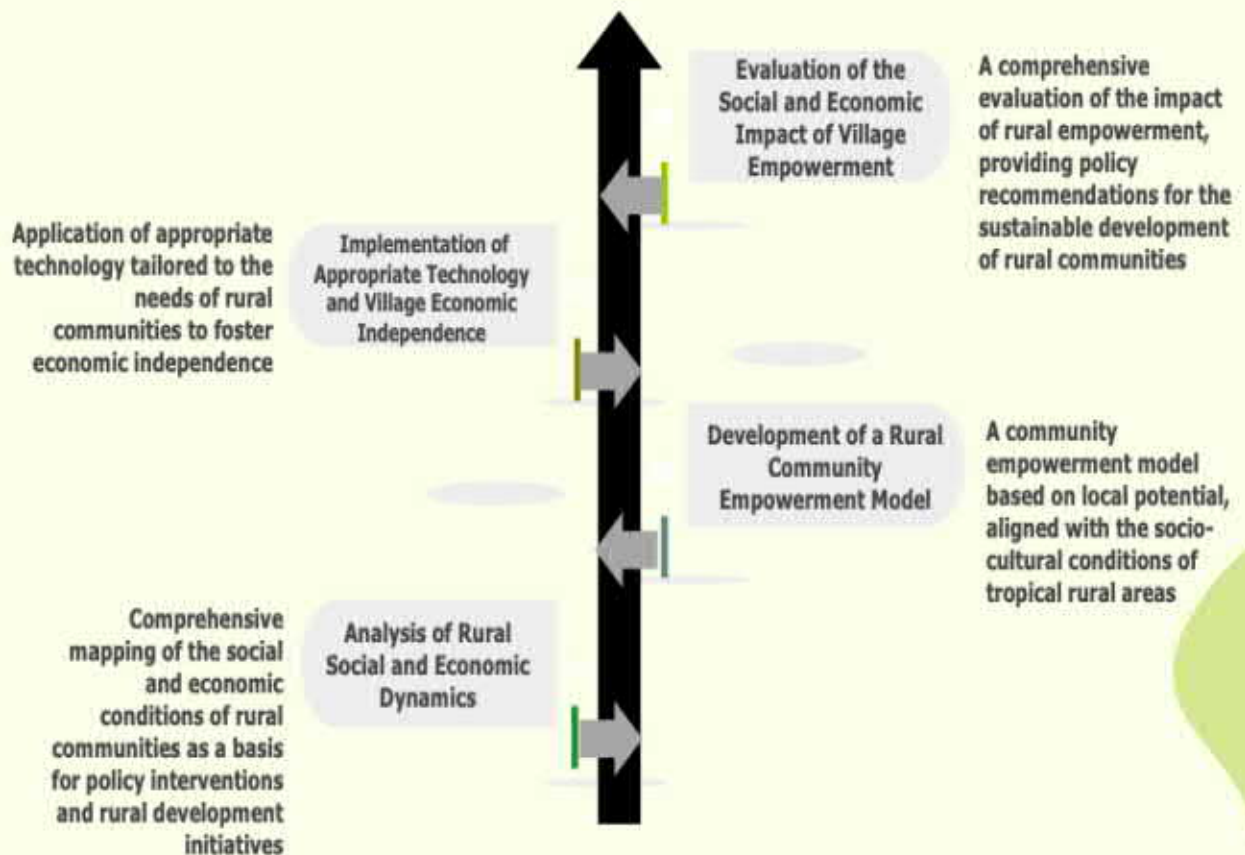
Research Interest:

**Agricultural Economics,
Development Economics**

Lecture:

1. Policy for Agricultural and Agribusiness Development in Humid Tropics
2. Institutional Economics of Agribusiness
3. Advanced International Trade

RESEARCH ROADMAP





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Research Interest:

Agricultural economy

Sinta ID:

6008280

Scopus ID:

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Orchid ID:

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Formal Education:

Bachelor of Agriculture
Mulawarman University, 1997

Magister
Mulawarman University, 2000

Doctoral
University of Malaysia Sarawak,
2014

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Recent Publication:

1. Improving Psychomotor Skills of Elementary School Students Through Hand Skills Training Made from Beads and Shoelaces, 2024
2. Static Arch and Shear Adhesive Strength of Rubber Type Laminated Wood (*Hevea brasiliensis*) Based on Compression Time Variation, 2024
3. Development of Student Worksheets Integrated Islamic Values in Number Materials, 2023
4. Perception and Behavior of Extension Participants in Household Waste Management in Bangun Rejo Village, Kutai Kartanegara, 2023
5. The allometric equations for estimating above-ground biomass in a 50 years-old secondary forest in East Kalimantan, Indonesia, 2023
6. Utilization of cracked wood (*Vatica* sp.) from unused land as building construction materials, 2023
7. The Role of Health, Education, and Financial Institutions in Supporting Agricultural Development in West Kutai Regency, 2023
8. Community Knowledge About Coconut Bonsai Ornamental Plants in Bukit Biru Village, Kutai Kartanegara Regency, 2023
9. Leading Sectors in West Kutai Regency and Their Contribution to Labor Absorption in East Kalimantan Province, 2022
10. Socialization of Abandoned Land Use by Planting Local Plants in Kalimantan as a Soil and Water Conservation Effort, 2022



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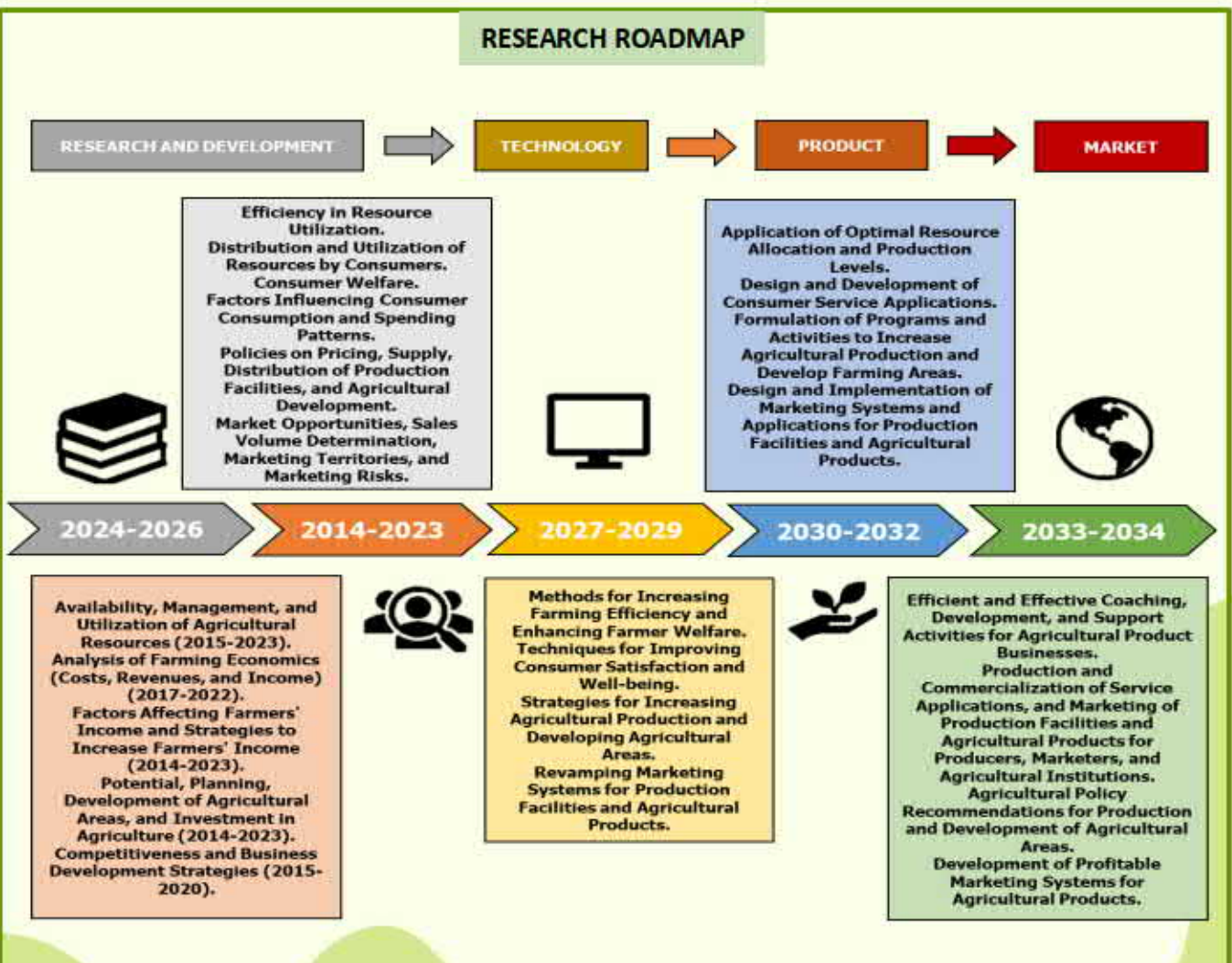
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Research Interest:
Agricultural economy

Lecture:

1. Advanced Managerial Economics
2. Advanced Production Economics

RESEARCH ROADMAP





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Agricultural Administration Commerce

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Scopus ID:

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Orchid ID:

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Formal Education:

**Agricultural Socioeconomics
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Mulawarman University, 2003**

**Agricultural Socioeconomics
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Bogor Agricultural Institute,
2008**

**Agricultural Socioeconomics
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Bogor Agricultural Institute,
2018**

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Recent Publication:

1. Analysis Of Determinant Of The Human Development Index In The Province Of East Kalimantan, 2024
2. Analysis Of Sweet Corn Farming And Marketing In Rontik Village, Babulu District Penajam Paser North Regency, East Kalimantan Province, 2023
3. Bookkeeping and Financial Recording Assistance for Small and Micro Business Actors in Suliliran Baru Village, 2023
4. Analysis of Seed Cost Proportion and Comparison of Productivity of Cigeulis and Infrari Rice Farming Varieties in Jambuk Makmur Village, 2023
5. Performance Evaluation Of Agricultural Intentions And The Effectiveness Of Using Social Media In Agricultural Counseling Centers, Linggang Bigung Sub-District Kutai Barat Regency, 2023
6. Analysis of Hydroponic Vegetable Sales Forecasting in vegetables. com Samarinda City, 2023
7. Analysis of Consumer Behavior in Purchasing Curly Red Chili (*Capsicum annum* L) at SayurYuk. com Samarinda City, 2023
8. Financial Feasibility Analysis of Product Diversification Development in Kangbejo Agrotourism, Balikpapan City, East Kalimantan, 2022
9. Analysis of the Forecast of Liquid Organic Fertilizer Sales at Jimmy Hantu Company Tenggarong Branch, 2022
10. The Cropping Pattern And Capital Source Of Farming In Jembayan Village, Loa Kulu District, Kutai Kartanegara Regency, 2022



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Agricultural Commerce Administration

Lecture:

1. Advanced Production Economics
2. Advanced Agricultural Marketing

RESEARCH ROADMAP

Analysis of the Agricultural Business Value Chain

Study of the supply chain and distribution of agricultural products. Identify gaps in the value chain that affect product efficiency and pricing



Integration of Smallholders into Global Markets

Integrating smallholders into global markets through product standardization, certification, and increased competitiveness of local agricultural products



Development of a Sustainable Business Model

Development of agricultural e-commerce platforms. Enhancement of farmers' access to direct markets and reduction of distribution chain lengths



Evaluation of the Impact of Regulatory Policies on Farmers' Welfare

Analysis of subsidy policies, market regulation, and trade protection. Examination of the impact of business system programs on farmers' income and the sustainability of distribution systems





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Research Interest:

Engineering of agricultural product processes and processing of vegetable oils/fats

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Scopus ID:

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Orchid ID:

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Formal Education:

Agronomy (Bachelor)
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**Agricultural Industrial
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Recent Publication:

1. The Potential for Development of Red Palm Oil Industry in East Kalimantan, 2024
2. Processing of olein fraction red palm oil with minimal refining method and optimization of deodorization process, 2022
3. Development Strategy of Sago Plants (*Metroxylon sago* Rottb) as a Leading Commodity in Paser Regency, East Kalimantan Province, 2019
4. Effect of Jackfruit Seed Processing Method (*Artocarpus heterophyllus*) on the Sensory Quality of Chocolate Bars, 2019
5. Formulation Study of Several Vegetable Oils in the Making of Solid Bath Soap, 2018
6. Study on Red Palm Oil Characteristics Produced from CPO (*Crude Palm Oil*), 2017
7. Blood Glucose Response and Quality of Salak Skin Herbal Drink with Natural Flavor, 2017
8. Blood Glucose Response And Quality Of Herbal Of Skulk Bark With A Natural Flavor, 2017
9. Effect of Adding Carrageenan with Different Levels on Chemical Composition, Physical Quality, Sensory and Microstructure of Chicken Sausage, 2016



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Engineering of agricultural product processes and processing of vegetable oils/fats

Lecture:

Agricultural Product Processing Techniques

RESEARCH ROADMAP

Characterization and Analysis of Fat and Oil Quality

Identification of the physicochemical properties and characteristics of fats and oils, including fatty acid composition, oxidation index, and nutrient content

01

Development of Fat and Oil Processing Methods

Study of safer and more environmentally friendly methods for oil extraction. Optimization of refining, bleaching, and deodorizing processes for vegetable oils

02

Production of Functional Fats and Oils

Development of fat and oil products with health benefits, such as oils fortified with omega-3 fatty acids or products low in saturated fats

03

Evaluation of the Stability and Safety of Fat and Oil Products

Assessment of the oxidative stability, food safety, and shelf life of fat and oil products during storage and distribution

04



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Food/agricultural product process engineering

Sinta ID:

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Scopus ID:

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Orchid ID:

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Formal Education:

Agricultural Industrial
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Bogor Agricultural Institute,
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Food Science (Magister)
Bogor Agricultural Institute,
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Gadjah Mada University, 2016

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Recent Publication:

1. Chemical and Sensory Characteristics of Margarine Based on Olein-Stearin Fraction of Palm Oil with the Addition of Yellow Pumpkin Juice, 2024
2. Study Of Spontaneous Fermentation Time Effect On The Physico - Chemical Characteristics Of Betung Bamboo Shoots Flour (*Dendrocalamus Asper* Backer), 2023
3. Synthesis and Characterization of Bacterial Cellulose-Based Transparent Bioplastics, 2022
4. Agropolymer-Based Bioplastics: Alternative Solutions to the Plastic Waste Problem, 2022
5. Incorporation of pectin during biosynthesis of bacterial cellulose by *Gluconacetobacter xylinus* InaCC B404: Possibility for producing green food packaging, 2021
6. Production and characterization of bacterial cellulose-alginate biocomposites as food packaging material, 2021
7. Overrun, kecepatan leleh, kadar vitamin C, dan karakteristik sensoris es krim rosela (*Hibiscus sabdariffa* L.) dengan variasi jenis penstabil, 2020
8. Effect of rabbit meat formulation and purple sweet potato (*Ipomoea batatas* L.) on the chemical and organoleptic properties of meatballs, 2019
9. Development of Bacterial Cellulose - Chitosan Biocomposite as a Potential Edible Coating for Fresh Cut Frutis, 2019
10. Assessment Of Rhodamine B, Microbiological Quality And Sanitation Of Street-Vended Food-Snack Around School In Samarinda, Indonesia, 2019



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Research Interest:

Food/agricultural product process engineering

Lecture:

Advanced Agricultural Product Analysis

RESEARCH ROADMAP

Characterization of the Chemical Structure of Carbohydrates

Study of the chemical composition and molecular bonds of carbohydrates from natural sources. Evaluation of physicochemical properties viscosity, water-binding ability, and crystallinity

Development of Carbohydrate Processing Technology

Techniques for starch modification and enzymatic hydrolysis to produce carbohydrate derivative products

Production of Functional Carbohydrates and Prebiotics

Production of prebiotics from natural carbohydrate sources through microbial fermentation

Application of Modified Carbohydrates in the Food

Application of modified carbohydrates or their derivatives in food

