Lecturers' publications related to local concerns in the semi-arid region of East Nusa Tenggara (NTT) and their integration into the Agrotechnology Study Program's courses.

No	Article Title	Year	Researcher	Focus of Research	Relevance to Local Issues	Integrated with the Course
1	Genetic diversity of local cowpea (*Vigna unguiculata*) germplasms of East Nusa Tenggara Province, Indonesia revealed by seed characteristics (https://smujo.id/biodiv/article/view/20388)	2025	Yosep S Mau, Shirly SS Oematan, IGB Adwita Arsa, Antonius SS Ndiwa, and Agnes C Bere	Local Crop Germplasm and Biodiversity	Conservation and utilization of Local Crop Biodiversity	1. Genetics and Plant Breeding; 2. Fundamentals of Agronomy 3. Plant Growth and Development; 4. Seed Technology
2	Response of Growth Components and Yield of Four Mung Bean Varieties to Drought Stress (doi:10.1088/1755-1315/1482/1/012018)	2025	IGB Adwita Arsa, Yosep S Mau, Antonius SS Ndiwa, Nikson Rammang and Fadlan Pramatana	Crop resilience	Response of mung bean varieties to drought stress for enhancing crop resilience in drylands of NTT	1. Genetics and Plant Breeding 2. Fundamentals of Agronomy 3. Plant Physiology 4. Archipelagic Dryland Biodiversity 5. Sustainable Dryland Agriculture 6. Management Technology
3	Cooking Oil Price Volatility in the Consumer Market and Wholesalers Market in Indonesia. (doi.org/10.22194/JGIAS/25.1499 http://www.jgiass.com)	2025	DR Nendissa, MR. Pellokila, M. DC Lerik, Ana A Sa'dyah, YR Kana, AE Nahas, TS Harini, Maximilian J Kapa and Zainal Abidin	Food policy	Cooking oil price instability in Indonesia's market	1. Introduction to Agricultural Economics 2. Agribusiness Management
4	The effect application of powder active of cassava to various composted weeds in improving chemical characteristics of vertisol and yield of mung bean (*Vigna radiata* L.) (https://www.bio-conferences.org/articles/bioconf/pdf/2024/20/bioconf_icolib2023_01008.pdf)	2024	INP Soetedjo, St. Elias. Nguru and Maximilian J. Kapa	Soil improvement	Vertisol rehabilitation using local resources	1. Soil Fertility and Fertilization Technology 2. Soil Chemistry 3. Horticultural and Lanscape Plant Cultivation 4. Plant Growth and Development.

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5	Characteristics of kesambi leaf torrefaction biomass (https://doi.org/10.1063/5.0193717	2024	Jemmy JS Dethan, Jublin F Bale-Therik, Franky MS Telupere, Herianus JD Lalel, and Sanggono Adisasmito	Eco-friendly technology	Utilization of local Kesambi biomass for renewable energy	1. Agricultural Waste Management Technology 2. Agricultural Product Processing Technology. 3. Soil Physics.
6	Inheritance of seed coat color and heritability of agronomic characters of F2 population of reciprocal crosses between Fore Belu and Local Sabu mungbean varieties (https://smujo.id/biodiv/article/view/13854)	2023	Yosep S Mau, Antonius SS Ndiwa, Widasari Bunga, Z Abidin, Titik S Harini, Shirly S Oematan, Effy Roefaida, A Taloim, A Gadji, M Risnawati, and RA Nana	Genetic Analysis of Trait Inheritance in Mungbean	Exploration of natural dyes based on NTT biodiversity.	1. Genetics and Plant Breeding 2. Plant Pest sand Diseases 3. Fundamentals of Agronomy
7	Predicting of Komodo dragon's potential prey habitat suitability using MaxEnt in Riung Nature Reserve, Flores,East Nusa Tenggara, Indonesia. (oi.org/10.13057/biodiv/d240605)	2023	Fadlan Pramatana, Y Aini, N Rammang, Yosep S Mau, IGBA Arsa, and Arief Mahmud	Biodiversity management	Komodo conservation habitat in Riung Nature Reserve, Flores	1. Archipelagic Drylands Culture and Tourism 2. Entrepreneurship
8	Short Communication: Comparison of the water environment aspects and production of Nile tilapia (*Oreochromis niloticus*) between biofloc and conventional aquaculture systems in tropical dryland region. (doi.org/10.13057/tropdrylands/t070102)	2023	Patris THB Halla, Herianus JD Lalel, and Priyo Santoso	Water use efficiency	Enhancing Nile tilapia aquaculture efficiency in dryland areas of NTT through eco-friendly biofloc system	1. Archipelagic Drylands Culture and Tourism 2. Entrepreneurship
9	Local Wisdom of West Timorese Farmers in Land Management (doi.org/10.3390/su14106023)	2022	Y Ngongo, T Basuki, B deRosari, Evert Y. Hosang, Jacob Nulik, H da Silva, and D Kana Hau, Alfonso	Local wisdom	Traditional Soil Fertility and Conservation Practices	1. Sustainable Management of Dryland Agriculture 2. Application of Dryland Faraming Technology

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			Sitorus, Noldy RE Kotta, Gerson N. Njurumana, Eko Pujiono, Lily Ishaq, Agnes V. Simamora and Yosep S Mau			
10	Assessment of genetic diversity and characterization of distinctness, uniformity, and stability of newly bred sweet potato clones (doi.org/10.13057/biodiv/d231146)	2022	Yosep S Mau, Antonius SS Ndiwa, IGBA Arsa, GV Asa, A Nana, JA Londingkene, EY Hosang, and NRE Kotta	Local germplasm utilization	Genetic diversity of local sweet potatoes	1. Genetics and Plant Breeding; 2. General Botany
11	The physical and chemical characteristics of several accessions of sorghum cultivated on drylands in East Nusa Tenggara, Indonesia (doi.org/10.13057/biodiv/d220509)	2021	Lince Mukkun, Herianus JD Lalel, and Yasinta Kleden	Dryland-Based Agriculture	Sorghum as a drought-tolerant food alternative in NTT	1. Genetics and Plant Breeding 2. General Botany; 3. Plant Biochemistry
12	Proximate composition and aroma quality of five aromatic upland-rice accessions from Sumba Barat Daya District, East Nusa Tenggara Province, Indonesia (doi.org/10.13057/tropdrylands/t030201)	2019	IGBA Arsa, Herianus JD Lalel, and Roddialek Pollo	Local Food Diversification	Proximate composition and aroma quality of aromatic upland rice from Southwest Sumba can enhance local food value.	1. Genetics and Plant Breeding 2. Plant Physiology 3. Archipelagic Dryland Biodiversity
13	Savanna Biomass for Cosmetics Sources (doi.org/10.1007/978-981-97-1908-2_4)	2024	Lince Mukkun, Agnes V Simamora, Herianus JD. Lalel and Priska D Pakan	Local resource utilization	Utilizing NTT savanna biomass as a sustainable, eco-friendly source for cosmetics production	1. Archipelagic Dryland Biodiversity 2. Plant Biochemistry
14	The Effect of Sandalwood Host Plant Pruning Frequency and Organic Material Composition of Planting Media on Sandalwood Seedling Growth	2023	Muhammad Kasim, Effy Roefaida, Yosefina RY Gandut, Antonius SS Ndiwa, and	Conservation Biodiversity	Improving sandalwood growth for sustainable cultivation in East Nusa Tenggara.	1. Archipelagic Dryland Biodiversity; 2. Seed Technology

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	(Fruitset Sains, 10 (6) (2023) pp.437-445)		Agnes V Simamora			
15	Study of Cow Dung Compost Fertilizer Needs And Inorganic Compound Npk Doses on The Growth And Yield Of Local Sabu Variety of Shallots (https://iocscience.org/ejournal/index.php/Fruitset/article/view/3494/2628)	2023	Antonius SS. Ndiwa, Yosep S Mau, Shirly S Oematan, IGBA Arsa	Fertilization	Optimizing organic and inorganic fertilizers for Sabu local shallots.	Soil Fertility and Fertilization Technology
16	The Effect of Frequency of Pruning Sandalwood Host Plants and Organic Material Composition of Planting Media on Sandalwood Seedling Growth (https://iocscience.org/ejournal/index.php/Fruitset/article/view/3421/2627)	2023	Muhammad Kasim, Effy Roefaida, Y RY Gandut, Antonius SS. Ndiwa, Agnes V Simamora	Conservation Biodiversity	Sustainable local sandalwood cultivation through pruning and fertilization techniques	1. Archipelagic Dryland Biodiversity; 2. Fundamental of Soil Science
17	The Respon of Growth And Yield Components, Yield as Well as The Aroma Quality of Three Lokal Varieties of Aromatik Upland Rice From South West Sumba to Soil Moisture Level (https://garuda.kemdikbud.go.id/documents/detail/1630998)	2020	IGBA Arsa, Herianus JD Lalel and Roddialek Pollo	Plant Resilience to Climate	Impact of soil moisture on growth, yield, and aroma of local aromatic rice varieties.	1. Genetics and Plant Breeding; 2. Archipelagic Dryland Biodiversity
18	The landlords, the peasant, and the retention basin: Local political ecology of water management in the small island of Semau, Kupang, Indonesia. (doi: 10.13057/tropdrylands/t050103)	2021	Pantoro T Kuswardono, IW Mudita, and David BW Pandie	Natural Resource Management	Water management in Semau Island is shaped by local political ecology and resource access.	1. Soil and water conservation 2. Watershed management 3. Agricultural Extension and Communication
19	Swidden Agriculture, food security and environment in semiarid area of Timor – Indonesia (doi: 10.1088/1755-1315/782/3/032009)	2021	Maximilian J Kapa, NRE Kotta and Y Ngongo	Natural Resource Management	Swidden agriculture supports food security but impacts the environment in Timor's semi-arid regions.	1. Soil and water conservation 2. Watershed management 3. gricultural Extension and Communication

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20	The Structure, Composition, and Health of Remnant Forest Vegetation of West Timor, Indonesia (doi:10.9734/ajee/2020/v13i430186)	2020	Mangadas L Gaol and IW Mudita	Biodiversity Conservation	Loss of forest cover in West Timor threatens biodiversity and local ecosystem health.	1. Archipelagic Dryland Biodiversity 2. Annual and Perennial Plant Cultivation Technology
21	The effect of various dosages of fishbone flour and tofu slurry on chemical characteristic of alfisol and yield of leaf cabbage (*Brassica oleracea* var. acephala) (doi:10.13057/tropdrylands/t040205)	2020	IN Prijo Soetedjo, EA Jansari, and Antonius SS Ndiwa	Organic Fertilization	The use of fishbone flour and tofu slurry enhances soil fertility and crop yield in NTT.	1. Soil Chemistry 2. Soil Fertility and Fertilization Technology 3. Horticultural and Landscape Plant Cultivation
22	Essential oil of *Cymbopogon nardus* from Timor island: Excellent source of geraniol. (doi.org/10.1063/5.0062187)	2020	Antonius RB Ola, Maria R Niis, Yoseph Sugi, Hermania E Wogo, Petronela Nenotek, and Maria AE Nahas	Essential Oil Industry	Essential oil of Cymbopogon nardus from Timor Island is a valuable source of geraniol for local industries.	1. Annual and Perennial Plant Cultivation Technology 2. Agricultural Product Processing Technology 3. Spice and Essential Oil Technology
23	Artisanal and small-scale mining and rural livelihood diversification: The case of manganese extraction in West Timor, Indonesia (doi.org/10.1016/j.exis.2018.08.004)	2019	Rohan Fisher, Hannah Ling, Remi Natonis, Sarah Hobgen, Norman R Kaho, IW Mudita, Jenny Markus, Wida Bunga, and IW Nampa	Natural Resource Management	Small-scale manganese mining in West Timor supports livelihood diversificationb ut impacts the environment.	1. Horticultural and Landscape Plant Cultivation 2. Agricultural Extension and Communication 3. Application of Dryland Farming Technology 4. Food Security and Sovereignty
24	Agronomic performance and drought tolerance level of sweet potato hybrids grown in Kupang, East Nusa Tenggara, Indonesia (doi.org/10.13057/biodiv/d200812)	2019	Yosep S Mau, Antonius SS Ndiwa, Jenny ER Markus, and IGBA Arsa	Sustainable Agriculture	The agronomic performance and drought tolerance of sweet potato hybrids in Kupang	1. Genetics and Plant Breeding 2. Sustainable Management of Dryland Agriculture

No	Article Title	Year	Researcher	Focus of Research	Relevance to Local Issues	Integrated with the Course
25	Yield and yield component performances of local pigmented upland rice cultivars from East Nusa Tenggara, Indonesia in three locations (doi.org/10.13057/tropdrylands/t030203)	2019	Antonius SS Ndiwa and Yosep S Mau	Local germplasm	Preserving and improving yields of local pigmented upland rice across different agroecosystems in NTT	1. Genetics and Plant Breeding 2. Fundamentals of Agronomy 3. Plant Physiology 4. Archipelagic Dryland Biodiversity 5. Sustainable Dryland Agriculture Management Technology
26	The Effect of biochar and organic fertilizer application on soil chemical properties and soybean yield in dryland of West Timor, Indonesia (https://iopscience.iop.org/article/10.1088/1755-1315/1482/1/012048/pdf)	2025	Peters O Bako, Lily F Ishaq, Moresi M Airtur, Diana YL Serangmo, INP Soetedjo, Elias Nguru, Max J Kapa and R Kase	Organic fertilization	Utilizing biochar and organic fertilizers to improve soil fertility and soybean yield in West Timor's drylands	1. Fundamental of Soil Science 2. Soil Fertility and Fertilization Technology 3. Soil and Water Conservation 4. Soil Chemistry 5. Soil Physics
27	The potential of phosphate solubilizing microorganisms (PSM) isolated from different ecosystems on calcareous soils in Timor Island, Indonesia. (doi.org/10.15243/jdmlm.2025.123.7803)	2025	ASJ Adu Tae, MSM Nur, YI Benggu , Lily F. Ishaq, IN Priyo Soetedjo, Sri Widinugraheni and M Kasim	Phosphate-solubilizing microorganisms	The use of microorganisms for rehabilitation and improvement of soil fertility on calcareous dry land.	1. Soil biology 2. Application of Dryland Farming Technology 3. Fundamental of Soil Science 4. Soil Fertility and Fertilization Technology
28	Detection of *Spodoptera frugiperda* (J.E. Smith) (Lepidoptera: Noctuidae) in maize field in East Flores District, East Nusa Tenggara Province, Indonesia (doi.org/10.13057/tropdrylands/t050104)	2021	Lince Mukkun, Yasinta Kleden, and Agnes V Simamora	Crop protection	Early detection of fall armyworm is crucial to protect maize production in East Flores.	1. Plant Pest and Disease 2. Entomology
29	Isolation and characterization of indigenous phosphate solubilizing bacteria from calcareous soil of dry land ecosystems in Timor Tengah Selatan, East Nusa Tenggara, Indonesia. (doi.org/10.13057/tropdrylands/t070202)	2023	MSM Nur, Yoke I Benggu, ASJ Adu Tae, Lily F Ishaq, and IN Priyo Soetedjo.	Phosphate-solubilizing microorganisms	Identification of microorganisms used for the rehabilitation and improvement of soil fertility on calcareous dry land.	1. Soil biology 2. Application of Dryland Farming Technology.

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30	The Potential of Arbuscular Mycorrhizal Fungi as Biofertilizer to Reduce Chemical Fertilizer Use in Calcareous Soil (https://iopscience.iop.org/article/10.1088/1755-1315/1482/1/012015/pdf)	2025	Lily F Ishaq, FC Amalia, Yoke I Benggu, ASJ Adu Tae, and MM Airthur	Mycorrhizal biofertilizer	Utilizing Arbuscular Mycorrhizal Fungi as biofertilizers to reduce chemical fertilizer use in calcareous soils	1. Fundamental of Soil Science 2. Soil Fertility and Fertilization Technology 3. Soil Biology 4. Soil Chemistry
31	Use of Shallot Peel Waste and Cassava Active Powder (AHL) in Improving Available Phosphorus and Potassium on Vertisol and Yield of Tomato (*Lycopersicum esculentum* Mill) (https://iopscience.iop.org/article/10.1088/1755-1315/1482/1/012012/pdf)	2025	IN Priyo Soetedjo, R Pollo, CD B Jurut and Sherly Oematan	Local organic fertilizers	Utilizing shallot peel waste and cassava active powder to improve phosphorus and potassium availability in Vertisol and tomato yield	1. Soil Fertility and Fertilization Technology 2. Soil Chemistry 3. Horticultural and Lanscape Plant Cultivation 4. Plant Growth and Development.
32	In vitro screening of fungal endophytes from sandalwood (*Santalum album*) as antagonists to phytopathogens. (doi:10.13057/biodiv/d250142)	2024	Agnes V Simamora, Mayavira V Hahuly, Petronella S Nenotek, YR Kana, M Kasim, Roddialek Pollo, Antonius RB Ola, and F Pramatana	*Biology control*	Sustainable Disease Management	1. Biology control 2. Archipelagic Dryland Biodiversity
33	The application of local plants as environmentally friendly dyes on Timorese 'Ikat' Weaving (https://iopscience.iop.org/article/10.1088/1755-1315/1417/1/012026/pdf)	2024	Lince Mukkun, Herianus JD Lalel, Agnes V Simamora, and Maria Bano	Local wisdom	Utilizing local plants as eco-friendly dyes for Timorese Ikat weaving to preserve culture	1. Archipelagic Dryland Biodiversity 2. Agricultural Product Processing TEchnology 3. Plant Biochemistry
34	Insect pests incidence of peanut (*Arachis hypogaea* L.) in the dryland of Kupang District, East Nusa Tenggara, Indonesia (doi: 10.1088/1755-1315/1346/1/012029)	2024	Agnes V Simamora, JD Nope, PS Nenotek, Mayavira V Hahuly, INW Mahayasa and M. Kasim	Plant Pests	Insect pests significantly reduce peanut yields in Kupang's dryland areas.	1. Fundamental of Crop Protection 2. Plant Pest and Disease 3. Major Pests and Diseases of Key Dryland Crops

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35	Abundance of arbuscular mycorrhizal fungi in the rhizosphere of healthy and declining citrus in East Nusa Tenggara, Indonesia (doi:10.35495/ajab.2023.01)	2023	A Muis, MJ. Ryley,Y Pei Tan, R Suharjo, N Nonci, Y Danaatmadja, I Hidayat, AWidiastuti, Sri Widinugraheni , RG Shivas and M Thines	Soil Microbiology	Utilizing AMF to sustainably improve citrus productivity in NTT's dry, infertile soils.	1. Soil biology 2. Biological Control 3. Soil Fertility and Fertilization 4. Plant Pest and Disease
36	*Peronosclerospora neglecta* sp. nov.—a widespread and overlooked threat to corn (maize) production in the tropics. (doi.org/10.1007/s11557-022-01862-5)	2023	MSM Nur, YI Benggu, ASJ. Adu Tae, Lily F. Ishaq and INP Soetedjo.	Phytopatlogy	Emerging pathogen threatening maize yield and food security in Eastern Indonesia's tropical regions.	1. Soil Biology 2. Plant Pest and Disease
37	Structure and composition of tree and shrubspecies and their invasiveness in conservation areas of West Timor, Indonesia (doi:10.13057/asianjfor/r070208)	2023	Fadlan Pramatana, Y Aini, Nikson Rammang, Yosep S Mau, IGBA Arsa and A Mahmud	Biodiversity	invasive woody species threaten biodiversity and ecosystem stability in West Timor conservation areas.	1. Archipelagic Dryland Biodiversity 2. Weed Control Technology
38	Effect of single and mixed inoculation of arbuscular mycorrhizal fungi and phosphorus fertilizer application on corn growth in calcareous soi (doi.org/10.13057/biodiv/d220439)	2021	Lince Mukkun, Y Kleden and Agnes V Simamora	Soil Fertility and Plant Nutrition	Mycorrhiza and phosphorus improve corn growth on nutrient-poor calcareous soils in NTT.	1. Soil Biology 2. Soil Fertility and Fertilization Technology
39	Drought tolerance indices for selection of drought tolerant, high yielding upland rice genotypes (doi.org/10.21475/AJCS.19.13.01.P1778)	2019	INP Soetedjo	Breeding for Climate Resilience	Selection of drought-tolerant, high-yielding upland rice genotypes using drought tolerance indices."	1. Genetics and Plant Breeding 2. Sustainable Management of Dryland Agriculture

No	Article Title	Year	Researcher	Focus of Research	Relevance to Local Issues	Integrated with the Course
40	Improving The Carrying Capacity of Vertisol and Alfisol on Dryland Ecosystem by Applying Active Powder of Cassava (https://iopscience.iop.org/article/10.1088/1755-1315/394/1/012033/pdf)	2019	MSM Nur, IG BA Arsa, and Y Malaipada	Land resource management	Improving the carrying capacity of Vertisol and Alfisol in dryland ecosystems	1. Soil Fertility and Fertilization Technology 2. Soil Chemistry 3. Horticultural and Lanscape Plant Cultivation 4. Plant Growth and Development.
41	The effect of cattle manure and mineral fertilizers on soil chemical properties and tuber yield of purple-fleshed sweet potato in the dryland region of East Nusa Tenggara, Indonesia (doi: 10.13057/tropdrylands/t030204)	2019	INP Soetedjo	Soil fertility	Fertilizer optimization to boost sweet potato productivity in NTT drylands	1. Soil Fertility and Fertilization Technology 2. Soil Chemistry 3. Horticultural and Lanscape Plant Cultivation 4. Plant Growth and Development.
42	Various dosages of active powder of cassava improved sustainability of physical and chemical characteristics of Vertisol and Alfisol on dryland farming system (doi.org/10.13057/tropdrylands/t030105)	2019	INP Soetedjo , Elias Nguru, and Yoke Benggu	Soil sustainability	Local-based strategies to enhance dryland soil fertility in East Nusa Tenggara	1. Soil Fertility and Fertilization Technology 2. Soil Chemistry 3. Horticultural and Lanscape Plant Cultivation 4. Plant Growth and Development.
43	Determination of Environmental Carrying Capabilities in Space of The Pana Village Area, Kolbano District, Timor Tengah Selatan District (TTS), Nusa Tenggara Timur Province (NTT) (file:///Users/yulianatyandirubak/Downloads/20265-167152-1-PB.pdf)	2024	GC Boimau, INP Soetedjo, and YK Syamruth	Sustainable agriculture	Environmental capacity affects sustainability of village agricultural land.	Fundamental of Soil Science
44	Dual Inoculation of Rhizobium and Arbuscular Mycorrhizal Fungi Increases Soil-Total Nitrogen, Available Phosphorus, and Yield of Soybean in Vertisols (https://jppipa.unram.ac.id/index.php/jppipa/article/view/3162)	2023	Lily F Ishaq, Ingracia JA Manehat, Anthonius SJ. Adu Tae, and Yoke I Benggu	Soil fertility	Utilization of fungal and bacterial inoculation technology to improve soil fertility and soybean yield in East Nusa Tenggara vertisols	Soil Fertility and Fertilization Technology

No	Article Title	Year	Researcher	Focus of Research	Relevance to Local Issues	Integrated with the Course
45	Application of Indigenous Arbuscular Mycorrhizal Fungi and Inorganic Phosphorus Fertilizer in Efforts to Increase Phosphorus Absorption and Corn Yields on Calcareous Lands on Timor Island (https://jurnal.unpad.ac.id/agrikultura/article/view/35881)	2022	Yosni Kiuk, Peters O. Bako, and Lily F Ishaq	Fertilization and mycorrhiza	Increasing corn yield on calcareous soils through environmentally friendly fertilization.	1. Soil biology; 2. Soil Fertility and Fertilization Technology; 3. Sustainable Management of Dryland Agriculture
46	Study of Carrier Material Types And Storage Duration on The Infectivity And Effectiveness of Arbuscular Mycorrhzal Fungi Inoculants (https://jurnal.fp.unila.ac.id/index.php/JA/article/view/4680)	2021	Lily F Ishaq, DR Lukiwati, Yoke I Benggu, and Peters O Bako	Soil mycorrhiza	Using mycorrhiza to enhance agricultural sustainability and soil health.	1. Soil Fertility and Fertilization Technology 2. Soil Chemistry; 3. Horticultural and Lanscape Plant Cultivation 4. Plant Growth and Development.
47	Study of Land Cover Upstream and Downstream of Liliba River Basin Area on Water Quantity (doi:10.14710/jil.19.3.630-637)	2021	INP Soetedjo, P. De Rozari, and Novida Leo	Soil and water conservation	*Impact of land cover changes on water availability in river basins.*	1. Plant Pest and Disease 2. Major Pests and Diseases of Key Dryland Crops 3. Biological Control 4. Archipelagic Dryland Biodiversity
48	Analysis of Sustainable Water Resources Management Based on The Potential Water Availability in The Semi-Arid Area of Kupang, Indonesia (doi:10.25105/urbanenvirotech.v4i1.8003)	2020	Marlin A Koan, Jakobis Johanis Messakh, and INP Soetedjo	Water resource management	Sustainable water management for resource resilience in semi-arid areas	1. Archipelagic Dryland Biodiversity 2. Agricultural Product Processing TEchnology 3. Plant Biochemistry
49	Impact Insecticides of Residues on the Diversity of Soil Fungi on Mustard GreensLand	2020	Martha M M Benu, Anthonius SJ Adu Tae and Lince Mukkun	Soil microorganism diversity	Impact of pesticide residues on soil microorganisms diversity and health	1. Archipelagic Dryland Biodiversity 2. Pesticides and Application Techniques
50	Use of active powder of cassava, on various time applications, to improve carrying capacity of vertisol and alfisol on dry land farming system	2019	Antonius SS Ndiwa and Yosep S Mau	Dryland agriculture	Optimizing dryland farming in East Nusa Tenggara using cassava active powder at different	1. Soil Fertility and Fertilization Technology 2. Soil Chemistry 3. Horticultural and Lanscape Plant Cultivation

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	(https://ijicc.net/images/Vol_5_Iss_3/18_Soetedjo_P327_2019R.pdf)				application times	4. Plant Growth and Development.
51	Inventory of Pests on Local Potato Plants from Soe in South Central East District, Province of East Nusa Tenggara (doi.org/10.29303/JPPIPA.V8ISPECIALISSUE.2485)	2022	Petronella S. Nenotek, Agnes V Simamora, Mayavira V. Hahuly and Elias O St. Nguru	Plant Pests	Pest Threats to Local Potato Production in Soe, East Nusa Tenggara: Implications for Food Security and Farmers' Economy	1. Plant Pest and Disease. 2. Major Pests and Diseases of Key Dryland Crops
52	In vitro screening of *Trichoderma harzianum* as bioremediator of mancozeb fungicide (https://iopscience.iop.org/article/10.1088/1755-1315/1482/1/012024/pdf)	2025	Agnes V Simamora, Petronella S Nenotek, Mayavira V Hahuly, INW Mahayasa, Muh Kasim, Sri Widinugraheni and MJR Kune	Bioremediator	Bioremediation potential of indigenous microbes	1. Sustainable Management of Dryland Agriculture 2. Soil Bioremediation Technology 3. Archipelagic Dryland Biodiversity
53	Identification of Fruit Fly Species (Diptera:Tephritidae) on Horticultural Plants in Kupang City, East Nusa Tenggara (https://iopscience.iop.org/article/10.1088/1755-1315/1482/1/012026/pdf)	2025	Agustina E Nahas, Titik S Harini, Rika Ludji, Jesayas A Londingkene, Diama YL Serangmo, Muhammad Kasim, MWK Kata and O Agut	Pest management	Identifying fruit fly species for pest control on horticultural plants in Kupang City, NTT	1. Plant Pest and Disease 2. Entomology
54	Damage Intensity and Geographic Distribution of *Oryctes rhinoceros* on Coconut in Rote-Ndao, East Nusa Tenggara Province, Indonesia (https://iopscience.iop.org/article/10.1088/1755-1315/1346/1/012015/meta)	2024	Petronella S Nenotek, Agnes V Simamora, Mayavira V Hahuly, Agustina E Nahas, Rika Ludji, Julinda BD Henuk, IW Mudita, Fadlan Pratama, Mario RB Kune	Plant protection	*Oryctes rhinoceros* threatens coconut production in Rote-Ndao, impacting local agricultural livelihoods	1. Plant Pest and Disease. 2. Major Pests and Diseases of Key Dryland Crops 3. Entomology

No	Article Title	Year	Researcher	Focus of Research	Relevance to Local Issues	Integrated with the Course
55	Report of diplodia stem rot disease in SoE-Mollo Citrus in Timor Tengah Selatan Regency, East Nusa Tenggara (https://iopscience.iop.org/article/10.1088/1755-1315/1302/1/012015/pdf)	2024	Mayavira V Hahuly, Agnes V Simamora, Julinda BD Henuk and Petronella S Nenotek	Plant protection	Threat of Diplodia disease to the sustainability of SoE-Mollo orange production in TTS, East Nusa Tenggara (NTT)	1. Plant Pest and Disease; 2. Pest and Disease Identification Technology 3. Major Pests and Diseases of Key Dryland Crops
56	Yield performance and anthocyanin content of several purple-fleshed sweet potato clones grown in two locations in East Nusa Tenggara, Indonesia (doi.org/10.13057/biodiv/d250546)	2024	IGB Adwita Arsa, Yosep S Mau, Antonius SS Ndiwa, YRYGandut, Lily F Ishaq, and INW Mahayasa	Crop resilience	Production of new superior sweet potato varieties employing local clones/varieties	1. Genetics and Plant Breeding 2. Fundamentals of Agronomy 3. Plant Physiology 4. Archipelagic Dryland Biodiversity 5. Sustainable Dryland Agriculture Management Technology.
57	First report of Fusarium solani causing pink root disease on garlic (*Allium sativum* L.) in Lombok, Indonesia (https://iopscience.iop.org/article/10.1088/1755-1315/1377/1/012109/pdf)	2024	BN Hidayah, Agnes V Simamora, A Triwiratno, Wiratno, Nurmansyah, H Idris, Warda, I Nasrifah, MT Hamsyah, M Rani, Nurhaedah, A Suriadi, L Hadiawati, Fitrahtunnisa, Mardiana, and A Pramudia	Local food security	Improving yield and anthocyanin content of purple-fleshed sweet potatoes for food security in NTT	1. Plant Pest and Disease 2. Pest and Disease Identification Technology.
58	Exploring the antagonist potential of indigenous *Trichoderma* spp., *Bacillus*, and *Pseudomonas* against *Phytophthora palmivora* of Soe mandarin in East Nusa Tenggara, Indonesia (https://iopscience.iop.org/article/10.1088/1755-1315/1302/1/012017/pdf)	2024	Agnes V Simamora, Mayavira V Hahuly, Yenny R Kana, Yoke I Benggu, IW Mudita, M Kasim, Evert Y Hosang, Jesayas A Londingkene	Biological control	Sustainable Disease Management	1. Plant Pest and Disease; 2. Major Pests and Diseases of Key Dryland Crops 3. Biological Control 4. Archipelagic Dryland Biodiversity 5. Soil Biology

No	Article Title	Year	Researcher	Focus of Research	Relevance to Local Issues	Integrated with the Course
			and INW Mahayasa			
59	Effect of natural attractant essential oil from *Ocimum gratisimum* from Timor Island against fruit flies (doi:10.1088/1755-1315/1302/1/012041)	2024	Petronella S. Nenotek, AR B, Olla, AE Nahas and E Sabuna	Botanical Pesticide	Potential and Challenges of Developing Botanical Pesticides for Sustainable Dryland Agriculture in Kupang	1. Pesticides and Application Techniques; 2. Integrated Pest Management Technology.
60	Population Number of *Sitophilus oryzae* L. Imago and Damage Intensity on Grains of Several Rice Varieties (doi:10.29303/jppipa.v9i8.2956)	2023	Veronika Munde, Titik S Harini, Petronella S. Nenotek, Zainal Abidin, Yosep S Mau	Resistance responses of various rice varieties to grian storage pest pests	Identification of rice varieties with good resistance to storage grain pest, *Sitophilus oryzae*	1. Pland Pest and Diseases 2. Post Harvest Pest and Diseases 3. Entomology
61	The migratory locust (*Locusta migratoria*) as a potential source of protein and biopolymer compounds in the future (doi:10.13057/biodiv/d241117)	2023	Yasinta Kleden, Lince Mukkun, and Melycorianda H Ndapamuri	Crop protection	Sustainable Pest Management through Locust Biomass Utilization	1. Pland Pest and Diseases 2. Integrated Pest Management Technology 3. Major Pests and Diseases of Key Dryland Crops
62	Resistance Level of Several Purple Fleshed Sweet Potato Hybrids to Scab Disease (*Sphaceloma batatas* Saw.) (https://scholar.google.com/scholar?cluster=17843948709694378257&hl=en&oi=scholarr)	2023	Yosep S Mau, Anggerita Funan, IGBA Arsa, Antonius SS Ndiwa	Resistance responses of several purple fleshed sweet potato clones to scab disease	Identification of several purple fleshed sweet potato clones to scab disease, *Sphaceloma batatas*	1. Genetics and Plant Breeding 2. Plant Pest sand Diseases 3. Plant Disease Epidemiology
63	The toxicity of *Annona squamosa* seeds and *Anacardium occidentale* seed shells from East Nusa Tenggara, Indonesia, against cabbage caterpillar (*Crocidolomia pavonana*) (doi.org/10.13057/tropdrylands/t060105)	2022	Petronella S. Nenotek, Jesayas A. Londingkene, Rika Ludji, Titik S. Harini, Max J Kapa, Elias s. O Nguru, Effy Roefaida, and Meliana Konanin	Botanical Pesticide	Potential and Challenges of Developing Botanical Pesticides for Sustainable Dryland Agriculture in Kupang	1. Pesticides and Application Techniques 2. Plant Pest and Disease

No	Article Title	Year	Researcher	Focus of Research	Relevance to Local Issues	Integrated with the Course
64	Expression of SIX1b and SIX1c effector genes and banana resistance genes during Foc TR4 infection on banana cultivars (doi.org/10.13057/biodiv/d231041)	2022	Azizah R Ulilalbab, Sri Widinugraheni, Masanto, Siti Subandiyah, and Arif Wibowo	Biotechnology	Molecular Interaction Between Pathogen and Host	1. Plant Pest and Disease 2. Agricultural Biotechnology
65	Impacts of banana blood disease outbreak to the farmers' households food security in Sumba Island, East Nusa Tenggara Province, Indonesia (https://iopscience.iop.org/article/10.1088/1755-1315/1107/1/012089/pdf)	2022	IW Nampa, IW Mudita, Sri Widinugraheni, Remi L Natonis and Made T Surayasa	Pyhtopatology	Disease Spread and Biosecurity Risks	1. Plant Pest and Disease 2. Plant Disease Epidemiology 3. Introduction to Agricultural Economics
66	Physicochemical and organoleptic properties of gebang (*Corypha utan*) starch-based analogous rice with dolichos bean (*Lablab purpureus*) flour supplementation (doi:10.13057/tropdrylands/t060201)	2022	Herianus JD Lalel, INW. Mahayasa, Lince Mukkun, Zainal Abidin, and Anita RB. Ata	Food local	Balancing Traditional Practices and Food Safety	1. Introduction to Food Technology 2. Post-Harvest Technology 3. Agricultural Product Processing Technology.
67	Efficacy of indigenous Trichoderma isolates of West Timor, Indonesia, as biocontrol agents of brown spot (*Drechslera oryzae*) on two upland rice varieties (doi:10.1186/s41938-022-00559-x)	2022	Yosep S Mau, Rikardus S Prayetno, Habil Kaka, Kiki D Naat, Julinda BD Henuk, Mayavira V Hahuly, Sri Widinugraheni ,and Yosefina RYGandut	Biological control	Sustainable Disease Management	1. Genetics and Plant Breeding 2. Plant Pest sand Diseases 3. Plant Disease Epidemiology 4. Biological Control
68	The Herbaceous Species Tropical Savanna of West Timor Indonesia: Structure and Composition Pattern (doi.org/10.9734/AJEE/2022/V18I330319)	2022	Mangadas L Gaol and IW Mudita	Biodiversity	The herbaceous species in West Timor's tropical savanna play a crucial role in ecosystem structure and composition.	1. Plant Ecology 2. General Botany
69	Endophytic fungi as potential biocontrol agents of *Phytophthora palmivora* in the cocoa plant	2021	Agnes V Simamora, Mayavira Hahuly, and	Biological control	Sustainable Disease Management	1. Biological control 2. Plant Pest and Disease

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	(doi.org/10.13057/biodiv/d220519)		Julinda BD Henuk			
70	Variations of grain physical properties, amylose and anthocyanin of upland red rice cultivars from East Nusa Tenggara, Indonesia (doi:10.13057/BIODIV/D220335)	2021	Jenny ER Markus, Antonius SS Ndiwa, Shirly S Oematan, and Yosep S Mau	Local Food Diversity	Variations in upland red rice from NTT enhance local food diversity and nutritional resilience.	1. Archipelagic Dryland Biodiversity 2. Plant Biochemistry 3. Genetics and Plant Breeding 4. Seed Technology
71	A screening of resistance to sweet potato weevil (*Cylas formicarius* Fab.) in a collection of sweet potato clones under laboratory conditions (doi.org/10.13057/tropdrylands/t050201)	2021	Yosep S Mau, Margerita N Wadu, Antonius SS Ndiwa, Jenny ER Markus, and IGBA Arsa	Plant Pest Control	Screening sweet potato resistance to Cylas formicarius to enhance local food production in NTT.	1. Genetics and Plant Breeding 2. Pllant Pest and Disease 3. Entomology
72	Reviews: Komodo National Park as a conservation area for the komodo species (*Varanus komodoensis*) and sustainable tourism (ecotourism) (doi.org/10.13057/tropdrylands/t050105)	2021	Akmalia IF Hidyarko, Aldia C Gayatri, Vira A Rifa, Ayu Astuti, Lia Kusumaningrum, Yosep S Mau, Heru Rudiharto, and Ahmad D Setyawan	Biodiversity Conservation	Komodo National Park as a conservation area and sustainable ecotourism development in NTT.	1. Archipelagic Drylands Culture and Tourism 2. Entrepreneurship
73	Geographic Expansion of Banana Blood Disease in Southeast Asia (doi: 10.1094/PDIS-01-21-0149-RE)	2021	Jane D Ray, Siti Subandiyah, Vivian A. Rincon-Florez, Ady B Prakoso, IW Mudita, Lilia C Carvalhais, JER Markus, Cecilia A O'Dwyer, and André Drenth	Plant Diseases and Their Control	he spread of banana blood disease threatens local banana production and food security in NTT.	1. Plant Pest and Disease 2. Plant Disease Epidemiology 3. Food Security and Sovereignty
74	Water balance analysis of Talau-Loes Watershed, a cross border watershed of Indonesia and East Timor (doi:10.13057/tropdrylands/t040104)	2020	M Riwu Kaho, WII. Mella, Yosep S Mau, NPLB Riwu Kaho, and MSM. Nur	Riverbank erosion	Solution of riverbank erosion issues in transboundary watersheds	1. Soil and water conservation 2. Watershed management

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75	Brown spot disease severity, yield and yield loss relationships in pigmented upland rice cultivars from East Nusa Tenggara, Indonesia (doi.org/10.13057/biodiv/d210443)	2020	Yosep S Mau, Antonius SS Ndiwa, and Shirly S Oematan	Plant Diseases and Their Control	Brown spot disease in upland rice in NTT threatens yields and local food security.	1. Plant Pest and Disease 2. Plant Disease Epidemiology
76	Inventory and identification of banana cultivar and diseases caused by bacterial and fungal pathogens in West Timor, East Nusa Tenggara Province, Indonesia (doi:10.13057/tropdrylands/t040103)	2020	Julinda BD, Don H Kadja, and Yosep S Mau	Plant Diseases and Their Control	Inventory and identification of banana cultivars and bacterial/fungal diseases in West Timor are crucial for food security.	1. Archipelagic Dryland Biodiversity 2. General Botany 3. Plant Pest and Disease 4. Plant Bacteriology and Virology 5. Mycology and Mycotoxins
77	The efficacy of seed extract of *Tephrosia vogelii* and *Annona squmosa* on larvae of *Helicoverpa armigera* (doi:10.13057/tropdrylands/t040102)	2020	Petronella S. Nenotek, Rika Ludji	Botanical Pesticide	Potential and Challenges of Developing Botanical Pesticides for Sustainable Dryland Agriculture in Kupang	1. Pesticides and Application Techniques 2. Plant Pest and Disease 3. Entomology.
78	Optimizing cooking duration for enhanced physicochemical properties of liquid sugar derived from gewang (*Corypha utan* Lamk) Sap (https://iopscience.iop.org/article/10.1088/1755-1315/1482/1/012046/pdf)	2025	Lince Mukkun, Herinaus JD Lalel, P Senjaya and N LPR Cakswindryandani	Local resource utilization: Gewang	The need to improve processing techniques to enhance product quality, shelf life, and marketability.	1. Introduction to Food Technology 2. Post-Harvest Technology 3. Agricultural Product Processing Technology
79	Effectiveness of *Annona muricata* and *Schleicera oleosa* Seed Extracts on Mortality of *Callosobruchus maculatus* Fabrichus Imago (https://jurnal.fp.unila.ac.id/index.php/JA/article/view/7607)	2024	FP Bria, PS Nenotek, Yasintha L Kleden, IW Mudita, YRY Gandut, Rika Ludji, and AE. Nahas	Crop Protection	Natural and eco-friendly pest control for mung bean crops."	1. Pesticides and Application Techniques 2. Integrated Pest Management Technology

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80	Insect Pests on Banana Plants (*Musa paradisiaca* L) in Borong District, East Manggarai (doi.org/10.33323/indigenous.v7i3.595)	2024	IW Mudita, Agustino A. Purnapari, Rika Ludji, Agustina E Nahas, and Titik S Harini	Crop Protection	Banana pests threaten local farmers' food security and livelihoods.	1. Sustainable Management of Dryland Agriculture; 2. Soil Bioremediation Technology; 3. Archipelagic Dryland Biodiversity.
81	Identification of Fruit Fly Species on Timor Island, East Nusa Tenggara Province (doi.org/10.47687/jt.v14i1.405)	2023	Don H Kadja, Johanes UR Iburuni, and Yasinta L Kleden	Crop Protection	Fruit fly infestations threaten the yield of local horticultural farmers.	1. Plant Pest and Disease 2. Integrated Pest Management Technology; 3. Major Pests and Diseases of Key Dryland Crops. 4. Entomology
82	Pathogenicity of Botryodiplodia theobromae on Sandalwood Stems and its Inhibition in Vitro by Trichoderma spp (doi.org/10.14692/jfi.19.6.238-245)	2023	Sane Wolagole, Agnes V Simamora, and Mayavira Hahuly	Crop Protection	Fungal diseases threaten sandalwood production and sustainability.	1. Plant Pest and Disease; 2. Major Pests and Diseases of Key Dryland Crops; 3. Integrated Pest Management Technology 4. Mycology and Mycotoxin
83	Population Number of *Sitophilus oryzae* L. Imago and Damage Intensity on Grains of Several Rice Varieties (doi:10.29303/jppipa.v9i8.2956)	2023	Veronika Munde, Titik S Harini, Petronella S. Nenotek, Zainal Abidin, and Yosep S Mau	Crop Protection	The Sitophilus oryzae infestation impacts local rice yield and quality.	. Plant Pest and Disease 2. Major Pests and Diseases of Key Dryland Crops 3. Integrated Pest Management Technology
84	Inventory of Pests on Local Potato Plants from Soe in South Central East District, Province of East Nusa Tenggara (doi:10.29303/jppipa.v8iSpecialIssue.2485)	2022	Petronella S. Nenotek, Agnes V Simamora, Mayavira V Hahuly, and Elias O St. Nguru	Crop Protection	Monitoring potato pests for sustainable agriculture and local food security.	1. Plant Pest and Disease; 2. Major Pests and Diseases of Key Dryland Crops; 3. Entomology 4. Integrated Pest Management Technology 5. Pest and Disease Identification Technology

No	Article Title	Year	Researcher	Focus of Research	Relevance to Local Issues	Integrated with the Course
85	Expression of SIX1b and SIX1c effector genes and banana resistance genes during Foc TR4 infection on banana cultivars (doi.org/10.13057/biodiv/d231041)	2022	Azizah R Ulilalbab, Sri Widinugraheni, Masanto, Siti Subandiyah, and Arif Wibowo	Banana disease resistance	Controlling Fusarium TR4 disease for sustainable local banana resistance.	1. Plant Pest and Disease 2. Major Pests and Diseases of Key Dryland Crops 3. Biological Control; 4. Archipelagic Dryland Biodiversity
86	Impact of Pesticide Residues on the Density and Diversity of Soil Fungi in Vegetable Fields (doi.org/10.29244/jitl.22.2.80-88)	2019	Martha MM Benu, Anthonius SJ Adu Tae and Lince Mukkun	Pesticide impact on soil	Impact of pesticide residues on soil ecosystems and sustainable agriculture.	1. Archipelagic Dryland Biodiversity 2. Agricultural Product Processing TEchnology 3. Plant Biochemistry
87	The KoBoCollect for Research Data Collection and Management (An experience in Researching the Socio-Economic Impact of Blood Disease in Banana) (doi:10.24843/SOCA.2020.v14.i03.p15)	2020	I Wayan Nampa, I Wayan Mudita, Norman PLB R Kaho, and Sri Widinugraheni	Plant Resilience to Climate	Impact of soil moisture on the yield and quality of local aromatic rice from Sumba.	1. Genetics and Plant Breeding 2. Bacterilogy and viriology
88	Gebang (*Corypha utan* Lamk) Tree as A Food Resource for Timorese People (doi:10.36349/easjnfs.2024.v06i01.001)	2024	Herianus JD Lalel and Yuliana T Rubak	Biodiversity: Gebang	*Corypha utan* provides a vital food resource for the Timorese population.	1. Archipelagic Dryland Biodiversity 2. Agricultural Product Processing Technology 3. Post Harvest Technology.
89	Study on physicochemical and organoleptic properties of gebang starch-based artificial rice with mung bean flour supplementation (https://easpublisher.com/media/features_articles/EASJNFS_61_25-28.pdf)		Herianus JD Lalel, Agnes V Simamora, Yosefina RY Gandut, Effy Roefaida, Maximilian J Kapa, and Noni F Pitay	Food Microbiologi	Exploring tradition, food security, and cultural identity through traditional food	1. Nutraceuticals and Functional Foods 2. Sensory Analysis 3. Post Harvest technology 4. Food Security and Sovereignty

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90	The Preliminary Study of Antimicrobial Activity of *Borassus flabelifer* L. Mesocarp Extract (doi:10.9734/jpri/2022/v34i557246)	2022	Putu G Maya Widyaswari Mahayasih, and I NWMahayasa	Microbiology: Borassus flabelifer L.	The mesocarp extract of Borassus flabelifer L. has potential as a natural remedy for infections in NTT.	1. Introduction to Food Technology 2. Post-Harvest Technology 3. Agricultural Product Processing Technology 4. Food Microbiology.
91	Angiotensin-I-Converting Enzyme Inhibitory Peptides in Goat Milk Fermented by Lactic Acid Bacteria Isolated from Fermented Food and Breast Milk (doi.org/10.5851/kosfa.2021.e55)	2022	Yuliana T Rubak, Lilis Nuraida, Dyah Iswantini and Endang Prangdimurti	Food Biotechnology	Angiotensin-I-Converting Enzyme Inhibitory Peptides in Goat Milk Fermented by Lactic Acid Bacteria Isolated from Fermented Food and Breast Milk offers potential for natural hypertension management.	5. Introduction to Food Technology 6. Post-Harvest Technology 7. Agricultural Product Processing Technology 8. Fermentation Technology.
92	Effect of sanitizers and *Lactobacillus rhamnosus* R23 on the growth of *Salmonella* spp. in raw chicken fillets during temperature abuse storage (doi.org/10.26656/fr.2017.5(5).029)	2021	Ryan PI Nalle, Nuraida L, Mahakarnchanakul W and Dewanti Hariyadi R.	Food Microbiology	Probiotics and sanitizers help prevent Salmonella in chicken during temperature abuse in NTT.	1. Introduction to Food Technology 2. Post-Harvest Technology 3. Agricultural Product Processing Technology 4. Food Microbiology
93	Effects of Betamelor (Black Rice, Red Beans and Moringa Leaves) Consumption on Hypercholesterolemic Rats (doi.org/10.36349/EASJNFS.2021.V03I03.001)	2021	Lina Yunita, Herianus JD Lalel, Stefanus P Manongga, Frans U Datta, and Christina O Lada	Local Food Safety and Health	Betamelor consumption helps manage high cholesterol using local foods in NTT.	1. Introduction to Food Technology 2. Post-Harvest Technology 3. Agricultural Product Processing Technology 4. Nutraceuticals and Functional Foods Post Harvest Technology

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94	Angiotensin-I-converting enzyme inhibitory peptides in milk fermented by indigenous lactic acid bacteria (doi:10.14202/vetworld.2020.345-353)	2020	Yuliana T Rubak, Lilis Nuraida, Dyah Iswantini and Endang Prangdimurti	Food Biotechnology	Fermentation of milk with indigenous lactic acid bacteria produces ACE-inhibitory peptides, supporting heart health in NTT.	1. Food Microbiology 2. Fermentation Technology 3. Nutraceuticals and Functional Foods 4. Sensory Analysis
95	Antimicrobial Metabolite From The Endophytic Fungi *Aspergillus Flavus* Isolated From *Sonneratia Alba*, A Mangrove Plant of Timor-Indonesia (doi:10.31788/RJC.2020.1315585)	2020	ARB Ola, Christina AP Soa, Yoseph Sugi, Theo Da Cunha, Henderiana L L Belli and Herianus JD Lalel	Food and Health Biotechnology	Antimicrobial metabolites from Aspergillus flavus isolated from Sonneratia alba in Timor can be used for local medicinal purposes.	1. Introduction to Food Technology 2. Microbiology 3. Agricultural Product Processing Technology. 4. Post Harvest technology
96	The Nutritional Status of Young Pregnant Women and the Health of Newborns Affects the Growth of Children 6-24 Months in Kupang (https://easpublisher.com/media/features_articles/EASJNM_26_338-343_FT.pdf)	2020	Yeri D Nenogasu, Stefanus P Manongga, Christina O Lada, Herianus JD Lalel, and Frans U Data	Nutrition	The nutritional status of young pregnant women and newborn health affects the growth of children in Kupang.	1. Food Microbiology 2. Fermentation Technology 3. Nutraceuticals and Functional Foods 4. Agricultural Extension and Communication 5. Food Security and Sovereignty.
97	The Effect of Parenting Patterns on Pre School Age Children Development in South Central Timor (doi:10.36349/EASJNM.2020.V02I06.007)	2020	Senny R. Taimenas, Stefanus P. Manongga, Frans U Datta, Herianus JD Lalel, and Christina O Lada	Nutrition	Parenting patterns affect the development of preschool children in South Central Timor.	1. Nutraceuticals and Functional Foods; 2. Agricultural Extension and Communication 3. Food Security and Sovereignty
98	Determinants of Growth of Preschool Children in Rural and Urban Areas North Central Timor District - East Nusa Tenggara Province - Indonesia (https://www.gssrr.org/index.php/JournalOfBasicAndApplied/article/view/11969/5823)	2020	Norbertus R. Ratrigisa, Stefanus P. Manongga, Frans U Datta, Herianus JD Lalel, and Anderias U Roga	Nutrition	Determinants of preschool children's growth in rural and urban areas of North Central Timor District, NTT.	1. Nutraceuticals and Functional Foods 2. Agricultural Extension and Communication 3. Food Security and Sovereignty

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99	Production Of Antihypertensive Bioactive Peptides In Fermented Food By Lactic Acid Bacteria – A Review (doi.org/10.34302/2019.11.4.3)	2019	Yuliana T Rubak, Lilis Nuraida, Dyah Iswantini, and Endang Prangdimurti	Food Biotechnology	The production of antihypertensive bioactive peptides by fermentation can support public health in NTT.	1. Introduction to Food Technology 2. Post-Harvest Technology 3. Agricultural Product Processing Technologi 4. Fermentation Technology
100	Effort to explore the potential use of palmyrah fruit for functional food (doi.org/10.1108/BFJ-10-2016-0507")	2017	Herianus JD. Lalel, INW Mahayasa, Zulianatul Hidayah, and Kartiwan Kartiwan	Local food : Palmyrah fruit	Exploration the potential palmyrah fruit for functional food	1. Nutraceuticals and Functional Foods 2. Post harvest technology 3. Food Security and Sovereignty.
101	Household food availability and income risk in Talau-Loes Watershed, Indonesia–Timor Leste state border (doi.org/10.1007/s12571-012-0228-6)	2023	Johanna Suek, Herianus DJ Lalel, Jenny E R Markus, IW Nampa	Local food security	Household Food Security in the Talau-Loes Watershed, Indonesia–Timor Leste Border Region	Food Security and Sovereignty
102	Peptide profiling of goat milk fermented by *Lactobacillus delbrueckii* ssp. *delbrueckii* BD7: identification of potential biological activity (doi.org/10.13057/biodiv/d220807)	2021	Yuliana T Rubak, Lilis Nuraida, Dyah Iswantini, Endang Prangdimurti, Maxs UE. Sanam	Local food security:Gewang	Kajian sebaran dan kondisi lingkungan pohon gewang (*Corypha utan Lamk.*) di Kabupaten Kupang	1. Food Microbiology 2. Fermentation Technology 3. Nutraceuticals and Functional Foods 4. Sensory Analysis 5. Food Security and Sovereignty
103	Physicochemical, microbiological, and sensory characteristics of “Sui Wu’u” traditional pork products from Bajawa, West Flores, Indonesia (doi.org/10.14202/vetworld.2023.1165-1175)	2023	Yuliana T Rubak, Herianus JD. Lalel, Maxs UE Sanam, Ryan PNalle	Food Microbiologi	Exploration biology activity LAB Indigenous: *Lactobacillus delbrueckii* ssp. *delbrueckii* BD7	1. Food Microbiology 2. Fermentation Technology 3. Nutraceuticals and Functional Foods 4. Sensory Analysis 5. Food Security and Sovereignty
104	Probiotic characteristics of lactic acid bacteria isolated from Sui Wu'u: a traditional food from Bajawa, West Flores, Indonesia (doi:10.12944/CRNFSJ.11.3.13)	2023	Yuliana T Rubak, Herianus JD Lalel, Maxs UE Sanam, Ryan P Nalle	Lokal Food and food microbiologi	Exploration Traditional Fermented food“Sui Wu’u” from Bajawa, West Flores, Indonesia	1. Food Microbiology 2. Fermentation Technology 3. Nutraceuticals and Functional Foods 4. Sensory Analysis

No	Article Title	Year	Researcher	Focus of Research	Relevance to Local Issues	Integrated with the Course
						5. Food Security and Sovereignty
105	Profile of Sui Wu'u, a fermented pork product stored in plastic containers and bamboo tubes (https://iopscience.iop.org/article/10.1088/1755-1315/1482/1/012043/pdf)	2023	Yuliana T Rubak, Herianus JD Lalel, Maxs U E Sanam, Maria EI Dawe	Lokal Food and food microbiologi	Exploration Traditional Fermented food"Sui Wu'u" from Bajawa, West Flores, Indonesia	1. Food Microbiology 2. Fermentation Technology 3. Nutraceuticals and Functional Foods 4. Sensory Analysis 5. Food Security and Sovereignty
106	The sensory properties, color, microbial, lipid oxidation, and residual nitrite of Se'i marinated with lime and roselle calyces extracts (doi.org/10.5398/medpet.2017.40.3.194)	2017	Gemini EM Malelak, Herianus JD Lalel, PR. Kale, and IG N. Jelantik	Local food security: Sorghum	Crop adaptation in drylands, Food security in dry regions, Utilization of local agricultural resources	1. Food Microbiology 2. Sensory Analysis 3. Nutraceuticals and Functional Foods 4. Food Security and Sovereignty.
107	Chemical profile and biological activity of essential oils from *Psidium guajava* grown in Timor Island–Eastern Indonesia (doi:10.31788/RJC.2021.1426125)	2012	ARB. Ola, YCB Dje, AE Nahas, P Nenotek, Theo Da Cunha, D Darmakusuma, and HLL Belli, and HJD Lalel	Local food security:Gebang	Utilization of Local Resources, Local Food Diversification Household Food Security, Gebang	1. Nutraceuticals and Functional Foods 2. Sensory Analysis 3. Food Security and Sovereignty.
108	The diversity of local sorghum (Sorghum bicolor L. Moench) in Nusa Tenggara Timur province (doi:10.1088/1755-1315/144/1/012065)	2018	Lince Mukkun, Herianus JD Lalel, Nur Richana, and Yasinta L Kleden	Local food security:Guajava	Local resources, herbal products, biodiversity.	1. Nutraceuticals and Functional Foods 2. Post Harvest Technology 3. Food Security and Sovereignty
109	Antibacterial, antioxidant and anti-inflammatory activities of red, brown, and black sorghum (Sorghum bicolor) cultivated in a dry land area (doi:10.13057/biodiv/d250828)	2024	Lince Mukkun, Enos T Arung, Maya Ismayati, Yasinta L Kleden, Prisca D Pakan, Elias St. O. Nguru, and Netty M Naibaho	Natural resources:Sorghum	The potential of red, brown, and black sorghum as bioactive sources in dryland areas of NTT	1. Archipelagic Dryland Biodiversity 2. Agricultural Product Processing Technology 3. Plant Biochemistry 4. Post harvet technology

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110	The use of freeze-dried rosella extract (*Hibiscus sabdariffa Linn*) as food additive in making Se'i beef (doi:10.36349/easjnfs.2023.v05i03.001)	2023	Geertruida M Sipahelut, Herianus JD Lalel, and Dodi Dharma Kusuma	Local food:Sei	Development of traditional processed products, local food safety and quality, and natural preservation innovation.	1. Food Microbiology 2. Sensory Analysis 3. Nutraceuticals and Functional Foods 4. Food Security and Sovereignty.
111	The Effect of Saltpeter and Angkak on Total Cholesterol, Nitrite, and Color of Traditionally Smoked Curing "Se'i" Meat (doi:10.36349/easjnfs.2023.v05i02.003)	2023	Bastari Sabtu, Herianus JD Lalel, Pieter R Kale, and Arnol Manu	local food: Sei	Balancing Traditional Practices and Food Safety	1. Introduction to Food Technology 2. Post-Harvest Technology 3. Agricultural Product Processing Technology 4. Fermentation Technology
112	Characteristics of Se'i (Rotenesse smoked meat) treated with coconut shell liquid smoke and *Citrus aurantifolia* extract (doi:10.5398/medpet.2015.38.2.89)	2015	Gemini EM Malelak, GM. Sipahelut, IGN Jelantik, MRD. Ratu, and Herianus JD Lalel	Local food security	Improve quality of Se'i (Rotenesse smoked meat) by coconut shell liquid smoke and *Citrus aurantifolia* extract	1. Food Microbiology 2. Food Security and Sovereignty 3. Sensory Analysis
113	Chemical Profile And Biological Activity of Essential Oils From *Psidium guajava* Grown In Timor Island-Eastern Indonesia (doi:10.31788/RJC.2021.1426125)	2021	ARB. Ola, YCB Dje, Agustina E Nahas,Petronela Nenotek, Theo Da Cunha, Dodi Darmakusuma, Henderiana LL Belliand and Herianus JD Lalel	Essential Oil Industry and Local Economic Value	Essential oils from guava in Timor Island offer potential for health benefits and local economic growth.	1. Annual and Perennial Plant Cultivation Technology 2. Agricultural Product Processing Technology 3. Spice and Essential Oil Technology. 4. Post harvest Technology
114	Levels of anthocyanin, beta carotene and antioxidant activity of functional biscuits flour of purple, yellow and white fleshed sweet potatoes (doi:10.13057/tropdrylands/t030104)	2019	Zainal Abidin, Lewi Jutomo, and Titik S Harini	Local food diversification	The flour from purple, yellow, and white-fleshed sweet potatoes in NTT supports healthy local food diversification and food security.	1. Nutraceuticals and Functional Foods 2. Sensory Analysis

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115	Optimization of Particle Size of Torrefied Kesambi Leaf and Binder Ratio on the Quality of Biobriquettes (doi.org/10.13044/j.sdewes.d12.0490)	2024	Jemmy Dethan and Herianus JD Lalel	Eco-friendly technology	Renewable Energy Engineering: Focuses on sustainable energy sources including biomass energy.	1. Agricultural Waste Management Technology 2. Agricultural Product Processing Technology 3. Soil Physics.
116	The Effect of The Proportion of Chicken Meat And Locust Flour on The Physico-Chemical And Organoleptic Properties Of Nugget (Jurnal Pangan dan Agroindustri Vol.11 No.2: 79-88, April 2023)	2023	Annastasia M M Usfinit, Herianus JD Lalel, Zainal Abidin, Yuliana T Rubak, Melycorianda HNdapamuri	Alternative local food	Utilizing local alternative protein for nutritious and sustainable food diversification	Nutraceuticals and Functional Foods
117	Description of the Physicochemical Properties of Buni Fruit (*Antidesma Bunius* L. Spreng) from Timor Island (https://doi.org/10.26714/jpg.13.1.2023.25-30)	2023	Gemma GO Laga, Herianus JD Lalel, Zainal Abidin, and Yuliana T Rubak	Local biodiversity	Utilizing local buni fruit as a source of nutritious and natural food.	Archipelagic Dryland Biodiversity
118	The Effect of Coconut Shell Liquid Smoke Application on Total Microbes and Organoleptic Quality of Se'i Fat-Tailed Sheep (http://dx.doi.org/10.35726/jp.v26i2.523)	2021	Helsy J Bule Logo, Herianus JD Lalel, Dodi Dharmakusuma	Local food processing	Using liquid smoke to improve the quality of local sheep se'i meat.	1. Agricultural Waste Management Technology 2. Agricultural Product Processing Technology 3. Soil Physics.
119	Characteristics of “Base Genep” Extracts on Treatment Temperature and Extraction Time (doi:10.24843/mitp.2020.v07.i01.p02)	2020	Ni Luh Putu Ravi Cakswindryandani, Luh Putu Wrasiati, and Lutfi Suhendra	Local food innovation	Utilizing local plant extracts for efficient and valuable products.	1. Archipelagic Dryland Biodiversity 2. Agricultural Product Processing TEchnology 3. Plant Biochemistry