

Prof. Luthfi Aziz Mahmud Siregar, SP., M.Sc., Ph.D.

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🌐 fp.usu.ac.id/en/lecturer/luthfi-aziz-mahmud-siregar

Prof. Luthfi Aziz Mahmud Siregar, S.P., M.Sc., Ph.D., born in Medan on July 12, 1973, is an Agrotechnology lecturer at the Universitas Sumatera Utara. He is an expert in Plant Breeding, Biotechnology, Plant Tissue, Cell, and Organ Cultures.

Luthfi Aziz Mahmud Siregar's last education involved a doctoral degree in Bioengineering at Universiti Sains Malaysia (USM) in 2005. As a lecturer, he continues contributing to developing agrotechnology science, particularly in plant breeding and biotechnology. His profile reflects a commitment to education, research, and technology application in developing the agricultural sector at the Universitas Sumatera Utara.

Publications

2026

Jurnal internasional bereputasi

Mangrove structure, composition, and distribution through restoration of Indonesia's mangrove: A systematic review

MOHAMMAD BASYUNI , LUTHFI AZIZ MAHMUD SIREGAR , DIANA SOFIA HANAFIAH , SITI HALIMAH LAREKENG , Tadashi Kajita , Virni Budi Arifanti

2026

Prosiding seminar internasional

Chlorophyll content and stomatal density of Samosir local shallot M1V2 generation by induced mutation for supporting sustainable agriculture

YAYA HASANAH , DIANA SOFIA HANAFIAH , ELISA JULIANTI , LUTHFI AZIZ MAHMUD SIREGAR , IRDA SAFNI , MUHAMMAD SYAHRIL , IRFAN ARIF , IWAN SYAPUTRA HUTAGALUNG

2026

Prosiding seminar internasional

Prevalence and risk factors of subclinical mastitis in traditional dairy goat farms in North Sumatra Province, Indonesia

LISNAWITA , LUTHFI AZIZ MAHMUD SIREGAR , SHINTA MUTIA RM

2026

Prosiding seminar internasional

Chlorophyll content and stomatal density of Samosir local shallot M1V2 generation by induced mutation for supporting sustainable agriculture

YAYA HASANAH , DIANA SOFIA HANAFIAH , ELISA JULIANTI , LUTHFI AZIZ MAHMUD SIREGAR , IRDA SAFNI , MUHAMMAD SYAHRIL , IRFAN ARIF , IWAN SYAPUTRA HUTAGALUNG

2026

Jurnal nasional

Peranan dan Variabilitas Vitamin B1 pada Tanaman

NOVALINA , REVANDY I M DAMANIK , ASNIWITA , LUTHFI AZIZ MAHMUD SIREGAR

2025

Prosiding seminar internasional

Uncovering the potential of the Lumnitzera genus through bioinformatic analysis

2025

Buku referensi

Pemuliaan Tanaman Lokal Pelestarian dan Inovasi Genetik

LAILA NAZIRAH , LUTHFI AZIZ MAHMUD SIREGAR

2025

Jurnal nasional terakreditasi

Optimization medium at the propagation and formation stage of micro tubers some varieties of potato

LUTHFI AZIZ MAHMUD SIREGAR , MOHAMMAD BASYUNI , MELVI WAHYU ANGRAINI NASUTION

2025

Prosiding seminar nasional

OPTIMASI METODE STERILISASI EKSPLAN DAUN GAMBIR (Uncaria gambir (Hunter) Roxb) ASAL PAKPAK BHARAT SECARA IN VITRO: Optimization of Sterilization Methods for In Vitro Gambir

LUTHFI AZIZ MAHMUD SIREGAR , NIDA WAFIQAH NABILA M. SOLIN

2024

Prosiding seminar internasional

Optimization of sterilization Ebony (Diospyros celebica Bakh.) leaf explants in suppressing phenolic compounds and contamination of in vitro culture

LUTHFI AZIZ MAHMUD SIREGAR , REVANDY I M DAMANIK , SOPA PUTRI TANJUNG

2024

Prosiding seminar internasional

Evaluation of Vetiver (Vetiveria zizanioides L.) ecotype growth on root production in salinity

LUTHFI AZIZ MAHMUD SIREGAR , ROSMAYATI , AISAR NOVITA

2024

Prosiding seminar internasional

Growth in The Various Ecotypes from Vetiver Plant at Different Salinity Levels

LUTHFI AZIZ MAHMUD SIREGAR , ROSMAYATI , NINI RAHMAWATI , AISAR NOVITA

2024

Jurnal nasional

Pengabdian Kepada Masyarakat Mendukung Hilirisasi Jamur Tiram Menggunakan Spinner di Poktan Turi Sidomulyo

LUTHFI AZIZ MAHMUD SIREGAR , LISA MAWARNI , PUTRI CHANDRA AYU , AMEILIA ZULIYANTI SIREGAR

2024

Jurnal internasional bereputasi

Growth and biochemical responses of red chili (Capsicum annumL) under drought conditions with 6-Benzylaminopurine application

NINI RAHMAWATI , LUTHFI AZIZ MAHMUD SIREGAR , TAMBUN SIHOTANG

2024

Jurnal nasional terakreditasi

Potensi Dark Septate Endophyte Isolat Sumatera Utara terhadap Ganoderma boninense Penyebab Busuk Pangkal Batang Kelapa Sawit

LISNAWITA , LUTHFI AZIZ MAHMUD SIREGAR

2024

Jurnal nasional terakreditasi

Potensi Dark Septate Endophyte Isolat Sumatera Utara terhadap Ganoderma boninense Penyebab Busuk Pangkal Batang Kelapa Sawit: Potential of Dark Septate Endophytes North Sumatra Isolates Against Ganoderma boninense the Pathogen of Basal Stem Rot of Oil Palm

LUTHFI AZIZ MAHMUD SIREGAR , DR LISNAWITA SP, MSI , Citra Fardani

2024

Jurnal internasional bereputasi

Growth and Essential Oil Production of Vetiver Plants Under Salinity

Condition with Salicylic Acid and Mycorrhiza Application

AISAR NOVITA , ROSMAYATI , LUTHFI AZIZ MAHMUD SIREGAR , NINI RAHMAWATI

2024
Prosiding seminar internasional

The protein model of somatic embryogenesis genes of oil palm (Elaeis guineensis Jacq.) using Phyre2and Swiss-model

MOHAMMAD BASYUNI , LUTHFI AZIZ MAHMUD SIREGAR , REVANDY I M DAMANIK

2024
Prosiding seminar internasional

An interesting phenomenon in oil palm: anatomical, morphophysiological, and biochemical observations from aerial roots on the trunk

CHAIRANI HANUM L , ROSMAYATI , LUTHFI AZIZ MAHMUD SIREGAR , NANANG SUPENA

2024
Jurnal internasional bereputasi

Genotypic effects on accelerated propagation of oil palm breeding materials selected (Elaeis guineensis jacq.) using somatic embryogenesis

LUTHFI AZIZ MAHMUD SIREGAR , MOHAMMAD BASYUNI , REVANDY I M DAMANIK

2024
Jurnal internasional bereputasi

Agronomic, Yielding, and Pyruvate Content of Samosir Local Shallot Due to Trichoderma spp.

LISNAWITA , LUTHFI AZIZ MAHMUD SIREGAR

2024
Prosiding seminar internasional

The protein model of somatic embryogenesis genes of oil palm (Elaeis guineensis Jacq.) using Phyre²and Swiss-model

LUTHFI AZIZ MAHMUD SIREGAR , RETNO PUJI ASTARI, SP. MP. , REVANDY I M DAMANIK , MOHAMMAD BASYUNI

2024
Jurnal internasional bereputasi

Mangrove plants using deoxyribonucleic acid barcodes for enhancing biodiversity and conservation

LUTHFI AZIZ MAHMUD SIREGAR , SITI HALIMAH LAREKENG , AHMAD BAIQUNI RANGKUTI , ERWIN RIYANTO ARDLI , ARIDA SUSILOWATI , MOHAMMAD BASYUNI

2024
Prosiding seminar internasional

Salicylic acid's effect and mycorrhiza on Vetiveria zizanioides L. growing in salty soil

AISAR NOVITA , LUTHFI AZIZ MAHMUD SIREGAR , ROSMAYATI

2024
Jurnal internasional bereputasi

Growth Characters, Physiology and Leaf Fall Disease Resistance in Immature Plants of Rubber (Hevea brasiliensis) IRR 400 Series Clones

MOHAMMAD BASYUNI , RAHAYU NOVRINA ROSA , Syarifah Aini Pasaribu , LUTHFI AZIZ MAHMUD SIREGAR

2024
Jurnal internasional bereputasi

Agronomic Yield and Pyruvate Content of Local Samosir Shallot Bulbs due to Trichoderma spp.

ELSERIA SIBURIAN , LISNAWITA , LUTHFI AZIZ MAHMUD SIREGAR

2024
Jurnal internasional bereputasi

Bark Recovery of Rubber Clone PB 260 Through Application of NAA⁺, Kinetin and Oleo-chemicals

MURNI SARI RAHAYU , Radite Tistama , LUTHFI AZIZ MAHMUD SIREGAR , EDISON PURBA

2024
Prosiding seminar internasional

Salicylic acid's effect and mycorrhiza on *Vetiveria zizanioides* L. growing in salty soil

AISAR NOVITA , LUTHFI AZIZ MAHMUD SIREGAR , ROSMAYATI

2023

Jurnal nasional terakreditasi

Technical Guidance for Oyster Mushroom Baglog Production Using a Semi-Mechanical Baglog Pressing in Poktan Turi Sidomulyo

LUTHFI AZIZ MAHMUD SIREGAR , PUTRI CHANDRA AYU , AMELIA ZULIYANTI SIREGAR , LISA MAWARNI

2023

Jurnal internasional bereputasi

PRODUCTION OF MICROSHOOT USING THE TEMPORARY IMMERSION SYSTEM (TIS) IN POTATO CULTIVARS

SISWA PANJANG HERNOSA , LUTHFI AZIZ MAHMUD SIREGAR , SEPTI ANDRIANI , IRDA SAFNI

2023

Jurnal internasional bereputasi

VETIVER (VETIVERIA ZIZANIOIDES L.) ECOTYPES ASSESSMENT FOR SALINITY TOLERANCE

LUTHFI AZIZ MAHMUD SIREGAR , NINI RAHMAWATI , AISAR NOVITA , ROSMAYATI

2023

Buku referensi

In vitro Perbanyakan Tanaman Skala Besar melalui Temporary Immersion System (TIS) untuk Ketersediaan Bibit dan Biomassa Bermutu

LUTHFI AZIZ MAHMUD SIREGAR

2023

Jurnal internasional bereputasi

Fruit Development and Seed Physiological Maturity of Andaliman (*Zanthoxylum acanthopodium* DC.), A Wild Spice in North Sumatra, Indonesia

LUTHFI AZIZ MAHMUD SIREGAR , T CHAIRUN NISA B , BENEDICTA LAMRIA SIREGAR

2023

Prosiding seminar internasional

Effect of mulch weight on temperature, soil moisture and vegetative growth of Sigambiri Merah in lowlands

DEDI KUSBIANTORO , LUTHFI AZIZ MAHMUD SIREGAR , CHAIRANI HANUM L , LISA MAWARNI

2023

Prosiding seminar internasional

Growth of Samosir Local Shallots Due To The Types and Dosage of Trichoderma Spp Isolate

LUTHFI AZIZ MAHMUD SIREGAR , T CHAIRUN NISA B , LISNAWITA

2023

Prosiding seminar nasional

Potensi Isolat Trichoderma Terpilih Pada Lokasi Penanaman Berbeda Terhadap Pertumbuhan Bawang Merah Samosir

LUTHFI AZIZ MAHMUD SIREGAR , LISNAWITA , T CHAIRUN NISA B

2023

Prosiding seminar internasional

The phenotype of the three-way cross soybean (*Glycine max* [L.] merrill) results

LUTHFI AZIZ MAHMUD SIREGAR , DIANA SOFIA HANAFIAH , Khairunnisa Lubis , HARYATI , FADILLAH RAHMADANA

2023

Prosiding seminar nasional

Evaluasi Ekotipe Akar Wangi Terhadap Pertumbuhan pada Berbagai Tingkat Salinitas

ROSMAYATI , AISAR NOVITA , LUTHFI AZIZ MAHMUD SIREGAR , NINI RAHMAWATI

2023

Hasil penelitian/pemikiran yang tidak dipublikasikan

PENGUNAAN BIBIT KULTUR JARINGAN DALAM BUDIDAYA PISANG BARANGAN DI PEKARANGAN WARGA KELURAHAN SIMPANG SELAYANG, KECAMATAN MEDAN TUNTUNGAN, KOTA MEDAN

LUTHFI AZIZ MAHMUD SIREGAR , T SABRINA , DIANA SOFIA HANAFIAH

2023

Jurnal internasional bereputasi

The heterosis, heterobeltiosis, and the yielding ability of hybrids of three parental crossings of soybean (Glycine max)

Khairunnisa Lubis , HARYATI , LUTHFI AZIZ MAHMUD SIREGAR , DIANA SOFIA HANAFIAH

2022

Prosiding seminar internasional

Bioinformatics analyses of embryoid genes in oil palm tissue culture (Elaeis guineensis Jacq.)

LUTHFI AZIZ MAHMUD SIREGAR , MOHAMMAD BASYUNI , REVANDY I M DAMANIK

2022

Jurnal nasional terakreditasi

The use of Indole Butyric Acid on the growth of dragon fruit plant stem cuttings

LUTHFI AZIZ MAHMUD SIREGAR , Siswa Panjang Hernosa , SANGGAM DERA ROSA TAMPUBOLON

2022

Jurnal internasional bereputasi

studi on good agriculture practice GAP for pineaplle cuntivation in labuhan batu regencynorth sumatra province indonesia

CHAIRANI HANUM L , LUTHFI AZIZ MAHMUD SIREGAR , TAVI SUPRIANA , SISWA PANJANG HERNOSA

2022

Jurnal internasional bereputasi

Screening Rice Lines Tolerant to Low Temperature at the Germination Stage Using Thermogradient Bar

T CHAIRUN NISA B , LUTHFI AZIZ MAHMUD SIREGAR

2022

Prosiding seminar internasional

Induction of mutation with colchicine in Olympus potato by in vitro culture

LUTHFI AZIZ MAHMUD SIREGAR , CHAIRANI HANUM L

2022

Prosiding seminar internasional

Improving of true shallot seeds germination by the application of plant growth regulators and osmoconditioning treatment

REVANDY I M DAMANIK , LUTHFI AZIZ MAHMUD SIREGAR

2021

Prosiding seminar internasional

Isolation and amplification of mangrove plants using DNA barcode in Percut Sei Tuan, North Sumatra, Indonesia

LUTHFI AZIZ MAHMUD SIREGAR , MOHAMMAD BASYUNI

2021

Prosiding seminar internasional

Microtubers production by using Temporary Immersion System (TIS) bioreactor to potato varieties

LUTHFI AZIZ MAHMUD SIREGAR , IRDA SAFNI

2021

Jurnal internasional bereputasi

Maturity acceleration of some rubber clones (Hevea brasiliensis L) with plant growth regulator treatment.

TRI KORYATI , LUTHFI AZIZ MAHMUD SIREGAR

2021

Jurnal nasional terakreditasi

Chromosome status and yield characteristics of soybean (Glycine max L. (Merr)) in saline soil as affected by induced mutation

DIANA SOFIA HANAFIAH , LUTHFI AZIZ MAHMUD SIREGAR

2021

Jurnal internasional bereputasi

In vitro Selection of Cayenne Pepper (Capsicum frutescens L.) Varieties Against Drought Stress Mediated Through Polyethylene Glycol

LOLLIE AGUSTINA P , LUTHFI AZIZ MAHMUD SIREGAR

2021

Jurnal internasional bereputasi

Fertilizing dosage on three patchouli varieties (Pogostemon cablin Benth.) to reduce the effects of drought stress

ERWIN MASRUL HARAHAHAP , LUTHFI AZIZ MAHMUD SIREGAR , CHAIRANI HANUM L

2021

Jurnal nasional terakreditasi

In vitro The Role of Paclobutrazol in Potato Seed Production (Solanum tuberosum L) cultivar Granola Kembang Early Generation (G0) In Vitro: Potato

HOT SETIADO , LUTHFI AZIZ MAHMUD SIREGAR

2021

Prosiding seminar internasional

Morphological characteristics of Mangosteen plants (Garcinia mangostana L.) in Langkat District, North Sumatera, Indonesia

HOT SETIADO , LUTHFI AZIZ MAHMUD SIREGAR , REVANDY I M DAMANIK

2021

Prosiding seminar internasional

The response of several combination of plant growth regulators to shoot induction of fig (Ficus carica L.) var. improved celeste

LUTHFI AZIZ MAHMUD SIREGAR , CHAIRANI HANUM L

2021

Jurnal internasional bereputasi

Morphological and physiological performance of brown rice (Oryza nivara l.) under salinity stress

CHAIRANI HANUM L , LUTHFI AZIZ MAHMUD SIREGAR

2021

Jurnal internasional bereputasi

Resistance level of several soybean lines of M6 generation to stem rot disease Athelia rolfsii

REVANDY I M DAMANIK , DIANA SOFIA HANAFIAH , IRDA SAFNI , LUTHFI AZIZ MAHMUD SIREGAR

2021

Jurnal internasional bereputasi

Distribution of polyprenol and dolichol in oil palms from Pisifera parents and mature plants from tissue culture propagation

MOHAMMAD BASYUNI , LUTHFI AZIZ MAHMUD SIREGAR

2021

Prosiding seminar internasional

Morph-physiology, Sterol and Chlorophyll Content of Bangun-Bangun (Plectranthus amboinicus (Lour.) Spreng) Accessions

EVA SARTINI BAYU , LUTHFI AZIZ MAHMUD SIREGAR

2021

Jurnal internasional bereputasi

Effect of salinity on phenotypic soybean mutant character (Glycine max (L.) Merr)

DIANA SOFIA HANAFIAH , LUTHFI AZIZ MAHMUD SIREGAR

2021
Jurnal nasional terakreditasi

Characterization and evaluation of the variability of dragon fruit accessions in Dairi District, North Sumatra Province, Indonesia

REVANDY I M DAMANIK , LUTHFI AZIZ MAHMUD SIREGAR

2021
Jurnal nasional terakreditasi

Immersion in 6-Benzylaminopurine for Dormancy Release and Initiation of Potato Sprouts at Various Tuber Weight and Storage Duration

LUTHFI AZIZ MAHMUD SIREGAR , REVANDY I M DAMANIK

2021
Jurnal internasional bereputasi

Genetic analysis of soybean mutant lines resistance to stem rot disease (*Athelia rolfsii* curzi)

DIANA SOFIA HANAFIAH , REVANDY I M DAMANIK , LUTHFI AZIZ MAHMUD SIREGAR , IRDA SAFNI

2021
Jurnal internasional bereputasi

Distribution of polyprenol and dolichol in oil palm genotype (*Elaeis guineensis*) involving lipase activity

LUTHFI AZIZ MAHMUD SIREGAR , MOHAMMAD BASYUNI

2021
Jurnal internasional bereputasi

DNA intensity and genetic diversity of oil palm (*Elaeis guineensis*) to determine an elite low lipase line

LUTHFI AZIZ MAHMUD SIREGAR , MOHAMMAD BASYUNI

2020
Jurnal internasional bereputasi

Resistance level of several soybean lines of M6 generation to stem rot disease *Athelia rolfsii*

ANGGRIA LESTAMI , DIANA SOFIA HANAFIAH , IRDA SAFNI , REVANDY I M DAMANIK , LUTHFI AZIZ MAHMUD SIREGAR

2020
Jurnal internasional bereputasi

The Effects of Temperature and Potassium Fertilizer on the Growth, Yield, and Biochemical Parameters of *Ipomoea batatas* var. Antin-1

ROSMAYATI , LUTHFI AZIZ MAHMUD SIREGAR

2020
Jurnal internasional bereputasi

Enhancement of drought tolerance in patchouli (*Pogostemon cablin*, benth) by modifying micro-climate and frequency of fertilization

LUTHFI AZIZ MAHMUD SIREGAR , ERWIN MASRUL HARAHAP , CHAIRANI HANUM L

2020
Prosiding seminar internasional

Screening of Varieties of Cayenne Pepper (*Capsicum frutescens* L.) on Salinity Resistance through in vitro Culture Technique

LOLLIE AGUSTINA P , LUTHFI AZIZ MAHMUD SIREGAR , Khairunnisa Lubis

2020
Jurnal nasional terakreditasi

Pengaruh asam indol butirat (IBA) pada pertumbuhan setek tanaman buah naga (*Hylocereus costaricensis*)

LUTHFI AZIZ MAHMUD SIREGAR

2020
Prosiding seminar internasional

Polymorphism levels of some SSR markers (Simple Sequence Repeat) for parental line identification on low temperature tolerance

T CHAIRUN NISA B , LOLLIE AGUSTINA P , LUTHFI AZIZ MAHMUD SIREGAR

2020
Prosiding seminar internasional

The effect of the weight of potato tuber seeds and the duration of cytokinin application on potato tuber (*Solanum tuberosum* L.) dormancy release

REVANDY I M DAMANIK , LUTHFI AZIZ MAHMUD SIREGAR

2020
Prosiding seminar internasional

Individual selection of roselle plant m⁴ generation (*Hibiscus sabdariffa* l.) based on anthocyanin, vitamin c and water content

MEIRIANI , DIANA SOFIA HANAFIAH , LUTHFI AZIZ MAHMUD SIREGAR

2020
Prosiding seminar internasional

Physiological Tests on Soybean Mutant Lines against Stem Rot Disease *Athelia Rolfsii* Curzi

REVANDY I M DAMANIK , DIANA SOFIA HANAFIAH , IRDA SAFNI , LUTHFI AZIZ MAHMUD SIREGAR

2020
Prosiding seminar internasional

Molecular Performance of Oil Palm (*Elaeis Guineensis* Jacq.) Origin Based on Microsatellite Marker for Low Lipase Trait

MOHAMMAD BASYUNI , LUTHFI AZIZ MAHMUD SIREGAR

2019
Prosiding seminar internasional

Appearance of Agronomic Characters and Genetic Parameters Estimation on M3 Population of Roselle [*Hibiscus sabdariffa* L.]

DIANA SOFIA HANAFIAH , MEIRIANI , ROSMAYATI , LUTHFI AZIZ MAHMUD SIREGAR

2019
Prosiding seminar internasional

Molecular Performance of Oil Palm (*Elaeis Guineensis* Jacq.) Origin Based on Microsatellite Marker for Low Lipase Trait

NINA UNZILA ANGKAT , LUTHFI AZIZ MAHMUD SIREGAR , MOHAMMAD BASYUNI

2019
Jurnal internasional

The Effects Of Plant Growth Regulators (Naa+Bap) And Explant Types On Propagation Buds Of Asam Gelugur (*Garcinia Atroviridis* Griff)

NURCHOLIS AL FARISI , LUTHFI AZIZ MAHMUD SIREGAR

2019
Jurnal internasional bereputasi

Variability of coconut phenotype based on morphology and content of fatty acids in Asahan District, North Sumatra, Indonesia

DIANA SOFIA HANAFIAH , LUTHFI AZIZ MAHMUD SIREGAR

2019
Jurnal internasional bereputasi

The Effects Of Plant Growth Regulators (Naa+Bap) And Explant Types On Propagation Buds Of Asam Gelugur (*Garcinia Atroviridis* Griff)

T CHAIRUN NISA B , LUTHFI AZIZ MAHMUD SIREGAR

2019
Jurnal nasional terakreditasi

Pola Laju Aliran Lateks Beberapa Klon Karet dengan Penggunaan Zat Pengatur Tumbuh Terhadap Produksi

LUTHFI AZIZ MAHMUD SIREGAR

2019
Prosiding seminar internasional

The Level of Water Supply and its Effect on the Growth of Plants and Yields *Patchouli* (*Pogostemon Cablin*, Benth.)

LUTHFI AZIZ MAHMUD SIREGAR , CHAIRANI HANUM L , ERWIN MASRUL HARAHAHAP

2019
Jurnal internasional bereputasi

Effect of harvest time on bioactive compounds of field-cultivated *Centella asiatica* (L) urban.

LUTHFI AZIZ MAHMUD SIREGAR , NOVERITA SPRINSE VINOLINA

2019
Prosiding seminar internasional

The use of polyethylene glycol as simulating media of drought stress on viability of seeds varieties of Cacao (*Theobroma Cacao* L.) on germination stadia

REVANDY I M DAMANIK , LUTHFI AZIZ MAHMUD SIREGAR

2019
Prosiding seminar internasional

Flower morphology and inflorescence of Andaliman (*Zanthoxylum acanthopodium* DC.) from Dairi, North Sumatera

T CHAIRUN NISA B , LUTHFI AZIZ MAHMUD SIREGAR , LOLLIE AGUSTINA P

2019
Prosiding seminar internasional

Growth and production of soybean (*Glycine max* L. Merril) varieties in response to waterlogging at vegetative (V5) growth phase by application of gibberellic acid and salicylic acid

LUTHFI AZIZ MAHMUD SIREGAR , REVANDY I M DAMANIK

2019
Jurnal nasional terakreditasi

Identifikasi Karakter Morfologi Buah Naga (*Hylocereus* sp.) Di Kecamatan Sitinjo Kabupaten Dairi Sumatera Utara: Identification of Morphological Characteristic of Dragon Fruit

NINA UNZILA ANGKAT , LUTHFI AZIZ MAHMUD SIREGAR , REVANDY I M DAMANIK

2019
Jurnal nasional terakreditasi

Pengaruh Vernalisasi Terhadap Penampilan Tanaman Amaris (*Hippeastrum* sp.) Lokal Tanah Karo dan Sumatera Barat

LUTHFI AZIZ MAHMUD SIREGAR , HOT SETIADO

2019
Jurnal nasional terakreditasi

Uji Berbagai Bahan Alami sebagai Sumber Zat Pengatur Tumbuh dalam Meningkatkan Viabilitas Benih True Seed Shallot Bawang Merah

LUTHFI AZIZ MAHMUD SIREGAR

2019
Prosiding seminar internasional

Seed Characteristics of Soybean Cultivars As Affected by Foliar Application of Elicitors

LISA MAWARNI , LUTHFI AZIZ MAHMUD SIREGAR , YAYA HASANAH

2018
Jurnal nasional terakreditasi

Penampilan Fenotipik Buah Durian (*Durio zibethinus* Murr.) Di Kabupaten Dairi, Sumatera Utara

DIANA SOFIA HANAFIAH , LUTHFI AZIZ MAHMUD SIREGAR

2018
Jurnal internasional

Role of elicitors foliar application in increasing isoflavone content of two soybean cultivars.

YAYA HASANAH , LISA MAWARNI , LUTHFI AZIZ MAHMUD SIREGAR

2018
Prosiding seminar internasional

Growth and yield of patchouli (*Pogostemon cablin*, Benth) due to mulching

and method of fertilizer on rain-fed land

CHAIRANI HANUM L , LUTHFI AZIZ MAHMUD SIREGAR , ERWIN MASRUL HARAHAP

2017

Jurnal nasional

Pengaruh Zat Pengatur Tumbuh terhadap Induksi Akar (Rhizogenesis) pada Tanaman Bangun-Bangun (*Plectranthus amboinicus* (Lour.) Spreng) secara In Vitro: The Effects of Growth

LOLLIE AGUSTINA P , LUTHFI AZIZ MAHMUD SIREGAR

2009

Jurnal internasional bereputasi

Effects of Medium Constituents on Growth and Canthinone Accumulation in Cell Suspension Cultures of *Eurycoma longifolia* Jack

LUTHFI AZIZ MAHMUD SIREGAR

Researches

2025

Eksplorasi dan aplikasi DNA Barkode dan eDNA metabarkoding untuk monitoring keragaman genetik dan fenotipik ekosistem mangrove Sumatera Utara

MOHAMMAD BASYUNI , LUTHFI AZIZ MAHMUD SIREGAR , DIANA SOFIA HANAFIAH

2025

Penelitian Unggulan Strategis Nasional

PERBAIKAN GENETIK BAWANG MERAH LOKAL SAMOSIR DAN PENGUJIAN KETAHANAN PENYAKIT LAYU FUSARIUM

YAYA HASANAH , LUTHFI AZIZ MAHMUD SIREGAR , DIANA SOFIA HANAFIAH , MUHAMMAD SYAHRIL , ELISA JULIANTI , IRDA SAFNI

2024

Respon Pertumbuhan dan Produksi Beberapa Kultivar Lokal Kacang Merah (*Phaseolus vulgaris* L) Simalungun dengan Perlakuan Asam Salisilat di Dataran Menengah

LUTHFI AZIZ MAHMUD SIREGAR , RELLY ERMANDO

2022

Penelitian Disertasi Doktor

PEMANFAATAN SEKAM BAKAR DAN MULSA ORGANIK DALAM PENINGKATAN HASIL DAN PENURUNAN AMILOSA PADI GOGO SIGAMBIRI MERAH

LUTHFI AZIZ MAHMUD SIREGAR , LISA MAWARNI , CHAIRANI HANUM L , DEDI KUSBIANTORO

2022

Penelitian Disertasi Doktor

Produksi dan Kandungan Minyak Atsiri Beberapa Ekotipe Akar Wangi (*Vetiveria zizanioides*) Pada Beberapa Tingkat Salinitas dan Kultur Teknis Dengan Asam Salisilat dan Mikoriza

NINI RAHMAWATI , ROSMAYATI , LUTHFI AZIZ MAHMUD SIREGAR , AISAR NOVITA

2020

Penelitian Tim Pasca Sarjana

Variasi Somaklonal pada Tanaman Kelapa Sawit (*Elaeis Guineensis* Jacq.) dengan Metode Senyawa Polyisoprenoid

MOHAMMAD BASYUNI , LUTHFI AZIZ MAHMUD SIREGAR , ERKY BEBY AYU KARTIKA

2020

Ipteks

Seleksi Molekuler dan Analisa Kimia Karakter Aktivitas Lipase Rendah pada Tanaman Kelapa Sawit (*Elaeis guineensis* Jacq).

MOHAMMAD BASYUNI , LUTHFI AZIZ MAHMUD SIREGAR , NINA UNZILA ANGKAT

2018

SELEKSI INDIVIDU BERDASARKAN KARAKTER PRODUKSI DAN KANDUNGAN ANTOSIANIN TANAMAN ROSELLA (*Hibiscus sabdariffa* L.) SEBAGAI BAHAN BAKU BIOFARMAKA

LUTHFI AZIZ MAHMUD SIREGAR , DIANA SOFIA HANAFIAH , MEIRIANI

Community Services

2022

Ipteks Bagi Kewirausahaan

BIMBINGAN TEKNIS ALAT PRESS TANAM DAN STERILISASI BAGLOG JAMUR TIRAM MENDUKUNG BUDIDAYA JAMUR TIRAM DI POKTAN TURI SIDOMULYO

PUTRI CHANDRA AYU , LUTHFI AZIZ MAHMUD SIREGAR , LISA MAWARNI

2016

Ipteks Bagi Kewirausahaan

Pengembangan Budidaya daan Kewirausahaan Ikan Lele dengan Memanfaatkan Pekarangan Rumah di Taanjung Putus, Kecamatan Talawi Kaabupaten Batubara

LUTHFI AZIZ MAHMUD SIREGAR , AHMAD MUHTADI , YUSUF HUSNI

Intellectual Property Rights

2026

Paten nasional

Hak Perlindungan Varietas Tanaman, Varietas Kedelai: G1 USU

DIANA SOFIA HANAFIAH , ROSMAYATI , Khairunnisa Lubis , HARYATI , LUTHFI AZIZ MAHMUD SIREGAR , MUHDI , GALI RAKASIWI

2026

Paten nasional

Hak Perlindungan Varietas Tanaman: Kedelai Varietas Soya USU

MUHDI , DIANA SOFIA HANAFIAH , ROSMAYATI , LUTHFI AZIZ MAHMUD SIREGAR , REVANDY I M DAMANIK , IRDA SAFNI , Khairunnisa Lubis , ANGGRIA LESTAMI , RATNA ROSANTI LAHAY , GALI RAKASIWI

2026

Paten nasional

Hak Perlindungan Varietas Tanaman: Kedelai Varietas Athelia USU

MUHDI , DIANA SOFIA HANAFIAH , RATNA ROSANTI LAHAY , REVANDY I M DAMANIK , LUTHFI AZIZ MAHMUD SIREGAR , IRDA SAFNI , Khairunnisa Lubis , ANGGRIA LESTAMI , ROSMAYATI

2020

Paten nasional

PROSES UNTUK MENDAPATKAN GALUR MUTAN KEDELAI

DIANA SOFIA HANAFIAH , EVA SARTINI BAYU , EMMY HARSO KARDHINATA , RATNA ROSANTI LAHAY , REVANDY I M DAMANIK , LUTHFI AZIZ MAHMUD SIREGAR , IRDA SAFNI
