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Prof. Luthfi Aziz Mahmud Siregar, S.P., M.Sc., Ph.D., lahir di Medan pada 12 Juli 1973, adalah seorang dosen Agroteknologi di Universitas Sumatera Utara. Beliau adalah pakar dalam bidang keahlian Pemuliaan Tanaman, Bioteknologi, serta Kultur Jaringan, Sel, dan Organ Tanaman.

Pendidikan terakhir Luthfi Aziz Mahmud Siregar melibatkan gelar doktor (S3) dalam bidang Bioeknologi di Universiti Sains Malaysia (USM) pada tahun 2005. Sebagai seorang dosen, beliau terus berkontribusi dalam pengembangan ilmu agroteknologi, khususnya dalam pemuliaan tanaman dan bioteknologi. Profilnya mencerminkan komitmen terhadap pendidikan, penelitian, dan aplikasi teknologi dalam pengembangan sektor pertanian di Universitas Sumatera Utara.

Publications

2025

Buku referensi

Pemuliaan Tanaman Lokal Pelestarian dan Inovasi Genetik

LAILA NAZIRAH , LUTHFI AZIZ MAHMUD SIREGAR

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

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

Prosiding seminar internasional

The protein model of somatic embryogenesis genes of oil palm (*Elaeis guineensis* Jacq.) using Phyre2 and Swiss-model

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

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

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

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

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

Hasil penelitian/pemikiran yang tidak dipublikasikan

PENGGUNAAN 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

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

Study on Good Agriculture Practice (GAP) for Pineapple Cultivation in Labuhan Batu Regency, North Sumatra Province, Indonesia

CHAIRANI HANUM L , LUTHFI AZIZ MAHMUD SIREGAR , TAVI SUPRIANA

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 *Olimpus* potato by in vitro culture

LUTHFI AZIZ MAHMUD SIREGAR , CHAIRANI HANUM L

2022

Jurnal internasional bereputasi

Morphological Characterization and its Relationship with Preference for Pineapple in Labuhan Batu Regency, Indonesia

LUTHFI AZIZ MAHMUD SIREGAR , TAVI SUPRIANA , 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

Jurnal internasional bereputasi

Conjoint analysis of consumer preferences for pineapple fruit in Labuhan Batu District, North Sumatra

CHAIRANI HANUM L , LUTHFI AZIZ MAHMUD SIREGAR , TAVI SUPRIANA

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

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

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

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

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

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

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

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

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

Distribution of polyphenol 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

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

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

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

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 HARAHAP

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

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

LUTHFI AZIZ MAHMUD SIREGAR

2018
Jurnal nasional terakreditasi

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

DIANA SOFIA HANAFIAH , 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

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

2021
Penelitian Dana Lokal Perguruan Tinggi

KAJIAN PENINGKATAN POTENSI BUAH NANAS DI KABUPATEN LABUHANBATU (Melalui Pendekatan Preferensi Konsumen dan Identifikasi Karakteristik serta Penerapan Prinsip GAP budidaya Nanas)

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

2021
Penelitian Disertasi Doktor

Penelitian Disertasi Doktor

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