

# Edison Purba

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*Prof. Ir. Edison Purba, Ph.D., lahir di Simalungun pada 5 Januari 1959, adalah seorang dosen di Program Studi Agroteknologi Universitas Sumatera Utara. Bidang keahliannya terfokus pada Ilmu Gulma. Edison Purba menyelesaikan pendidikan tingginya di tingkat doktor dalam program studi Crop Protection, di Adelaide University pada tahun 1994. Sebagai akademisi dan peneliti, beliau berdedikasi untuk mengembangkan pengetahuan dan pemahaman dalam bidang ilmu gulma guna mendukung pembangunan pertanian yang berkelanjutan.*

## Publications

2023

Jurnal internasional bereputasi

### **Improvement of morphology, biochemical characters, and molecular changes of local upland rice cv. Sidikalang M3 generation through induction of gamma-ray irradiation**

DIANA SOFIA HANAFIAH , EDISON PURBA

2026

Prosiding seminar nasional

### **Keragaman Morfologi Empat Genotipe Indigofera zollingeriana pada Lahan Salin Mendukung Pembentukan Varietas Baru Toleran Salinitas**

EDISON PURBA

2024

Jurnal internasional

### **Production and Quality of M2 Generations of Indigofera Zollingeriana Result from Gamma-Ray Irradiation as Animal Feed and its Effect on Soil Characteristics on Saline Soil**

EDISON PURBA , NEVY DIANA HANAFI

2019

Jurnal nasional terakreditasi

### **Pengaruh Penambahan Sabut Kelapa pada Media Tanam Terhadap Pertumbuhan Tiga Varietas Bibit Unggul Kelapa Sawit (Elaeis guineensis Jacq.) yang Bermesokarp Tebal**

CHARLOQ , EDISON PURBA

2024

Jurnal internasional

### **Production and Quality of M2 Generations of Indigofera Zollingeriana Result from Gamma-Ray Irradiation as Animal Feed and its Effect on Soil Characteristics on Saline Soil**

EDISON PURBA , NEVY DIANA HANAFI

2024

Jurnal internasional bereputasi

### **Bark recovery of rubber clone PB260 through application of NAA+, kinetin and oleo-chemicals**

EDISON PURBA

2024  
Buku referensi

## **Peranan Tumbuhan Air Dalam Menyerap Logam Berat Pada Lindi Tempat Pembuangan Akhir**

EDISON PURBA

2024  
Jurnal internasional

## **Production and Quality of M2 Generations of Indigofera Zollingeriana Result from Gamma-Ray Irradiation as Animal Feed and its Effect on Soil Characteristics on Saline Soil**

EDISON PURBA , NEVY DIANA HANAFI

2024  
Jurnal internasional

## **Production and Quality of M2 Generations of Indigofera Zollingeriana Result from Gamma-Ray Irradiation as Animal Feed and its Effect on Soil Characteristics on Saline Soil**

EDISON PURBA

2022  
Jurnal internasional bereputasi

## **Leaf Characterizations of IRR 400 Series, BPM 24, and RRIC 100 Rubber (Hevea brasiliensis Muell. Arg.) Clone Using Leafgram Method**

MOHAMMAD BASYUNI , EDISON PURBA , YAYA HASANAH

2020  
Jurnal internasional bereputasi

## **Application of monosodium methyl arsenate with diuron herbicide to control the characteristics of glyphosate-resistant Eleusine indica at oil palm plantations**

EDISON PURBA

2023  
Jurnal internasional bereputasi

## **Physiological characteristics of IRR 400 series rubber clones (Hevea brasiliensis Muell. Arg.) under drought stress**

MOHAMMAD BASYUNI , YAYA HASANAH , EDISON PURBA

2024  
Makalah ilmiah

## **PERSEPSI PETANI TENTANG LINGKUNGAN INTERNAL DAN EKTERNAL USAHATANI DALAM PEMBERDAYAAN PETANI INTEGRASI KOPI KAMBING DI SUMATERA UTARA**

EDISON PURBA

2026  
Jurnal internasional bereputasi

## **Improvement of morphology, biochemical characters, and molecular changes of local upland rice cv. Sidikalang M3 generation through induction of gamma-ray**

EDISON PURBA

2026  
Prosiding seminar internasional

## **FACTORS INFLUENCING FARMER EMPOWERMENT INTEGRATION OF COFFEE AND GOATS AT STARBUCK'S FOSTERED IN RONGGURNIHUTA DISTRICT, SAMOSIR REGENCY**

EDISON PURBA

2023  
Jurnal nasional terakreditasi

## **Effect of Leachate Concentration on the Eichhornia Crassipes Plants**

IRHAMNI , EDISON PURBA

2024  
Jurnal internasional bereputasi

## **Bark Recovery of Rubber Clone PB 260 Through Application of NAA<sup>+</sup> + </sup>, Kinetin and Oleo-chemicals**

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

2019  
Jurnal nasional

## **Weed Control With Saflufenacil Singly and Mixture in Immature Oil Palm on Peat Land**

EDISON PURBA , LISA MAWARNI

2022  
Prosiding seminar internasional

## **Growth and leaf anatomy of rubber clones (Hevea brasiliensis Muell. Arg.) IRR 400 series toward drought stress**

MOHAMMAD BASYUNI , EDISON PURBA

2020  
Jurnal nasional terakreditasi

## **Identification and inventory of cassava (manihot esculenta crantz) in north sumatera**

EMMY HARSO KARDHINATA , EDISON PURBA , HERLA RUSMARILIN , DWI SURYANTO

2019  
Prosiding seminar internasional

## **Information of Cyperus rotundus Weed from The National Center for Information on Biotechnology (NCBI)**

WISMAROH SANNIWATI BR SARAGIH , EDISON PURBA , MOHAMMAD BASYUNI , DR LISNAWITA SP, MSI

2019  
Prosiding seminar internasional

## **Information of Cyperus rotundus weed from the national center for information on biotechnology (NCBI)**

DR LISNAWITA SP, MSI , EDISON PURBA , MOHAMMAD BASYUNI , WISMAROH SANNIWATI SARAGIH

2023  
Jurnal nasional terakreditasi

## **Effect of Leachate Concentration on the Eichhornia Crassipes Plants**

IRHAMNI , EDISON PURBA

2026  
Poster seminar nasional

## **PERSEPSI PETANI TENTANG LINGKUNGAN INTERNAL DAN EKTERNAL USAHATANI DALAM PEMBERDAYAAN PETANI INTEGRASI KOPI KAMBING DI SUMATERA UTARA**

EDISON PURBA

2026  
Jurnal internasional bereputasi

## **Physiological characteristics of IRR 400 series rubber clones ( Hevea brasiliensis Muell. Arg.) under drought stress**

EDISON PURBA

2024  
Artikel ilmiah

## **PERSEPSI PETANI TENTANG LINGKUNGAN INTERNAL DAN EKTERNAL USAHATANI DALAM PEMBERDAYAAN PETANI INTEGRASI KOPI KAMBING DI SUMATERA UTARA**

EDISON PURBA , NEVY DIANA HANAFI

2023  
Artikel ilmiah

## **CLODESIS HAND SOAP GEL EKSTRAK OXALIS DEHRADUNENSIS R. SEBAGAI PRODUK INOVASI KESEHATAN DALAM MENURUNKAN RISIKO PAPARAN**

2021

Jurnal internasional bereputasi

**The Fourier Transform Infrared Spectroscopy from Diplazium esculentum and Rivina humilis Analysis to Reveals the Existence of Necessary Components in Oil Palm Plantations of Ganoderma boninense Control**

WISMAROH SANNIWATI BR SARAGIH , EDISON PURBA , DR LISNAWITA SP, MSI , MOHAMMAD BASYUNI

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2017

Jurnal nasional terakreditasi

**DISTRIBUSI DAN IDENTIFIKASI POPULASI SINTRONG (Crossocephalum crepidiodes.Benth) RESISTEN PARAKUAT PADA LAHAN JAGUNG (Zea mays) DI KABUPATEN DAIRI**

DR LISNAWITA SP, MSI , EDISON PURBA

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2019

Jurnal nasional terakreditasi

**Analisis Hara Cu dan Zn pada Vegetasi Gulma sebagai Penanda Keberadaan Jamur Ganoderma dari Kebun Kelapa Sawit**

EDISON PURBA , WISMAROH SANNIWATI BR SARAGIH

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2021

Prosiding seminar nasional

**Survey Vegetasi dan Penapisan Fitokimia Gulma di Perkebunan Kelapa Sawit**

WISMAROH SANNIWATI BR SARAGIH , MOHAMMAD BASYUNI , DR LISNAWITA SP, MSI , EDISON PURBA

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2025

Jurnal internasional bereputasi

**Vertical distribution of weed seed bank in three-year-old oil palm plantations**

EDISON PURBA

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2021

Jurnal internasional bereputasi

**Drought tolerance selection of GT1 rubber seedlings with the addition of polyethylene glycol (PEG) 6000**

YAYA HASANAH , MOHAMMAD BASYUNI , EDISON PURBA

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2018

Jurnal nasional terakreditasi

**Identification and Analysis of Weed Vegetation as Ganoderma Presence Marker on Oil Palm Plantation**

EDISON PURBA , WISMAROH SANNIWATI BR SARAGIH

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2024

Jurnal internasional

**Production and Quality of M2 Generations of Indigofera Zollingeriana Result from Gamma-Ray Irradiation as Animal Feed and its Effect on Soil Characteristics on Saline Soil**

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2023

Jurnal internasional bereputasi

**Physiological characteristics of IRR 400 series rubber clones (Hevea brasiliensis Muell. Arg.) under drought stress [version 4; peer review: 1 approved, 1 approved with reservations**

YAYA HASANAH , SYARIFAH AINI PASARIBU , EDISON PURBA , MOHAMMAD BASYUNI

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2024

Buku lainnya

**Peranan Tumbuhan Air Dalam Menyerap Logam Berat pada Lindi Tempat Pembuangan Akhir**

EDISON PURBA , IRHAMNI

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1996  
Jurnal internasional bereputasi

## **Growth and competitiveness of paraquat-resistant and -susceptible biotypes of *Hordeum leporinum***

EDISON PURBA

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2021  
Jurnal internasional bereputasi

## **The Fourier transform infrared spectroscopy from *Diplazium esculentum* and *Rivina humilis* analysis to reveals the existence of necessary components in oil palm plantations of *Ganoderma boninense* control**

MOHAMMAD BASYUNI , DR LISNAWITA SP, MSI , EDISON PURBA

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## **Researches**

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### **2025** **IDENTIFIKASI DAN MEKANISME RESISTENSI *Echinochloa crus-galli* TERHADAP HERBISIDA PENGHAMBAT ASETOLAKTAT SINTASE (ALS) DI KABUPATEN DELI SERDANG, SUMATERA UTARA**

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## **Community Services**

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### **2023** **PENGUJIAN EFIKASI HERBISIDA TEBAS 276 SL TERHADAP GULMA KELAPA SAWIT BELUM MENGHASILKAN**

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### **2024** **Pengujian Efikasi Herbisida Conductor 480 EC, Risun 89SC, Sable Plus 120 EW, dan Sunmax 500 SC pada Padi Sawah**

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## **Intellectual Property Rights**

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2021  
Hasil penelitian/pemikiran yang tidak dipublikasikan

### **LAPORAN AWAL POPULASI *Eleusine indica* RESISTEN-GLIFOSAT PADA PERKEBUNAN KELAPA SAWIT DI KABUPATEN BATU BARA FIRST REPORT OF GLYHPOSAT-RESISTANT *Eleusine indica* POPULATION ON**

EDISON PURBA

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2021  
Hasil penelitian/pemikiran yang tidak dipublikasikan

### **Studi Agroekologi dan Daya Efektifitas Beberapa Herbisida Terhadap *Syngonium podophyllum* Schott.**

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