Prof. Ir. T. Sabrina, M.Agr.Sc., Ph.D

Lecturer of Master's Program in Regional and Rural Development Planning Study Program
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Universitas Sumatera Utara

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Prof. Ir. T. Sabrina, M.Agr.Sc., Ph.D. was born in Medan on June 20, 1964. She is a lecturer in Agrotechnology at Universitas Sumatera Utara. She completed a Doctoral Program in Microbiology at UPM in 2007.

Publications

2026
Book chapter internasional
Advances in Agronomy
T SABRINA , DIAN FIANTIS , FRISA IRAWAN GINTING , Budiman Minasny

2026
Jurnal internasional bereputasi
Effect of Indigenous Phosphate-Solubilizing Bacteria on Phosphorus Availability and Shallot Productivity in Andisol
T SABRINA

2026
Book chapter internasional
Advances in Agronomy
T SABRINA , DIAN FIANTIS , FRISA IRAWAN GINTING , Budiman Minasny

2026
Jurnal internasional bereputasi
Impacts of agrivoltaic systems on soil properties and pedogenesis: A review
DIAN FIANTIS , AFFAN CHAHYAHUSNA , DYAH RETNO PANUJU , T SABRINA , Rudiyanto , Budiman Minasny , FRISA IRAWAN GINTING , BAMBANG HENDRO TRISASONGKO

2026
Prosiding seminar internasional
The use of biofertilizers to increase zinc content in rice plants
T SABRINA

2026
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The potential of tidal land and the availability of zinc nutrients to support increasing the productivity of rice plants
T SABRINA

2025
Jurnal internasional bereputasi
Soil Tillage and Application of Organic Materials on Oil Palm Plant Disc and Their Effects on Soil Properties
T SABRINA

2025
Jurnal internasional bereputasi
Soil Tillage and Application of Organic Materials on Oil Palm Plant Disc and Their Effects on Soil Properties
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T SABRINA , ZULKIFLI , DHIMAS WIRATMOKO , Budiman Minasny

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Book chapter internasional

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Cultural Tourism as a Catalyst for Rural Development: A Spatial-Econometric Study of a Tourism Village in North Sumatra, Indonesia

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Artikel ilmiah

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2024
Jurnal internasional bereputasi

Functional diversity of bacteria in various saline soil plant vegetations around Sialang Buah Coast, North Sumatra, Indonesia

MARIANI BR SEMBIRING , T SABRINA , LUTHFI AZIZ MAHMUD SIREGAR

2024
Jurnal nasional terakreditasi

Microbial phosphate solubilization mechanisms in P solubilizing in andisol

LUTHFI AZIZ MAHMUD SIREGAR , T SABRINA , ABDUL RAUF , AGUSTINA E BR MARPAUNG

2024
Jurnal internasional bereputasi

Study of Aromatic Plants on Cadmium Exposure Through Anatomical Structure, Shoot Root Ratio, Essential Oil and Heavy Metals

T SABRINA , YUSTINA SRI SULASTRI , MUKHLIS , REVANDY I M DAMANIK

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Jurnal nasional

MENGUBAH SAMPAH MENJADI PELUANG: MENDAUR ULANG PLASTIK DAN MENGOLAH SAMPAH RUMAH TANGGA

T SABRINA

2024
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using machine learning in detecting ganoderma disease in oil palm plants

MARDIANA WAHYUNI , MUKHLIS , T SABRINA

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Jurnal internasional bereputasi

EXAMINING THE USE OF SUBSOIL AS MEDIA FOR OIL PALM SEEDLINGS IN THE MAIN NURSERY

T SABRINA , MUKHLIS

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Jurnal nasional terakreditasi

Utilization of Actinomycetes to increase phosphate availability at different soil moisture conditions in Andisols Namanteran, North Sumatera

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Jurnal internasional bereputasi

Isolation and identification of phosphate solubilizing microbes in the rhizosphere of maize by sound exposure

ASRITANARNI MUNAR , MARIANI BR SEMBIRING , PROF DR IR AHMAD RAFIQI TANTAWI. MS , T SABRINA

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PROF DR IR AHMAD RAFIQI TANTAWI. MS , MARIANI BR SEMBIRING , T SABRINA , ASRITANARNI MUNAR

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The effect of dispensing biochar of palm oil empty bunches and palm oil fronds on the population of soil organisms

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Application of Vermicompost, Kasgot (BSF Compost), and Vermigot for growth and production of Pakchoy (Brassica rapa L.) in Ultisol

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MUKHLIS , T SABRINA

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Isolation and molecular characterization of potassium-solubilizing bacteria from limestone mountain of Bahorok, Langkat District, Indonesia

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The role of rhizosphere microbes as phosphate solubilizing bio fertilizers in shallot: a review

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Analysis the nutrient of bio-vermicompost with different techniques applications of some microbes and earthworms

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BINTANG , T SABRINA

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Potential of syncephalastrum racemosum and rhizopus arrhizus isolated from oil palm trunks produce chitosans that inhibit the growth of ganoderma boninense

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Effect of soil conditioner enriched with biofertilizers to improve soil fertility and maize (Zea mays L.) growth on andisols Sinabung area

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A resistance test of oil palm varieties (elaeis guineensis jacq.) In the saline soil with an adduction of humic acid

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Effect of sound treatment on phosphate solubilizing microbial activity

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Exploration and effectiveness test of the potassium solvent bacteria originating from limestone mountain of Bahorok Langkat

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P status of Andisol and Its correlation with P content of Arabica coffee leaves in Bener Meriah District

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Phosphate solubilizing microbes and coffee skin compost to increase robusta coffee plant growth in andisol of mount sinabung area

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Soil fauna diversity on the area with several treatments on the oil palm trunk

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Jurnal nasional

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Tulisan ilmiah

Hubungan Sifat Kimia Tanah (C, N, C/N dan K) dan Produksi Bawang Merah (Alliumascalonicum L.) di Daerah Tangkapan Air Danau Toba

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Jurnal internasional

Prospects for Sugar palm (Arenga pinnata MERR) Development for Food and Energy Security

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Jurnal nasional terakreditasi

PENGARUH METODE KONSERVASI PADA TANAMAN KELAPA SAWIT (Elaeis gueneensis Jacq) TERHADAP STATUS UNSUR HARA N, P, K DAN C-ORGANIK TANAH

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Jurnal nasional

The evaluation of soil chemistry and soil physic on understudied of camphor trees (Dryobalanops aromatica Colebr)

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2018
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POTENTIAL OF SEVERAL BIOMASS AS BIOCHAR FOR HEAVY METAL ADSORBENT

T SABRINA , ABDUL RAUF

2018
Prosiding seminar internasional

Biochar application for the improving soil fertility and paddy production on two systems of planting

T SABRINA

2018
Prosiding seminar internasional

Population dynamics of Azotobacter sp., Azospirillum sp., Bacillus subtilis, Talaromyces pinophilus, Trichoderma asperellum, and Syncephalastrum racemosum in the medium withÃ‚Â …

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Prosiding seminar internasional

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Researches

2023
Penelitian Unggulan Perguruan Tinggi

Potensi limbah pabrik teh sebagai pengganti topsoil untuk media pertumbuhan bibit sawit

MARIANI BR SEMBIRING , T SABRINA

2022
Penelitian Kompetensi

PENGUKURAN POTENSI PUPUK ORGANIK YANG DIPERKAYA MIKROBA UNGGUL PELARUT P, PELARUT KALIUM, PENAMBAT N NON SIMBIOTIK UNTUK MENINGKATKAN KUALITAS TANAH DAN PRODUKSI TANAMAN

BENNY HIDAYAT , MARIANI BR SEMBIRING , T SABRINA

2021
Ipteks

PERTUMBUHAN BIBIT ASAM GELUGUR (Garcinia atroviridis Griff ex T. Anders) PADA BERBAGAI MEDIA TANAM DAN APLIKASI EKSTRAK DAUN KETAPANG (Terminalia catappa)

MARIANI BR SEMBIRING , T SABRINA , T IRMANSYAH

2021
Penelitian Dosen Pemula

Kajian Kualitas Pupuk Hayati Bio-Vermigot (Vermikompos dan Kasgot)

NINI RAHMAWATI , NUR ULINA WARNISYAH SEBAYANG , T SABRINA

2021
Penelitian Unggulan Perguruan Tinggi

Pengukuran potensi mikroba pelarut fosfat yang bersumber dari Andisol terdampak Erupsi Gunung Sinabung sebagai pupuk hayati

MARIANI BR SEMBIRING , T SABRINA

2020
Penelitian Kompetensi

Eksplorasi Mikroba Penambat Nitrogen dan penghasil hormone tumbuh yang bersumber dari Andisol terdampak Erupsi Gunung Sinabung.

MARIANI BR SEMBIRING , T SABRINA

2020
Penelitian Dana Lokal Perguruan Tinggi

Uji kualitas biochar Hasil Metode Klin dan Retort pada Beberapa Biomassa

BENNY HIDAYAT , MARIANI BR SEMBIRING , T SABRINA , BINTANG

2020
Penelitian Unggulan Perguruan Tinggi

Pengukuran potensi mikroba pelarut fosfat yang bersumber dari Andisol terdampak Erupsi Gunung Sinabung sebagai pupuk hayati

MARIANI BR SEMBIRING , T SABRINA

2020
Penelitian Kompetensi

Eksplorasi Mikroba Penambat Nitrogen dan penghasil hormone tumbuh yang bersumber dari Andisol terdampak Erupsi Gunung Sinabung.

MARIANI BR SEMBIRING , T SABRINA

2019
Penelitian Kompetensi

KAJIAN INTERAKSI MIKROBA PELARUT FOSFAT DAN KULIT KOPI UNTUK MENINGKATKAN PERTUMBUHAN TANAMAN KOPI (Coffees sp) PADA ANDISOL TERDAMPAK ERUPSI GUNUNG SINABUNG

MARIANI BR SEMBIRING , T SABRINA , MUKHLIS

2018
Penelitian Dana Lokal Perguruan Tinggi

PEMBENAH TANAH YANG DI PERKAYA AGEN HAYATI UNTUK MENINGKATKAN KUALITAS TANAH DAN PERTUMBUHAN TANAMAN JAGUNG (Zea mays) PADA ANDISOL TERDAMPAK ERUPSI GUNUNG SINABUNG

MARIANI BR SEMBIRING , T SABRINA , MUKHLIS

Community Services

2024

Edukasi Penerapan Sistem Sertifikasi Halal Pada Usaha Mikro Kecil dan Menengah (UMKM) Menuju Usaha Yang Berkelanjutan dan Kompetitif

T SABRINA

2023
Ipteks

Literasi Halal Terhadap Islamic Branding dan Islamic Advertising Dalam Minat Konsumsi Produk Halal di Masyarakat

T SABRINA , ERI YUSNI

2022
Ipteks Bagi Masyarakat

PEMBERDAYAAN IPTEK DAN PEMANFAATAN JAMUR Synchepalastrum racemosum ASAL ISOLAT BATANG SAWIT SEBAGAI CHITOSANES UNTUK MENINGKATKAN TANAMAN BUAH PADA DESA SEI. KOPAS KISARAN

T SABRINA , RINI HARDIYANTI , HARRY AGUSNAR

2021

Iptek budidaya nipah (Nypa frutican wurmb) di Desa Pulau Sembilan Kecamatan Pangkalan Susu

T SABRINA , ORANG KAYA HASNANDA SYAHPUTRA , T IRMANSYAH

2021
Ipteks

Iptek Budidaya Nipah .(Nypa fruticans wurmb) di Desa Pulau Sembilan Kecamatan Pangkalan Susu Kabupaten Langkat Propinsi Sumatera Utara

T SABRINA , T IRMANSYAH

2021
Ipteks

Pelatihan Pembuatan Biovermi untuk Menambah Penjualan Pupuk Koperasi Berkah Abadi Jaya di Desa Lubuk Cuik Kecamatan Lima Puluh Serta Mewujudkan Pertanian Cabai Organik

MARIANI BR SEMBIRING , T SABRINA , T IRMANSYAH

2019
Ipteks Bagi Masyarakat

PENINGKATAN DAYA DUKUNG LAHAN JAGUNG MELALUI APLIKASI TEKNOLOGI TERPADU

LUTHFI AZIZ MAHMUD SIREGAR , MARIANI BR SEMBIRING , LISA MAWARNI , T SABRINA

2019
Ipteks Bagi Masyarakat

IPTEK PENGEMBANGAN DAN PEMASARAN KOMPOS RHIZOCULANT PRODUK UNIVERSITAS SUMATERA UTARA SEBAGAI MEDIA TANAM JAMBU AIR MADU DI KECAMATAN STABAT

BENNY HIDAYAT , MARIANI BR SEMBIRING , T SABRINA , MUKHLIS

2018
Ipteks Bagi Masyarakat

IPTEK PUPUK HAYATI RHIZOCULANT PRODUKSI UNIVERSITAS SUMATERA UTARA PADA TANAMAN JAMBU AIR MADU DI KECAMATAN SETABAT KABUPATEN LANGKAT

MARIANI BR SEMBIRING , T SABRINA , MUKHLIS

2013

DEMPLOT TEKNIK BUDIDAYA MENTIMUN DAN APLIKASI PUPUK ORGANIK PENINGKATAN KESUBURAN TANAH

LUTHFI AZIZ MAHMUD SIREGAR , BENNY HIDAYAT , LISA MAWARNI , T SABRINA

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Sistem Informasi Pemupukan

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2025
Paten nasional

Sistem Informasi Pemupukan

Budiman Minasny , RETNADI HERU JATMIKO , T SABRINA , RADEN IBNU ROSYADI , DHIMAS WIRATMOKO

2023
Paten nasional

penelitian dan pengabdian

T SABRINA

2023
Paten nasional

Aplikasi Support Vector Machine Pada Deteksi Penyakit Busuk Pangkal Batang Ganoderma Tanaman Kelapa Sawit

T SABRINA , MUKHLIS

2021
Paten nasional

TEKNOLOGI UNTUK MENINGKATKAN KESUBURAN TANAH ANDISOL DENGAN MEMANFAATKAN BAKTERI DAN JAMUR PELARUT FOSFAT.

T SABRINA , MARIANI BR SEMBIRING

2021
Paten nasional

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T SABRINA , ASMARLAILI SAHAR

2021
Paten nasional

Burkholderia cepacia SEBAGAI PUPUK HAYATI PELARUT FOSFAT SPESIFIK LINGKUNGAN PADA TANAH ANDISOL

MARIANI BR SEMBIRING , T SABRINA

2020
Paten nasional

proses perolehan actinomycetes terbaik yang mampu melarutkan fosfat sebagai pupuk hayati untuk meningkatkan kualitas tanah andisol

T SABRINA

2015
Hasil penelitian/pemikiran yang tidak dipublikasikan

Rekayasa Horizon Spodik Tanah Spodosol Sub Group Typic Placorthod pada Budidaya Kelapa Sawit (Elaeis guineensis Jacq.) di Kabupaten Barito Timur Propinsi...

T SABRINA

2013
Hasil penelitian/pemikiran yang tidak dipublikasikan

Respon Sifat Kimia, Bio-Kimia Tanah Sawah, Serapan Hara dan Produksi Tanaman Padi (Oryza Sativa, L) terhadap Pemberian Jerami pada Sistem Tanam Budidaya Lokal dan PengelolaanÃ‚Â …

T SABRINA

2003
Hasil penelitian/pemikiran yang tidak dipublikasikan

Klorofil Daun Angsana dan Mahoni Sebagai Bioindikator Pencemaran Sulfur Dioksida dan Nitrogen Dioksida di Kota Medan

T SABRINA