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Dr. Ir. Mukhlis, M.Si., born in Medan on January 02, 1962, is an Agrotechnology lecturer at the Universitas Sumatera Utara with expertise in soil science.

Education Profile:

- Bachelor's degree from the Universitas Sumatera Utara (USU).

- Master graduate from Institut Pertanian Bogor (IPB)

- Doctoral degree from the Universitas Sumatera Utara (USU).

With a comprehensive educational background, Dr. Ir. Mukhlis has contributed to developing agrotechnology science, especially in understanding and managing soil aspects. His profile reflects his dedication to soil science education, research, and practice to support agricultural sustainability at the Universitas Sumatera Utara.

Publications

2023

Jurnal nasional

Feasibility Study: Kapah Clam (*Meretrix lyrata*) Consumption Based on the Amount of Heavy Metal Lead (Pb) in Pulau Labu, Deli Serdang Regency

MUKHLIS

2024

Artikel ilmiah

Using Machine Learning in Detecting Ganoderma Disease in Oil Palm Plants

MUKHLIS

2023

Buku referensi

Biochar : arang hitam pembenah tanah pertanian

BENNY HIDAYAT , MUKHLIS

2024

Jurnal internasional bereputasi

using machine learning in detecting ganoderma disease in oil palm plants

MARDIANA WAHYUNI , MUKHLIS , T SABRINA

2024

Jurnal nasional terakreditasi

Characteristics and classification of the peat at Toba Highland, North Sumatera, Indonesia

SARIFUDDIN , MUKHLIS , ESTER JULIANA SITOANG

2020

Jurnal internasional bereputasi

Phosphate solubilizing microbes and coffee skin compost to increase Robusta coffee plant growth in Andisol of Mount Sinabung Area

MARIANI BR SEMBIRING , T SABRINA , MUKHLIS

2020

Jurnal internasional bereputasi

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

MUKHLIS , MARIANI BR SEMBIRING , T SABRINA

2025

Jurnal nasional terakreditasi

Entrepreneur Diffable (Entredif) Training to Support the Economy and Welfare of the Disability Community

MUKHLIS

2023

Jurnal nasional terakreditasi

The Management of Pusong Reservoir, Lhokseumawe City, Based on the Suspended Sediment Discharge

MUKHLIS

2022

Jurnal internasional bereputasi

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

MUKHLIS

2025

Jurnal nasional terakreditasi

Pengaruh Intensitas Naungan dan Konsentrasi Giberelin Terhadap Pertumbuhan Fase Vegetatif Porang (*Amorphophallus muelleri*)

YAYA HASANAH , MUKHLIS

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

2023

Prosiding seminar internasional

<https://drive.google.com/file/d/12hnnqyiFjoCHe75AcdrSE6V5uO5G32wL/view?usp=sharing>

MUKHLIS , T SABRINA

2023

Monograf

Analysis of Vegetation Index of Oil Palm Plants infected with Ganoderma Disease

MUKHLIS

2024

Artikel ilmiah

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

MUKHLIS

2025

Jurnal nasional

Studi Perbandingan Aplikasi Silikat dan Mikroba Pelarut Fosfat untuk Mengurangi Rentensi Fosfor serta Meningkatkan Pertumbuhan Tanaman Jagung (*Zea mays* L.) pada Andisol.

MUKHLIS , MARIANI BR SEMBIRING

2026

Jurnal nasional terakreditasi

The Effect of Candlenut Shell Ash and Biochar and NPK Fertilization on Corn (*Zea mays* L.) Growth and Production

SARIFUDDIN , MUKHLIS

2021
Jurnal internasional bereputasi

Soil macrofauna diversity in andisol after eight years of Mount Sinabung eruption in Sumatra, Indonesia

BENNY HIDAYAT , MUKHLIS , T SABRINA , MARIANI BR SEMBIRING , HIDAYATUL MUNAWAROH

2022
Monograf

Carbon dioxide (CO₂) emissions on highland peatland that has been planted with coffee in Humbang Hasundutan Regency, North Sumatra Province

MUKHLIS

2025
Jurnal nasional terakreditasi

Neutralization of Galena Acid Mine Water Using CaO and CaCO₃ at PT Berkat Bhinneka Perkasa

MUKHLIS

2024
Makalah ilmiah

Soil classification based on morphology characteristic in multicropping land at Sawit Rejo Village, Kutalimbaru District, Deli Serdang Regency

MUKHLIS

2024
Jurnal internasional bereputasi

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

T SABRINA , MUKHLIS

Researches

2021
Pendidikan Magister Doktor Sarjana Unggul

Kajian Karakteristik Gambut Dataran Tinggi dan Gambut Dataran Rendah di Sumatera Utara

SARIFUDDIN , MUKHLIS

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

2018
Ipteks Bagi Masyarakat

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

2024

Pengurus Badan Kesejahteraan Masjid

MUKHLIS

2024

Ipteks Bagi Masyarakat

Panitia Pelaksana Ibadah Qurban Tahun 2024M/1445H Pada Masjid Al MuhajirinPerum S. M. PermaiKomplek DEPAGSU Desa Mulyo rejo

MUKHLIS

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

2023

Pemberdayaan Petani Melon Dalam Meningkatkan Perekonomian Masyarakat Di Desa Pasar Rawa

AMEILIA ZULIYANTI SIREGAR , ZULKIFLI , RENITA MANURUNG , MUKHLIS

2025

Ipteks Bagi Masyarakat

Serikat Tolong Menolong (STM)

MUKHLIS

Intellectual Property Rights

2024

Paten nasional

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

T SABRINA , MUKHLIS

2024

Paten nasional

Biochar: Arang Hitam Pembenh Tanah Pertanian

MUKHLIS , Benny Hidayat