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*Prof. Dr. Ir. Rosmayati, M.S., born in Tebing Tinggi on October 17, 1958, is a lecturer at the Agrotechnology Study Program of the Universitas Sumatera Utara. Her main expertise is plant breeding. Prof. Rosmayati completed her doctoral degree in Agronomy at Institut Pertanian Bogor (IPB) in 2005. With a strong educational background, Prof. Rosmayati has contributed to the development of agricultural science through research, teaching, and plant breeding practices.*

## Publications

2015

Prosiding seminar internasional

### **Response the Growth of Paddy Local Ramos Due to Irradiasi Gamma Rays in the Seedbed**

ROSMAYATI , SRI UTAMI

2023

Jurnal nasional terakreditasi

### **Analisis Pertumbuhan Tanaman Porang dan Pemberian Fitosan dan Kompos Jerami Padi di Lahan Salin**

NINI RAHMAWATI , KURNIA SELEKTA ETIKA HAREFA , ROSMAYATI

2024

Prosiding seminar nasional

### **Introduksi Teknologi Pertanian Ramah Lingkungan Berbasis Reuse, Reduce Dan Recycle (3r) Dalam Meningkatkan Pendapatan Petani Jamur Tiram Di Desa Sei Beluru Kabupaten Asahan**

TATI VIDIANA SARI , NINI RAHMAWATI , ROSMAYATI

2024

Jurnal internasional bereputasi

### **GENETIC DIVERSITY AND TOLERANCE ASSESSMENT OF RICE VARIETIES TO MERCURY CONTAMINATION IN ILLEGAL GOLD MINING AFFECTED AREAS: A CASE STUDY IN MANDAILING NATAL REGENCY, NORTHSUMATRA, INDONESIA**

VITRI RENNY TRIYANTI , ROSMAYATI

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

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

2018

Prosiding seminar internasional

## **Proline Content Variation in Some Rice Varieties Under Salinity Stress**

DAFNI MAWAR TARIGAN , WAN ARFIANI BARUS , ABDUL RAUF , ROSMAYATI , CHAIRANI HANUM L

2024

Jurnal internasional bereputasi

## **Growth and Essential Oil Production of Vetiver Plants Under Salinity Condition with Salicylic Acid and Mycorrhiza Application**

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

2020

Prosiding seminar internasional

## **Pineapple callus induction from Sipahutar North Sumatera Indonesia (Ananas comosus L.) with bud as a source explant**

ROSMAYATI

2024

Prosiding seminar internasional

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

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

2024

Prosiding seminar internasional

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

LUTHFI AZIZ MAHMUD SIREGAR , ROSMAYATI , AISAR NOVITA

2023

Prosiding seminar nasional

## **Evaluasi Ekotipe Akar Wangi Terhadap Pertumbuhan pada Berbagai Tingkat Salinitas**

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

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

## **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

2018

Prosiding seminar internasional

## **Differences in morphology and sugar content of purple sweet potato (Ipomoea batatas L.) with potassium treatment at several altitudes**

ROSMAYATI , LUTHFI AZIZ MAHMUD SIREGAR

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 internasional bereputasi

## **Genetic Diversity and Tolerance Assessment of Rice Varieties to Mercury Contamination in Illegal Gold Mining Affected Areas: A Case Study in Mandailing Natal Regency, North Sumatra, Indonesia**

REVANDY I M DAMANIK , ROSMAYATI , MOHAMMAD BASYUNI , VITRI RENNY TRIYANTI

2024

Prosiding seminar internasional

## **Distribution and source of contamination of heavy metal mercury at paddy**

## field in Mandailing Natal Regency, North Sumatera, Indonesia

REVANDY I M DAMANIK , ROSMAYATI , MOHAMMAD BASYUNI

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

Prosiding seminar internasional

### **The ability of pineapple callus regeneration (ananas comosusl.) from sipahutar north sumatra indonesia with in vitro culture**

ROSMAYATI

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

2016

Jurnal nasional

### **Uji Perbedaan Sistem Jajar Legowo Terhadap Beberapa Varietas Padi (Oryza sativa L.) Pada Lahan Sawah Tadah Hujan**

LISA MAWARNI , ROSMAYATI

2023

Jurnal internasional bereputasi

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

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

## Researches

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2015

Penelitian Fundamental

### **PERBAIKAN KARAKTER PROGENI KEDELAI TOLERAN SALINITAS BERDAYA HASIL TINGGI**

ROSMAYATI

2024

Penelitian Fundamental

### **FITHOREMEDIASI SAWAH TERCEMAR MERKURI UNTUK MENGURANGI KANDUNGAN MERKURI PADA BULIR PADI SAWAH DI KABUPATEN MANDAILING NATAL.**

NINI RAHMAWATI , ROSMAYATI

2018

Penelitian Dana Lokal Perguruan Tinggi

### **UJI POTENSI DAN DAYA ADAPTASI UBI JALAR DENGAN KANDUNGAN BETA KAROTEN TINGGI TERHADAP HAMA BOLENG DI DATARAN RENDAH**

ROSMAYATI

2016

Penelitian Unggulan Perguruan Tinggi

### **PENINGKATAN KETAHANAN KEDELAI TERCEKAM SALINITAS TERHADAP STRES OKSIDATIF MELALUI APLIKASI ANTIOKSIDAN EKSOGENOUS**

NINI RAHMAWATI , ROSMAYATI , REVANDY I M DAMANIK

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

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2019

Penelitian Dana Lokal Perguruan Tinggi

### **ANALISIS AKTIVITAS ENZIM ANTIOKSIDAN DAN KUALITAS HASIL UBI JALAR LOKAL PADA KONDISI STRESS KEKERINGAN DI LAHAN SAWAH TADAH HUJAN**

NINI RAHMAWATI , ROSMAYATI , RATNA ROSANTI LAHAY

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2023

### **Perbaikan Genetik Kultivar Padi Gogo Lokal Aceh Timur melalui Iradiasi Sinar Gamma dalam Upaya Perakitan Padi Gogo Unggul**

ROSMAYATI

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## **Community Services**

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2022

Ipteks Bagi Masyarakat

### **Introduksi Teknologi Pertanian Ramah Lingkungan Berbasis Reuse, Reduce dan Recycle (3R) dalam Meningkatkan Pendapatan Petani Jamur Tiram di Desa Sei Beluru**

NINI RAHMAWATI , ROSMAYATI , TATI VIDIANA SARI

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2014

### **IbM INDUSTRI KECIL JAMUR TIRAM DAN PETANI JAMUR TIRAM TRADISIONAL**

ROSMAYATI , MAIMUNAH SIREGAR , DR LISNAWITA SP, MSI

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2021

Ipteks Bagi Masyarakat

### **Peningkatan Kemandirian Anak Berkebutuhan Khusus Melalui Integrated Farming System**

NINI RAHMAWATI , ROSMAYATI , TATI VIDIANA SARI

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