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## Publications

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2026

Jurnal internasional bereputasi

### **Potential of Sumatran Frankincense (*Styrax benzoin*) In Vitro Technique for Producing Bioactive Alkaloids as a Strategy to Maintain the Preservation of Forest Plants**

ISNAINI NURWAHYUNI , RIYANTO SINAGA , MANIHAR SITUMORANG

2023

Prosiding seminar internasional

### **Micropropagation of Sumatran Frankincense (*Styrax benzoin*) Forest Plants Producing Bioactive Raw Materials for Medicine**

ISNAINI NURWAHYUNI , RIYANTO SINAGA , MANIHAR SITUMORANG

2022

Prosiding seminar internasional

### **Selection of Good Quality Mother Plant to Be Used as Sources of Explants for in Vitro Propagation of Sumatera Benzoin (*Styrax Benzoin Dryander*)**

RIYANTO SINAGA

2022

Prosiding seminar internasional

### **Optimization of micropropagation technique for propagation of Sumatra benzoin (*Styrax benzoin*) as a step to produce good quality seedlings for conservation of** ...

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### **Optimization of micropropagation technique for propagation of Sumatra benzoin (*Styrax benzoin*) as a step to produce good quality seedlings for conservation of forest plants producing medicines raw materials**

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### **Optimization of micropropagation technique for propagation of Sumatra benzoin (*Styrax benzoin*) as a step to produce good quality seedlings for conservation of** ...

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2020

Jurnal nasional

### **PENERAPAN TEKNOLOGI PENJERNIHAN AIR DENGAN BANTUAN TENAGA**

# SURYA DAN ANTIMIKROBA KEPADA MASYARAKAT DESA TANJUNG SELAMAT KECAMATAN SUNGGAL KABUPATEN DELI SERDANG

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2020

Jurnal internasional

## **Physiological Response of Three Varieties of Cayenne Pepper (*Capsicum Frutescens*) To Decreased Water Availability**

SUCI RAHAYU , RIYANTO SINAGA

2020

Jurnal internasional bereputasi

## **Plant Regeneration through Callus Cultures from Leaf Explant of Sumatra Benzoin (*Styrax benzoin*)**

RIYANTO SINAGA , MANIHAR SITUMORANG , ISNAINI NURWAHYUNI

2020

Buku referensi

## **Biologi Dasar**

RIYANTO SINAGA

2019

Jurnal nasional

## **Utilization of plastic waste into fuel (fuel oil) in Namo Bintang Village, Deli Serdang Regency**

RIYANTO SINAGA

2018

Jurnal internasional bereputasi

## **In vitro propagation of threatened Brastagi citrus variety Brastepu (*Citrus nobilis* Brastepu) CVPD free through shoot tips subculture**

RIYANTO SINAGA

2026

Prosiding seminar internasional

## **Optimization of micropropagation technique for propagation of Sumatra benzoin (*Styrax benzoin*) as a step to produce good quality seedlings for conservation of forest plants**

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## **Optimization of micropropagation technique for propagation of Sumatra benzoin (*Styrax benzoin*) as a step to produce good quality seedlings for conservation of forest plants**

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Buku lainnya

## **Modul Praktikum Mikroteknik Tumbuhan**

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## **Screening of secondary metabolite compounds of medicinal raw materials in Sumatran Frankincense (*Styrax benzoin*) cultures**

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## **Researches**

2025

Penelitian Fundamental

## **Protokol teknik kultur jaringan kemenyan Sumatra (*Styrax benzoin*) untuk**

## **memproduksi senyawa bioaktif bahan baku obat**

RIYANTO SINAGA , MANIHAR SITUMORANG , ISNAINI NURWAHYUNI

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2021

Penelitian Unggulan Perguruan Tinggi

### **Mikropropagasi Kemenyan Sumatrana (*Styrax benzoin*) Untuk Menghasilkan Bibit Berkualitas Baik Sebagai Strategi Meningkatkan Produksi Getah Kemenyan Bahan Baku Obat**

RIYANTO SINAGA , MANIHAR SITUMORANG , ISNAINI NURWAHYUNI , HASIANNA SIMORANGKIR , KRISTINA NATALIA NAINGGOLAN

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2021

Penelitian Dana Lokal Perguruan Tinggi

### **RESPON VETIVER (*Vetiveria zizanoides* Linn.) AKIBAT SALINITAS TANAH BERDASARKAN KARAKTERISTIK MORFOFISIOLOGI**

RIYANTO SINAGA , SUCI RAHAYU , DESI KASNAWATI POHAN , OPA RAHMADANI MANURUNG

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2020

### **Perbanyak In Vitro Kemenyan Sumatera (*Styrax benzoin* Dryander) Untuk Menyediakan Bibit Unggul Penghasil Bioaktif Bahan Obat**

RIYANTO SINAGA , MANIHAR SITUMORANG , ISNAINI NURWAHYUNI , SITI NAFIK RAHMAWATI , SILVIA , ELYA MANIK

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2019

Penelitian Dana Lokal Perguruan Tinggi

### **Morfologi Rumput Vetiver (*Vetiveria zizanoides* L. Nash) pada beberapa Cekaman Kadar Air Tanah**

RIYANTO SINAGA , SUCI RAHAYU , ICHA ALFINA , ADE YULIA SIREGAR

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2016

Penelitian Hibah Bersaing

### **Peningkatan Fasilitas yang Menarik Minat Pengguna Berkunjung ke Perpustakaan Berbasis Eco-Library**

RIYANTO SINAGA , HIMMA DEWIYANA LUBIS

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2015

Penelitian Unggulan Perguruan Tinggi

### **Strategi Biokonservasi Jeruk Keprok Brastagi (*Citrus nobilis* Brastepu) Menggunakan**

RIYANTO SINAGA , ISNAINI NURWAHYUNI

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2014

Penelitian Fundamental

### **Strategi Biokonservasi Jeruk Keprok Brastagi (*Citrus nobilis* Brastepu) Menggunakan**

RIYANTO SINAGA , ISNAINI NURWAHYUNI

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2013

Penelitian Fundamental

### **Keanekaragaman dan aspek taksonomi marga Pandanus Sumatera**

RIYANTO SINAGA , NURSAHARA PASARIBU

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## **Community Services**

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2024

Ipteks Bagi Wilayah

### **Pengurus Ikatan Alumni (IKA) USU Wilayah Sumatera Utara**

TENGGU ERRY NURADI , RIYANTO SINAGA

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2023

Ipteks Bagi Masyarakat

### **Pelatihan Pembuatan Herbarium Tanaman Sebagai Salah Satu Pengembangan Media Pembelajaran Biologi Berbasis Lingkungan Di SMA Swasta HKBP Sidorame Medan**

2022

## **Ikatan Alumni Universitas Sumatera Utara**

RIYANTO SINAGA , SURYATI SITEPU

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2019

Ipteks Bagi Masyarakat

## **Pemanfaatan Sampah Plastik menjadi BBM (Bahan Bakar Minyak) di Desa Namo Bintang Kabupaten Deli Serdang**

MAYANG SARI YEANNY , RIYANTO SINAGA

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2018

Ipteks Bagi Masyarakat

## **Pemanfaatan Sampah Plastik di Desa Namo Bintang Kabupaten Deli Serdang**

MAYANG SARI YEANNY , RIYANTO SINAGA

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2016

## **Peningkatan Kesadaran Dini Siswa Tentang Kelestarian Fungsi Lingkungan Hidup**

ELIMASNI , SALOMO HUTAHAEAN , ERNI JUMILAWATY , RIYANTO SINAGA , HESTI WAHYUNINGSIH

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Paten nasional

## **PROSES ISOLASI TERPENOID BERKHASIAT OBAT DARI KULTUR KALUS KEMENYAN SUMATRA (Styrax benzoin)**

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