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*Dr. Yurnaliza S.Si., M.Si. dilahirkan di Pekanbaru pada tanggal 18 Juli 1971 merupakan seorang dosen Biologi di Universitas Sumatera Utara. Beliau menyelesaikan jenjang Doktorat di Program Studi Biologi Institut Teknologi Bandung tahun 2015.*

## Publications

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2022

Jurnal internasional bereputasi

### **Chemical Profiling of Volatile Metabolites and Anticancer Activity of Brianthein W, a Diterpene Produced by Hypomontagnella Monticulosa with Osmac-Based Approaches**

YURNALIZA , MOHAMMAD BASYUNI , ERMAN MUNIR , SOVIA LENNY

2022

Jurnal nasional terakreditasi

### **Effect of Incubation Time on Amylase Enzyme Activity in Sticky Rice Tape**

YURNALIZA

2020

Jurnal internasional bereputasi

### **Colonization of trichoderma Spp. in Rhizome of five zingiberaceous species from North Sumatra, Indonesia**

YURNALIZA , ERMAN MUNIR

2020

Prosiding seminar internasional

### **Village Community Empowerment with Integrated Waste Processing at Namo Bintang Village Deli Serdang Regency**

ISNAINI NURWAHYUNI , YURNALIZA , MAYANG SARI YEANNY

2023

Jurnal internasional bereputasi

### **Diversity of Cellulolytic Bacteria from the Digestive Tract of Oryctes rhinoceros Larvae**

ERMAN MUNIR , YURNALIZA , AHMAD FAISAL NASUTION , DWI SURYANTO

2021

Jurnal internasional bereputasi

### **Screening of endophytic fungi from oil palm (Elaeis guineensis) in producing exopolysaccharides**

YURNALIZA , IT JAMILAH

2024

Jurnal internasional bereputasi

### **Chemical profiling of fungal metabolites via the OSMAC approach: Novel identification of Brianthein W from an endophytic fungus, Hypomontagnella monticulosa Zg15SU**

YURNALIZA , ERMAN MUNIR

2020

Prosiding seminar internasional

## **A Survey on *Aspergillus chevalieri* Infection Isolated from Poultry Feed**

YURNALIZA , KIKI NURTJAHJA

2021

Jurnal internasional bereputasi

## **Chitinase and antifungal activity of endophytic fungi isolated from *Hedychium Coronarium J. Koenig***

ERMAN MUNIR , YURNALIZA

2021

Jurnal internasional bereputasi

## **Chemical analysis and anticancer activity of sesterterpenoid from an endophytic fungus *Hypomontagnella monticulosa* Zg15SU and its host *Zingiber griffithii* Baker**

MOHAMMAD BASYUNI , ERMAN MUNIR , YURNALIZA

2022

Jurnal nasional terakreditasi

## **Quality of Effective Microorganisms-based Liquid Fertilizer from Fermented Papaya Fruits (*Carica papaya* L.)**

YURNALIZA , ISNAINI NURWAHYUNI

2021

Prosiding seminar internasional

## **Antifungal activity and IAA production by endophytic fungi isolated from *Elettaria sp***

ERMAN MUNIR , YURNALIZA

2021

Jurnal nasional terakreditasi

## **Bioprospecting of Chitinolytic Diazotroph Rhizospheric Bacterial Isolated From *Mucuna bracteata* as Biocontrol Against *Ganoderma boninense***

YURNALIZA

2019

Prosiding seminar internasional

## **Screening of antagonistic fungi from *Etlingera littoralis* (J.Koenig) Giseke rhizome in Sibolangit Forest, North Sumatra**

MOHAMMAD BASYUNI , YURNALIZA , ERMAN MUNIR

2017

Prosiding seminar internasional

## **Preparation and Characterization of Cellulose Microcrystalline (MCC) from Fiber of Empty Fruit Bunch Palm Oil**

HALIMATUDDAHLIANA , YURNALIZA

2011

Prosiding seminar nasional

## **Peran Bakteri Endofit Penghasil IAA (Indole Acetic Acid) Terseleksi Terhadap Pertumbuhan Tanaman Padi (*Oryza sativa* L.)**

NUNUK PRIYANI , YURNALIZA

2019

Artikel ilmiah

## **Antagonistic Endophytic Fungi of *Hedychium coronarium* J. Koenig from Hutan Sibayak and Taman Hutan Raya, North Sumatra against *Staphylococcus aureus* ATCC 29213TM**

YURNALIZA , ERMAN MUNIR

2023

Jurnal internasional bereputasi

## **Fungal Contamination and Characterization of *Aspergillus flavus* on Poultry Feeds and their Ingredients in North Sumatera**

2025

Jurnal nasional

**Pengelolaan Biomassa Kayu Menjadi Biobriket dengan Teknologi Pirolisis sebagai Sumber Energi Terbarukan di Desa Kelambir, Kecamatan Pantai Labu, Provinsi Sumatera Utara**

RISMA FAZILLAH , ROSDANELLI HASIBUAN , JULIZA HIDAYATI , MUHAMMAD THORIQ AL FATH. , DINI WAHYUNI , RIVALDI SIDABUTAR , YURNALIZA

2019

Prosiding seminar internasional

**Antibacterial Ability of Endophytic Bacteria Isolated from Kemenyan (*Styrax benzoin L.*)**

DWI SURYANTO , YURNALIZA

2020

Prosiding seminar internasional

**Control of pests in saline paddy of Percut, Northern Sumatera**

AMEILIA ZULIYANTI SIREGAR , YURNALIZA

2025

Hasil penelitian/pemikiran yang tidak dipublikasikan

**Laporan pengabdian Masyarakat Desa Binaan: PENGELOLAAN LINGKUNGAN SEHAT, BERSIH DAN NYAMAN DENGAN PENERAPAN TEKNOLOGI PROSES PENGOLAHAN SAMPAH MENJADI PRODUK KOMERSIAL DAN PEMANFAATAN ECO ENZYME MENJADI PRODUK SABUN PADAT UNTUK MENINGKATKAN PENDAPATAN MASYARAKAT DESA PADANG TUALANG KECAMATAN PADANG TUALANG KABUPATEN LANGKAT**

YURNALIZA

2021

Jurnal internasional bereputasi

**Antagonistic Activity of Endophytic Fungi Isolated from *Globba patens* Miq. Rhizome against Human Pathogenic Bacteria**

MOHAMMAD BASYUNI , YURNALIZA , ERMAN MUNIR

2023

Prosiding seminar nasional

**Screening of Phosphate-Solubilizing Fungi from Oil Palm Rhizosphere**

YURNALIZA , NUNUK PRIYANI

2014

Jurnal internasional

**Antagonistic activity assessment of fungal endophytes from oil palm tissues against *Ganoderma boninense* Pat.**

YURNALIZA

2018

Prosiding seminar internasional

**Antibacterial activity of cinnamon ethanol extract (*cinnamomum burmannii*) and its application as a mouthwash to inhibit streptococcus growth**

YURNALIZA , DWI SURYANTO

2022

Prosiding seminar internasional

**Potential of cellulolytic fungi isolated from the intestine of Asiatic rhinoceros beetle (*Oryctes rhinoceros*)**

AHMAD FAISAL NASUTION , ERMAN MUNIR , DWI SURYANTO , YURNALIZA

2018

Prosiding seminar internasional

**Decolorization of batik naphthol dye by local ligninolytic fungal isolates**

ERMAN MUNIR , NUNUK PRIYANI , YURNALIZA

2022

## **Isolation and Characterization of Phosphate Solubilizing Activity of Endophytic Fungi from Zingiberaceous Species**

YURNALIZA , ERMAN MUNIR

2019

Jurnal internasional

## **The Effect of Cobalt on Immobilized D-Psicose 3-Epimerase Activity in Ca-Alginate Beads**

YURNALIZA

2017

Prosiding seminar internasional

## **Preparation and Characterization of Cellulose Microcrystalline (MCC) from Fiber of Empty Fruit Bunch Palm Oil**

YURNALIZA , HALIMATUDDAHLIANA

2001

Artikel ilmiah

## **Senyawa Khitin Dan Kajian Aktivitas Enzim Mikrobial Pendegradasinya**

YURNALIZA

2025

Jurnal nasional terakreditasi

## **Isolation and Morphological Characterization of Fungal Isolates from Leachate of Namo Bintang Landfill, North Sumatra**

YURNALIZA , ERMAN MUNIR , NIKEN SIMANJUNTAK

2024

Jurnal internasional bereputasi

## **Bioprospecting Study of Plant Growth Promoting Rhizospheric Bacteria from Oil Palm Plantation as Biological Control Agent of Ganoderma boninense**

YURNALIZA , SOVIA LENNY , ISNAINI NURWAHYUNI , ANISA LUTFIA

2020

Prosiding seminar internasional

## **The Potency of Plant Growth Promoting Rhizobacteria (PGPR) of Coastal Poaceae (Phragmites karka) to Stimulating of Paddy (Oryza sativa L.) Growth**

YURNALIZA , NUNUK PRIYANI

2018

Prosiding seminar internasional

## **Antimicrobial activity of lactic acid bacteria isolated from bekasam against staphylococcus aureus ATCC 25923, escherichia coli ATCC 25922, and salmonella sp**

DWI SURYANTO , YURNALIZA

2020

Prosiding seminar internasional

## **Preliminary Screening of Antagonistic Fungal Endophytes from Zingiberaceae**

ERMAN MUNIR , YURNALIZA

2022

Prosiding seminar internasional

## **Potential of cellulolytic fungi isolated from the intestine of Asiatic rhinoceros beetle (Oryctes rhinoceros)**

ERMAN MUNIR , DWI SURYANTO , YURNALIZA

2025

Artikel ilmiah

## **Decolorization potential of laccase producing fungi isolated from forest floor**

YURNALIZA , ERMAN MUNIR , GLORIA MILES TELAUMBANUA , OKY KUSUMA ATNI

2022

Jurnal nasional terakreditasi

## **Effect Of Smoking Behaviour and The BMI On Ph Levels Of Saliva and Salivary**

## **Amylase Activity Among Male Students**

YURNALIZA

2019

Artikel ilmiah

### **Identification of a Potential IAA-Producing Fungus Isolated from *Alpinia* Sp. Rhizome in Hutan Sibayak, North Sumatera**

YURNALIZA , ERMAN MUNIR

2024

Jurnal internasional bereputasi

### **Screening of indigenous methicillin-resistant *Staphylococcus aureus* (MRSA)-inhibiting actinomycetes from Sicanang Mangrove and Cermin Beach in North Sumatra Province, Indonesia**

YURNALIZA , ERMAN MUNIR , RIRIS ITA OLIVIA GULTOM , ANDINI JUNIASTI NASUTION

2020

Prosiding seminar internasional

### **Conversion of Paddy Straw into Fertilizer and Animal Feed at Tanjung Rejo Village, Deli Serdang Regency, Medan, Indonesia**

MAYANG SARI YEANNY , YURNALIZA , TERNALA ALEXANDER BARUS

2017

Prosiding seminar nasional

### **respon metabolik Klon kelapa sawit terhadap jamur endofit dan patogen *Ganoderma boninense***

YURNALIZA

2017

Jurnal internasional

### **The chitinase activity of oil palm ('*Elaeis guineensis*' Jacq.) roots against fungal endophytes and pathogenic '*Ganoderma boninense*'**

I NYOMAN PUGEG ARYANTHA , Agus Susanto , YURNALIZA , RIZKITA RACHMI ESYANTI

2020

Jurnal internasional bereputasi

### **Molecular identification of endophytic fungi from torch ginger (*Etlingera elatior*) antagonist to phytopathogenic fungi**

ERMAN MUNIR , YURNALIZA

2022

Prosiding seminar internasional

### **In Vitro Use Metabolism of *Pediococcus pentosaceus* Strain N6 as Alternative to Natural Antibiotics in Broiler**

NURJAMA YAH BR KETAREN , NUNUK PRIYANI , YURNALIZA

2011

Jurnal nasional terakreditasi

### **Kemampuan Kitinase *Streptomyces* Rkt5 sebagai Antijamur terhadap Patogen *Fusarium oxysporum***

YURNALIZA

2020

Jurnal internasional bereputasi

### **Screening of *Burkholderia* spp. from oil palm plantation with antagonistic properties against *Ganoderma boninense***

ISNAINI NURWAHYUNI , YURNALIZA , SOVIA LENNY

2019

Artikel ilmiah

### **Antibacterial and phosphate solubilization activity of endophytic bacteria isolated from *Pteridophyta* (*Tectaria barberi*)**

YURNALIZA , ERMAN MUNIR

2017

Jurnal internasional bereputasi

# **The chitinase activity of oil palm (*Elaeis guineensis* Jacq.) roots against fungal endophytes and pathogenic *Ganoderma boninense***

YURNALIZA , RIZKITA RACHMI ESYANTI , I NYOMAN PUGEG ARYANTHA , Agus Susanto

2020

Jurnal internasional bereputasi

## **Purification and Characterization of D-psicose 3 Epimerase (DPEase) From *Escherichia coli* BL21 (DE3) pET21b dpe**

YURNALIZA

2017

Jurnal nasional

## **EFEKTIVITAS BERKUMUR LARUTAN EKSTRAK ETANOL KULIT KAYU MANIS DALAM MENURUNKAN AKUMULASI PLAK GIGI**

DWI SURYANTO , YURNALIZA

2020

Prosiding seminar internasional

## **Isolation and Screening of Antagonistic Diazotrophic Endophytic Bacteria from Oil Palm Roots against *Ganoderma boninense***

YURNALIZA , SOVIA LENNY , ISNAINI NURWAHYUNI

2018

Prosiding seminar internasional

## **Isolation and identification of exopolysaccharide-producing endophytic fungi from leaf midribs of oil palm**

IT JAMILAH , YURNALIZA

2017

Jurnal internasional

## **Potential, Opportunities and Strategies (POS) of Rice Productivity through Integrated Pest Management in Tidal Land Paddy Percut, Sumatera Utara, Indonesia,**

YURNALIZA , AMELIA ZULIYANTI SIREGAR

2022

Jurnal internasional bereputasi

## **Metabolites produced by endophytic fungi isolated from *Hornstedtia scyphifera* (J. Koenig) Steud. and their antioxidant activities**

ERMAN MUNIR , YURNALIZA , SOVIA LENNY

2019

Jurnal internasional

## **Characterization of Crude DPEase (D-Psicose 3-Epimerase) from Recombinant *Escherichia coli***

YURNALIZA

2019

Jurnal internasional bereputasi

## **Antagonistic fungal endophytes colonizing rhizome of *amomum centrocephalum* A.D. Poulsen from North Sumatera, Indonesia**

ERMAN MUNIR , YURNALIZA

2025

Jurnal internasional bereputasi

## **Purifying and Characterizing Cellulase from Bacteria Isolated from Gut of *Oryctes rhinoceros***

AHMAD FAISAL NASUTION , ERMAN MUNIR , YURNALIZA , DWI SURYANTO

2019

Artikel ilmiah

## **Records of Culturable Endophytic Fungi Inhabiting Rhizome of *Elettaria* in Hutan Sibayak, North-Sumatera**

ERMAN MUNIR , YURNALIZA

2018  
Artikel ilmiah

## **Potency of dye absorbtion of exopolysaccharide producing fungi isolated from Gunung Barus North Sumatera, Indonesia**

YURNALIZA , ERMAN MUNIR , NUNUK PRIYANI

2019  
Artikel ilmiah

## **Antagonistic Endophytic Fungi of *Globba pendula* Roxb. from Taman Hutan Raya, North Sumatra against *Staphylococcus aureus* ATCC<sup>®</sup> 29213TM**

ERMAN MUNIR , YURNALIZA

2019  
Prosiding seminar internasional

## **Total Phenolic Content of Oil Palm Roots (*Elaeis Guineensis* Jacq.) As Preliminary Health Indicators in Oil Palm Plantation**

ISNAINI NURWAHYUNI , SOVIA LENNY , YURNALIZA

2023  
Jurnal internasional bereputasi

## **Diversity of Cellulolytic Bacteria from the Digestive Tract of *Oryctes rhinoceros* Larvae**

AHMAD FAISAL NASUTION , ERMAN MUNIR , DWI SURYANTO , YURNALIZA , ANTHONI AGUSTIEN

2025  
Monograf

## **Aktinomisetes kitinolitik: pengendali jamur patogen *Fusarium oxysporum***

YURNALIZA

2025  
Prosiding seminar internasional

## **Potential of bacteria from mangrove forest sediment in degrading low density polyethylene**

YURNALIZA , ERMAN MUNIR , INDAHATI MUALIFAH QAWAKIB , OKY KUSUMA ATNI

2020  
Prosiding seminar nasional

## **Peningkatan produksi petani Jamur Tiram dengan teknik kultur di Kota Medan**

LIANA DWI SRI HASTUTI , YURNALIZA , RIYANTO SINAGA

2018  
Prosiding seminar internasional

## **An ability of endophytic bacteria from nutgrass (*Cyperus rotundus*) from lafau beach of north nias in producing indole acetic acid and in solubilizing phosphate**

YURNALIZA , DWI SURYANTO

2022  
Jurnal nasional terakreditasi

## **Sleep Late Impact on The Salivary pH Levels and Amylase Activity among Male Students who has Different BMI Category**

YURNALIZA

2020  
Prosiding seminar internasional

## **The Utilization of Organic Waste into Fermented Goat Fodder in Tanjung Rejo Village, Deli Serdang Regency**

YURNALIZA , MAYANG SARI YEANNY , SALEHA HANNUM

2022  
Jurnal nasional terakreditasi

## **Effect of Incubation Time on Amylase Enzyme Activity in Cassava Tape**

YURNALIZA , MARTHA YENI SRY HARTINI , WIRA RISA LINA SIMANJUNTAK , ADE SYAFITRI

2025

## **Screening antibiotic-producing actinomycetes from Lau Kawar lake in North Sumatera Province to inhibit methicillin resistant Staphylococcus aureus (MRSA)**

YURNALIZA , ERMAN MUNIR , CUCU SUMANTRI MANIK , RIZHANA RASEUKY , ANDINI JUNIASTI NASUTION , RIRIS ITA OLIVIA GULTOM

## **Researches**

2018

Penelitian Dana Lokal Perguruan Tinggi

### **Karakterisasi dan populasi galur-galur *Aspergillus flavus* toksigen dan non-toksigen pada pakan unggas**

YURNALIZA , KIKI NURTJAHJA

2019

Penelitian Dana Lokal Perguruan Tinggi

### **SKRINING JAMUR ENDOFIT PELARUT FOSFAT DAN PENGHASIL IAA ASAL ZINGIBERACEAE**

YURNALIZA , ERMAN MUNIR

2014

Penelitian Fundamental

### **Skrining invitro antagonis *Trichoderma* spp. indigenous Sumatera Utara dengan jamur Busuk Putih parasit Tanaman Kelapa Sawit, Karet dan Kakao**

YURNALIZA , KIKI NURTJAHJA

2014

Penelitian Fundamental

### **Skrining invitro antagonis *Trichoderma* spp. indigenous Sumatera Utara dengan jam**

YURNALIZA , KIKI NURTJAHJA

2017

Penelitian Dana Lokal Perguruan Tinggi

### **Seleksi Jamur Ascomycetes Endofit peghasil Eksopolisakarida dari Tanaman Kelapa Sawit**

YURNALIZA , IT JAMILAH

2024

### **Potensi probiotik bakteri asam laktat asal lobster *Panulirus* sp. dan viabilitasnya dalam media prebiotik berbasis tepung porang sebagai pakan udang**

YURNALIZA , VERRY ANDRE FABIANI , ZULFARINA , RAHMAD LINGGA , PUTRI SUCI AKBARINI , NURJANAH

2018

Penelitian Unggulan Perguruan Tinggi

### **UPAYA REKAYASA EKSUDAT DAN METABOLIT AKAR KELAPA SAWIT DENGAN BAKTERI DIAZOTROP SEBAGAI ALTERNATIF PENGENDALIAN JAMUR PATOGEN *Ganoderma boninense***

YURNALIZA , ISNAINI NURWAHYUNI , SOVIA LENNY

2017

Penelitian Dana Lokal Perguruan Tinggi

### **SKRINING JAMUR ENDOFIT BERPOTENSI PENGHASIL ANTIMIKROBA DARI FAMILI ZINGIBERACEAE**

YURNALIZA , ERMAN MUNIR

2025

Penelitian Fundamental

### **Potensi Metabolit Sekunder dan Nanopartikel Perak Berbasis Limbah Teh dan *Rhizobium* untuk Pengendalian *Ganoderma boninense* pada Kelapa Sawit**

NUNUK PRIYANI , YURNALIZA , KIKI NURTJAHJA , DEFORMAN MENDROFA , KHALIFATUL ILMI , DESI WULANDARI

2021

Penelitian Dana Lokal Perguruan Tinggi

## **Uji efektivitas Antimikroba Metabolisme isolat *Pediococcus pentosaceus* Strain N6 Sebagai alternatif antibiotik alami pada ayam**

NUNUK PRIYANI , YURNALIZA

2019

Penelitian Unggulan Perguruan Tinggi

## **UPAYA REKAYASA EKSUDAT DAN METABOLIT AKAR KELAPA SAWIT DENGAN BAKTERI DIAZOTROP SEBAGAI ALTERNATIF PENGENDALIAN JAMUR PATOGEN *Ganoderma boninense***

YURNALIZA , ISNAINI NURWAHYUNI , SOVIA LENNY

2022

Penelitian Dana Lokal Perguruan Tinggi

## **Bioprospeksi Aktinomisetes Asal Sumatera Utara Penghasil Antibiotik baru Penghambat Methicilin Resistant *Staphylococcus Aureus* (MRSA)**

YURNALIZA , ERMAN MUNIR

2018

Pendidikan Magister Doktor Sarjana Unggul

## **Isolasi dan karakterisasi Senyawa Metabolit Jamur Endofit *Zingiberaceae* serta Aplikasi Melalui Rekombinan Genetik**

YURNALIZA , ERMAN MUNIR , ANISA LUTFIA

2025

Riset Andalan Perguruan Tinggi dan Industri

## **PENGEMBANGAN SISTEM PRODUKSI BIBIT KENTANG MERAH ASAL KARO BEBAS VIRUS MELALUI PENDEKATAN MIKROTUBE BIOREAKTOR DAN AEROPONIK GO**

ADELIA FEBRIYOSSA , SIMON DUVE , HEPPY SETYA PRIMA , YURNALIZA , ERI MUSTARI , DIKY SETYA DININGRAT , SELVIA DEWI POHAN

2013

Penelitian Disertasi Doktor

## **Efektifitas Kolonisasi dan Respon Tanaman Kelapa Sawit Terhadap Jamur Endofit**

YURNALIZA

2018

Penelitian Dana Lokal Perguruan Tinggi

## **KARAKTERISASI DAN POPULASI GALUR-GALUR *ASPERGILLUS FLAVUS* TOKSIGEN DAN NON-TOKSIGEN PADA PAKAN UNGGAS**

YURNALIZA , KIKI NURTJAHJA

## **Community Services**

2023

Ipteks Bagi Masyarakat

## **Penerapan Teknologi Tepat Guna Pengikis Bulu Pada Kulit Sapi Untuk Meningkatkan Produktivitas UD. Sari Jangek**

YURNALIZA , BUCHARI , JULIZA HIDAYATI , YONGKI PERMANA , TIURMATARIDA PANJAITAN , RIZKY ADINDA

2025

## **Pengelolaan Lingkungan Sehat, Bersih dan Nyaman dengan Penerapan Teknologi Proses Pengolahan Sampah Menjadi Produk Komersial dan Pemanfaatan Eco Enzym Menjadi Produk Sabun Padat Untuk Meningkatkan Pendapatan Masyarakat Desa Padang Tualang Kecamatan Padang Tualang, Kabupaten Langkat**

ERNI MISRAN , RISMA FAZILLAH , DINI WAHYUNI , YURNALIZA , OZIE AKBAR PRATAMA , RAHAYU LUBIS , JULIZA HIDAYATI , ROSDANELLI HASIBUAN , MUHAMMAD HENDRA S GINTING

2024

**Kegiatan Program Pengelolaan Lingkungan Sehat, Bersih dan Nyaman dengan Penerapan Teknologi Proses Pengolahan Sampah Menjadi Produk Komersial Untuk Meningkatkan Pendapatan Masyarakat serta Penguatan Upaya Kesehatan Kerja Petani Pembibitan Tanaman Holtikultura di Desa Klambir Kecamatan Pantai Labu Kabupaten Deli Serdang**

YURNALIZA , ROSDANELLI HASIBUAN

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2018

Ipteks Bagi Masyarakat

**Pemanfaatan Jerami Padi Menjadi Pupuk dan Pakan Ternak di Desa Tanjung Rejo Kabupaten Deli Serdang**

TERNALA ALEXANDER BARUS , YURNALIZA

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**PROSES ISOLASI ACTINOMYCETES**

YURNALIZA

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2025

Paten nasional

**SISTEM AEROPONIK TEKANAN DENGAN KONTROL DROPLET UNTUK PRODUKSI MINITUBER KENTANG BERKUALITAS**

YURNALIZA

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