

Prof. Dr.Ir. Noverita Sprinse Vinolina, M.P.

Lecturer of Undergraduate Program in Agrotechnology Study Program
Faculty of Agriculture
Universitas Sumatera Utara

✉ noverita@usu.ac.id

🏢 USU Faculty of Agriculture

🌐 fp.usu.ac.id/en/lecturer/noverita-sprinse-vinolina

Prof. Dr. Ir. Noverita Sprinse Vinolina, M.P., born in Padang Halaban on November 25, 1968, currently serves as an Agrotechnology lecturer at the Universitas Sumatera Utara with expertise in Plant Physiology, Secondary Metabolism, Agronomy, Medicinal Plants, and Plantation Plants.

Education Profile:

- Bachelor's degree from the Universitas Sumatera Utara
- Master's degree from the Universitas Sumatera Utara
- Doctoral degree from the Universitas Sumatera Utara

As a professor, Prof. Dr. Ir. Noverita Sprinse Vinolina has made significant contributions to the development of agrotechnology science. Her expertise covers various aspects, ranging from plant physiology to agronomy, demonstrating the diversity of her knowledge and dedication to agricultural science at the Universitas Sumatera Utara.

Publications

2024

Jurnal internasional bereputasi

Various treatments to overcome dormancy of jernang rattan seeds (Daemonorops didymophylla Becc.)

NOVERITA SPRINSE VINOLINA

2016

Jurnal internasional

Production of Asiaticoside in Pegagan (Centella asiatica) with Phosphorus and Methyl Jasmonate Treatment

NOVERITA SPRINSE VINOLINA

2023

Jurnal internasional bereputasi

Early detection of local inbred of rice from Aceh to drought stressusing PEG 6000

NOVERITA SPRINSE VINOLINA

2025

Book chapter internasional

Book Chapter - Natural Resources, Environment, and Food and Energy Security Updates in North Sumatra

NOVERITA SPRINSE VINOLINA , TAVI SUPRIANA

2020

Book chapter nasional

Pandemik COVID-19: Persoalan dan Refleksi di Indonesia

NOVERITA SPRINSE VINOLINA

2022

Jurnal internasional bereputasi

Growth and Secondary Metabolites Production of Centella asiatica (L.) Urb. Cultivated at Different Phosphate Application Rates in Acid Soil

2022

Jurnal internasional

Analyses of Bioactive Compounds of Pegagan (Centella Asiatica (L.) Urb) from Samosir “ Indonesia Accession

NOVERITA SPRINSE VINOLINA , RISWANTI SIGALINGGING

2019

Jurnal internasional bereputasi

Effect of harvest time on bioactive compounds of field-cultivated Centella asiatica (L) urban.

LUTHFI AZIZ MAHMUD SIREGAR , NOVERITA SPRINSE VINOLINA

2024

Jurnal nasional terakreditasi

Growth of Edamame (Glycine max (L.) Merrill) Plants on Coffee Peel Compost and Rice Straw Mulch

NOVERITA SPRINSE VINOLINA

2025

Jurnal internasional bereputasi

Photosynthetic energy assessment in shallot farming using combining Sentinel-2 data with NetBeat™ in a highland tropical agroecosystem: Case study at food estate Hutajulu, North Sumatra, Indonesia

NOVERITA SPRINSE VINOLINA

2022

Jurnal internasional bereputasi

Growth and Secondary Metabolites Production of Centella asiatica (L.) Urb. Cultivated at Different Phosphate Application Rates in Acid Soil

NOVERITA SPRINSE VINOLINA

2025

Jurnal internasional bereputasi

Response of Gotu Kola Plants (Centella asiatica (L.) Urban) to Corn Cob Compost and Liquid Organic Fertilizer from Banana Corms and Moringa Leaves

NOVERITA SPRINSE VINOLINA

2013

Jurnal internasional

Centelloside Content of Pegagan (Centella asiatica)

NOVERITA SPRINSE VINOLINA

2005

Jurnal nasional

PENGARUH KONSENTRASI PUPUK PELENGKAP CAIR NIPKAPLUS DAN JARAK TANAM TERHADAP PERTUMBUHAN DAN PRODUKSI TANAMAN BABY KAYLAN (Brassica oleraceae L. Var. Acephala DC.) SECARA VERTIKULTUR

NOVERITA SPRINSE VINOLINA

2010

Jurnal nasional

Kandungan Metabolit Sekunder pada Tanaman Pegagan (Centella asiatica L.)

NOVERITA SPRINSE VINOLINA

2024

Jurnal internasional bereputasi

Modelling of energy demand prediction system in potato using deep learning method. Res

RISWANTI SIGALINGGING , NOVERITA SPRINSE VINOLINA , LUKMAN ADLIN HARAHAP , NASHA PUTRI SEBAYANG

2023

Jurnal internasional bereputasi

Life cycle assessment of shallot farming in Food Estate Hutajulu, North

Sumatra, Indonesia

LUKMAN ADLIN HARAHAP , RISWANTI SIGALINGGING , NOVERITA SPRINSE VINOLINA

2019

Jurnal internasional bereputasi

Secondary Metabolite Content in Pegagan(Centella asiatica) from North Sumatera

NOVERITA SPRINSE VINOLINA

2016

Jurnal internasional

Content of Centelloside in Pegagan (Centella asiatica) Deli Serdang Harvested/Tom Nature

NOVERITA SPRINSE VINOLINA

2021

Jurnal internasional bereputasi

Phytochemical screening and biomass production of Centella asiatica (L.) Urb of Samosir-Indonesia accession cultivated on acid soil with different phosphorus treatments

NOVERITA SPRINSE VINOLINA

2021

Prosiding seminar internasional

Centella asiatica tendril growth of Samosir Indonesia accession

NOVERITA SPRINSE VINOLINA , RISWANTI SIGALINGGING

2025

Jurnal internasional bereputasi

Comparative Analysis of Biofertilizer and Organic Fertilizer Doses on Pegagan (Centella asiatica L. Urb.) Biomass Accumulation

NOVERITA SPRINSE VINOLINA

2021

Buku referensi

Budi Daya Tanaman Sehat Secara Organik

MARULAM MT SIMARMATA , ISMAIL MARZUKI SSI M SI , NOVERITA SPRINSE VINOLINA , ARSI , EVAN PURNAMA RAMDAN , YOGI NIRWANTO , CHEPPY WATI , WASISSA TITI ILHAMI

2026

Jurnal internasional

CentellosideContent ofPegagan (Centellaasiatica) in Multiple Access from North Sumatra

NOVERITA SPRINSE VINOLINA

2018

Prosiding seminar internasional

Centelloside content of cultivated pegagan (Centella asiatica) with application of phosphorus fertilizer

NOVERITA SPRINSE VINOLINA

2020

Book chapter nasional

Belajar dari Covid-19: Perspektif teknologi dan pertanian

NOVERITA SPRINSE VINOLINA

2021

Prosiding seminar internasional

Centella asiatica tendril growth of Samosir Indonesia accession

NOVERITA SPRINSE VINOLINA , RISWANTI SIGALINGGING

2012

Prosiding seminar nasional

Kandungan Asiatikosida dan Uji Fitokimia Daun Pegagan

NOVERITA SPRINSE VINOLINA

2021
Jurnal nasional

Pegagan (*Centella asiatica* L. Urban) dan Metabolit Sekundernya

NOVERITA SPRINSE VINOLINA

2017
Prosiding seminar nasional

Kandungan Metabolit Sekunder (Centellosida) Pegagan (*Centella asiatica*) Aksesinya Deli Serdang

NOVERITA SPRINSE VINOLINA

2014
Jurnal nasional

PENGARUH PEMBERIAN FOSFOR DAN UMUR PANEN TERHADAP PERTUMBUHAN DAN PRODUKSI PEGAGAN (*Centella asiatica* (L.) Urb.)

NOVERITA SPRINSE VINOLINA

2025
Jurnal nasional

Hydroponic Production Training Towards Adiwiyata Schools at Gelora Jaya Nusantara Vocational School Medan

SRI WAHYUNI , MARTALENA BR S KEMBAREN , NOVERITA SPRINSE VINOLINA

2021
Prosiding seminar internasional

Pegagan (*Centella asiatica*) as a functional food for health with centelloside content

NOVERITA SPRINSE VINOLINA

2021
Jurnal internasional bereputasi

***Centella asiatica* tendril growth of Samosir - Indonesia accession**

NOVERITA SPRINSE VINOLINA

2020
Book chapter nasional

Teaching from home: Dari belajar merdeka menuju merdeka belajar

NOVERITA SPRINSE VINOLINA

2005
Jurnal nasional

Pengaruh Konsentrasi Pupuk Pelengkap Cair Nipkaplus dan Jarak Tanam Terhadap Pertumbuhan dan Produksi Tanaman Baby Kaylan (*Brassica oleraceae* L.) Secara Vertikultur

NOVERITA SPRINSE VINOLINA

2024
Jurnal nasional terakreditasi

Pelatihan Pengelolaan Sampah Organik dan Anorganik Pembuatan Ecobrick dan Ecoenzyme

NOVERITA SPRINSE VINOLINA , MARTALENA BR S KEMBAREN , SRI WAHYUNI

2023
Jurnal internasional bereputasi

The effect of biological fertilizer and organic fertilizer in growth and biomass of Pegagan (*Centella asiatica* (L.) Urban) from Simalungun accession

NOVERITA SPRINSE VINOLINA

2013
Prosiding seminar internasional

Analysis of Centelloside of Pegagan (*Centella asiatica*)

NOVERITA SPRINSE VINOLINA

2012
Prosiding seminar internasional

Morphology of leaves and content of secondary metabolites asiaticoside in

some accession of pegagan (*Centella asiatica* L. Urban) in North Sumatera

NOVERITA SPRINSE VINOLINA

2009

Prosiding seminar internasional

Response of Pegagan (*Centella asiatica*) to Compost and Liquid Organic Fertilizer

NOVERITA SPRINSE VINOLINA

2023

Jurnal internasional bereputasi

The effect of biological fertilizer and organic fertilizer in growth and biomass of Pegagan (*Centella asiatica* (L.) Urban) from Simalungun accession

NOVERITA SPRINSE VINOLINA

2024

Jurnal nasional terakreditasi

Training on watershed conservation and water filter making as part of the Adiwiyata School program assistance at SMK Swasta Gelora Jaya Nusantara Medan

MARTALENA BR S KEMBAREN , NOVERITA SPRINSE VINOLINA , SRI WAHYUNI

2019

Jurnal internasional

The Effect of Harvest Time on Bioactive Compounds of Field-Cultivated *Centella asiatica* (L) Urban

NOVERITA SPRINSE VINOLINA

2023

Prosiding seminar internasional

Analysis of energy used on shallot farming in Food Estate, Hutajulu, North Sumatra

RISWANTI SIGALINGGING , NOVERITA SPRINSE VINOLINA , CANDRA SIGALINGGING

2026

Jurnal internasional bereputasi

The effect of empty fruit bunch (EFB) compost and palm oil mill effluent (POME) concentrate on prenursery of palm oil (*Elaeis guineensis* Jacq.) for sustainable agricultural

NOVERITA SPRINSE VINOLINA

2005

Jurnal nasional

PENGARUH PEMBERIAN NITROGEN DAN KOMPOS TERHADAP KOMPONEN PERTUMBUHAN TANAMAN LIDAH BUAYA (*Aloe vera*)

NOVERITA SPRINSE VINOLINA

2021

Prosiding seminar internasional

Variation in Growth of *Centella asiatica* of Samosir - Indonesia Accession with Phosphorus Fertilizer Cultivated at Samosir Field

NOVERITA SPRINSE VINOLINA

2014

Jurnal nasional

Respons Pertumbuhan Dan Produksi Biomassa Tanaman Obat Pegagan (*Centella Asiatica* (L.) urb.) Dengan Pemberian Fosfor Dan Metil Jasmonat.

NOVERITA SPRINSE VINOLINA

2024

Jurnal internasional bereputasi

Effect of Lamtoro Leaf Liquid Organic Fertilizer and Chicken Manure on the Growth and Production of Shallots (*Allium ascalonicum* L.)

NOVERITA SPRINSE VINOLINA

2023
Prosiding seminar internasional

Modelling of energy productivity prediction systems of shallots classification growth phase system using convolutional neural network

LUKMAN ADLIN HARAHAP , RISWANTI SIGALINGGING , NOVERITA SPRINSE VINOLINA

2012
Prosiding seminar internasional

Morphology of leaves and content of secondary metabolites asiaticoside in some accession of pegagan (Centella asiatica l. Urban) in North Sumatera

NOVERITA SPRINSE VINOLINA , LUTHFI AZIZ MAHMUD SIREGAR , JUSTIN A NAPITUPULU

2018
Jurnal internasional bereputasi

Production enhancement technology of Pegagan (Centella asiatica)

NOVERITA SPRINSE VINOLINA

2024
Jurnal internasional

Processing Solid Waste from Cabbage Vegetables and Cow Rumen Contents into Liquid Organic Fertilizer (LOF) in Semangat Village, Merdeka District, Karo Regency

NOVERITA SPRINSE VINOLINA

Researches

2020
Penelitian Fundamental

Teknologi Peningkatan Kualitas Pegagan (Centella asiatica) Sebagai Tanaman Obat dan Pangan

NOVERITA SPRINSE VINOLINA

2022
Penelitian Fundamental

Life Cycle Assessment Untuk Analisis Energi pada Sistem Digital Farming Food Estate di Desa Hutajulu, Kabupaten Tapanuli Utara, Sumatera Utara

LUKMAN ADLIN HARAHAP , RISWANTI SIGALINGGING , NOVERITA SPRINSE VINOLINA

2021
Penelitian Fundamental

Teknologi Peningkatan Kualitas Pegagan (Centella asiatica) Sebagai Tanaman Obat dan Pangan

RISWANTI SIGALINGGING , NOVERITA SPRINSE VINOLINA

2017
Penelitian Fundamental

Budidaya Beberapa Aksesori Pegagan (Centella asiatica) Sumatera Utara dan Kandungan Centellosidanya

NOVERITA SPRINSE VINOLINA

2015
Penelitian Fundamental

Budidaya Beberapa Aksesori Pegagan (Centella asiatica) Sumatera Utara dan Kandungan Centellosidanya

NOVERITA SPRINSE VINOLINA

Community Services

2025
Sarjana Penggerak Pembangunan Indonesia (SPPI) Batch 3

NOVERITA SPRINSE VINOLINA

2024

Pendampingan SMK Swasta Gelora Jaya Nusantara dalam pengembangan sekolah berbasis eco school program untuk Pencapaian Sekolah Adiwiyata

SRI WAHYUNI , MARTALENA BR S KEMBAREN , NOVERITA SPRINSE VINOLINA , EDUAR DANIEL LASE , VINCENCIA SIREGAR , CATHY GHITA SINURAT , PEBRY TRIWANI ARITONANG

2012

Ipteks Bagi Masyarakat

IbM Kelompok Tani Padi Sawah Tadah Hujan di Lubuk Pakam
