

Dr. Ridwanti Batubara, S.Hut., MP.

Lecturer of Bachelor Degree of Forestry Study Program Study Program
Faculty of Forestry
Universitas Sumatera Utara

✉ ridwanti@usu.ac.id

📍 Kampus 2 USU Bekala, Simalingkar A, Pancur Batu, Deli Serdang, 20353, Sumatera Utara, Indonesia

☎ 087769320308

🌐 fhut.usu.ac.id/en/lecturer/ridwanti-batubara

Dr. Ridwanti Batubara, S.Hut., M.P. is one of the lecturers at the Faculty of Forestry, Universitas Sumatera Utara. Since 2001 until now, she has been actively engaged in various activities related to the Three Pillars of Higher Education, including Education, Research, and Community Service. Known affectionately as Bu Wanti, she was born on February 15, 1976. As a researcher in the field of forest product chemistry, she teaches several courses in the Forest Product Technology specialization, part of the USU Undergraduate Program in Forestry.

She completed her undergraduate education at Bogor Agricultural University (IPB) and graduated in 1996 with a Bachelor's in Forestry (S.Hut). Subsequently, she pursued her Master's degree at Mulawarman University, graduating in 2006 with a Master's in Agriculture (M.P). Her doctoral education (S3) took place at Universitas Sumatera Utara.

Dr. Ridwanti Batubara has authored various scientific works that have been published in reputable journals and proceedings, contributing to the advancement of forest product knowledge. Her research and development activities in the field of forest product chemistry, as well as her community service initiatives, have been ongoing and impactful in various regions of North Sumatra.

Publications

2025

Jurnal nasional terakreditasi

PENDAMPINGAN PENGELOLAAN EKOWISATA BERBASIS AREN DI DESA RUMAH SUMBUL, KECAMATAN SIBOLANGIT, KABUPATEN DELI SERDANG

RIDWANTI BATUBARA

2025

Jurnal internasional bereputasi

Charcoal Briquette Manufactured from Indonesian Sugar Palm Bunches (Arenga longipes Moge) as Biomass-Based New Renewable Energy

LUTHFI HAKIM , APRI HERI ISWANTO , RIDWANTI BATUBARA , ADAM JAGWANI WIRAWAN , Yunida Syafriani Lubis

2025

Artikel ilmiah

Pemanfaatan Jaring Perangkap Sampah di Pantai Merdeka,Bagan Kuala, Sumatera Utara

RIDWANTI BATUBARA

2025

Prosiding seminar internasional

Productivity of Aren (Arenga longipes Moge) in Rumah Sumbul Village, Sibolangit District, Deli Serdang Regency

HARISYAH MANURUNG , RIDWANTI BATUBARA

2025

Prosiding seminar internasional

The Influence of Cinnamon Powder from Cinnamomum burmannii bark on quality and storage period of liquid sugar palm (Arenga longipes Moge)

LUTHFI HAKIM , RIDWANTI BATUBARA , HARISYAH MANURUNG

2025

Jurnal nasional

Exploration of medicinal plant in Telaga Village Langkat District Sumatera Utara Province, Indonesia

RIDWANTI BATUBARA

2024

Jurnal nasional terakreditasi

Pengolahan sampah tepat guna pada kawasan mangrove di desa Bagan Kuala kabupaten Serdang Bedagai

RIDWANTI BATUBARA

2024

Jurnal nasional

Anatomical characteristic and fiber morphology of fibrovascular bundle of Indonesian nipa (*Nypa fruticans*) frond

RIDWANTI BATUBARA

2024

Jurnal nasional

Evaluating land suitability for kemiri (*Aleurites moluccana*) as a multi-purpose tree species in community agroforestry land within Langkat District, North Sumatra

RIDWANTI BATUBARA

2024

Jurnal nasional

Anatomical characteristic and fiber morphology of fibrovascular bundle of Indonesian nipa (*Nypa fruticans*) frond

LUTHFI HAKIM , RIDWANTI BATUBARA

2024

Jurnal nasional terakreditasi

Pelatihan Pembuatan Produk Dari Bawang Merah Dengan Kelompok Ibu-Ibu Ceria di Desa Simangulampe

RIDWANTI BATUBARA

2024

Jurnal internasional bereputasi

The potential for the cultivation of *Styrax benzoin* based on land suitability evaluation in Pakpak Bharat District, Indonesia

RIDWANTI BATUBARA

2024

Jurnal nasional terakreditasi

Pengaruh Green Place Dan Green Promotion Terhadap Keputusan Pembelian Produk Wikstea Pada Mahasiswa Fakultas Kehutanan Universitas Sumatera Utara

RIDWANTI BATUBARA

2024

Jurnal nasional terakreditasi

Pelatihan Packaging Teh Herbal dari Bahan Alam Desa Namo Sialang Kabupaten Langkat Sumatera Utara

BAYU PRATOMO , ELISA JULIANTI , LAURA JUITA PINEM , JULAILI IRNI , RIDWANTI BATUBARA , AMEILIA ZULIYANTI SIREGAR

2023

Jurnal internasional bereputasi

Longitudinal and Radial Variability of Anatomical Properties, Fiber Morphology, and Mechanical Properties of Fibrovascular Bundle from Indonesian Arenga Longipes Mogeia. Sp. NovÂ ...

RIDWANTI BATUBARA

2023

Prosiding seminar internasional

Consumers' preference for jeruju leaves tea with innovative variants of ginger, jasmine, and lemongrass flavors

RIDWANTI BATUBARA

2023

Jurnal internasional bereputasi

Land characteristics and land suitability assessment for *Styrax* sp. in Humbang Hasundutan Regency, North Sumatra, Indonesia

RIDWANTI BATUBARA

2023

Jurnal internasional bereputasi

Longitudinal and Radial Variability of Anatomical Properties, Fiber Morphology, and Mechanical Properties of Fibrovascular Bundle from Indonesian *Arenga Longipes* Moge. Sp. Nov Frond

LUTHFI HAKIM , HARISYAH MANURUNG , RIDWANTI BATUBARA , VICKY WARNANDA SILITONGA

2023

Prosiding seminar internasional

Antioxidant activity of gaharu (*Aquilaria malaccensis* Lamk.) leaves tea in ready-to-drink packages base on storage time

RIDWANTI BATUBARA

2023

Prosiding seminar internasional

Antioxidant activity of gaharu (*Aquilaria malaccensis* Lamk.) leaves tea in ready-to-drink packages base on storage time

RIDWANTI BATUBARA , T ISMANELLY HANUM , IMAM BAGUS SUMANTRI

2023

Jurnal nasional terakreditasi

Pelatihan Pembuatan Produk Kerajinan Berbahan Cabang Kayu Mangrove

RIDWANTI BATUBARA

2022

Jurnal internasional bereputasi

The antioxidant activities and chemical compounds of *Aquilaria crassna*, *Aquilaria microcarpa*, and *Gyrinops versteegii* leaves growing in Langkat, North Sumatra, Indonesia

RIDWANTI BATUBARA , T ISMANELLY HANUM , ELISA JULIANTI

2022

Prosiding seminar internasional

Antioxidants and chemical compounds of hot water extract agarwood leaves *Wikstroemia tenuiramis* Miq

RIDWANTI BATUBARA

2022

Jurnal internasional bereputasi

The antioxidant activities and chemical compounds of *Aquilaria crassna*, *Aquilaria microcarpa*, and *Gyrinops versteegii* leaves growing in Langkat, North Sumatra, Indonesia

MARIAH ULFA , RIDWANTI BATUBARA

2022

Prosiding seminar internasional

Analytical hierarchy process (ahp) application in the selection of plant types on the community's agroforestry land

RIDWANTI BATUBARA

2022

Jurnal nasional terakreditasi

PELATIHAN PEMBUATAN CENDERAMATA BERBAHAN LIMBAH KAYU DARI PANTAI ALAM SERDANG, DESA RUGEMUK

MARIAH ULFA , RIDWANTI BATUBARA

2021

Prosiding seminar internasional

Chemical content and fiber dimension of agarwood branches (*Aquilaria malaccensis* Lamk)

RIDWANTI BATUBARA

2021

Prosiding seminar internasional

Chemical Compounds and Antioxidant Potential in Hot Water Extract of Cultivated Agarwood (*Aquilaria malaccensis*) Lamk Leaves

RIDWANTI BATUBARA

2021

Prosiding seminar internasional

Preparation and phytochemical characterisation of antioxidant active ethanol extract of agarwood (*Aquilaria malaccensis* Lamk) leaf (EEAL) using liquid chromatography-massÂ

RIDWANTI BATUBARA

2021

Prosiding seminar internasional

Chemical content analysis of agarwood (*Aquilaria malaccensis* Lamk) twigs

RIDWANTI BATUBARA

2021

Prosiding seminar internasional

Taking essential oil by water distillation and antibacterial activity test of refined water from agarwood plant parts (*Aquilaria malaccensis* Lamk)

RIDWANTI BATUBARA

2021

Prosiding seminar internasional

Integrated GIS and GPS for mapping of land suitability for multy purpose tree species (*Persea americana*) at community agroforestry land in Peria-ria Village. IOP ConferenceÂ

RIDWANTI BATUBARA

2021

Jurnal nasional

Edukasi Kandungan Kimia Purun Danau Bahan Kerajinan di Desa Lubuk Kertang

RIDWANTI BATUBARA

2021

Prosiding seminar internasional

Preparation and phytochemical characterisation of antioxidant active ethanol extract of agarwood (*Aquilaria malaccensis* Lamk) leaf (EEAL) using liquid chromatography-massÂ

RIDWANTI BATUBARA

2021

Jurnal internasional bereputasi

Phytochemical screening and py-gc-ms analysis of agarwood leaves (*Aquilaria malaccensis* lamk.) cultivated in bahorok, langkat regency, North Sumatra, Indonesia

RIDWANTI BATUBARA

2020

Jurnal internasional bereputasi

Land suitability assessment for *Lansium domesticum* cultivation on agroforestry land using matching method and geographic information system

RIDWANTI BATUBARA

2020

Prosiding seminar internasional

Safety of Gaharu Tea (*Aquilaria Malaccensis* Lamk) from Induction Tree Through 28 Days Oral Subchronic Toxicity Test

RIDWANTI BATUBARA

2020

Prosiding seminar internasional

GIS based: mapping of multy purpose tree species (*Durio zibethinus*) in Perkebunan Tambunan Village, Langkat District, North Sumatra Province, Indonesia. IOP Conf. Series: Earth & ...

RIDWANTI BATUBARA

2020

Prosiding seminar internasional

Application of geographic information system for mapping of *Hevea brasiliensis* and *Aquilaria malaccensis* land suitability at Simpang Kuta Buluh. IOP Conf. Series: Earth and ...

RIDWANTI BATUBARA

2020

Jurnal nasional terakreditasi

Mapping of land suitability for rambutan (*Nephelium lappaceum*) as one of multy purpose tree species in community agroforestry land at Gunung Ambat Village and Simpang Kuta ...

RIDWANTI BATUBARA

2020

Jurnal nasional terakreditasi

Mapping of land suitability for rambutan (*Nephelium lappaceum*) in community agroforestry land at Gunung Ambat Village and Simpang Kuta Buluh Village

RIDWANTI BATUBARA

2019

Jurnal internasional bereputasi

Safety test of agarwood leaves tea (*Aquilaria malaccensis* lamk.) through skin sensitization test on Albino Rabbit

RIDWANTI BATUBARA

2019

Jurnal internasional bereputasi

Use of Geographic Information System for mapping of *Aquilaria malaccensis* land suitability in North Sumatra, Indonesia

RIDWANTI BATUBARA

2019

Prosiding seminar internasional

Phytochemical and antioxidant activity of gaharu leaf tea (*Aquilaria malaccensis* Lamk) as raw material of tea from middle Tapanuli Regency, North Sumatera ...

RIDWANTI BATUBARA

2019

Prosiding seminar internasional

SAFETY OF GAHARU TEA (*Aquilaria malaccensis* Lamk) FROM INDUCTION TREE THROUGH 28 DAYS ORAL SUBCHRONIC TOXICITY TEST

RIDWANTI BATUBARA

2018

Prosiding seminar internasional

Surjanto. 2018. Phytochemical and tannin content in two species of agarwood leaves from Mandailing Natal Regency North Sumatera Province

RIDWANTI BATUBARA

2018

Prosiding seminar internasional

Mapping of Tree Damage Classification in the Western Part of Medan City, Green Belts Using Geographic Information System IOP Conference Series: Earth and Environmental ScienceÂ ...

RIDWANTI BATUBARA

2017

Prosiding seminar nasional

Kelayakan daun gaharu endemik Sumatera (Wikstroemia tenuiramis Miq) sebagai bahan baku teh gaharu yang kaya antioksidan

RIDWANTI BATUBARA

2017

Jurnal nasional terakreditasi

Jenis-jenis Hasil Hutan dan Nilai Ekonomi yang Berasal dari Praktek Agroforestri di Sekitar Taman Wisata Alam Sibolangit

RIDWANTI BATUBARA

2016

Jurnal nasional

Control of S. litura F Pests on Deli Tobacco Plants (Nicotiana tabaccum) with Natural Pesticides from Melia azedarach Bark Extract

RIDWANTI BATUBARA

2016

Jurnal nasional

Pengendalian Hama Ulat Grayak (Spedoptera litura) Pada Tanaman Tembakau Deli (Nicotiana tabaccum) Dengan Pestisida Nabati Dari Kulit Kayu Mindi (Melia azedarach)

RIDWANTI BATUBARA

2026

Prosiding seminar nasional

Kelayakan daun gaharu endemik Sumatera (Wikstroemia tenuiramis Miq) sebagai bahan baku teh gaharu yang kaya antioksidan

RIDWANTI BATUBARA

2026

Jurnal nasional terakreditasi

Mapping of land suitability for rambutan (Nephelium lappaceum) as one of multy purpose tree species in community agroforestry land at Gunung Ambat Village and Simpang KutaÂ …

RIDWANTI BATUBARA

2026

Jurnal nasional terakreditasi

Mapping of land suitability for rambutan (Nephelium lappaceum) as one of multy purpose tree species in community agroforestry land at Gunung Ambat Village and Simpang KutaÂ …

RIDWANTI BATUBARA

2026

Prosiding seminar nasional

Pemanfaatan Jaring Perangkap Sampah di Pantai Merdeka, Bagan Kuala, Sumatera Utara

RIDWANTI BATUBARA

2026

Jurnal nasional terakreditasi

Edukasi, Pelatihan Teknologi Pengolahan, dan Pengembangan Produk Olahan Purun di Desa Mekar Jaya, Kecamatan Wampu, Kabupaten Langkat: Education, Processing Technology TrainingÂ …

RIDWANTI BATUBARA

2026

Jurnal nasional

Pengendalian Hama Ulat Grayak (*Spodoptera litura*) Pada Tanaman Tembakau Deli (*Nicotiana tabaccum*) Dengan Pestisida Nabati Dari Kulit Kayu Mindi (*Melia azedarach*)

RIDWANTI BATUBARA

Researches

2024

Penelitian Fundamental

Karakteristik Dasar Tandan Kosong Kolang Kaling (*Arenga longipes* Mogeia sp.nov) Sebagai Bahan Baku Energi Biomassa

APRI HERI ISWANTO , LUTHFI HAKIM , RIDWANTI BATUBARA

2023

Penelitian Talenta USU

RIDWANTI BATUBARA , HARISYAH MANURUNG

2023

Ipteks

Inovasi Pengembangan Produk Berbahan Ekstrak Daun Gaharu

T ISMANELLY HANUM , ERNA RUSLIANA MUHAMAD SALEH , RIDWANTI BATUBARA

2022

Karakteristik Fibrovacular Bundle Pelepah Aren (*Arenga pinnata* Merr.) Sebagai bahan baku komposit

LUTHFI HAKIM , RIDWANTI BATUBARA , HARISYAH MANURUNG

2021

KAJIAN PENGEMBANGAN PRODUK TEH DAUN JERUJU (*Acanthus ilicifolius*) DAN STABILITAS PENYIMPANANNYA

RIDWANTI BATUBARA

2021

Penelitian Disertasi Doktor

Penyiapan Ekstrak Antimikroba dari Daun Gaharu (*Aquilaria malaccensis* Lamk) dan Pembuatan Karboksimetilselulosa (KMS) serta Nanokristalselulosa (NKS) dari Ranting Batangnya untuk Sediaan Pembalut Luka Terinkorporasi dalam Matriks Hidrogel KMS/NKS/Polivinilalkohol/Asamsitrat

RIDWANTI BATUBARA

2019

Penelitian Unggulan Perguruan Tinggi

Eksplorasi Gaharu di Sumatera Utara dan Kajian Potensinya Sebagai Bahan Baku Teh Gaharu Yang Kaya Antioksidan"

SURJANTO , T ISMANELLY HANUM , RIDWANTI BATUBARA

2017

Penelitian Dana Lokal Perguruan Tinggi

KAJIAN POTENSI DAN KELAYAKAN DAUN GAHARU JENIS ENDEMIK SUMATERA (*Wikstroemia tenuiramis* Miq) SEBAGAI BAHAN BAKU TEH GAHARU YANG KAYA ANTIOKSIDAN

SURJANTO , T ISMANELLY HANUM , RIDWANTI BATUBARA

Community Services

2024

Pemberdayaan Ekonomi Masyarakat Melalui Rintisan Usaha Berbasis Potensi Lokal Pasca Bencana Hidrometeorologi di Desa Simangulampe, Kecamatan Baktiraja, Kabupaten Humbang Hasundutan

2024

Rintisan Usaha Berbasis Potensi Lokal Pasca Bencana Hidrometeorologi di Desa Simangulampe, Kecamatan Baktiraja, Kabupaten Humbang Hasundutan

MARIAH ULFA , RIDWANTI BATUBARA

2021

Ipteks Bagi Masyarakat

PELATIHAN PEMBUATAN DAN PENGEMBANGAN PRODUK CENDERAMATA DARI PANTAI ALAM SERDANG, DESA RUGEMUK

MARIAH ULFA , RIDWANTI BATUBARA , HARISYAH MANURUNG

2024

Kegiatan Pengolahan Sampah Tepat Guna pada Kawasan Mangrove Desa Bagan Kuala Kabupaten Serdang Bedagai,

AMEILIA ZULIYANTI SIREGAR , RIDWANTI BATUBARA

Intellectual Property Rights

2021

Paten nasional

Teh Celup Daun Jeruju dengan Perasa Alami

RIDWANTI BATUBARA

2021

Paten nasional

Teh Gaharu Wikstroemia tenuiramis Miq Yang Kaya Antioksidan dan Lama Masa Simpan

RIDWANTI BATUBARA , T ISMANELLY HANUM
