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Dr. Agr. Faujiah Nurhasanah Ritonga, S.Hut., M.Si., was born on January 19, 1990. She has been a civil servant lecturer in the Forestry Study Program, Faculty of Forestry at Universitas Sumatera Utara (USU) since 2024. She is an alumna of Forestry at USU, where she graduated with a Bachelor's degree in Forestry in 2012. Currently, she specializes in Forest Plant Genetic Engineering. Driven by a strong interest in learning, she pursued her master's degree in the Tropical Silviculture Study Program, Faculty of Forestry, IPB, with a specialization in Tree Genetics, and graduated in 2016 with a Master of Science (M.Sc.) degree. From 2017 to 2018, she was awarded the China Scholarship Council (CSC) scholarship to study Chinese (Mandarin) at Northeast Forestry University, Harbin, China. In 2018, she received another CSC scholarship for her doctoral studies in the Department of Genetics and Tree Breeding, Faculty of Forestry, Northeast Forestry University, Harbin, China, and completed her degree in 2022. This woman of Batak descent then continued her Postdoctoral Fellowship program at the Institute of Vegetables, Shandong Academy of Agricultural Science, Jinan, China, from 2022 to 2024. To date, she actively serves as an author and reviewer for reputable national and international journals.

Publications

2026

Book chapter internasional

Biodiversity, Global Patterns, Conservation Strategies, and Ecisystem Resilience

FAUJIAH NURHASANAH RITONGA , MOHAMMAD BASYUNI , Su Chen , Runxian Song

2026

Jurnal nasional terakreditasi

SOIL PROPERTIES AND RAINFALL REGIMES IN CINNAMON (*Cinnamomum burmannii*) PLANTATIONS IN MANDAILING NATAL, NORTH SUMATRA

NELLY ANNA , FAUJIAH NURHASANAH RITONGA , ARIDA SUSILOWATI , DEANOVA FRESTIANA BR PELAWI , KANSIH SRI HARTINI , DENI ELFIATI , ANDI TRI LESTARI

2026

Jurnal internasional bereputasi

Deciphering Defense Mechanisms and Genetic Determinants of Insect Resistance in Brassica Species

FAUJIAH NURHASANAH RITONGA

2026

Buku lainnya

Cold Stress, Endothelial Cell Dysfunction and Related Diseases: Mechanistic Links and Research Progress

FAUJIAH NURHASANAH RITONGA

2026

Buku lainnya

Reviewer Jurnal "Genome-wide analysis of DC1 domain proteins in Ipomoea species reveals IbCHR10 as a positive regulator of salt tolerance in sweetpotato"

FAUJIAH NURHASANAH RITONGA

2026

Buku lainnya

Reviewer Jurnal "Time-course transcriptomic information unravels the adaptation strategies of *Nicotiana tabacum* to drought stress through altered root system architecture"

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2026

Buku lainnya

Reviewer Jurnal "Reference based Transcriptome Assembly of *Piper Nigrum* Reveals Novel Genes and Transcripts in Drought Tolerance"

FAUJIAH NURHASANAH RITONGA

2026

Buku lainnya

Reviewer Jurnal "Transcriptomic Profiling Across Developmental Stages of 2 *Camellia petelotii* (Merr.) Sealy Flower"

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2026

Buku lainnya

Reviewer Jurnal "Uncertainties of Forest Resources as Enhanced by Uncontrolled Anthropogenic Activities in Rural Tanzania: A case of Kigosi Forest in Bukombe District"

FAUJIAH NURHASANAH RITONGA

2026

Buku lainnya

Reviewer Jurnal "Soil environment, physiological metabolism and ornamental traits of *zinnia* response to water and nitrogen coupling in a cold and arid environment"

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2026

Buku lainnya

Reviewer Jurnal "Genome-wide analysis of Alfalfa AP2/ERF gene family and abiotic stress response"

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2026

Buku lainnya

Reviewer Jurnal "Phased Antioxidant and Osmotic Regulation Coordinate the Overwintering Adaptation of *Arundo donax* Rhizomes under Field Freezing Conditions"

FAUJIAH NURHASANAH RITONGA

2026

Buku lainnya

Reviewer Jurnal"Comprehensive Evaluation of Maize Germplasm for Alkali Tolerance during Germination"

FAUJIAH NURHASANAH RITONGA

2026

Buku lainnya

Reviewer Jurnal "The Heat-Stability of PSII Depends on PSII Repair, While the 2 Chilling Stability of PSII Depends on the Damage of PSII In 3 *Triticum aestivum* and *Oryza sativa*"

FAUJIAH NURHASANAH RITONGA

2025

Buku lainnya

Reviewer Jurnal "Diversity of Phenological Characteristics and Fruit Quality of 2 the Chinese Honeyberry (*Lonicera caerulea*) Collection"

FAUJIAH NURHASANAH RITONGA

2025

Prosiding seminar internasional

Functional EST-SSR marker development from tip shoot transcriptome of Bambusa oldhamii for genetic studies and breeding

DEANOVA FRESTIANA BR PELAWI , Runxian Song , FAUJIAH NURHASANAH RITONGA , TRIATY HANDAYANI , ARIDA SUSILOWATI

2025
Jurnal internasional

Transcriptome-based discovery of EST-SSR markers in Cephalostachyum pingbianense rhizome buds

DEANOVA FRESTIANA BR PELAWI , Runxian Song , Xin Fu , RHOMI ARDIANSYAH , FAUJIAH NURHASANAH RITONGA

2025
Buku lainnya

Reviewer Manuscript ICONART dan ICBAFORA

FAUJIAH NURHASANAH RITONGA , NELLY ANNA , DEANOVA FRESTIANA BR PELAWI , AHMAD BAIQUNI RANGKUTI , NOVITA ANGGRAINI

2025
Buku lainnya

Reviewer Jurnal "Genome-wide analysis of the FAD gene family in Solanum tuberosum L. reveals its involvement in cold stress tolerance"

FAUJIAH NURHASANAH RITONGA

2025
Buku lainnya

Reviewer Jurnal "DNA barcoding and relation with nutritional traits of glasswort ecotypes from Apulia region (southern Italy)"

FAUJIAH NURHASANAH RITONGA

2025
Jurnal internasional bereputasi

Evaluation of sea turtle handling methods in a captive facility in Nipah, Indonesia

BUDHY SETIAWAN , MAISER SYAPUTRA , ENDAH WAHYUNINGSIH , PANDE KOMANG SUPARYANA , ANDI TRI LESTARI , FAUJIAH NURHASANAH RITONGA

2025
Buku lainnya

Reviewer Jurnal "Heat stress resistance in Camelina sativa: morphological, physiological, yield and seed quality responses"

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2025
Prosiding seminar internasional

Expressed sequence tag simple sequence repeats (EST-SSRs) mining and marker development from Shorea curtisii leaf transcriptome over a flowering season

FAUJIAH NURHASANAH RITONGA , DEANOVA FRESTIANA BR PELAWI , NOVITA ANGGRAINI , RAJJITHA HANDAYANI , Arina Nur Faidah , Fitri Indriani

2025
Prosiding seminar internasional

The Influence of nectar sources, stup types of stingless bee (Heterotrigona itama) to produce honey bee in Langkat Mangrove area, Northern Sumatra

MOHAMMAD BASYUNI , AMEILIA ZULIYANTI SIREGAR , ETTI SARTINA SIREGAR , ARIF NURYAWAN , ERNI JUMILAWATY , IWAN RISNASARI , FAUJIAH NURHASANAH RITONGA

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Prosiding seminar internasional

The Influence of nectar sources, stup types of stingless bee (Heterotrigona itama) to produce honey bee in Langkat Mangrove area, Northern Sumatra

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2025
Buku lainnya

Reviewer Jurnal "Identification, characterization, and expression analysis of

WRKY transcription factors in Gynostemma pentaphyllum during tissue growth and cadmium stress"

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2025

[Buku lainnya](#)

Reviewer Jurnal "Regulation of Heat Tolerance by Iron Chlorine E6 in "84K"Poplar Tissue Culture Seedlings: A Study Coupled with Metabolomic and Transcriptomic Analysis" Revision

FAUJIAH NURHASANAH RITONGA

2025

[Buku lainnya](#)

Reviewer Jurnal "Salt Stress Responses and Tolerance Mechanisms in Native Desert Plants of the UAE: Growth, Biochemical, and Antioxidant Perspectives"

FAUJIAH NURHASANAH RITONGA

2025

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Reviewer Jurnal "Mitigation of soil water stress by moderately deep sowing and exogenous application of glucosinolate during the early seedling stage in rapeseed"

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Revieer Jurnal "Metatranscriptomics for Mycobiome: Advances and Challenges 2 in Bioinformatic Analysis"

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Reviewer Jurnal "Post-transcriptional regulation dominates protein biosynthesis in Landoltia punctata under biogas surry stress"

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[Jurnal internasional bereputasi](#)

Unraveling the multifaceted roles of SPL transcription factors in leaf development

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Reviewer Jurnal "Melatonin improves the tolerance of Tartary buckwheat to 2 drought stress by coordinating carbon and nitrogen metabolism 3 and endogenous hormone levels"

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Reviewer Jurnal "Genotype-Specific Modulation of Drought Tolerance by Arbuscular Mycorrhizal Symbiosis in Foxtail Millet"

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Reviewer Jurnal "Integrated Transcriptomic and Proteomic Profiling Reveals the Molecular Mechanisms underlying Heat Tolerance in Pakchoi (Brassica rapa subsp. chinensis)"

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Reviewer Jurnal "Comparison of physiological responses of two apricot-plum

hybrid cultivars under low temperature stress"

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Reviewer Jurnal "Spraying exogenous brassinosteroids at the silking stage allevi-2 ate the effects of post-silking heat stress on photosynthetic per-3 formance of waxy maize"

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Reviewer Jurnal Transcriptome and metabolome analysis demonstrate critical contribution of flavonoid biosynthesis and galactose metabolism to salt resistance of rice roots""

FAUJIAH NURHASANAH RITONGA

2025

Jurnal internasional bereputasi

The integrated function of roots in plant salt tolerance

FAUJIAH NURHASANAH RITONGA , Bing Cui , Yiran Xu , Yancan Li , Jie Song , Jianwei Gao , Jingjuan Li

2025

Buku lainnya

Reviewer Jurnal "Regulation of Heat Tolerance by Iron Chlorine E6 in ‘84K’ Poplar Tissue Culture Seedlings: A Study Coupled with Metabolomic and Transcriptomic Analysis"

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Buku lainnya

Reviewer Jurnal "Artificial Intelligence in Forest Pathology: Opportunities and 2 Challenges"

FAUJIAH NURHASANAH RITONGA

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Buku lainnya

Reviewer Jurnal "Genome-wide identification and functional characterization of the CP12 gene family in Cotton reveals its critical role in heat stress response"

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Buku lainnya

Reviewer Jurnal " Elucidation of drought tolerance mechanisms of different mungbean genotypes based upon physiological, biochemical and genetic mechanisms"

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Reviewer Jurnal "Antioxidative enzyme mechanisms of sweet potato [Ipomoea batatas (L.) Lam] advanced breeding lines under polyethylene glycol-mediated osmotic stress conditions"

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Buku lainnya

Reviewer Jurnal "Optimizing eDNA Metabarcoding in Indonesia Freshwaters: A Scoping Review of Best Practise

FAUJIAH NURHASANAH RITONGA

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Reviewer Jurnal "Analysis of Salt Resistance Conferred by Salt Overly Sensitive

3 from Mulberry (Morus notabilis)"

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Reviewer Jurnal "Genome-wide identification and expression profiling of MYC 2 family genes response to various stresses in Toona sinensis"

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Reviewer jURNAL "Gene Expression Changes in Grapevine (Vitis vinifera) Under 2 Severe Cold Stress: Impact of a Preventive Natural Polysaccha- 3 ride-based Biogel"

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Reviewer Jurnal "Transcriptomic data assessment of wild and an improved vari-2 ety of Trifolium repens L. in relation to altitude and external factors"

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2025

Jurnal internasional bereputasi

Integrated Analysis of Phenotypic, Physiological, and Biochemical Traits in Betula platyphylla Sukaczew Under Cold Stress Conditions

NELLY ANNA , LASWI IRMAYANTI , FAUJIAH NURHASANAH RITONGA , PEBRIANDI

2025

Buku referensi

Pemuliaan Pohon

FAUJIAH NURHASANAH RITONGA , LASWI IRMAYANTI , AISJAH RACHMAWATY RYADIN , ANA TAMPANG , RIMA HERLINA SETIAWATI SIBURIAN , NAPSIAH HELUT , INDRIYANTO

2025

Buku referensi

Ilmu Tanah Hutan

FAUJIAH NURHASANAH RITONGA , AQSHAN SHADIKIN NURDIN , JACOB KAILOLA , TRI MULYA HARTATI , DINA OKTAVIA , SABARIA NIAPELE , FADILA TAMNGE , PEBRIANDI , LASWI IRMAYANTI

2024

Jurnal internasional bereputasi

Exploiting Brassica rapa L. subsp. pekinensis Genome Research

FAUJIAH NURHASANAH RITONGA

Researches

2026

Sustainable Silvofishery and Blue Carbon (SBC): Case study

MOHAMMAD BASYUNI , BEJO SLAMET , ARIDA SUSILOWATI , FAUJIAH NURHASANAH RITONGA , ETTI SARTINA SIREGAR , Severino Salmo III

2025

Investigasi Biomassa, Karbon Stok dan Jasa Ekosistem Lainnya di Hutan Mangrove dan Konversinya

MOHAMMAD BASYUNI , BEJO SLAMET , IDA LIANA TANJUNG , FAUJIAH NURHASANAH RITONGA , Severino Salmo III

2025

EKSPLORASI POHON PLUS KEMIRI (Aleurites moluccanus) SEBAGAI STRATEGI AWAL PROGRAM PEMULIAAN POHON

FAUJIAH NURHASANAH RITONGA , DEANOVA FRESTIANA BR PELAWI

2025

**KARAKTERISTIK MORFOLOGI DAN RESPON PERTUMBUHAN POPULASI BIJI
DAN ANAKAN KAYU MANIS (Cinnamomum burmanni (Nees & T. Nees)
Blume) DI SUMATERA UTARA**

ARIDA SUSILOWATI , FAUJIAH NURHASANAH RITONGA , DEANOVA FRESTIANA BR PELAWI

Community Services

2026
Ipteks Bagi Masyarakat

**Edukasi dan Pelatihan Mounting Platycerium Sebagai Alternatif Usaha
Produktif Ibu Rumah Tangga**

DENI ELFIATI , KANSIH SRI HARTINI , MA RIFATIN ZAHRAH , IWAN RISNASARI , FAUJIAH NURHASANAH RITONGA ,
DEANOVA FRESTIANA BR PELAWI , EVALINA HERAWATI , NOVITA ANGGRAINI , HARISYAH MANURUNG , NELLY ANNA

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Buku Pemuliaan Pohon

FAUJIAH NURHASANAH RITONGA , LASWI IRMAYANTI , AISJAH RACHMAWATY RYADIN , RIMA HERLINA SETIAWATI
SIBURIAN