Dr. Agr. Faujiah Nurhasanah Ritonga, S.Hut., M.Si

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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
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Genetic characteristics and agronomic traits in leafy head Chinese cabbage breeding

FAUJIAH NURHASANAH RITONGA

2026
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Biodiversity, Global Patterns, Conservation Strategies, and Ecisystem Resilience

FAUJIAH NURHASANAH RITONGA , MOHAMMAD BASYUNI , SANTY DEASY SIREGAR , Shofiyah Sabilah Al Mustaniroh , Shigeyuki Baba

2026
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Biodiversity and Ecosystem Functions of Sumatran Mangroves Under Anthropogenic Pressures

Shigeyuki Baba , MOHAMMAD BASYUNI , SANTY DEASY SIREGAR , FAUJIAH NURHASANAH RITONGA

2026
Buku referensi

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MOHAMMAD BASYUNI , FAUJIAH NURHASANAH RITONGA

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Biodiversity and Ecosystem Functions of Sumatran Mangroves Under

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Shigeyuki Baba , MOHAMMAD BASYUNI , SANTY DEASY SIREGAR , FAUJIAH NURHASANAH RITONGA

2026
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Deciphering Defense Mechanisms and Genetic Determinants of Insect Resistance in Brassica Species

FAUJIAH NURHASANAH RITONGA

2026
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Cold Stress, Endothelial Cell Dysfunction and Related Diseases: Mechanistic Links and Research Progress

FAUJIAH NURHASANAH RITONGA

2026
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Reviewer Jurnal "Genome-wide analysis of DC1 domain proteins in Ipomoea species reveals IbCHR10 as a positive regulator of salt tolerance in sweetpotato"

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2026
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Reviewer Jurnal "Time-course transcriptomic information unravels the adaptation strategies of Nicotiana tabacum to drought stress through altered root system architecture"

FAUJIAH NURHASANAH RITONGA

2026
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2026
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Reviewer Jurnal "Phased Antioxidant and Osmotic Regulation Coordinate the Overwintering Adaptation of Arundo donax Rhizomes under Field Freezing Conditions"

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2026
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FAUJIAH NURHASANAH RITONGA

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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

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

FAUJIAH NURHASANAH RITONGA

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Genetic characteristics and agronomic traits in leafy head Chinese cabbage breeding

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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

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

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Reviewer Jurnal "Identification, characterization, and expression analysis of WRKY transcription factors in Gynostemma pentaphyllum during tissue growth and cadmium stress"

FAUJIAH NURHASANAH RITONGA

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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

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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

2025
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Reviewer Jurnal "Salt Stress Responses and Tolerance Mechanisms in Native Desert Plants of the UAE: Growth, Biochemical, and Antioxidant Perspectives"

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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"

FAUJIAH NURHASANAH RITONGA

2025
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Revieer Jurnal "Metatranscriptomics for Mycobiome: Advances and Challenges 2 in Bioinformatic Analysis"

FAUJIAH NURHASANAH RITONGA

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

FAUJIAH NURHASANAH RITONGA

2025
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)"

FAUJIAH NURHASANAH RITONGA

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

FAUJIAH NURHASANAH RITONGA

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

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

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

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2025
Buku lainnya

Reviewer Jurnal "Analysis of Salt Resistance Conferred by Salt Overly Sensitive 3 from Mulberry (Morus notabilis)"

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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"

FAUJIAH NURHASANAH RITONGA

2025
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Integrated Analysis of Phenotypic, Physiological, and Biochemical Traits in Betula platyphylla Sukaczev 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

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Jurnal internasional bereputasi

Exploiting Brassica rapa L. subsp. pekinensis Genome Research

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Buku Pemuliaan Pohon

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