Prof. Mohammad Basyuni, S.Hut., M.Si., Ph.D.

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Prof. Mohammad Basyuni, S.Hut., M.Si., Ph.D. is a professor at the USU Faculty of Forestry who has a wealth of achievements. The man born on April 21, 1973, was named a World-Renowned Scientist. Some of the awards he has won include the World Class Professor Award 2020 Scheme B from the Ministry of Education and Culture, the Best Researcher 1 award from Universitas Sumatera Utara, the JSPS Core to Core 2020-2023 from the Japan Society for the Promotion of Science, and various other awards.

Prof. Basyuni earned his bachelor's degree from Bogor Agricultural University and graduated with a Bachelor of Forestry (S.Hut) in 1997. He then continued his studies at the same campus and graduated in 2000 as a master of science (M.Si). In 2005, Prof. Basyuni continued his Ph.D. at the Laboratory of Molecular Biotechnology, Center of Molecular Biosciences (COMB), University of the Ryukyus and received his Ph.D. in the United Graduate School of Agricultural Sciences, Kagoshima University on March 14, 2008.

For two years (2008-2010), Prof. Basyuni was a Japan Society for the Promotion of Science (JSPS) Postdoctoral Fellow under Host Researcher Prof. Shigeyuki Baba at the Tropical Biosphere Research Center (TBRC), University of the Ryukyus. Then for 6 months (May-November 2010), Prof. Basyuni was a Foreign Visiting Researcher at the same institution with host Prof. Hirosuke Oku. In October-December 2012, the author received a Post-doc at COMB with funding from SAME (Scheme for Academic and Mobility Exchange) from the Directorate of Education Dikti, Kemdikbud. In 2013-2015 during January-March, Prof. Basyuni was a Visiting Researcher at the Joint Research in TBRC, University of the Ryukyus.

In 2018-2022, the author received an international grant from Newton Fund/DIPI/LPDP as the principal investigator in Indonesia in collaboration with the University of Glasgow and Aberystwyth University, UK. Then from 2018 until 2023, he obtained JSPS Core to Core as an Indonesia Coordinator Project. Since April 1, 2020, Prof. Basyuni has been a full professor or Full Professor of Forest Biotechnology in the USU Faculty of Forestry Undergraduate Program in Forestry. Then in 2022, the author served as the Head of the Mangrove Center of Excellence (PUI) and received recognition as a National PUI at the Ministry of Education, Culture, Research, and Technology. In 2023, he successfully obtained a grant from the Mangrove Ecology Collaborative Research Center (PKR) in collaboration with the BRIN Ecology and Ethnobiology Research Center and was shortlisted for 12 proposals submitted by the Indonesian government for SATREPS 2023 funding.

In addition, he is also interested in researching mangrove restoration, blue carbon, DNA barcodes, and eDNA meta-barcoding in mangroves and their organisms.

Publications

2026
Jurnal internasional bereputasi

Synergistic Effects of Endophytic Bacteria and Biochar on Morphophysiological Traits, Ionic Homeostasis and Grain Quality of Sorghum under Saline Soil Conditions

MOHAMMAD BASYUNI , DAFNI MAWAR TARIGAN , WAN ARFIANI BARUS , RINI SULISTIANI , SYAHDIAN, DRS, M.SI

2026
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Variation in Leaf Morphological, Anatomical, and Biochemical Traits of

Mangrove Species under Different Land Cover Conditions

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Jurnal internasional bereputasi

Screening, Dose-response, and Management of Echinochloa crus-galli Biotypes to Bispyribac-sodium: Implications for Agrohistophysiological Attributes and Amylose Content in Irrigated Rice

POSMA MANGASI PINTARIA MARBUN , ALRIDIWIRSAH , S DERA ROSA TAMPUBOLON , MOHAMMAD BASYUNI , RISNAWATI , NOVILDA ELIZABETH MUSTAMU , Koko Tampubolon

2026
Book chapter internasional

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2026
Prosiding seminar nasional

Kajian Awal Sifat Fenotipik Escherichia coli Patogen Asal Ayam Broiler dalam Upaya Pencegahan Kolibasilosis di Peternakan

NEVY DIANA HANAFI , MARUF TAFSIN , MOHAMMAD BASYUNI

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Molecular Screening of Low-Lipase Oil Palm Genotypes to Support Sustainable Crude Palm Oil Production

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Jurnal internasional bereputasi

Genetic Reference Gaps Limit eDNA Metabarcoding and Biodiversity Monitoring of Tropical Mangrove Ecosystems

MOHAMMAD BASYUNI , Tadashi Kajita , Venus Leopardas , Earl Kevin T. Cooper

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Forest Restoration and Biodiversity Corridors in Mangroves: Linking Conservation and Livelihoods

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2026
Buku referensi

Resilient Landscapes and Livelihoods: Multidisciplinary Approaches to Achieving the SDGs in Tropical Regions

Itchika Sivaipram , MOHAMMAD BASYUNI

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Book chapter internasional

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Quorum sensing inhibitory potential and molecular docking study of lipid extract from Xylocarpus granatum leaves against Pseudomonas aeruginosa

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MODIFIED BIOCHAR'S ROLE IN INCREASING RICE (ORYZA SATIVA L.) PRODUCTION WITH REDUCED MERCURY CONTENT IN MERCURY-CONTAMINATED SOILS

VITRI RENNY TRIYANTI , ROSMAYATI , MOHAMMAD BASYUNI , REVANDY I M DAMANIK

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Agro-histological performances and seed production of barnyardgrass (Echinochloa crus-galli) to 2,4-D dimethylamine in lowland rice fields

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Tantangan Global dalam Menghadapi Perubahan Iklim dan Masa Depan Berkelanjutan dengan Rehabilitasi mangrove Di Desa Bagan Kuala, Serdang Bedagai

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Spatial analysis of mangrove ecosystem dynamics in Banyuwangi: a geographically weighted regression approach

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Rehabilitation of mangrove ecosystems on the Eastern Coast of North Sumatera

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Improving soil carbon estimates of Philippine mangroves using localized organic matter to organic carbon equations

Severino Salmo III , Sean Paul B. Manalo , Richard MacKenzie , MOHAMMAD BASYUNI

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Quantification of ecosystem services from mangrove silvofishery

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Spatial analysis of land cover changes in mangrove and peatland forests in North Sumatra, Indonesia

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Estimation of mangrove carbon stocks using unmanned aerial vehicle over coastal vegetation

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Jurnal internasional bereputasi

Aboveground biomass and carbon stock estimation using UAV photogrammetry in Indonesian mangroves and other competing land uses

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Preliminary Identification of Local Maize Under Drought Stress By PEG-6000

NOVILDA ELIZABETH MUSTAMU , ALRIDIWIRSAH , MOHAMMAD BASYUNI , Dr. Koko Tampubolon, S.P., M.Agr.

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SPAD Total Chlorophyll as an Initial Indicator of the Effect of 2,4-D Dimethyl Amine Herbicide for Lowland Rice and Barnyardgrass Weed

NOVILDA ELIZABETH MUSTAMU , ALRIDIWIRSAH , MOHAMMAD BASYUNI

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Jurnal internasional bereputasi

Drought stress induced by polyethylene glycol (PEG) in local maize at the early seedling stage

Duraid K.A. AL-Taey , Mohammad Mehdizadeh , NOVILDA ELIZABETH MUSTAMU , ALRIDIWIRSAH , MOHAMMAD BASYUNI

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GLYCOSYLATED FLAVONOID COMPOUND FROM COCOA PARASITE LEAVES (Dendrophthoe pentandra (L.) Mig.)

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Morphological Characters of Local Origin Durian (Durio zibethinus Murr.) Fruits and Seeds from Central Tapanuli Regency, North Sumatra, Indonesia

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2019
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Salinity and subsequent freshwater influences on the growth, biomass, and polyisoprenoids distributi

MOHAMMAD BASYUNI , Hirosuke Oku , Hiroshi Sagami

2018
Jurnal internasional

Seedling Growth In Response To Seedling Growth Response Ofcocoa Cocoa (Theobroma Cacao L.) For For The Provision Ofguano Fertilizer And Mycorrhizal Organicfertilizer In TheÂ ...

DAFNI MAWAR TARIGAN , SRI UTAMI , MOHAMMAD BASYUNI , AISAR NOVITA , HUSNI AULIA SIREGAR

2017
Jurnal internasional bereputasi

Distribution, occurrence, and cluster analysis of new polyprenyl acetones and other polyisoprenoids

MOHAMMAD BASYUNI , Hirosuke Oku , Hiroshi Sagami

2017
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Salinity Alters the Polyisoprenoid Alcohol Content and Composition of Both Salt-Secreting and Non

Hiroshi Sagami , Hirosuke Oku , MOHAMMAD BASYUNI

2016
Jurnal internasional bereputasi

Diversity of polyisoprenoids in ten Okinawan mangroves

Hiroshi Sagami , Hirosuke Oku , MOHAMMAD BASYUNI

2014
Buku lainnya

Melalui Penelitian BPK Aek Nauli Siap mendukung Pembanguan Hutan

KANSIH SRI HARTINI , ARIDA SUSILOWATI , LUKMAN HAKIM , TITO SUCIPTO , RAHMAWATY , MOHAMMAD BASYUNI , AGUS PURWOKO , SITI LATIFAH , SAMSURI , RUDI HARTONO , PINDI PATANA

2012
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Salinity increases the triterpenoid content of a salt secretor and a non-salt secretor mangrove

Hirosuke Oku , MOHAMMAD BASYUNI

Researches

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Penelitian Kerjasama Antar Perguruan Tinggi

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Keanekaragaman dan Aktivitas Bakteri Nitrifikasi Berdasarkan Morfologi, Aktivitas Biomikia dan Molekuler pada Sedimen Mangrove Sumatera Utara

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Penerapan Kombinasi Bakteri Endogen dan Bio-Charcoal pada Sistem Ratun Sorgum Manis di Tanah Salin

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Aplikasi Formula Bakteri Endogen dengan Penambahan Bio- Charcoal pada Tanaman Sorgum Manis di Tanah Salin

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Identifikasi dan Pengelolaan Resisten Gulma Jajagoan (Echinochloa crus-galli) pada Pertanaman Padi Sawah sebagai Upaya Ketahanan dan Keamanan Pangan

ALRIDIWIRSAH , MOHAMMAD BASYUNI , Dr. Koko Tampubolon, S.P., M.Agr.

2023
Kerjasama Luar Negeri dan Publikasi Internasional

Application of eDNA metabarcoding in faunal biodiversity assessment of Indo-Pacific mangroves vulnerable to climate change

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Penelitian Hibah Bersaing

Identifikasi dan Pengelolaan Resisten Gulma Jajagoan (Echinochloa crus-galli) pada Pertanaman Padi Sawah sebagai Upaya Ketahanan dan Keamanan Pangan

ALRIDIWIRSAH , MOHAMMAD BASYUNI , Dr. Koko Tampubolon, S.P., M.Agr.

2020
Ipteks

Seleksi Molekuler dan Analisa Kimia Karakter Aktivitas Lipase Rendah pada Tanaman Kelapa Sawit (Elaeis guineensis Jacq).

MOHAMMAD BASYUNI , LUTHFI AZIZ MAHMUD SIREGAR , NINA UNZILA ANGKAT

2020
Penelitian Tim Pasca Sarjana

Variasi Somaklonal pada Tanaman Kelapa Sawit (Elaeis Guineensis Jacq.) dengan Metode Senyawa Polyisoprenoid

MOHAMMAD BASYUNI , LUTHFI AZIZ MAHMUD SIREGAR , ERKY BEBY AYU KARTIKA

2018
Kerjasama Luar Negeri dan Publikasi Internasional

Molecular Cloning, Characterization And Expression of Polyisoprenoid Synthase Genes From Indonesian and Okinawan Mangrove Forest

MOHAMMAD BASYUNI , NURDIN SULISTIYONO

2017
Kerjasama Luar Negeri dan Publikasi Internasional

Molecular Cloning, Characterization And Expression of Polyisoprenoid Synthase Genes From Indonesian and Okinawan Mangrove Forest

MOHAMMAD BASYUNI , NURDIN SULISTIYONO

Community Services

2025

Pengayaan Tanaman Mangrove dan Penguatan Pola Silvofishery untuk Mendukung Kesejahteraan Masyarakat dan Pencapaian SDGs di Desa Pasar Rawa

MOHAMMAD BASYUNI , NURDIN SULISTIYONO

2024

Kegiatan Produktif Pemberantasan Penyakit Malaria di Desa Bagan Kuala, Kabupaten Serdang Bedagai

MOHAMMAD BASYUNI , ORANG KAYA HASNANDA SYAHPUTRA

2024
Ipteks Bagi Masyarakat

Kegiatan produktif pemberantasan penyakit malaria di Desa Bagan Kuala, Kabupaten Serdang Bedagai

MOHAMMAD BASYUNI , OKE RINA RAMAYANI

2023

Ipteks

Tim Pelaksana International Community Service Pusat Unggulan Ilmu Pengetahuan, Teknologi, dan SAIN (IPTEK) Perguruan Tinggi (PUI-PT) Mangrove Tahun 2023

MOHAMMAD BASYUNI , ORANG KAYA HASNANDA SYAHPUTRA

2023

“International Community Service for Conservation and Mangrove Ecosystem Service, Collaboration With Pusat Unggulan IPTEK PUI Mangrove (Center of Excellence for Mangrove) USU Faculty of Forestry Universitas Sumatera Utara (USU) PUI Neuromarketing AND PUI Diabetic Care & Tech Universitas Prima Indonesia (UNPRI)

MOHAMMAD BASYUNI , FARHAT , ELVITA RAHMI DAULAY

2022
Ipteks Bagi Masyarakat

Pemberdayaan Masyarakat Pesisir Desa Perlis Deli Langkat melalui Kegiatan Restorasi Mangrove, Penyedian Air Bersih, dan Peningkatan Produk Olahan

MOHAMMAD BASYUNI , JULIA SYAHRIANI HASIBUAN , ASTRID FAUZIA DEWINTA , IRVAN

2020

Kemandirian Desa Lubuk Kertang Dalam Pemanfaatan dan Perlindungan Sumberdaya Mangrove dan Pertanian di Desa Lubuk Kertang, Kecamatan Brandan Barat, Kabupaten Langkat

MOHAMMAD BASYUNI , MUTIARA INDAH SARI

2014
Penelitian Kompetensi

Keanekaragaman dan Fungsi Fisiologi Rantai Panjang Polyisoprenoid di Hutan Mangr

2014
Ipteks Bagi Masyarakat

IbM Teknologi Pemeliharaan Tanaman Mangrove Program Rehabilitasi

2013
Ipteks Bagi Masyarakat

IbM Aplikasi Teknologi Pembibitan Mangrove untuk Program Rehabilitasi

2012
Penelitian Fundamental

Karakterisasi Molekuler dan Analisis Keragaman Genetik Plasma Nutfah Aren (Areng

2013
Penelitian Fundamental

Investigasi Kandungan Isoprenoid dan Karakter Morfologi Spesies Mangrove Sekresi

Intellectual Property Rights

2026
Hak cipta nasional

PAKET TEKNOLOGI BIOAMELIORAN BERBASIS BAKTERI ENDOGEN DAN BIO-CHARCOAL PADA RATUN SORGUM MANIS DI TANAH SALIN

DAFNI MAWAR TARIGAN , ANGGRIA LESTAMI , WAN ARFIANI BARUS , RINI SULISTIANI , MOHAMMAD BASYUNI

2023
Karya desain

Analisa Ekosistem Mangrove untuk Mendukung Ekowisata Mangrove di Kabupaten Bangkalan

ACHMAD FACHRUDDIN SYAH , MOHAMMAD BASYUNI

2023
Paten nasional

METODE PENERAPAN EKSTRAK DAUN GULMA DIPLAZIUM ESCULENTUM DAN RIVINA HUMILIS SEBAGAI ANTIJAMUR GANODERMA BONINENSE PADA KELAPA SAWIT

WISMAROH SANNIWATI BR SARAGIH , EDISON PURBA , LISNAWITA , MOHAMMAD BASYUNI

2023
Paten nasional

METODE EKSTRAKSI DAUN GULMA DAN IDENTIFIKASI SENYAWA METABOLIT SEKUNDER ANTIJAMUR GANODERMA BONINENSE: IN VITRO

EDISON PURBA , MOHAMMAD BASYUNI , LISNAWITA , WISMAROH SANNIWATI BR SARAGIH

2023
Paten nasional

Metode aplikasi ekstrak daun gulma Diplazium esculentum dan Rivina humilis sebagai anti jamur Ganoderma boninense pada kelapa sawit

LISNAWITA , EDISON PURBA , MOHAMMAD BASYUNI , WISMAROH SANNIWATI BR SARAGIH

2023
Paten nasional

METODE MENGEKSTRAKSI DAUN PIDADA (Sonneratia caseolaris) UNTUK MENGHASILKAN SENYAWA DERIVATIF POLIPRENIL ASETON

MOHAMMAD BASYUNI

2023
Paten nasional

METODE MENGEKSTRAKSI DAUN PIDADA (Sonneratia caseolaris) UNTUK MENGHASILKAN SENYAWA DERIVATIF POLIPRENIL ASETON

MOHAMMAD BASYUNI

2020
Paten nasional

METODE PENGIDENTIFIKASI JENIS BUAH KELAPA SAWIT MELALU I SENYAWA POLIISOPREN O I D YANG D IEKSTRAK DARI DAUN KEI.APA SAWIT

MOHAMMAD BASYUNI