Ir. Revandy Iskandar Muda Damanik, MSi.,M.Sc., Ph.D

Lecturer of Undergraduate Program in Agrotechnology Study Program
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Revandy I. M. Damanik, M.Sc., Ph.D., born in Medan on November 19, 1968, is an Agrotechnology lecturer who has special expertise in Plant Biotechnology and Abiotic Plant Stress at the Universitas Sumatera Utara.

His Education History:

- Undergraduate Program in Agronomy at the Faculty of Agriculture, Universitas Sumatera Utara.

- Masters Program in Forest Cultivation, Faculty of Forestry, Institut Pertanian Bogor, and in Faculty of Biotechnology, Wageningen University.

- PhD at Faculty of Biotechnology, Universiti Putra Malaysia (UPM)

With a broad educational background and specialization in plant biotechnology and plant resistance to abiotic stress, Ir. Revandy Damanik has made significant contributions to the field of Agrotechnology. His profile reflects his commitment to the development of science and learning at the university level and his dedication to research and innovation in agriculture.

Publications

2026
Prosiding seminar internasional
Identification of morphological characters and kinship relationships of candlenut plants (Aleurites moluccana) in Karo regency
REVANDY I M DAMANIK

2025
Buku referensi
Penurunan Merkuri Padi Sawah pada Lahan Tercemar
ROSMAYATI , MOHAMMAD BASYUNI , REVANDY I M DAMANIK , VITRI RENNY TRIYANTI

2025
Jurnal internasional bereputasi
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

2024
Prosiding seminar internasional
Analysis of molecular genetic diversity of Nephelium lappaceum L. plant in North Sumatra using RAPD markers
REVANDY I M DAMANIK , RICHARD YOSWAN

2024
Prosiding seminar internasional
Effect of waterlogging, GA3 and BAP on the growth and production of several soybeans’ varieties Glycine max L. Merril plant
REVANDY I M DAMANIK , SARAH SAFIRA

2024

Prosiding seminar internasional

Distribution and source of contamination of heavy metal mercury at paddy field in Mandailing Natal Regency, North Sumatera, Indonesia

REVANDY I M DAMANIK , ROSMAYATI , MOHAMMAD BASYUNI

2024
Prosiding seminar internasional

Protein Modelling of The Oil Palm (Elaeis guineensis Jacq.) Lipase Genes using Phyre2 and Swiss-model

MOHAMMAD BASYUNI , REVANDY I M DAMANIK

2024
Prosiding seminar internasional

Analysis of secondary metabolites through callus cell suspension culture of black cumin (Nigella sativa L.) with PGR combination on MS media

FADILA NUR AZMI , REVANDY I M DAMANIK

2024
Prosiding seminar internasional

Development of the vegetative period under salinity stress in several upland rice varieties

SHERLIANA ZAHARA , REVANDY I M DAMANIK

2024
Jurnal internasional bereputasi

Genetic Diversity and Tolerance Assessment of Rice Varieties to Mercury Contamination in Illegal Gold Mining Affected Areas: A Case Study in Mandailing Natal Regency, North Sumatra, Indonesia

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

2024
Prosiding seminar internasional

The response to various concentrations of IBA hormone and transplanting time of potato plantlets cultivar of medians

REVANDY I M DAMANIK , ANTONIO MARRO SIPAYUNG

2023
Prosiding seminar internasional

Production of biomass and flavonoids in black cumin tissue culture

MIFTAHUL JANNAH , REVANDY I M DAMANIK

2023
Jurnal nasional terakreditasi

Response of various growth regulators and shade intensity to the growth of arabica coffee seedlings of Sigarar Utang variety

REVANDY I M DAMANIK

2023
Prosiding seminar internasional

Growth of arabica coffee seeds (Coffea arabica L.) Sigarar Utang Variety as a response of treatment of various growth regulators and types of shade

CHAIRANI HANUM L , REVANDY I M DAMANIK , LOKO JEREMIA SEMBIRING

2022
Prosiding seminar internasional

The Influence of Biochar with pH, CEC, C Organic on Paddy Field

REVANDY I M DAMANIK , ANTONIO MARRO SIPAYUNG

2022
Prosiding seminar internasional

The response of paddy with biochar application and legowo planting system at Tanjung Garbus Kampung Village

ANTONIO MARRO SIPAYUNG , REVANDY I M DAMANIK

2022
Jurnal nasional

Pengembangan Keamanan Pangan Produk Pepaya Di Desa Rahuning II Kecamatan Rahuning Kabupaten Asahan

REVANDY I M DAMANIK , POSMA MANGASI PINTARIA MARBUN

2022
Prosiding seminar internasional

The role of auxin and giberalin in the growth of black cumin (Nigella sativa L.) by in vitro

MARIATI , HOT SETIADO , REVANDY I M DAMANIK

2021
Prosiding seminar internasional

The response of morphological characteristics of some Soybean Varieties (Glycine max (L.) Merill) a vegetative phase in waterlogging condition

NINI RAHMAWATI , REVANDY I M DAMANIK

2021
Prosiding seminar internasional

The phenotypic appeal of lily (Lilium longiflorum Thunb.) prompted mutation by colchicine

REVANDY I M DAMANIK

2021
Prosiding seminar internasional

Genetic diversity based on molecular analysis for Asam Gelugur (Garcinia atroviridis griff. ex t. anders) some districts in North Sumatra

EVA SARTINI BAYU , REVANDY I M DAMANIK

2021
Prosiding seminar internasional

Effect of Paclobutrazol in micro tuberization of Potato (Solanum tuberosum L.) cultivar Granola Kembang and Repita

Khairunnisa Lubis , HOT SETIADO , REVANDY I M DAMANIK

2021
Prosiding seminar internasional

The phenotypic appeal of lily (Lilium longiflorum Thunb.) prompted mutation by colchicine

REVANDY I M DAMANIK

2021
Prosiding seminar internasional

Morphology identification and description of coffee plants (Coffea sp) in Karo District

REVANDY I M DAMANIK

2021
Prosiding seminar internasional

Identification of morphological characters and kinship of coconut genotypes (Cocos nucifera L.) in Aceh Tamiang District, Aceh

DIANA SOFIA HANAFIAH , REVANDY I M DAMANIK , HOT SETIADO

2021
Prosiding seminar internasional

The response of morphological characteristics of some Soybean Varieties (Glycine max (L.) Merill) a vegetative phase in waterlogging condition

REVANDY I M DAMANIK

2020
Prosiding seminar internasional

Productivity of soybean varieties (Glycine max (L.) Merill) in vegetative phases V 4 and generative phases R classified waterlogged conditions by application of GA 3 and Salicylic Acid (SA)

REVANDY I M DAMANIK , WILBERT IGNATIUS C G

2019
Prosiding seminar internasional

Quantity and Quality Test of DNA Soybean Mutant Lines (Glycine max L. Merril) Resistant Athelia rolfsii Curzi

ANGGRIA LESTAMI , REVANDY I M DAMANIK , DIANA SOFIA HANAFIAH

2019
Prosiding seminar internasional

Growth and production of soybean (Glycine max L. Merril) varieties in response to waterlogging at vegetative (V<inf>5</inf>) growth phase by application of gibberellic acid and salicylic acid

REVANDY I M DAMANIK

2018
Prosiding seminar internasional

Effect of foliar application of α-tocopherol on vegetative growth and some biochemical constituents of two soybean genotypes under salt stress

NINI RAHMAWATI , REVANDY I M DAMANIK

2018
Prosiding seminar internasional

Effects of hypoxia condition in embryogenic callus growth of soybean cell culture

REVANDY I M DAMANIK

2018
Prosiding seminar internasional

Effect of foliar application of α-tocopherol on vegetative growth and some biochemical constituents of two soybean genotypes under salt stress

NINI RAHMAWATI , REVANDY I M DAMANIK

2016
Prosiding seminar internasional

Antioxidant activity of seedling growth in selected soybean genotypes (Glycine max (L.) Merrill) responses of submergence

POSMA MANGASI PINTARIA MARBUN , LUHUT SIHOMBING , REVANDY I M DAMANIK

2012
Jurnal internasional bereputasi

Response of antioxidant systems in oxygen deprived suspension cultures of rice (Oryza sativa L.)

REVANDY I M DAMANIK

2010
Jurnal internasional bereputasi

Responses of the antioxidative enzymes in Malaysian rice (Oryza sativa L.) cultivars under submergence condition

REVANDY I M DAMANIK

Researches

2024
Penelitian Dana Lokal Perguruan Tinggi

INDUKSI KALUS DAN ANALISIS BIOKIMIA IN VITRO POLIPLOIDI PADA JINTAN HITAM (Nigella sativa)

REVANDY I M DAMANIK , DOLLY SOJUANGAN SIREGAR

2022

Propagasi In Vitro clan Procluksi Flavonoid dalam Kultur Suspensi Sel Jintan Hitam (Nigella sativa L.)

MARIATI , REVANDY I M DAMANIK , HOT SETIADO , FADILA NUR AZMI , DERRY SYAFIRA WARDHANA , DWI YASA IRWANA DAMANIK , SHERLIANA ZAHARA

2022
Pendidikan Magister Doktor Sarjana Unggul

Pertumbuhan Bibit Kopi Arabika (Coffea arabica L.) Varietas Sigarar Utang Sebagai Respon Pemberian Berbagai Macam Zat Pengatur Tumbuh DanJenis Naungan

REVANDY I M DAMANIK , CHAIRANI HANUM L , LOKO JEREMIA SEMBIRING

2021
Penelitian Dana Lokal Perguruan Tinggi

Respon Varietas Kedelai (Glycine max L. Merrill) Toleran Genangan pada Lahan Rawa dan Pasang Surut

NINI RAHMAWATI , REVANDY I M DAMANIK

2021
Penelitian Dana Lokal Perguruan Tinggi

PENGARUH PACLOBUTRAZOL TERHADAP INDUKSI UMBI MIKRO KENTANG (Solanum tuberosum L) PADA BERBAGAI SUHU INKUBASI

DIANA SOFIA HANAFIAH , REVANDY I M DAMANIK

2016
Penelitian Unggulan Perguruan Tinggi

PENINGKATAN KETAHANAN KEDELAI TERCEKAM SALINITAS TERHADAP STRES OKSIDATIF MELALUI APLIKASI ANTIOKSIDAN EKSOGENOUS

NINI RAHMAWATI , ROSMAYATI , REVANDY I M DAMANIK

2014
Penelitian Fundamental

Optimasi Teknik Isolasi DNA Genom Pada Tanaman Bawang Merah (Allium cepa L)

MARIATI , REVANDY I M DAMANIK

2014
Ipteks Bagi Masyarakat

Pengembangan Marker Biokimia terhadap Toleransi Penggenangan beberapa varietas Kedelai (Glycine max L Merril) di SUmatera Utara

POSMA MANGASI PINTARIA MARBUN , REVANDY I M DAMANIK

Community Services

2026
Ipteks Bagi Masyarakat

Model Padi Terapung Organik Berbasis Integrasi Ikan Alami Sebagai Optimalisasi Lahan Terlantar Dan Penguatan Ketahanan Pangan Desa

SUKMAWATI UTAMI , MEIRIANI , ATMADINATA AVIANTARA , REVANDY I M DAMANIK , SRI FAJAR AYU, SP, MM, DBA , NAHRISA RAHMADHANI

2024
Penelitian Dana Lokal Perguruan Tinggi

Penerapan IPTEKS Pengembangan Produksi Lele untuk Keamanan dan Kenyamanan Pangan Hewani Bagi Keluarga di Desa Sijabut Teratai Kecamatan Air Batu Kabupaten Asahan

IRNAWATI MARSAULINA , REVANDY I M DAMANIK , TASRIF HAMDI

2021
Ipteks Bagi Masyarakat

Pengembangan Keamanaan Pangan Produk Pepaya di Desa Rahuning II Kec Rahuning Kabupaten Asahan

POSMA MANGASI PINTARIA MARBUN , REVANDY I M DAMANIK

2019

Pelatihan dan Penyediaan Demplot Budidaya Ikan Sistem Bioflok sebagai Upaya Memperkuat Ketahanan Pangan Masyarakat, Membangkitkan Ekonomi Kreatif, serta Mitigasi Keramba Jaring Apung Danau Toba

HELOVA LEONARD PANJAITAN , JONATAN GINTING , REVANDY I M DAMANIK , LUHUT SIHOMBING , FERRY EZRA T SITEPU

2014
Ipteks Bagi Masyarakat

Pelatihan Bertanam Bawang Merah Sistem Vertikultur di Kelurahan Padang Bulan Selayang II

MARIATI , DIANA SOFIA HANAFIAH , REVANDY I M DAMANIK