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Prof. Dr. Miswar Budi Mulya, S.Si, M.Si, was born in Medan on October 10, 1969. He obtained his Bachelor of Science in Biology from the Faculty of Mathematics and Natural Sciences at the Universitas Sumatera Utara 1995. He then pursued his Master of Science degree in 2000 and his Doctorate in Marine Science (Marine Biology) from Bogor Agricultural University in 2012. Since 1997, he has been dedicated to teaching as a faculty member in the Biology Study Program at the Faculty of Mathematics and Natural Sciences, specializing in General Ecology.

He has served as the Head of the General Ecology Laboratory from 2000 to 2004. From 2017 to 2021, he was appointed as the Chairperson of the Master's and Doctoral Program in Natural Resources and Environmental Management at the Graduate School of the Universitas Sumatera Utara. Since 2021, he has been entrusted with the position of Vice Dean III of the Faculty of Mathematics and Natural Sciences, responsible for Research, Community Service, Cooperation, and Information. As a faculty member in the field of General Ecology, he teaches several courses such as General Ecology, Marine Biology, Algal Biology, Conservation Biology, Ecological Analysis, Aquatic Ecology, Conservation of Aquatic Ecosystems, Coastal Ecosystem Ecology, River Basin and Lake Management, and Preparation of Aquatic Ecology Proposals for Bachelor's, Master's, and Doctoral Programs in Biology, as well as the Master's Program in Natural Resources and Environmental Management. In addition, from 2016 to 2021, he expanded his duties as the Chairperson of the North Sumatra Marine Partner.

He has also been appointed as a reviewer for the Journal of Learning and Biology Nucleus (Sinta 3) at Labuhan Batu University since 2018. He has won several national research grants through the Directorate General of Research and Technology Development, university-level grants, and community service grants.

Publications

2025

Jurnal nasional terakreditasi

Integrating Education, Technology, and Sustainable Practices for Community Empowerment in Siponjot Village

MISWAR BUDI MULYA

2025

Jurnal nasional

The Condition of Coral Reefs Ecosystem in Poncan Gadang Island Sibolga City and Management Efforts

MISWAR BUDI MULYA

2024

Jurnal internasional bereputasi

Composition and Dominance of Fish Species on the Coast of Deli Serdang District, North Sumatra

MAYANG SARI YEANNY , MISWAR BUDI MULYA

2024

Prosiding seminar internasional

Potential of Coral Resilience Post Bleaching in 2016 in the Water of Ujong Seuke East Coast of Weh Island Indonesia

Muhammad Ali Sarong , Nadia Aldyza , MISWAR BUDI MULYA , TERNALA ALEXANDER BARUS

2024

Prosiding seminar internasional

Structure and Dominance of Macrozoobenthos as Biomonitoring Instrument in the Reuleng River, Leupung, Aceh Besar, Indonesia

ZULFIKAR , M. ALI S , AFKAR , TERNALA ALEXANDER BARUS , NADIA ALDYZA , MISWAR BUDI MULYA

2023

Jurnal internasional bereputasi

Assessment of community-based sanitation management in coastal areas from an economic and financial perspective

MISWAR BUDI MULYA , LITA SRI ANDAYANI , SUSILAWATI , R. HAMDANI HARAHAHAP

2023

Buku referensi

Biologi Laut

MISWAR BUDI MULYA

2023

Jurnal nasional terakreditasi

Hubungan Sistem Usaha Tambak Dengan Jenis Teknologi Yang Digunakan Untuk Produksi Tambak Di Desa Tanjung Rejo Kecamatan Percut Sei Tuan

NOORSHEHA , HENRI SITORUS , MISWAR BUDI MULYA

2023

Jurnal internasional bereputasi

The prevalence of coral health issues in the conservation area of Benteng, Weh Island, Sabang, Indonesia

MISWAR BUDI MULYA

2023

Jurnal internasional

The prevalence of coral health issues in the conservation area of Benteng, Weh Island, Sabang, Indonesia

NADIA ALDYZA , AFKAR , MISWAR BUDI MULYA

2023

Jurnal internasional

Model of Phytoplankton Diversity in Belawan River, North Sumatera, Indonesia

TERNALA ALEXANDER BARUS , MISWAR BUDI MULYA , HERMAN MAWENGGANG , MAYANG SARI YEANNY

2023

Jurnal internasional bereputasi

Behavior model of community-based sanitation management in coastal areas: Confirmatory factor analysis (vol 8, e11756, 2019)

MISWAR BUDI MULYA , R. HAMDANI HARAHAHAP , LITA SRI ANDAYANI

2023

Jurnal internasional bereputasi

Corrigendum to "Behavior model of community-based sanitation management in coastal areas: Confirmatory factor analysis" [Heliyon Volume 8, Issue 11, June 2019, Article e11756] (Heliyon (2022) 8(11), (S2405844022030444), (10.1016/j.heliyon.2022.e11756))

R. HAMDANI HARAHAHAP , MISWAR BUDI MULYA , LITA SRI ANDAYANI , Susilawati

2022

Jurnal internasional bereputasi

Coral resilience inside and outside of Pesisir Timur Pulau Weh conservation zone, Sabang City, Indonesia

MISWAR BUDI MULYA , M. ALI S , TERNALA ALEXANDER BARUS , NADIA ALDYZA

2022

Jurnal internasional bereputasi

Behavior Model of Community-Based Sanitation Management In Coastal Areas: Confirmatory Factor Analysis

R. HAMDANI HARAHAHAP , MISWAR BUDI MULYA , LITA SRI ANDAYANI , Susilawati

2022
Jurnal internasional bereputasi

Density, morphometric characteristics and distribution pattern of Asiatic hard clam (*Meretrix meretrix*) in Karang Gading estuary, Deli Serdang District, Indonesia

MISWAR BUDI MULYA , TERNALA ALEXANDER BARUS

2022
Jurnal nasional

KERAGAMAN BIVALVIA DI PANTAI SIALANG BUAH SUMATERA UTARA

NOORSHEHA , MISWAR BUDI MULYA

2022
Jurnal internasional bereputasi

Density, length-frequency distribution and growth pattern of *Penaeus monodon* in Karang Gading estuar

MISWAR BUDI MULYA , TERNALA ALEXANDER BARUS

2022
Jurnal nasional terakreditasi

Coral Covers and The Abundance of Chaetodontidae in Suaka Alam Perairan of Weh Island Aceh

MISWAR BUDI MULYA , TERNALA ALEXANDER BARUS

2022
Jurnal internasional

Silvofishery: In What Mangrove Coverage Condition Can this System Provide Benefits for the Community?

MISWAR BUDI MULYA , AZHAR , ZULKIFLI

2022
Jurnal nasional terakreditasi

Analysis of Compliance with Capture Fisheries Licensing in Belawan Waters at the One-stop Integrated Licensing Service and Investment Office of Sumatera Utara Province

AGUS PURWOKO , MISWAR BUDI MULYA

2022
Jurnal internasional bereputasi

Mangrove species diversity and carbon stock insilvofishery ponds in Deli Serdang District, North Sumatra, Indonesia

ZULKIFLI , MISWAR BUDI MULYA , AZHAR

2021
Jurnal internasional bereputasi

Study of *Anadara antiquata* stock in Kuala Puteri Beach, North Sumatra

MISWAR BUDI MULYA , ARLEN H J

2021
Jurnal internasional bereputasi

Checklist of phytoplankton and their abundance in Toba Lake, North Sumatra, Indonesia

SYAFRUDDIN ILYAS , TERNALA ALEXANDER BARUS , MISWAR BUDI MULYA

2021
Jurnal nasional terakreditasi

Kondisi dan Pengelolaan Kawasan Hulu DAS Belawan Hubungannya dengan Tingkat Bahaya Erosi pada Lahan Budidaya di Kabupaten Deli Serdang

MISWAR BUDI MULYA , ABDUL RAUF

2021
Jurnal internasional bereputasi

Population dynamics of anchovy pekto (*Stolephorus waitei*) in the waters of Malacca Strait, North Sumatra, Indonesia

ZULHAM APANDY HARAHAHAP , MISWAR BUDI MULYA , ARLEN H J

2020
Jurnal internasional

Seismic micro-zonation framework for earthquake risk in Medan-North Sumatera Indonesia using geotechnical engineering survey

MISWAR BUDI MULYA

2019
Jurnal internasional bereputasi

Reproductive Biology of Pacific Oyster (*Crassostrea gigas*): A Decade after the Tsunami Disaster in Aceh, Indonesia

TERNALA ALEXANDER BARUS , MISWAR BUDI MULYA

2019
Jurnal internasional bereputasi

Reproductive Biology of Pacific Oyster (*Crassostrea gigas*): A Decade after the Tsunami Disaster in Aceh, Indonesia

TERNALA ALEXANDER BARUS , AGUNG SETIA BATU BARA , LILI KASMINI , M. ALI S , MISWAR BUDI MULYA

2019
Jurnal internasional

The Effort to Maintain Mangrove Forest through the Development of Silvofishery Pond

ZULKIFLI , AZHAR , MEILINDA SURIANI HAREFA , MISWAR BUDI MULYA

2019
Jurnal internasional

Analysis of Factors Affecting The Production of Pond Business in Tanjung Rejo Village, District Deli Serdang

MISWAR BUDI MULYA , HENRI SITORUS , NOORSHEHA

2019
Jurnal internasional

Phytoplankton diversity of Situmurun village, Toba Samosir regency, North Sumatera

TERNALA ALEXANDER BARUS , SYAFRUDDIN ILYAS , MISWAR BUDI MULYA

2019
Jurnal internasional

Condition Factor and Exploitation Rates of *Scylla serrata* in Karang Gading Sumatera Utara

MISWAR BUDI MULYA

2019
Jurnal internasional

Abundance and Growth Parameter of Mangrove Crab (*Scylla serrata*) in Estuary Water of Karang Gading, District Deli Serdang

MISWAR BUDI MULYA

2019
Jurnal internasional

Phytoplankton diversity of Situmurun village, Toba Samosir regency, North-Sumatera

SYAFRUDDIN ILYAS , MISWAR BUDI MULYA , TERNALA ALEXANDER BARUS , IKA ROSENTA PURBA

2018
Jurnal internasional

Abundance and Ponderal Index of White Shrimp (*Penaeus merguensis*) in Estuary Water

MISWAR BUDI MULYA

2018
Jurnal internasional bereputasi

Abundance and Ponderal Index of White Shrimp (*Penaeus merguensis*) in Estuary Water

YUNASFI , MISWAR BUDI MULYA

2018
Jurnal internasional

Macrozoobenthos diversity as bioindicator of water quality in the Bilah river, Rantauprapat

MISWAR BUDI MULYA , TERNALA ALEXANDER BARUS , ARMAN HARAHAP , M. ALI S

2018
Jurnal internasional

Morphometric study of pacific oyster (*Crassostrea gigas*) in the coastal area of Banda Aceh

LILI KASMINI , MISWAR BUDI MULYA , TERNALA ALEXANDER BARUS , M. ALI S

2018
Jurnal internasional

The effect of environmental management based micro, small & medium enterprises (MSMEs) empowerment on the achievement of sustainable development

MISWAR BUDI MULYA

2018
Jurnal nasional terakreditasi

Hubungan panjang berat dan faktor kondisi tiram (*Crassostrea gigas*) di Kawasan Estuari Tibang dan Ulee Lheue, Kota Banda Aceh

MISWAR BUDI MULYA , TERNALA ALEXANDER BARUS , M. ALI S , LILI KASMINI

2018
Jurnal internasional

Production of litter and detritus related to the density of mangrove

MISWAR BUDI MULYA

2018
Jurnal internasional

Density and white shrimp growth pattern (*penaeus merguensis*) in kampung nipah waters of perbaungan north sumatera

MISWAR BUDI MULYA , SRINATALIA SILAEN

2017
Jurnal nasional

KEANEKARAGAMAN MAKROZOOBENTOS SEBAGAI BIOINDIKATOR DI PERAIRAN ESTUARI SUAKA MARGASATWA KARANG GADING KABUPATEN DELI SERDANG (The diversity of macrozoobenthos as a bioindicator, ...

YUNASFI , MISWAR BUDI MULYA

2017
Jurnal nasional

Kajian Morfologis dan Kelimpahan Ikan Sili (Famili: Mastacembelidae) di Sungai Seruai Desa Namu Suro Kabupaten Deli Serdang Provinsi Sumatera Utara “Morphological Studies and …

MISWAR BUDI MULYA

2017
Jurnal nasional

PERTUMBUHAN DAN LAJU EKSPLOITASI IKAN TERI PEKTO (*Stolephorus Waitei*) DI PERAIRAN BELAWAN KOTA MEDAN SUMATERA UTARA “Growth and the rate exploitation of Anchovy Pekto, ...

MISWAR BUDI MULYA

2016
Jurnal nasional

KEANEKARAGAMAN PERIFITON DI SUNGAI BELAWAN KECAMATAN PANCUR BATU KABUPATEN DELI SERDANG PROVINSI SUMATERA UTARA Diversity of Periphyton in the Belawan River Subdistrict Pancur, ...

CAMELINA SIMBOLON , MISWAR BUDI MULYA , DESRITA

2016
Tulisan ilmiah

Distribusi dan Pola Pertumbuhan Udang Putih (*Penaeus merguensis* de Man) di Perairan Estuari Suaka Margasatwa Karang Gading Sumatera Utara

MISWAR BUDI MULYA

2016

Jurnal nasional

Studi Kesesuaian dan Daya Tarik Wisata di Pantai Bosur Tapanuli Tengah Ditinjau dari Aspek Biofisik (Study of Suitability and Appeal of Tourism in Bosur Beach Central Tapanuli ...

BRAWIJAYA HUTABARAT , ZULHAM APANDY HARAHAP , MISWAR BUDI MULYA

2015

Jurnal nasional

Studi Morfometrik dan Meristik Ikan Lemeduk (*Barbodes schwanefeldii*) di Sungai Belumai Kabupaten Deli Serdang Morphometric and Meristic Study of Lemeduk Fish (*Barbodes* ...

MISWAR BUDI MULYA

2014

Jurnal nasional

Tingkat Pemanfaatan dan Keberlanjutan Ikan Sebelah (*Psettodes* spp.) di Perairan Selat Malaka, Kabupaten Serdang Bedagai, Sumatera Utara

MISWAR BUDI MULYA , DESRITA

2014

Jurnal nasional

Desrita. 2014. Potensi, Tingkat Pemanfaatan dan Keberlanjutan Ikan Sebelah (*Psettodes* spp.) di Perairan Selat Malaka, Kabupaten Serdang Bedagai, Sumatera Utara

MISWAR BUDI MULYA , DESRITA

2014

Jurnal nasional

Uji Toksisitas Akut Limbah Cair Industri Tahu terhadap Ikan Patin (*Pangasius* sp.) (Acute Toxicity Test of Tofu Industrial Wastewater for Catfish (*Pangasius* sp.))

MISWAR BUDI MULYA

2014

Jurnal nasional

KEANEKARAGAMAN PLANKTON DI PERAIRAN SUNGAI ASAHAN SUMATERA UTARA (Diversity Plankton in Asahan River North Sumatera)

MISWAR BUDI MULYA

2012

Jurnal nasional

Prosiding Seminar Nasional Biologi: Peran Biologi Dalam Meningkatkan Daya Saing Global (Medan, 11 Mei 2012)

MISWAR BUDI MULYA

2011

Jurnal nasional terakreditasi

Distribusi dan pola pertumbuhan udang putih (*Penaeus merguensis* de Man) di Ekosistem Mangrove Percut Sei Tuan Sumatera Utara

MISWAR BUDI MULYA

2006

Jurnal nasional

Kondisi Terumbu Karang Berdasarkan Porsen Tutupan di Pulau Karang Provinsi Sumatera Utara dan Hubungannya dengan Kualitas Perairan

MISWAR BUDI MULYA

2004

Jurnal nasional

Keanekaragaman Ikan di Sungai Deli Provinsi Sumatera Utara serta

keterkaitannya dengan Faktor Fisik kimia Perairan

MISWAR BUDI MULYA

2026

Prosiding seminar internasional

Analysis of the distribution of mosquitoes (Diptera: Culicidae) and their function as vectors of infectious diseases in Tanjung Beringin District, Serdang Bedagai Regency

MISWAR BUDI MULYA

2026

Prosiding seminar nasional

ANALISIS PERTANIAN BERBASIS DATA DI DESA SIPONJOT KABUPATEN HUMBANG HASUNDUTAS, SUMATERA UTARA

MISWAR BUDI MULYA

2026

Jurnal nasional terakreditasi

ANALYSIS OF COASTAL WATER QUALITY AT MARINE TOURISM SITES IN THE CITY OF SIBOLGA

MISWAR BUDI MULYA

Researches

2019

Penelitian Unggulan Perguruan Tinggi

PERTUMBUHAN DAN LAJU EKSPLOITASI IKAN TERI PEKTO *Stolephorus waitei* DI PERAIRAN SELAT MALAKA KABUPATEN SERDANG BEDAGAI SUMATERA UTARA

ZULHAM APANDY HARAHAP , MISWAR BUDI MULYA , ARLEN H J

Community Services

2015

Ipteks

Konsorsium Mitra Bahari Regional Center Sumatera Utara

RUSDI LEIDONALD , MISWAR BUDI MULYA , AHMAD MUHTADI

2014

Penelitian Fundamental

STRUKTUR POPULASI DAN ASPEK REPRODUKSI UDANG WINDU *Penaeus monodon* DI PERAIRAN
