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Ir. R. Edhy Mirwandhono, M.Si., born on September 25, 1967, in Medan, is an academician and livestock expert who has significantly contributed to education and research. Currently, he serves as a lecturer in the Undergraduate Program in Animal Husbandry at the Universitas Sumatera Utara.

His higher education journey began with a bachelor's degree (S1) in Animal Husbandry from the Universitas Sumatera Utara (USU), creating a solid foundation for his academic career. Later, Ir. R. Edhy continued his higher education by earning a master's degree (S2) in Animal Husbandry from Bogor Agricultural University (IPB), demonstrating a high commitment to improving knowledge in animal husbandry.

As a lecturer at the Universitas Sumatera Utara, Ir. R. Edhy Mirwandhono has been prominent in research, particularly in his two main focuses: Mixed Farming and Livestock Nutrition and Food. His active involvement in research reflects a desire to make a real contribution to advancing livestock science in Indonesia.

Publications

2025

Jurnal internasional bereputasi

Innovative use of indigenous dadih probiotics to enhance feed intake, digestibility, growth performance, and health in heat-stressed Sapera goats

R. EDHY MIRWANDHONO , YUNILAS , NURZAINAH GINTING

2025

Jurnal internasional bereputasi

Probiotic ice cream using buffalo milk dadih: Microbial, chemical, and sensory characteristics

NURZAINAH GINTING , YUNILAS , R. EDHY MIRWANDHONO

2025

Jurnal nasional

Pelatihan Budidaya Leucaena leucocephala cv. Tarramba dengan aplikasi pupuk kandang kambing dan sapi di Kecamatan Toari, Kabupaten Kolaka, Sulawesi Tenggara

HUSNAENI , YULI PURBANINGSIH , RAODATUL JANNAH , NURZAINAH GINTING , R. EDHY MIRWANDHONO

2024

Jurnal nasional

Risk Factors for Disease Occurrence in Pig farming in Medan Belawan sub-district, Medan City

ACHMAD SADELI , R. EDHY MIRWANDHONO

2024

Jurnal nasional

Potential for Cattle Business Development in the Buffer Zone of Mount Leuser National Park, Bahorok District, Indonesia

ACHMAD SADELI , R. EDHY MIRWANDHONO

2024

Prosiding seminar internasional

The Effect of Biosecurity Implementation on Mortality in Layer Chicken Farming

2024

Jurnal nasional terakreditasi

Antibacterial Test of Dadih Against Pathogenic Bacteria and Its Effects on Native Chicken Immunity Organs

Dr. Yuan-Yu Lin , R. EDHY MIRWANDHONO , YUNILAS , NURZAINAH GINTING

2024

Jurnal nasional

Evaluasi Kualitas Larutan Mikroorganisme Lokal (MOL) Berbasis Limbah Buah dan Potensi Sebagai Bioaktivator

YUNILAS , R. EDHY MIRWANDHONO

2023

Jurnal internasional

EFEKTIFITAS APLIKASI TOPIKAL EKSTRAK ECO ENZYME PLUS MIMBA (AZADIRACHTA INDICA A. JUSS) TERHADAP KURAP SKABIES PADA KAMBING PE

NURZAINAH GINTING , R. EDHY MIRWANDHONO

2023

Jurnal nasional

EFEKTIFITAS APLIKASI TOPIKAL EKSTRAK ECO ENZYME PLUS MIMBA (AZADIRACHTA INDICA A. JUSS) TERHADAP KURAP SKABIES PADA KAMBING PE

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Prosiding seminar internasional

Giving earthworm flour (*Lumbricus rubellus*) to the total population of *Salmonella* sp. in the small intestine of super native chickens infected with *Salmonella* sp

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2023

Jurnal nasional terakreditasi

Potensi Limbah Sayur sebagai Agen Media Tumbuh Maggot BSF (Black Soldier Fly)

YUNILAS , ADE TRISNA , AMELIA ZULIYANTI SIREGAR , R. EDHY MIRWANDHONO

2022

Jurnal nasional

The Impact of the Covid-19 Pandemic on the Income of Butchers Broilers at Traditional Marketin Sidikalang District

TATI VIDIANA SARI , R. EDHY MIRWANDHONO

2022

Prosiding seminar internasional

Study of potential of plantation and agriculture waste as feed for support the development of cattle population in district along east coast of Sumatera Utara province

HASNUDI , R. EDHY MIRWANDHONO , EMMY HARSO KARDHINATA

2022

Jurnal internasional bereputasi

A Study of Infection Areas and Social Assessment Findings in Hs (haemorrhagic Septicaemia)-affected Buffaloes on Samosir Island, Indonesia

NURZAINAH GINTING , YUNILAS , R. EDHY MIRWANDHONO

2022

Prosiding seminar internasional

The comparative of activator effect and fermentation time on nutrient quality, physical quality (temperature, pH) in compost

LUKMAN HAKIM , ACHMAD SADELI , R. EDHY MIRWANDHONO

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Jurnal nasional

Analysis of Development Potential of Sheep in Deli Serdang Regency, North Sumatra Province

R. EDHY MIRWANDHONO

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Jurnal nasional

Analysis Level of Animal Welfare Knowledge in Medan City Slaughterhouse

R. EDHY MIRWANDHONO , ACHMAD SADELI , NURZAINAH GINTING

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Jurnal nasional

The Spermatozoa Quality of Kampung Chicken Using Various Diluents

R. EDHY MIRWANDHONO

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Jurnal nasional

Analysis of Waste Management in Regional Slaughterhouse Companies in Medan City

ACHMAD SADELI , R. EDHY MIRWANDHONO , NURZAINAH GINTING

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Prosiding seminar internasional

An assessment of mass production and nutrient composition of Black Soldier Fly Maggot on different agriculture by-product to fermented growth media

R. EDHY MIRWANDHONO , ASE LESTARI

2022

Prosiding seminar internasional

Extraction of chitin and chitosan black soldier fly (*Hermetia illucens*) prepupa phase on characterization and yield

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Study of potential of plantation and agriculture waste as feed for support the development of cattle population in district along east coast of Sumatera Utara province

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Water content, pH and cooking loss of broiler meat with garlic-based herbs solution on drinking water

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Productivity of Turi (*Sesbania grandiflora*) as a multi purposes plant by eco enzyme application

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Analysis of Factors Affecting Demand for Kampung Chicken in Sidikalang

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Organoleptic Test on Fresh Cheese and Papain Enzyme Rennet Coagulant from Goat's Milk Based on Storage Time

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Analysis of Kampung Chicken Marketing in Siborongborong District, North Tapanuli Regency

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Water content, pH and cooking loss of broiler meat with garlic-based herbs solution on drinking water

R. EDHY MIRWANDHONO , TATI VIDIANA SARI

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The study of the potential development of goat and sheep in North Labuhanbatu Regency to support North Sumatera Province as a producer of goat and sheep

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Strategy development of goat and sheep in North Labuhanbatu Regency to support North Sumatera Province as a producer of goat and sheep

R. EDHY MIRWANDHONO , SYAHRUL ANWAR

2020

Prosiding seminar internasional

The effects of fermentation time and em4 dose on nutrient content of kepok's peel as animal feed

PENI PATRIANI , NURZAINAH GINTING , R. EDHY MIRWANDHONO , HASNUDI

2020

Jurnal nasional terakreditasi

KUALITAS ORGANOLEPTIK DAN MIKROBIOLOGIS DAGING DOMBA MENGGUNAKAN EKSTRAK PANGIUM EDULE TERHADAP MASA SIMPAN

R. EDHY MIRWANDHONO , TRI HESTI WAHYUNI , PENI PATRIANI

2020

Prosiding seminar internasional

Effect of kluwak biomass fermentation and storage time on meat quality

PENI PATRIANI , TRI HESTI WAHYUNI , R. EDHY MIRWANDHONO

2020

Prosiding seminar internasional

Physical quality characteristics of lamb meat using Pangium edule extract at different storage times

PENI PATRIANI , USWATUN HASANAH , NURZAINAH GINTING , TRI HESTI WAHYUNI , R. EDHY MIRWANDHONO

2020

Jurnal internasional

Feeding evaluation on the production and quality of dairy buffalo milk (Murrah) at the traditional farms in Asam Kumbang

R. EDHY MIRWANDHONO , KARINA NOLA SINAMO , PENI PATRIANI , HASNUDI , USWATUN HASANAH

2019

Jurnal internasional

Sales proportion of beef and goat part at traditional markets in Medan city

R. EDHY MIRWANDHONO , HASNUDI , HAMDAN , YUSUF L HENUK

2019

Jurnal internasional

Carcass composition of fat tailed sheep at different slaughter weight

R. EDHY MIRWANDHONO , PENI PATRIANI , HASNUDI , NURZAINAH GINTING

2019

Jurnal internasional

Spermatozoa separation method with different percoll composition on motility, abnormalities, and mortality of local goat sperm

2019

Prosiding seminar internasional

The effect of Panorusan Samosir goat characteristics on its selling price in Sub-district Pangururan, Samosir Regency

PENI PATRIANI , YUNILAS , R. EDHY MIRWANDHONO , ISKANDAR SEMBIRING , ARMYN HAKIM DAULAY , NURZAINAH GINTING

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Prosiding seminar internasional

Carcass composition of fat tailed sheep at different slaughter weight

USWATUN HASANAH , R. EDHY MIRWANDHONO

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Jurnal internasional

Pemanfaatan Daun Kelor (Moringa oleyfera) Terhadap Kandungan Gizi pada Permen Karamel dari Susu Kambing

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Pelatihan Teknologi Gas Bio Pada Peternak Sapi Potong, Kecamatan Dolok Masihul dan Pantai Cermin, Kabupaten Serdang Bedagai

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Jurnal internasional

Financial analysis of biogas utilization : input cattle, pig feces and coffee waste in Karo, Indonesia

R. EDHY MIRWANDHONO , ARMYN HAKIM DAULAY , HASNUDI , NURZAINAH GINTING , ISKANDAR SEMBIRING

2017

Jurnal internasional

MARKETING EFFICIENCY ANALYSIS OF BEEF CATTLE IN ANIMAL MARKET SUKA VILLAGE TIGAPANAH SUBDISTRICT KARO DISTRICT

HASNUDI , R. EDHY MIRWANDHONO , ISKANDAR SEMBIRING , MARUF TAFSIN

2017

Prosiding seminar nasional

Teknologi Pengolahan Pakan Berbasis Limbah Pertanian dan Perkebunan Sawit di Kec. Hamparan Perak Kab. Deli Serdang

HASNUDI , ARMYN HAKIM DAULAY , R. EDHY MIRWANDHONO , TATI VIDIANA SARI

2017

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Peningkatan Kemampuan Peternak Itik Berbasis Limbah Perikanan Di Desa Celawan Kab. Serdang Bedagai

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PEMANFAATAN TEPUNG LIMBAH IKAN GABUS PASIR (Butis amboinensis) SEBAGAI SUBSTITUSI TEPUNG IKAN KOMERSIAL DALAM RANSUM TERHADAP FERTILITAS, DAYA TETAS DAN MORTALITAS EMBRIO ITIK LOKAL

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TEPUNG LIMBAH IKAN GABUS PASIR (Butis amboinensis) SEBAGAI SUBSTITUSI TEPUNG IKAN DALAM RANSUM TERHADAP PRODUKTIVITAS TELUR PADA ITIK LOKAL

TRI HESTI WAHYUNI , TATI VIDIANA SARI , R. EDHY MIRWANDHONO

2016

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ANALISIS USAHA PEMANFAATAN BIJI DURIAN SEBAGAI SUSTITUSI JAGUNG TERHADAP AYAM KAMPUNG DI KABUPATEN SERDANG BEDAGAI: Business Analysis Utilization of Durian Seed Flour asÂ ...

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Kualitas Telur Itik Lokal dengan Pemanfaatan Tepung Limbah Ikan Gabus Pasir Substitusi Tepung Ikan dalam Ransum

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TATI VIDIANA SARI , R. EDHY MIRWANDHONO

Researches

2023

Penelitian Dana Lokal Perguruan Tinggi

Penggunaan Kitosan Limbah Cangkang Pupa Black Soldier Fly (Hermetia illucens) Dalam Pakan Terhadap Performa Lemak (Kolesterol dan Trigliserida) Dalam Darah dan Daging Ayam Broiler

AMEILIA ZULIYANTI SIREGAR , USMAN BUDI , R. EDHY MIRWANDHONO

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The effect of Panorusan Samosir goat characteristics on its selling price in Sub-district Pangururan, Samosir Regency

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2018

The role of lactic acid bacteria (Lactobacillus sp yel133) from beef in inhibiting of microbial contaminants on various fillers of starter culture

YUNILAS , R. EDHY MIRWANDHONO

2018

Ipteks Bagi Masyarakat

Pemanfaatan Daun Kelor (Moringa oleifera) Terhadap Kandungan Gizi pada Permen Karamel dari Susu Kambing

HASNUDI , NURZAINAH GINTING , TRI HESTI WAHYUNI , R. EDHY MIRWANDHONO

2014

Penelitian Fundamental

Eksplorasi Pengolahan Daging Fermentasi Sebagai Salah Satu Gerakan Menuju Produk

Community Services

2024

Penelitian Kerjasama Antar Perguruan Tinggi

STRATEGI PENGEMBANGAN USAHA TERNAK KAMBING DALAM RANGKA PENINGKATAN EKONOMI PETERNAK DI KECAMATAN TOARI KABUPATEN KOLAKA

NURZAINAH GINTING , R. EDHY MIRWANDHONO

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KKN Pembelajaran Pemberdayaan Masyarakat

KEPUTUSAN REKTOR UNIVERSITAS SUMATERA UTARA

YUSAK MARYUNIANTA , R. EDHY MIRWANDHONO , T IRMANSYAH

2023

“Penerapan Good Manufacturing Practice Pada Pengolahan Keju Mozzarella Di Industri Rumah Tangga Cake Dan Bakery Kota Medan”

ADE TRISNA , YUNILAS , ALFAN GUNAWAN AHMAD , R. EDHY MIRWANDHONO , APRIANSYAH IRGIADI , ANISA ZUHRA , SINDY DAMAYANTI

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“Penerapan Good Manufacturing Practice Pada Pengolahan Keju Mozzarella Di Industri Rumah Tangga Cake Dan Bakery Kota Medan”

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2023

Ipteks Bagi Masyarakat

PELATIHAN ES KRIM PROBIOTIK DARI KULTUR KEFIR SUSU KAMBING DI KELOMPOK USAHA BERSAMA TANI TERNAK, DESA TADUKAN RAGA, KECAMATAN STM HILIR, KABUPATEN DELI SERDANG

NURZAINAH GINTING , R. EDHY MIRWANDHONO

2019

Ipteks Bagi Masyarakat

TURI (SESBANIA GRANDIFLORA) SEBAGAI TANAMAN MAKANAN TERNAK KERBAU DI KECAMATAN PANGURURAN KABUPATEN SAMOSIR

ISKANDAR SEMBIRING , NURZAINAH GINTING , YUNILAS , R. EDHY MIRWANDHONO

2018

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Pelatihan Pembuatan Pakan Fermentasi Berbasis Limbah Pertanian

ARMYN HAKIM DAULAY , TATI VIDIANA SARI , R. EDHY MIRWANDHONO

2016

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Peningkatan Kemampuan Peternak Itik Berbasis Limbah Perikanan Di Desa Celawan Kabupaten Serdang Bedagai

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Kitin Dan Kitosan BSF: Polimer Masa Depan Untuk Industri Peternakan

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