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*dr. Husnul Fuad Albar, SpOT(K), born in Medan on August 29, 1973, is a lecturer in the department of Orthopaedics & Traumatology at the Universitas Sumatera Utara. Between 2007 and 2019, he finished his final education for the level of Consultant Specialist at the Faculty of Medicine, University of Indonesia Orthopaedic & Traumatology / Sports Injury Study Program and the Indonesian Orthopaedic Collegium. His achievements include the Satyalencana Karya Satya X Year Honor Certificate.*

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## Publications

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2025

Prosiding seminar internasional

### **Computer-Assisted Semen Analysis in Indonesian Buffalo: Correlations with Plasma Membrane Integrity, DNA Fragmentation, and Acrosome Integrity**

FUAD HASAN

2025

Jurnal internasional bereputasi

### **ZBPB and fertility-associated proteomes as novel biomarkers: A shotgun proteomics approach in Murrah buffalo (*Bubalus bubalis*) bulls' seminal plasma and cryopreserved spermatozoa**

FUAD HASAN

2026

Tulisan ilmiah

### **Jurnal Peternakan Integratif**

FUAD HASAN

2024

Jurnal nasional

### **Analysis of Aqiqah Business Marketing in Aqiqah Farm Medan Farm Sunggal District Medan City**

FUAD HASAN , DEDI RAMBE

2025

Jurnal nasional terakreditasi

### **Comparison of Escherichia coli Bacterial Contamination Levels in Fresh Chicken and Frozen Chicken Meat in Medan City**

FUAD HASAN

2024

Jurnal internasional bereputasi

### **Sperm protein profile and their correlation with frozen semen quality of indigenous Indonesian buffalo bulls**

FUAD HASAN

2020

Artikel ilmiah

### **Pendampingan Pembuatan Pakan Penguat dan Mineral Blok untuk Kerbau Perah Sebagai Upaya Meningkatkan Produksi Susu**

2026

Jurnal internasional bereputasi

## **Genetic Diversity in the STAT1 Gene of River Buffalo Populations in North Sumatra, Indonesia**

FUAD HASAN , Isyana Khaerunnisa , ferdy saputra

2020

Jurnal nasional terakreditasi

## **Diversification Product of Buffalo Milk on Buffalo Farmer in Tanjung Garbus II Village Lubuk Pakam**

FUAD HASAN

2026

Jurnal internasional bereputasi

## **ZBPB and fertility-associated proteomes as novel biomarkers: A shotgun proteomics approach in Murrah buffalo (*Bubalus bubalis*) bulls' seminal plasma and**

FUAD HASAN

2020

Prosiding seminar internasional

## **Effect of concentration starter and fermentation time on the quality of yoghurt drink from buffalo milk**

FUAD HASAN , KARINA NOLA SINAMO

2020

Prosiding seminar internasional

## **The utilization of cassava by-products into complete ration on performances and feed digestibility of weaning male crossbred Landrace pigs**

FUAD HASAN , NEVY DIANA HANAFAI

2018

Artikel ilmiah

## **Pelatihan peningkatan keterampilan hasil ternak pada lembaga permasyarakatan kelas 1 Tanjung Gusta Medan**

FUAD HASAN

2020

Prosiding seminar internasional

## **Physico-chemical and microbial properties of buffalo milk yoghurt drink**

FUAD HASAN , KARINA NOLA SINAMO , USWATUN HASANAH

2026

Hasil penelitian/pemikiran yang tidak dipublikasikan

## **The Effect of Adding Black Cumin (*Nigella sativa*) Extract to Drinking Water on Slaughter Weight, Carcass and Non-Carcass Percentage of Broiler Chickens.**

FUAD HASAN

2017

Jurnal nasional terakreditasi

## **The influence of parity against a percentage of estrus of Ekor Tipis sheep that are synchronized estrus using prostaglandin F<sub>2</sub> (PGF<sub>2</sub>)**

FUAD HASAN

2020

Prosiding seminar internasional

## **The utilization of cassava by-products as complete feed on physical and chemical meat quality of weaning male crossbred Landrace pigs**

FUAD HASAN

2022

Jurnal nasional terakreditasi

## **Pendampingan Pembuatan Pakan Komplit Blok Berbasis Batang Jagung untuk**

## **Pakan Ternak**

FUAD HASAN

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2020

Prosiding seminar internasional

### **Inbreeding Coefficient and Rate in Murrah Buffalo at BPTU-HPT Siborongborong**

FUAD HASAN

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2026

Hasil penelitian/pemikiran yang tidak dipublikasikan

### **Studi morfometrik ukuran tubuh kuda delman di Sulawesi Utara**

FUAD HASAN

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2025

Jurnal nasional terakreditasi

### **Comparison of Escherichia coli Bacterial Contamination Levels in Fresh Chicken and Frozen Chicken Meat in Medan City**

FUAD HASAN

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2014

Jurnal internasional bereputasi

### **Genetic and phenotypic parameters of body weight in Ettawa grade goats**

FUAD HASAN

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2024

Jurnal nasional terakreditasi

### **The Study Examines the Marketing Strategies of Goat and Sheep Farming Businesses in CV. Fajar Randu**

FUAD HASAN

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2025

Jurnal nasional terakreditasi

### **The Effect of Addition of Andaliman Fruit (*Zanthoxylum acanthopodium* dc) on Physical Quality and Organoleptic Testing of Buffalo Meat Sausage**

FUAD HASAN

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2017

Jurnal nasional terakreditasi

### **Kualitas Semen Segar Kuda (*Equus caballus*) di Kabupaten Deli Serdang**

FUAD HASAN , NEVY DIANA HANAFI

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2026

Jurnal nasional terakreditasi

### **Estimates of Genetic and Phenotypic Trend for Growth Traits in Etawah Grade Goat**

FUAD HASAN

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2023

Jurnal nasional terakreditasi

### **Increasing Productivity And Local Product Branding Optimization And Food Security in Desa Perkebunan Tanjung Kasau**

FUAD HASAN

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2026

Hasil penelitian/pemikiran yang tidak dipublikasikan

### **Analisis Non-Genetik dan Genetik Bobot Badan Kambing Peranakan Etawah di BPTU-HPT Pelaihari sebagai Sumber Bibit**

FUAD HASAN

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2026

Jurnal nasional terakreditasi

### **Display of fresh semen quality, frozen semen production, and field fertility of Bali bulls (*Bos sondaicus*) in different season**

FUAD HASAN

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2020  
Prosiding seminar internasional

## **Marketing margin of qurban beef**

FUAD HASAN

2025  
Jurnal internasional bereputasi

## **ZBPB and fertility-associated proteomes as novel biomarkers: A shotgun proteomics approach in Murrah buffalo (Bubalus bubalis) bullsâ seminal plasma and cryopreserved spermatozoa**

FUAD HASAN

## **Researches**

2022

### **PENERAPAN BIOTEKNOLOGI REPRODUKSI BERBASIS OMICS (TRANSCRIPTOMIC DAN PROTEOMIC) DALAM MENDUKUNG PERCEPATAN KETERSEDIAAN BIBIT UNGGUL KERBAU LOKAL INDONESIA**

R IIS ARIFANTINI , FUAD HASAN , Prof. Dr. Ir. Syahrudin Said, M.Agr.Sc., IPU

2022

### **PENERAPAN BIOTEKNOLOGI REPRODUKSI BERBASIS OMICS (TRANSCRIPTOMIC DAN PROTEOMIC) DALAM MENDUKUNG PERCEPATAN KETERSEDIAAN BIBIT UNGGUL KERBAU LOKAL INDONESIA**

FUAD HASAN

2023

### **Sistem Integrasi Peternakan dan Perkebunan di Kabupaten Asahan (Si Anak Bunda)**

MARUF TAFSIN , FUAD HASAN

2021

Penelitian Dana Lokal Perguruan Tinggi

### **KAJIAN ASOSIASI SNP G.23549G>C DAN G.24011T>C PADA GEN STAT1 SEBAGAI PENCIRI PRODUKSI SUSU KERBAU SUNGAI**

FUAD HASAN

2023

### **PENERAPAN BIOTEKNOLOGI REPRODUKSI BERBASIS OMICS (TRANSCRIPTOMIC DAN PROTEOMIC) DALAM MENDUKUNG PERCEPATAN KETERSEDIAAN BIBIT UNGGUL KERBAU LOKAL INDONESIA**

R IIS ARIFANTINI , FUAD HASAN , Syahrudin Said

2018

Penelitian Dosen Pemula

### **PENGAMATAN NILAI KOEFISIEN DAN LAJU SILANG DALAM (KAWIN SEDARAH) KERBAU MURRAH (RIVER BUFFALO) SEBAGAI UPAYA PELESTARIAN PLASMA NUTFAH PROPINSI SUMATERA UTARA**

FUAD HASAN

2019

Penelitian Dosen Pemula

### **Evaluasi Pengaruh Pemberian Pakan Terhadap Produksi dan Kualitas Susu Kerbau**

KARINA NOLA SINAMO , USWATUN HASANAH , FUAD HASAN

2019

Penelitian Dosen Pemula

### **PEMANFAATAN BAKTERI ASAM LAKTAT DALAM PEMBUATAN SUSU KERBAU PROBIOTIK**

KARINA NOLA SINAMO , USWATUN HASANAH , FUAD HASAN

2022

## **KAJIAN PEMBANGUNAN PABRIK PAKAN TERNAK DI KABUPATEN TAPANULI UTARA**

MARUF TAFSIN , FUAD HASAN

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2023

Penelitian Dana Lokal Perguruan Tinggi

## **IDENTIFIKASI KANDIDAT PROTEIN PENENTU FERTILITAS SPERMATOZOA KAMBING PANORUSAN SAMOSIR ENDEMIK SUMATERA UTARA**

FUAD HASAN

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## **Community Services**

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2019

### **Pelatihan pembuatan pestisida nabati mengendalikan hama kopi di desa muara saladi, kecamatan ulu pungkut, kabupaten mandailing natal**

AMEILIA ZULIYANTI SIREGAR , FUAD HASAN

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2019

### **Pendampingan Pembuatan Pakan Penguat dan Mineral Blok untuk Kerbau Perah Sebagai Upaya Meningkatkan Produksi Susu**

ACHMAD SADELI , FUAD HASAN

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2024

### **Pemberdayaan Perhutanan Sosial Tahap 3 dan 4 Kegiatan PLN**

FUAD HASAN , ELISA JULIANTI

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2025

### **Pendampingan Pembuatan Silase Rumput dalam Upaya meningkatkan Produksi Susu Kambing di Peternakan Alkhansa Desa Tanjung Rejo Kecamatan Percut Sei Tuan Kabupaten Deli Serdang**

FUAD HASAN , WINDA FRANSISCA SARAGIH

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2023

### **Pemberdayaan Perhutanan Sosial Tahap 1 dan 2 Kegiatan PLN**

FUAD HASAN , ELISA JULIANTI

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