

# Prof. Dr. Ir. Elisa Julianti, M.Si.

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Faculty of Agriculture  
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🏢 Vice Dean III Room, 2nd Floor, Faculty of Agriculture Main Building

🌐 [fp.usu.ac.id/en/lecturer/elisa-julianti](http://fp.usu.ac.id/en/lecturer/elisa-julianti)

*Prof. Dr. Ir. Elisa Julianti, M.Si., born in Medan on June 16, 1967, is a food science and technology lecturer at the Universitas Sumatera Utara. She completed her highest education, a Doctoral degree (S3) in Agricultural Technology, at Institut Pertanian Bogor in 2002.*

## Education Profile:

- Undergraduate Program in Agricultural Product Technology from Universitas Sumatera Utara
- Master's Program in Postharvest Technology from Institut Pertanian Bogor
- Doctoral Program in Food Science from Institut Pertanian Bogor

*With a solid educational background, Prof. Elisa Julianti makes valuable contributions to food science and technology development. As an experienced academic, she continues to be dedicated to producing young generations who are competent and innovative in their fields.*

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## Publications

2026

Jurnal internasional bereputasi

### **SYNTHESIS OF LAURIC-RICH MEDIUM-CHAIN TRIGLYCERIDES FROM PALM KERNEL OIL AND LAURIC ACID BY ENZYMATIC ACIDOLYSIS**

ELISA JULIANTI , JANSEN SILALAHI , AGNES IMELDA MANURUNG , Donald Siahaan

2026

Jurnal internasional bereputasi

### **Exploration of Lactic Acid Bacteria as Potential Probiotic in Indonesian Traditional Fermented Food Products**

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2026

Prosiding seminar internasional

### **Effect of maturity level on physical and sensory characteristics of avocado var. tongar fruits**

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2025

Jurnal internasional bereputasi

### **Diversity of color and chemical properties of the resins of Indonesian *Styrax* spp**

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2025

Jurnal internasional bereputasi

### **Evaluation of Mutation Induction using Colchicine on Morphophysiological, Anatomical and Cytogenetic Characteristics of Samosir Local Shallots**

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2025

Jurnal nasional

### **Penentuan Masa Simpan Ekstrak Etil Asetat Buah Andaliman Pada Kemasan Botol Kaca dan PET dengan Metode Accelerated Shelf-Life Test (ASLT)**

2025

Buku referensi

## **TEKNOLOGI ENZIM**

PREMY PUSPITAWATI RAHAYU , ANGGA PRASETYO , CITRA NURMA YUNITA , RASMIYANA , MIKSUSANTI , ELISA JULIANTI

2025

Jurnal nasional terakreditasi

## **Improvement of CPO Quality Using Physical Purification Material of Shell Powder for Red Cooking Oil Production**

JENNY ELISABETH , ELISA JULIANTI

2024

Jurnal nasional terakreditasi

## **Antioxidant Activity, Ascorbic Acid, and Beta Carotene of Sumatran Red Tampo (Baccaurea costulata) and Rambai (Baccaurea motleyana) Fruits**

ERIKA PARDEDE , ELISA JULIANTI , FERLIST RIO SIAHAAN , Claudia Virani Harefa

2024

Jurnal internasional bereputasi

## **Brewers' spent grain as a food ingredient: Techno-processing properties, nutrition, acceptability, and market**

AZIS BOING SITANGGANG , Joncer Naibaho , Malgorzata Korzeniowska , Yuyun Lu , ELISA JULIANTI

2024

Jurnal internasional bereputasi

## **Advanced and Potential Methods for Extraction of Bioactive Compounds from Avocado PeelâA Review**

ELISA JULIANTI

2024

Prosiding seminar internasional

## **Chemical and functional properties of starch nanoparticle from purple sweet potato var. ayamurasaki**

ABDULLAH RAHMAN NASUTION , ELISA JULIANTI

2024

Prosiding seminar nasional

## **KARAKTERISASI FISIKOKIMIA MINYAK INTI SAWIT SEBAGAI MINYAK RANTAI SEDANG**

ELISA JULIANTI , JANSEN SILALAH , AGNES IMELDA MANURUNG

2024

Prosiding seminar internasional

## **Dengke naniura source of probiotic to lower cholesterol**

ROSNAWYTA SIMANJUNTAK , JANSEN SILALAH , ENDANG SUTRISWATI RAHAYU , ELISA JULIANTI

2024

Prosiding seminar internasional

## **Relation between the effect of increasing reaction time, reaction temperature and ratio of substrate on incorporation of lauric acid into palm kernel oil**

ELISA JULIANTI , JANSEN SILALAH , AGNES IMELDA MANURUNG

2023

Prosiding seminar nasional

## **Dengke Naniura Sumber Bakteri Asam Laktat**

ROSNAWYTA SIMANJUNTAK , ELISA JULIANTI

2023

Prosiding seminar internasional

## **Quality of Chicken Sausage during Storage with Addition of Andaliman Fruit Powder**

ZULKIFLI LUBIS , ELISA JULIANTI

2023

Buku referensi

## **Pangan Fungsional Indonesia Seri Buah dan Sayuran**

ELISA JULIANTI

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Buku referensi

## **Pangan Fungsional Indonesia Seri Buah dan Sayuran**

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2023

Buku referensi

## **Pangan Fungsional Indonesia Seri Buah dan Sayuran**

ELISA JULIANTI

2023

Jurnal internasional bereputasi

## **Campaign education and communication to the potential consumers of brewers' spent grain (BSG)-added food products as sustainable foods**

ELISA JULIANTI , Joncer Naibaho

2023

Prosiding seminar internasional

## **BETA KAROTEN, VITAMIN-C DAN SIFAT ANTIOKSIDAN BUAH JENTIKAN (Baccaurea polyneura Hook. f.) ASAL SUMATERA**

ELISA JULIANTI

2023

Jurnal nasional terakreditasi

## **Beta Karoten, Vitamin C dan Sifat Antioksidan Buah Jentikan (Baccaurea polyneura Hook. f.) Asal Sumatera**

ERIKA PARDEDE , ELISA JULIANTI

2023

Makalah ilmiah

## **Beta Karoten, Vitamin C dan Sifat Antioksidan Buah jentikan (Baccaurea poluneura Hook. f.) Asal Sumatera**

ELISA JULIANTI , ERIKA PARDEDE

2022

Prosiding seminar internasional

## **Physical and Functional Properties of Purple Sweet Potato Starch as Affected by Isolation Methods**

ELISA JULIANTI

2022

Prosiding seminar internasional

## **Hypocholesterolemic Effect of Biscuit Made from Purple Sweet Potato Flour, Starch, and Fiber Rich Flour on Rats**

ELISA JULIANTI

2022

Jurnal internasional bereputasi

## **The analysis of the glyceride components on the treatment variation of refined bleached deodorized palm oil by gas chromatography method**

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Prosiding seminar internasional

## **Antioxidant activity of Salak Sidempuan ( Salacca zalacca) fruit with different solvents using the DPPH method**

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Prosiding seminar internasional

## **Potential analysis of Nipa Palm ( Nypa Fruticans) in Singkil**

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2022  
Prosiding seminar internasional

**The Effect of Implementation of Good Manufacturing Practice (GMP) and the Use of Andaliman Fruit Extract as Natural Preservatives on Microbiological Quality of Beef Meatbals in Household Food Industry "mak Iji" in Medan City**

ELISA JULIANTI

2021  
Artikel ilmiah

**The effect of roasting temperature on proximate and dietary fiber of food bar salak (Sidimpuan cultivar) fruit**

ELISA JULIANTI , JANSEN SILALAH

2021  
Jurnal internasional bereputasi

**Influence of internal and external factors for youth agripreneurship development in Sumatra Region**

ELISA JULIANTI

2020  
Book chapter nasional

**Perspektif Global Ilmu dan Teknologi Pangan**

ELISA JULIANTI

2020  
Buku referensi

**Perspektif Global Ilmu dan Teknologi Pangan**

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2018  
Prosiding seminar internasional

**Physicochemical characteristics of tuber modified by acetylation method and its application in dry noodle product**

SISILIA F. YANTI , ELISA JULIANTI

2018  
Jurnal internasional bereputasi

**The environmentally sound management model for catering service**

ELISA JULIANTI

2017  
Jurnal nasional

**PENGARUH BERBAGAI JENIS ASAM JERUK TERHADAP PERUBAHAN MUTU IKAN MAS NANIURA SELAMA WAKTU DISPLAY (The Effect of Several Types of Lime on Quality Changes of Naniura Goldfish)**

ELISA JULIANTI

2017  
Jurnal nasional

**PENGARUH PERLAKUAN AWAL (PRE-TREATMENT) TERHADAP KARAKTERISTIK KIMIA DAN FUNGSIONAL TEPUNG UBI JALAR UNGU (The Effect of Pre-treatment on Chemical and Functional Properties of Purple Yam Flour)**

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2017  
Jurnal nasional

**Pemanfaatan pati ubi jalar merah sebagai edible coating dan pengaruhnya terhadap mutu buah strawberry selama penyimpanan**

ELISA JULIANTI

2017  
Jurnal nasional

**PENGARUH PERBANDINGAN GUM ARAB DENGAN PEKTIN SEBAGAI PENSTABIL TERHADAP MUTU SELAI WORTEL NENAS (The Effect of Ratio Gum Arabic and Pectin As A Stabilizer on The Quality of Pineapple Jelly)**

ELISA JULIANTI

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2017  
Jurnal nasional

**Karakteristik Fisik, Kimia, Dan Organoleptik Flakes Dari Bekatul Beras, Tepung Kacang Hijau, Dan Tepung Ubi Jalar Kuning Dan Penambahan Kuning Telur**

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2017  
Jurnal nasional

**PENGARUH PERBANDINGAN GUM ARAB DENGAN PEKTIN SEBAGAI PENSTABIL TERHADAP MUTU SELAI WORTEL NENAS (The Effect of Ratio Gum Arabic and Pectin As A Stabilizer on The Quality of**

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2017  
Jurnal internasional bereputasi

**Functional and rheological properties of composite flour from sweet potato, maize, soybean and xanthan gum**

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2017  
Jurnal internasional bereputasi

**Production mono-diglyceride (MDG) from refined deodorized palm oil (RBDPO) by enzymatic process**

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2016  
Jurnal nasional

**PEMANFAATAN PATI UBI JALAR MERAH SEBAGAI EDIBLE COATING DAN PENGARUHNYA TERHADAP MUTU BUAH STRAWBERRY SELAMA PENYIMPANAN**

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2016  
Jurnal nasional

**PENGARUH BERBAGAI JENIS ASAM JERUK DAN LAMA PERENDAMAN**

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2016  
Jurnal nasional

**Pengaruh perbandingan sari bit dengan sari buah nenas dan konsentrasi gelatin terhadap karakteristik permen jeli**

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2016  
Jurnal nasional

**Pengaruh Komposisi Udara Ruang Penyimpanan Terhadap Mutu Jeruk Siam Brastagi (Citrus nobilis LOUR var Microcarpa) selama penyimpanan suhu ruang**

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2016  
Jurnal internasional bereputasi

**Effect of gluten free composite flour and egg replacer on physicochemical and sensory properties of cakes**

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2016  
Jurnal internasional bereputasi

**Effect of soybean flour on physico-chemical, functional, and rheological properties of composite flour from rice, sweet potato, and potato**

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2015  
Jurnal nasional

**The making of gluten and egg free cake from composite flour of rice, cassava, potato starch, and soybean with the addition of hydrocolloid**

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2015

Jurnal nasional

**Evaluasi karakteristik fisik, kimia dan sensori roti dari tepung komposit beras, ubi kayu, kentang dan kedelai dengan penambahan xanthan gum**

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2015

Jurnal nasional

**Consumers' acceptance and antioxidant of the agarwood ( *Aquilaria malaccensis* Lamk.) leaves tea based on the shape and size of leaves**

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2014

Jurnal nasional

**Pengembangan Produk Bakso Kedelai (Soyballs) dengan Penambahan Gluten serta Pati dari Ubi Kayu, Ubi Jalar, Jagung, dan Kentang**

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2014

Jurnal internasional bereputasi

**Evaluation of physico-chemical and functional properties of composite flour from cassava, rice, potato, soybean and xanthan gum as alternative of wheat flour.**

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2014

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**Pengembangan Produk Bakso Kedelai (Soyballs) Dengan Penambahan Gluten serta Pati dari Ubi Kayu, Ubi Jalar, Jagung dan Kentang. J**

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Jurnal internasional bereputasi

**Evaluation of physico-chemical and functional properties of composite flour from cassava, rice, potato, soybean and xanthan gum as alternative of wheat flour**

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2013

Jurnal nasional

**Pengaruh konsentrasi natrium bisulfit dan jenis kemasan terhadap mutu jamur tiram putih (*Pleurotus ostreatus*) pada penyimpanan suhu rendah**

ELISA JULIANTI

2013

Jurnal nasional terakreditasi

**BIHON TYPE NOODLES FROM HEAT MOISTURE TREATED STARCH OF FOUR VARIETIES OF SWEET POTATO [Mi Tipe Bihun dari Pati Heat Moisture Treatment dari Empat Varietas Ubi Jalar]**

ELISA JULIANTI

2013

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**BIHON TYPE NOODLES FROM HEAT MOISTURE TREATED STARCH OF FOUR VARIETIES OF SWEET POTATO [Mi Tipe Bihun dari Pati Heat Moisture Treatment...]**

ELISA JULIANTI

2012

Jurnal internasional

**Effect of Modified Atmosphere Packaging on Postharvest Quality of Rambutan**

## cv. Binjai

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2012

Jurnal nasional

### **Pengaruh Jenis Pemacu Pematangan Terhadap Mutu Buah Pisang Barangan (Musa paradisiaca L.)**

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2011

Jurnal internasional bereputasi

### **Physicochemical and functional properties of fermented starch from four Cassava varieties**

ELISA JULIANTI

2011

Jurnal nasional terakreditasi

### **Pengaruh tingkat kematangan dan suhu penyimpanan terhadap mutu buah terong belanda (Cyphomandra betacea)**

ELISA JULIANTI

2010

Jurnal nasional terakreditasi

### **PENGERINGAN KEMOREAKSI DENGAN KAPUR API (CaO) UNTUK MENCEGAH KEHILANGAN MINYAK ATSIRI PADA JAHE (Chemoreaction Drying Using Quicklime (CaO) to Prevent Loss of Essential Oil in $\text{Zingiber officinale}$ );**

ELISA JULIANTI

2010

Jurnal nasional terakreditasi

### **PENGERINGAN KEMOREAKSI DENGAN KAPUR API (CaO) UNTUK MENCEGAH KEHILANGAN MINYAK ATSIRI PADA JAHE (Chemoreaction Drying Using Quicklime (CaO) to Prevent Loss of Essential Oil in $\text{Zingiber officinale}$ );**

ELISA JULIANTI

2008

Buku referensi

### **Budidaya dan teknologi pascapanen jahe**

ELISA JULIANTI

2007

Jurnal nasional terakreditasi

### **Kajian energi kemoreaksi kapur api untuk pengeringan benih cabe merah**

ELISA JULIANTI

2006

Monograf

### **Teknologi Pengemasan**

ELISA JULIANTI

2005

Jurnal nasional terakreditasi

### **Analisis kinetika pendugaan umur simpan benih cabai merah**

PURWIYATNO HARIYADI , ELISA JULIANTI

2026

Prosiding seminar nasional

### **Diversifikasi Produk Melalui Pemanfaatan Tepung Mocaf Pengganti Terigu Pada UKM Produk Bolu di Desa Sei Mencirim Kabupaten Deli Serdang**

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2026

Jurnal nasional

### **PENGARUH JENIS DAN KONSENTRASI BAHAN PENCEGAH PENCOKELATAN**

**TERHADAP KARAKTERISTIK FISIKOKIMIA DAN FUNGSIONAL TEPUNG UBI JALAR UNGU (The Effect of Type and Concentration of**

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**PENGARUH PERLAKUAN AWAL (PRE-TREATMENT) TERHADAP KARAKTERISTIK KIMIA DAN FUNGSIONAL TEPUNG UBI JALAR UNGU (The Effect of Pre-treatment on Chemical and Functional**

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Prosiding seminar internasional

**Effect of Virgin Coconut Oil (VCO) Percentage and Emulsifier Ratio on the Physicochemical Characteristics of Beverages Emulsions using Local Hybrid Coconut from Indonesian**

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**PENGARUH METODE DAN LAMA FERMENTASI TERHADAP KARAKTERISTIK KIMIA TEPUNG UBI JALAR UNGU (The Effect Of Fermentation Method and Time On Physicochemical and Functional**

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**PENGARUH METODE PERLAKUAN AWAL (PRE-TREATMENT) DAN SUHU PENDINGINAN TERHADAP MUTU FISIK TEPUNG UBI JALAR ORANYE (The Effect o...**

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**Dengke Naniura Sumber Bakteri Asam Laktat**

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**PEMANFAATAN PATI UBI JALAR MERAH SEBAGAI EDIBLE COATING DAN PENGARUHNYA TERHADAP MUTU BUAH STRAWBERRY SELAMA PENYIMPANAN...**

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**Characteristics of red bean ice cream with the addition of VCO (Virgin Coconut Oil) using hybrid coconut (Khina 2) from local indonesian resources to increase medium chain**

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Jurnal nasional terakreditasi

**Pengaruh Suhu dan Lama Pendinginan Terhadap Identifikasi Mikroflora pada Teh Herbal Daun Beluntas (Pluchea indica Less).**

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Jurnal nasional

**PEMANFAATAN NARINGIN DARI KULIT BUAH JERUK DALAM PEMBUATAN MINUMAN EFFERVESCENT UNTUK MENURUNKAN KADAR GLUKOSA DARAH MENCIT (Utilization of Naringin from Pomelo Peel in The**

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Jurnal internasional bereputasi

**Supporting babyâs physical growth through improving the quality of food for pregnant**

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Prosiding seminar nasional

**PENGGUNAAN BAHAN PENJERAP OKSIGEN DAN ETILEN PADA PENYIMPANAN PISANG BARANGAN DALAM KEMASAN ATMOSFIR TERMODIFIKASI AKTIF (...)**

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Jurnal internasional bereputasi

**LoA Manuscript Acceptance International Journal of Agriculture and Biology (IJAB) On Behalf of Ingrid Sihombing**

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2026  
Prosiding seminar nasional

**Karakteristik Sensorik dan Kimia Cookies Berbahan Baku Tepung Kajatife (Tepung Kacang Merah, Tepung Jamur Tiram, Tepung Ikan Lele, dan Formula Tempe)**

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**PENGARUH METODE PERLAKUAN AWAL (PRE-TREATMENT) DAN SUHU PENGERINGAN TERHADAP SIFAT KIMIA TEPUNG UBI JALAR UNGU (The Effect of P...)**

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**PENGARUH METODE DAN LAMA FERMENTASI TERHADAP KARAKTERISTIK FISIK TEPUNG UBI JALAR ORANYE (The Effect of Fermentation Method and Time on Physical Characteristics of Orange...)**

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**Composites flour formulation made from yellow pumpkin, purple sweet potato, corn, and wolf-herring flour for replacement of wheat flour on low-and high-moisture foods Part I**

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**PENGARUH METODE FERMENTASI DAN PENGERINGAN TERHADAP MUTU FISIKOKIMIA TEPUNG UBI JALAR ORANYE (The Effect of Fermentation and Drying Methods on The Physicochemical Properties of...)**

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Jurnal nasional

**PEMANFAATAN PATI UBI JALAR MERAH SEBAGAI EDIBLE COATING DAN PENGARUHNYA TERHADAP MUTU BUAH STRAWBERRY SELAMA**

**PENYIMPANAN (Utilization of Red Sweet Potato Starch for Edible**

ELISA JULIANTI

2026

Jurnal nasional

**PENGUJIAN EFEK HIPOKOLESTEROLEMIA MINUMAN REBUSAN DAUN SALAM YANG MENGANDUNG EKSTRAK KAYU MANIS SECARA IN-VIVO PADA TIKUS PERCOBAAN (Testing The Hypocholesterol Effects of**

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2026

Jurnal nasional

**PENGARUH SUHU BLANSING DAN SUHU PENGERINGAN TERHADAP MUTU FISIK TEPUNG UBI JALAR UNGU (Ipomea batatas L)(The Effect of Blansing Temperature and Drying Temperature on Physical**

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**PEMANFAATAN NARINGIN DARI KULIT BUAH JERUK DALAM PEMBUATAN MINUMAN EFFERVESCENT UNTUK MENURUNKAN KADAR GLUKOSA DARAH MENCIT (Ulitization of Naringin from Pomelo Peel in The**

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**PENGARUH METODE DAN LAMA FERMENTASI TERHADAP KARAKTERISTIK FISIK TEPUNG UBI JALAR ORANYE (The Effect of Fermentation Method and Time on Physical Characteristics of Orange**

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2026

Prosiding seminar internasional

**Value of consumers preference towards to agarwood tea leaves (Aquilaria malaccensis Lamk) based on the location of leaves in the trunk**

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2026

Jurnal nasional terakreditasi

**KAJIAN PENERIMAAN PANELIS TERHADAP PRODUK COKLAT BATANGAN PENDAWA, SIBIRU-BIRU, DELI SERDANG, SUMATRA UTARA**

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Prosiding seminar internasional

**The Effect of Implementation of Good Manufacturing Practice (GMP) and the Use of Andaliman Fruit Extract as Natural Preservatives on Microbiological Quality of Beef Meatbals in**

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2026

Jurnal nasional

**The Effect of Addition of Pridot Leaf Extract and Juice of Red Watermelon Albedo on Carbonated Coconut Drink of Blood Glucose Levels of Mice**

ELISA JULIANTI

# Researches

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2025

Penelitian Kompetensi

## **Pengaruh Pemberian Suplementasi Karoten dan Tokoferol terhadap Parameter Antropometri dan Kognitif pada Mencit Model Stunting**

ELISA JULIANTI

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2021

Penelitian Disertasi Doktor

## **Formulasi Sport Bar dari Buah Salak Sidempuan dan Pengaruhnya Terhadap Performansi Kesehatan dari Olahrgawan**

ELISA JULIANTI , JANSEN SILALAH , NURHAMIDA SARI SIREGAR

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2020

Penelitian Tim Pasca Sarjana

## **Evaluasi Aktivitas Antimikroba Ekstrak Kulit Batang Pohon Sikam (*Bischofia javanica*) dan Pengaruhnya Terhadap Mutu Daging Sapi Giling Selama Penyimpanan Suhu Dingin**

ZULKIFLI LUBIS , ELISA JULIANTI , RETNI KUSTIYAH MARDI ATI

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2020

Penelitian Disertasi Doktor

## **Analisis Faktor-Faktor Yang Mempengaruhi Keberhasilan Berwirausaha Dan Strategi Pengembangan Wirausahawan Muda Pertanian**

TAVI SUPRIANA , ELISA JULIANTI , REFISWAL

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2020

Penelitian Tim Pasca Sarjana

## **Edible Film Berbahan Dasar Glukomanan Dari Umbi Porang Dengan Penambahan Ekstrak Kulit Buah Manggis Dan Aplikasinya Sebagai Kemasan Produk Dodol**

ELISA JULIANTI , JANSEN SILALAH , MUHAMMAD FAJRI

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# Community Services

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2022

Ipteks Bagi Inovasi Kreativitas Kampus

## **Pelatihan Peningkatan Mutu Produk Bakso Umkm Dalam Rangka Program Kemitraan Usu Berbasis Inovasi Kalsium**

DR.MUHAMMAD SONTANG SIHOTANG, S.SI, M.SI , ELISA JULIANTI

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2018

Penelitian Dana Lokal Perguruan Tinggi

## **Modifikasi Pengolahan Kelapa Sawit Menggunakan Mikroorganisme sebagai Akselerator Pemisahan antara Buah Sawit dan Tandan Kosong**

ZULKIFLI LUBIS , ELISA JULIANTI

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2023

Paten nasional

## **Cookies Mengandung Daun Sembung (*Blumea balsamifera*) untuk Menghambat Pertumbuhan Telur Cacing Pada Anak-Anak**

CUT NADHIRA ZAHRA FIRIZKA , CHELVIN ALEXZANDER SIDAURUK , ANING PRASITTI NINGSIH , MUHAMMAD RIZQI PERDANA , ADILLA SYAFIRA , ELISA JULIANTI

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2026

Hasil kerjasama industri yang tidak dipublikasikan

## **Evaluasi Pengaruh Penggunaan Bahan Pengganti Telur (Egg Replacer) pada**

## **Pembuatan Cake**

ELISA JULIANTI

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2026

Hasil penelitian/pemikiran yang tidak dipublikasikan

## **Pengaruh Konsentrasi Karbondioksida Dan Sukrosa Terhadap Mutu Minuman Ringan Rosela**

ELISA JULIANTI

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