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## Publications

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2025

Jurnal internasional bereputasi

### **Investigating Phytochemical Constituent and Anti-Anemic Properties of Polyphenol-Rich Extract from Carica papaya Leaves in a Rat Model**

SONY EKA NUGRAHA , MARIANNE , RONY ABDI SYAHPUTRA , AJI NAJIHUDIN , NIKMATUL IKHROM EKA JAYANI , SHAUM SHIYAN

2025

Jurnal internasional bereputasi

### **Pharmacoinformatics and ex vivo studies of carotenoids from green algae Caulerpa racemosa as functional biomolecules to modulate type-2 diabetes markers**

RONY ABDI SYAHPUTRA

2024

Jurnal internasional bereputasi

### **Revealing Novel Source of Breast Cancer Inhibitors from Seagrass Enhalus acoroides: In Silico and In Vitro Studies**

NELLY MANTIK MAYULU , TIMOTHY SAHALA GERARDO , KRISANTO TANJAYA , KANANDYA KIZZANDY , FAQRIZAL RIA QHABIBI , REGGIE SURYA , SEBASTIAN EMMANUEL WILLYANTO , RONY ABDI SYAHPUTRA , NURPUDJI ASTUTI DAUD , HAPPY K PERMATASARI , Yan Wisnu Prajoko , TRINA EKAWATI TALLEI

2024

Jurnal internasional bereputasi

### **Elucidating the nexus between onco-immunology and kidney transplantation: An insight from precision medicine perspective**

RONY ABDI SYAHPUTRA

2026

Jurnal internasional bereputasi

### **Analysis of Compound content in Bark, Fruit and Leaves of Listea cubeba (LOUR.) Pers using HRMS: Antioxidant and Cytotoxic activity against B16F10, 3T3 and Vero Cells**

ERNA PRAWITA SETYOWATI , DIAH TRI UTAMI , RONY ABDI SYAHPUTRA , YAHDIANA HARAHAHAP , Dr. Sari Haryanti, M.Sc. Apt , Bonglee Kim

2025

Jurnal internasional bereputasi

### **Fatty acid-heterocyclic hybrids from green algae as novel therapeutic prospects for diabetes management**

RONY ABDI SYAHPUTRA

2024

Jurnal internasional bereputasi

### **Subcritical water extraction of mangrove fruit extract (Sonneratia alba) and its antioxidant activity, network pharmacology, and molecular connectivity studies**

RONY ABDI SYAHPUTRA

2025

Jurnal internasional bereputasi

## **Deciphering new biomolecules, antioxidants, and human dipeptidyl Peptidase-4 inhibitor potential of green celery: Bioprospecting insights from molecular docking and in vitro investigation**

RONY ABDI SYAHPUTRA

2025

Jurnal internasional bereputasi

## **Employing multi-omics, pharmacoinformatics, and in vitro approaches to discover functional biomolecules in oyster mushroom flour**

RONY ABDI SYAHPUTRA

2025

Jurnal internasional bereputasi

## **Seagrass *Enhalus acoroides* extract mitigates obesity and diabetes via GLP-1, PPAR $\gamma$ , SREBP-1c modulation and gut microbiome restoration in diabetic zebrafish**

RONY ABDI SYAHPUTRA

2025

Artikel ilmiah

## **Therapeutic Potential of Red Yeast Rice Extract in Managing Thrombocytopenia: An In Vivo Study**

SONY EKA NUGRAHA , MARIANNE , RONY ABDI SYAHPUTRA

2024

Jurnal internasional bereputasi

## **Malaria's molecular dance: Mechanism, therapies, and emerging insights**

CHINDY U MAYA , NABILA ANANDA , ATHAYA SABINA NASUTION , FAHRUL NURKOLIS , RONY ABDI SYAHPUTRA

2025

Jurnal internasional bereputasi

## **Precision nutrition in sports science: an opinion on omics-based personalization and athletic outcomes**

RONY ABDI SYAHPUTRA

2026

Jurnal internasional bereputasi

## **Astaxanthin-Zn<sup>2+</sup> complexes and glycated human serum albumin: A molecular mechanism study for protein integrity in diabetes mellitus**

ALFIA FITRIANITA , NAUFAL ABIYYU , Dr. Syahputra Wibowo, S.Si., M.Si ( , Hendra Gunosewoyo , AKHMAD SABARUDIN , BERRY JULIANDI , TRI RINI NURINGTYAS , RONY ABDI SYAHPUTRA

2026

Jurnal internasional bereputasi

## **A clinical decision framework for redox-adapted, EMT-high cancers: From ferroptosis resistance to precision therapeutic stratification**

RONY ABDI SYAHPUTRA

2025

Jurnal internasional bereputasi

## **A pharmacoinformatic approach for studying *Atractylodes Lancea* DC's anticancer potential and control ROS-mediated apoptosis against prostate cancer cells**

RONY ABDI SYAHPUTRA

2025

Jurnal internasional bereputasi

## **Food phytochemicals as epigenetic modulators in diabetes: A systematic review**

RONY ABDI SYAHPUTRA

2024

Jurnal internasional bereputasi

## **Unveiling the importance role of lutein-plant-based nanoencapsulation - a**

## **future effort to improve their stability and bioaccessibility in combating ocular melanoma**

NURPUDJI ASTUTI DAUD , DIAN ARUNI KUMALAWATI , NELLY MANTIK MAYULU , A. YASMIN S. , DIONYSIUS SUBALI , RONY ABDI SYAHPUTRA , HAPPY KURNIA PERMATASARI , HARDINSYAH

2026

Jurnal internasional bereputasi

### **Nanotechnology in lung cancer: Enhancing targeted drug delivery and diagnostic precision**

RONY ABDI SYAHPUTRA

2025

Jurnal internasional bereputasi

### **Fatty acid-heterocyclic hybrids from green algae as novel therapeutic prospects for diabetes management**

ABDUL MUBDI ARDIANSAR ARIFUDDIN KARIM , ARYANTI R BAMAHRY , NURPUDJI ASTUTI DAUD , ASRINI SAFITRI , RONY ABDI SYAHPUTRA

2025

Jurnal internasional bereputasi

### **Snake venom-derived peptides as anticancer candidates: Pioneering next-generation therapies**

RONY ABDI SYAHPUTRA

2025

Jurnal internasional bereputasi

### **The role of micro-ribonucleic acid and small interfering-ribonucleic acid in precision nutrition for obesity management-**

MEGAH STEFANI , WARDINA HUMAYRAH , REGGIE SURYA , HARDINSYAH , TRINA EKAWATI TALLEI , RONY ABDI SYAHPUTRA , Nindy Sabrina , Matthew Nathaniel Handoko , Fahrul Nurkolis

2025

Jurnal internasional bereputasi

### **Hydropuntia edulis extract mitigates metabolic dysregulation via DPP-4 inhibition, lipid modulation, and GLP-1/AKT1 pathway activation**

FATIMAWALI , RONY ABDI SYAHPUTRA , TRINA EKAWATI TALLEI

2024

Jurnal internasional bereputasi

### **Photobioreactors are beneficial for mass cultivation of microalgae in terms of areal efficiency, climate implications, and metabolites content**

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2025

Jurnal internasional bereputasi

### **Emerging phenotype: Maturity-onset diabetes of the young type 5 (MODY-5) - mechanisms, clinical spectrum, and unmet needs**

RONY ABDI SYAHPUTRA

2024

Jurnal internasional bereputasi

### **Boiling water extraction of mangrove Sonneratia Alba fruit as an antioxidant functional food: combined in vitro and pharmacoinformatics studies**

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2025

Jurnal internasional bereputasi

### **Mechanisms of Cell Death Induced by Cannabidiol Against Tumor Cells: A Review of Preclinical Studies**

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2025

Jurnal internasional bereputasi

### **Delites™ supplementation prevents metabolic syndrome onset and modulates gut microbiome in male Sprague Dawley rats fed on cholesterol- and fat-enriched diet: a randomized preclinical trial study**

2024

Jurnal internasional bereputasi

## **Anti-proliferating and antioxidant properties of Eriobotrya japonica fruit in human breast cancer cells combined with in silico study**

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2024

Jurnal internasional bereputasi

## **COMPREHENSIVE STUDY OF CEPLUKAN FRUIT (*Physalis angulata* L.) USING GAS CHROMATOGRAPHY-MASS SPECTROMETRY (GC-MS)**

LENI WIDIARTI , SAJARATUD DUR , RONY ABDI SYAHPUTRA , RISTI ARIANTI

2025

Jurnal internasional bereputasi

## **From fruit to functional food: Eriobotrya japonica's potential in managing obesity and Alzheimer's disease**

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Jurnal internasional bereputasi

## **Novel anticoagulants and antithrombotic properties from Echinacea purpurea: A pharmacoinformatics and experimental insights**

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Jurnal internasional bereputasi

## **Global Mapping of Flavonoids in Fruits and Vegetables: Targeting Insulin Receptors, GLP-1R, and PPARs to Mitigate Diabetes**

RONY ABDI SYAHPUTRA

2024

Jurnal internasional bereputasi

## **Efficacy of Caricapapaya Leaves Extract for Treating Thrombocytopenia: An In Silico and In Vivo Study in Rat Model**

RONY ABDI SYAHPUTRA , MARIANNE , SONY EKA NUGRAHA

2026

Jurnal internasional bereputasi

## **Redox Homeostasis as a Therapeutic Target in Chronic Oxidative Diseases: Implications for Cancer Treatment**

RONY ABDI SYAHPUTRA

2024

Jurnal internasional bereputasi

## **Can salivary and skin microbiome become a biodetector for aging-associated diseases? Current insights and future perspectives**

TRIANNA WAHYU UTAMI , RONY ABDI SYAHPUTRA , ANANTO ALI ALHASYIMI

2025

Jurnal internasional bereputasi

## **Food phytochemicals as epigenetic modulators in diabetes: A systematic review**

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2024

Jurnal internasional bereputasi

## **Red ginger confers antioxidant activity, inhibits lipid and sugar metabolic enzymes, and downregulates miR-21/132 expression**

RONY ABDI SYAHPUTRA

2023

Jurnal internasional bereputasi

## **Polyscias scutellaria: An emerging source of natural antioxidants and anti-inflammatory compounds for health**

2024

Jurnal internasional bereputasi

## **Identification of novel functional compounds from forest onion and its biological activities against breast cancer**

RONY ABDI SYAHPUTRA

2025

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## **Hydropuntia edulis extract mitigates metabolic dysregulation via DPP-4 inhibition, lipid modulation, and GLP-1/AKT1 pathway activation**

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2024

Jurnal internasional bereputasi

## **Systematic literature review with meta-analysis on essential oil interventions for agitated behavior in dementia patients**

DIAN ARUNI KUMALAWATI , RONY ABDI SYAHPUTRA , NURPUDJI ASTUTI DAUD , HAPPY KURNIA PERMATASARI

2024

Jurnal internasional bereputasi

## **Modulation of Apoptotic, Cell Cycle, DNA Repair, and Senescence Pathways by Marine Algae Peptides in Cancer Therapy**

RONY ABDI SYAHPUTRA

2024

Jurnal internasional bereputasi

## **Anti-proliferating and antioxidant properties of Eriobotrya japonica fruit in human breast cancer cells combined with in silico study**

REGGIE SURYA , TRINA EKAWATI TALLEI , RONY ABDI SYAHPUTRA , Astri Arnamalia , Elvan Wiyarta , Darmawan Alisaputra , Nurpudji Astuti Taslim , Apollinaire Tsopmo , Kim Bong Lee , Fahrul Nurkolis , Rosy Iara Maciel Azambuja Ribeiro , HAPPY KURNIA PERMATASARI

2025

Jurnal internasional bereputasi

## **Harnessing nanotechnology with mushroom-derived bioactives: Targeting inflammatory pathways and miRNAs in osteoarthritis**

RONY ABDI SYAHPUTRA

2023

Jurnal internasional bereputasi

## **Andaliman (Zanthoxylum acanthopodium DC.) a herbal medicine from North Sumatera, Indonesia: Phytochemical and pharmacological review**

NUR AIRA JUWITA , ADRIAN , MUHAMMAD FAUZAN LUBIS , RONY ABDI SYAHPUTRA

2024

Jurnal internasional bereputasi

## **Novel Functional Food Properties of Forest Onion (Eleutherine bulbosa Merr.) Phytochemicals for Treating Metabolic Syndrome: New Insights from a Combined Computational and In Vitro Approach**

HAPPY KURNIA PERMATASARI , RONY ABDI SYAHPUTRA , NURPUDJI ASTUTI DAUD , URIP HARAHAP , TRINA EKAWATI TALLEI

2025

Jurnal internasional bereputasi

## **Eriobotrya japonica a review: Phytochemical constituents, traditional uses, and therapeutic potentials**

RONY ABDI SYAHPUTRA

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Jurnal internasional bereputasi

## **The role of micro-ribonucleic acid and small interfering-ribonucleic acid in precision nutrition for obesity management**

MEGAH STEFANI , WARDINA HUMAYRAH , NINDY SABRINA , RONY ABDI SYAHPUTRA

2023

## **A current insight and future perspective of edible bird nest as caviar of the east**

LILIK EKA RADIATI , RONY ABDI SYAHPUTRA , OSFAR SJOFJAN , MUHAMMAD HALIM NATSIR

2024

## **Flavonoids as modulators of miRNA expression in pancreatic cancer: Pathways, Mechanisms, And Therapeutic Potential**

AMINAH DALIMUNTHE , URIP HARAHAHAP , MARIANNE , RONY ABDI SYAHPUTRA , POPPY ANJELISA ZAITUN HASIBUAN

2025

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2025

## **Flavonoids and bone health in postmenopausal women**

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## **Analysis of Compound content in Bark, Fruit and Leaves of *Listea cubeba* (LOUR.) Pers using HRMS: Antioxidant and Cytotoxic activity against B16F10, 3T3 and Vero Cells**

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2025

## **Comparison of the risk of obesity in the FTO rs9939609 genotype in a multiethnic group in Asia systematic review and meta-analysis**

RONY ABDI SYAHPUTRA

2024

## **THERAPEUTIC POTENTIAL OF INDONESIAN PLANT FOR POLYCYSTIC OVARY SYNDROME (PCOS): A NARATIVE REVIEW**

EMIL SALIM , YULINA DWI HASTUTY , YUANDANI , RONY ABDI SYAHPUTRA

2025

## **Peptide-mediated modulation of miRNAs: A novel therapeutic strategy for cancer**

RONY ABDI SYAHPUTRA , AMINAH DALIMUNTHE , POPPY ANJELISA ZAITUN HASIBUAN

2024

## **Nanotechnology and flavonoids: Current research and future perspectives on cardiovascular health**

URIP HARAHAHAP , HAKIM BANGUN , AMINAH DALIMUNTHE , RONY ABDI SYAHPUTRA , EMIL SALIM

2024

## **In-Depth Analysis of Lupeol: Delving into the Diverse Pharmacological Profile**

ERNA PRAWITA SETYOWATI , AMINAH DALIMUNTHE , YAHDIANA HARAHAHAP , RONY ABDI SYAHPUTRA

2022

## **PDGF- $\beta$ and IL-18 Expressions on Carcinoma Cervical by *Rhodomyrtus tomentosa*.**

PUTRI CAHAYA SITUMORANG , ROSTIME HERMAYERNI SIMANULLANG , LAURENA GINTING , RONY ABDI SYAHPUTRA

2024

## **Efficacy of *Carica papaya* Leaves Extract for Treating Thrombocytopenia: An In Silico and In Vivo Study in Rat Model**

NABILA , MARIANNE , SONY EKA NUGRAHA , NIKMATUL IKHROM EKA JAYANI , RONY ABDI SYAHPUTRA , SHAUM SHIYAN , AJI NAJIHUDIN

2025

Jurnal internasional bereputasi

## **Natural Products for Melanoma Therapy: From Traditional Medicine to Modern Drug Discovery**

RONY ABDI SYAHPUTRA

2025

Jurnal internasional bereputasi

## **Editorial: From bench to bedside: inflammation in neurovascular disorders and stroke**

RONY ABDI SYAHPUTRA

2025

Jurnal internasional bereputasi

## **Deltan polyherbal formula offers multifaceted protection against cardiometabolic syndrome via metabolic and microbiome rebalancing**

RONY ABDI SYAHPUTRA

2025

Jurnal internasional bereputasi

## **Phytochemical synergies in BK002: advanced molecular docking insights for targeted prostate cancer therapy**

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2024

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## **Elucidation of anti-human melanoma and anti-aging mechanisms of compounds from green seaweed *Caulerpa racemosa***

RONY ABDI SYAHPUTRA

2025

Jurnal internasional bereputasi

## **Anti-prostate cancer activity of *Litsea cubeba* ethanol extract through network pharmacology, molecular docking, and biological validation**

AMINAH DALIMUNTHE , CHEMAYANTI SURBAKTI , RONY ABDI SYAHPUTRA , Fahrul Nurkolis

2025

Jurnal internasional bereputasi

## ***Eriobotrya japonica* a review: Phytochemical constituents, traditional uses, and therapeutic potentials**

PIPIT PITRIANI , RONY ABDI SYAHPUTRA , NURPUDJI ASTUTI DAUD

2025

Jurnal internasional bereputasi

## **Algal peptides for future food: Key players and multifaceted agents in the fight against cardiometabolic syndrome**

RONY ABDI SYAHPUTRA

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## **COMPREHENSIVE STUDY OF CEPLUKAN FRUIT (*Physalis angulata* L.) USING GAS CHROMATOGRAPHY-MASS SPECTROMETRY (GC-MS)**

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## **Exploring the potential molecular targets of hydroxymethylbutyrate and glucosamine fortified whey protein drink to modulate sarcopenia and Alzheimer's disease by in silico and in vitro studies**

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2024

Jurnal internasional bereputasi

## **Current insights and future perspectives of flavonoids: A promising antihypertensive approach**

URIP HARAHAHAP , NURPUDJI ASTUTI DAUD , RONY ABDI SYAHPUTRA , AMINAH DALIMUNTHE

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## **Anti-prostate cancer activity of Litsea cubeba ethanol extract through network pharmacology, molecular docking, and biological validation**

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Jurnal internasional bereputasi

## **Unlocking the therapeutic mechanism of Caesalpinia sappan: a comprehensive review of its antioxidant and anti-cancer properties, ethnopharmacology, and phytochemistry**

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2026

Jurnal internasional bereputasi

## **Cinnamon-Derived Phytonutrients as Modulators of Ion Channels and G Protein-Coupled Receptor Signaling in Metabolic Diseases**

RONY ABDI SYAHPUTRA , REGGIE SURYA

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Jurnal internasional bereputasi

## **A comparative analysis on impact of drying methods on metabolite composition in broccoli microgreens**

TRINA EKAWATI TALLEI , NURPUDJI ASTUTI DAUD , RONY ABDI SYAHPUTRA

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2025

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## **Food phytochemicals as epigenetic modulators in diabetes: A systematic review**

ANNETTE D'ARQOM , RONY ABDI SYAHPUTRA , ABDUL KHAIRUL RIZKI PURBA , DR. ARIFA MUSTIKA , Raymond R. Tjandrawinata , Nurpudji Astuti Taslim , Fahrul Nurkolis

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## **Unraveling Light-Activated Insulin Action in Regulating Blood Glucose: New Photoactivatable Insight as a Novel Modality in Diabetes Management**

RONY ABDI SYAHPUTRA , NURPUDJI ASTUTI DAUD , REGGIE SURYA , TRINA EKAWATI TALLEI

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## **Precision nutrition in sports science: an opinion on omics-based personalization and athletic outcomes**

MIRZA HAPSARI SAKTI TITIS P. , NURPUDJI ASTUTI DAUD , RONY ABDI SYAHPUTRA , HARDINSYAH , Yosef Stefan Sutanto , Raymond R. Tjandrawinata , Fahrul Nurkolis

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2024

Jurnal internasional bereputasi

## **Tempe as superior functional antioxidant food: From biomechanism to future development of soybean-based functional food**

NELLY MANTIK MAYULU , RONY ABDI SYAHPUTRA , REGGIE SURYA , NURPUDJI ASTUTI DAUD , DIONYSIUS SUBALI , HARDINSYAH

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KRISANTO TANJAYA , KANANDYA KIZZANDY , TIMOTHY SAHALA GERARDO , FAQRIZAL RIA QHABIBI , SEBASTIAN EMMANUEL WILLYANTO , NELLY MANTIK MAYULU , NURPUDJI ASTUTI DAUD , REGGIE SURYA , RONY ABDI SYAHPUTRA , Yan Wisnu Prajoko , TRINA EKAWATI TALLEI , HAPPY KURNIA PERMATASARI

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# Researches

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2024

## **International Funding Kyung Hee University Korea**

RONY ABDI SYAHPUTRA , Bonglee Kim

2023

Penelitian Kerjasama Antar Perguruan Tinggi

## **AKTIVITAS KARDIOPROTEKTIF EKSTRAK ETANOL DAUN AFRIKA (*Vernonia amygdalina*) PADA TIKUS HIPERTENSI DAN DIINDUKSI DOKSORUBISIN**

RONY ABDI SYAHPUTRA , AMINAH DALIMUNTHE , URIP HARAHAP

2025

Penelitian Kerjasama Antar Perguruan Tinggi

## **Development of Kratom-Based Nutraceuticals for High-Fat Diet- Induced Metabolic Syndromes**

RONY ABDI SYAHPUTRA , PIPIT PITRIANI , NURPUDJI ASTUTI DAUD , ALMA NAIDA HAYFANURA , NAJWA REGINA PUTRI , RAMADISA NUKI RASPATI

2024

## **Nanoencapsulation of African Leaf (*Vernonia amygdalina*) Phytotherapy in a Hypertensive Rat Model: Impact on Vascular Remodeling**

RONY ABDI SYAHPUTRA , AMINAH DALIMUNTHE , EMIL SALIM

2024

## **Edible Bird Nests: Anti-Cancer Potential through in-silico, in-vitro, and in-vivo Approaches**

RONY ABDI SYAHPUTRA , PIPIT PITRIANI , NURPUDJI ASTUTI DAUD

2022

## **UJI AKTIVITAS KARDIOPROTEKTIF EKSTRAK ETANOL DAUN AFRIKA PADA TIKUS MODEL MYOCARDIAL INFARCT DIINDUKSI ISOPROTERENOL**

RONY ABDI SYAHPUTRA , SONY EKA NUGRAHA , URIP HARAHAP

2024

## **ASSESSING THE HEMOSTATIC EFFICACY OF POLYPHENOL RICH EXTRACT OF *Centella asiatica* HERB: INVITRO, IN VIVO AND IN SILICO APPROACHES**

RONY ABDI SYAHPUTRA , SONY EKA NUGRAHA

2024

Penelitian Kerjasama Antar Perguruan Tinggi

## **Edible Bird Nests: Anti-Cancer Potential through in-silico, in-vitro, and in-vivo Approaches**

RONY ABDI SYAHPUTRA , NURPUDJI ASTUTI DAUD

# Community Services

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2023

Ipteks

## **PENINGKATAN PENGETAHUAN DAN KEPATUHAN TERHADAP PENGOBATAN HIPERTENSI PADA PASIEN LANSIA DI DESA SEI LIMBAT KECAMATAN SELESAI KABUPATEN LANGKAT**

CHINDY UMayA , RONY ABDI SYAHPUTRA , FARAH DHIBA , Maulida Isnaini , Nova Susilawati

2024

## **BAKTI SOSIAL DAN PEMERIKSAAN KESEHATAN BERSAMA PT. ANUGRAH ARGON MEDIKA DALAM RANGKA DIES NATALIS FAKULTAS FARMASI USU KE 18 TAHUN DI KELURAHAN AUR KECAMATAN MEDAN MAIMUN**

DADANG IRFAN HUSORI , YUANDANI , RONY ABDI SYAHPUTRA

2024

# **EDUKASI PENINGKATAN PENGETAHUAN DAN KEPATUHAN TERHADAP PENGobatan DIABETES MELLITUS DI DESA TANJUNG REJO KEC. PERCUT SEI TUAN TAHUN 2024**

CHINDY UMayA , RONY ABDI SYAHPUTRA , FARAH DHIBA , Mai Antri Vani , Ratu Az-Zahra Firhandani

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2024

## **Edukasi Pola Hidup Sehat untuk Pencegahan Asam Urat pada Masyarakat di Wilayah Puskesmas Tanah Tinggi Tahun 2024**

CHINDY UMayA , RONY ABDI SYAHPUTRA , MAWANDHA SARI HARAHAP , FARAH DHIBA , ARDIYANA SALSABILLA , MAWAR HAFIZA

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2022

Ipteks Bagi Masyarakat

## **PEMANFAATAN LIMBAH KULIT JERUK KHAS LANGKAT: PENGOLAHAN DAN PENGEMBANGANNYA MENJADI BAHAN BAKU BODY SCRUB PENCERAH KULIT DAN ECO-ENZYME BERSAMA KELOMPOK WANITA TANI TANGGUH DESA KARANG GADING, SECANGGANG, LANGKAT**

JULIA REVENY , DWI LESTARI PRIWITANINGRUM , RONY ABDI SYAHPUTRA

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2024

## **Riset Kolaborasi Indonesia (RKI) Universitas Hasanuddin Tahun 2024**

RONY ABDI SYAHPUTRA , NURPUDJI ASTUTI DAUD , Rony Abdi SYAHPUTRA

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