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*Prof. Dr. Syafruddin Ilyas, M. Biomed. was born in Pekanbaru on February 9, 1966, and is a lecturer in Biology at Universitas Sumatera Utara. He completed a Doctoral Program in Biomedical Science at UI in 2008.*

## Publications

2025

Jurnal nasional terakreditasi

### **Uji Aktivitas Hepatoprotektor pada Tikus Model Kanker Payudara yang Diinduksi Benzo(A)Piren Setelah Pemberian Ekstrak Metanol Daun Biwa (*Eriobotrya japonica* Lindl)**

FITRI ELIZABRTH BR HASIBUAN , SYAFRUDDIN ILYAS , WIDYA SYAHFITRI

2024

Jurnal internasional bereputasi

### **MOLECULAR DOCKING AND PHARMACOKINETIC EVALUATION OF NANOHERBAL SENDUDUK BULU (*MICONIA CRENATA* (VAHL.) MICHELANG.) COMPOUNDS AS AKT1 INHIBITORS**

SYAFRUDDIN ILYAS , DINI PRASTYO WATI , DINA KHAIRANI

2024

Buku referensi

### **Prinsip dan Praktik Hewan Percobaan Mencit (*Mus musculus*)**

YURNADI , SYAFRUDDIN ILYAS

2025

Jurnal internasional bereputasi

### **EVALUATION OF COMPRESSIVE AND TENSILE STRENGTH OF HYDROXYAPATITE NANOPARTICLES FROM SPIRAL BABYLON SHELLS (*BABYLONIA SPIRATA*) AS ALVEOLAR BONE GRAFT MATERIAL CANDIDATES**

PITU WULANDARI , AINI HARIYANI NASUTION , SYAFRUDDIN ILYAS , AMETA PRIMASARI

2021

Jurnal internasional bereputasi

### **Role of Heat Shock Protein 70 (HSP-70) after Giving Nanoherbal Haramonting (*Rhodomyrtus tomentosa*) in Preeclamptic Rats**

SYAFRUDDIN ILYAS

2025

Jurnal internasional bereputasi

### **Fiber and starch of *Colocasia esculenta* var. Mentawai ameliorate adiposity, dyslipidemia and gut dysbiosis in mice fed high fat diet**

PUTRA SANTOSO , SYAFRUDDIN ILYAS , RESTI RAHAYU

2024

Jurnal internasional bereputasi

### **Nano-herbal combination targets apoptosis in oral squamous cell carcinoma**

SYAFRUDDIN ILYAS , CHERYL GRACE PATIWI RUMAHORBO RUMAHORBO

2024  
Jurnal internasional bereputasi

## **In Silico Study of Compounds from Nanoherbal Jopan (Clibadium surinamense L.) Leaves as Inhibitors AKT1 Interaction**

DINI PRASTYO WATI , SYAFRUDDIN ILYAS

2024  
Jurnal nasional terakreditasi

## **Investigation of 3% Binahong (Anredera cordifolia) Leaf Extract Nanogel on the Alveolar Bone Healing: BMP-2 Modulation in Rat Models**

OLIVIA AVRIYANTI HANAFIAH , SYAFRUDDIN ILYAS

2026  
Jurnal internasional bereputasi

## **UPLC-QTOF-MS Profiling and In Silico Evaluation of Beta-Secretase Inhibitors from Ethyl Acetate Fraction of Paraboea leuserensis: Towards a Potential Therapeutic Approach for Alzheimer's Disease**

YURNADI , SAFNI , SYAFRUDDIN ILYAS

2024  
Jurnal internasional bereputasi

## **Assessing the hepatoprotective efficacy of Vitis gracilis Wall. against doxorubicin-induced hepatic injury in rats**

SYAFRUDDIN ILYAS , PUTRA SANTOSO , YURNADI

2024  
Jurnal internasional bereputasi

## **Predictive bioactivity of compounds from Vitis gracilis leaf extract to counteract doxorubicin-induced cardiotoxicity via sirtuin 1 and adenosine monophosphate-activated**

SYAFRUDDIN ILYAS , RITA MALIZA , PUTRA SANTOSO , YURNADI

2022  
Jurnal internasional bereputasi

## **The Effect of 4% Mangosteen Peel Extract Gel on Interleukin-6 (il-6) Levels and Clinical Parameters in Stage iii Grade b Periodontitis Patients**

PITU WULANDARI , RINI OCTAVIA NASUTION , SYAFRUDDIN ILYAS , ARMIA SYAHPUTRA

2024  
Jurnal internasional bereputasi

## **Flavonoids for hepatoprotection: Potential natural approaches to mitigate doxorubicininduced liver toxicity: A mini review**

DINA KHAIRANI , SYAFRUDDIN ILYAS

2022  
Jurnal internasional

## **Histological analyses of orthodontic force in Cavia porcellus: Comparison between immunohistochemistry and hematoxylin-eosin**

ERLIERA , NAZRUDDIN , ADITYA RACHMAWATI , SYAFRUDDIN ILYAS

2024  
Jurnal internasional bereputasi

## **RENOPROTECTIVEPOTENTIALOFFLAVONOIDS-RICHAGAINSTDOXORUBICIN-INDUCEDINANIMALMODELS: AREVIEW**

DINI PRASTYO WATI , SYAFRUDDIN ILYAS

2021  
Jurnal internasional bereputasi

## **Vitamin E supplementation reduces stress levels from orthodontic force in Wistar rats (Rattus norvegicus)**

ERLIERA , SYAFRUDDIN ILYAS , DARMAYANTI SIREGAR , YUMI LINDAWATI , ERVINA SOFYANTI

2024  
Jurnal nasional terakreditasi

## **Effectiveness of Snakehead Fish Extract on Tooth Extraction Wound Healing**

OLIVIA AVRIYANTI HANAFIAH , SYAFRUDDIN ILYAS

2024

Jurnal internasional bereputasi

## **Mentawai Taro (*Colocasia esculenta* var. *Mentawai*) Corm Flour Ameliorates Insulin Resistance and Leukocytosis Promoted by High-Fat Diet in Mice**

SYAFRUDDIN ILYAS , RESTI RAHAYU , PUTRA SANTOSO

2024

Jurnal nasional terakreditasi

## **Utilization of Nanogels Binahong Leaf Extract on Palatal Wound Healing**

OLIVIA AVRIYANTI HANAFIAH , SYAFRUDDIN ILYAS

2024

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## **EFFECTIVENESS OF PROPOLIS EXTRACT GEL AS ADJUNCTIVE PERIODONTAL THERAPY: OVERVIEW OF FIBROBLASTS AND NEUTROPHILS (IN VIVO STUDY)**

JULIA MAHARANI , PITU WULANDARI , AMINAH DALIMUNTHE , WITA ANGGRAINI , SYAFRUDDIN ILYAS

2025

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## **BIOCOMPATIBILITY OF NANO-HYDROXYAPATITE GRAFT FROM UNAM SNAIL (*VOLEGALEA COCHLIDIUM*) SHELL ON NIH 3T3 FIBROBLAST**

PITU WULANDARI , AINI HARIYANI NASUTION , IRMA ERVINA , SYAFRUDDIN ILYAS , DESY MARLIN PARSAULIAN BR SITUMORANG

2026

Jurnal internasional bereputasi

## **Role of Carbon Quantum Dots of Sapindus Rarak DC on The Released of TGF- $\beta$ 1 of Matrix Dentine**

NEVI YANTI , WIDI PRASETIA , TRIMURNI ABIDIN , WANDANIA FARAHANNY , SYAFRUDDIN ILYAS , JESSICA KOMALA

2024

Prosiding seminar internasional

## **Meristic and morphometrics of tinfoil barb (*Barbonymus schwanefeldii*) in the Lau Belawan River, Pancur Batu, North Sumatera Province**

DESRITA , SYAFRUDDIN ILYAS , FEBE AP NESIA WARUWU

2024

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## **A novel therapeutic approach to doxorubicin-induced cardiotoxicity, with a particular emphasis on the potential cardioprotective properties of *Vitis gracilis* Wall.**

PUTRA SANTOSO , SYAFRUDDIN ILYAS , YURNADI , Syafruddin Ilyas

2024

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## **EFFECTIVENESS OF PROPOLIS EXTRACT GEL AS ADJUNCTIVE PERIODONTAL THERAPY: OVERVIEW OF FIBROBLASTS AND NEUTROPHILS (IN VIVO STUDY)**

WITA ANGGRAINI , SYAFRUDDIN ILYAS , PITU WULANDARI , OLIVIA AVRIYANTI HANAFIAH , AMINAH DALIMUNTHE

2024

Jurnal internasional

## **EFFECTIVENESS OF CHITOSAN-LOADED TETRACYCLINE IN PERIODONTITIS INDUCED RATS**

ARMIA SYAHPUTRA , SYAFRUDDIN ILYAS , RINI OCTAVIA NASUTION , IRMA ERVINA , MARTINA AMALIA

2025

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## **Citrus Aurantifolia Ethanol Extract As A Modulator Of TNF- $\alpha$ In Imiquimod-Induced Psoriasis Rat Model**

BINARWAN HALIM , ENDY JULI ANTO , JEKSON MARTIAR SIAHAAN , SYAFRUDDIN ILYAS , DIAN RAVINI

2024

Jurnal internasional bereputasi

# Assessing the hepatoprotective efficacy of *Vitis gracilis* Wall. against doxorubicin-induced hepatic injury in rats

YURNADI , SYAFRUDDIN ILYAS , PUTRA SANTOSO

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## A novel therapeutic approach to doxorubicin-induced cardiotoxicity, with a particular emphasis on the potential cardioprotective properties of *Vitis gracilis* Wall.

PUTRA SANTOSO , YURNADI , SYAFRUDDIN ILYAS

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## The Effect of Snakehead Fish (*Channa striata*) Extract on Dry Socket Wound Healing: TGF- $\beta$ 1 Expression in Rats Model

OLIVIA AVRIYANTI HANAFIAH , SYAFRUDDIN ILYAS

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## The Influence Of Previous Educational Background On The Spiritual Well Being Of University Students

JOSETTA MARIA REMILA TUAPATTINAJA , KHAIRINA NASUTION , SYAFRUDDIN ILYAS , RAHLINA MUSKAR

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## The Potential of Binahong Leaves Extract Nanogel for Alveolar Bone Healing

OLIVIA AVRIYANTI HANAFIAH , SYAFRUDDIN ILYAS

2025

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## Screening the Active Compound Profile and Mechanisms of *Paraboea leuserensis* B.L. Burt on PSEN1 Human Gene: UPLC-QToF-MS Identification and Molecular Docking Analysis Study

YURNADI , SAFNI , SYAFRUDDIN ILYAS

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## Effect of Andaliman Fruit Extract on Cervical Cancer Rat s Histology

SYAFRUDDIN ILYAS , RISMA DUMIRI MANURUNG

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## A novel therapeutic approach to doxorubicin-induced cardiotoxicity, with a particular emphasis on the potential cardioprotective properties of *Vitis gracilis* Wall.

SYAFRUDDIN ILYAS , PUTRA SANTOSO , YURNADI

2024

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## Investigation of 3% Binahong (*Anredera cordifolia*) Leaf Extract Nanogel on the Alveolar Bone Healing: BMP-2 Modulation in Rat Models

BERNARD , SYAFRUDDIN ILYAS , OLIVIA AVRIYANTI HANAFIAH

2024

Buku referensi

## Prinsip Dasar Tikus sebagai Model Penelitian

SYAFRUDDIN ILYAS , YURNADI

2024

Buku referensi

## Potensi Gastroprotektif Daun Sukun

DADANG IRFAN HUSORI , URIP HARAHAP , AMINAH DALIMUNTHE , SYAFRUDDIN ILYAS

2024

Buku referensi

## Prinsip dan Praktik Hewan Percobaan Mencit (*Mus musculus*)

2022

Prosiding seminar nasional

**PENGUJIAN AKTIVITAS ANTI BAKTERI DAUN *Sphagneticola trilobata* JF (L.) Pruski TERHADAP *Salmonella typhi* DAN *Escherichia coli***

SYAFRUDDIN ILYAS , TISNA HARMAWAN , VIVI MARDINA

2018

Prosiding seminar internasional

**Effectiveness of administration haramounting leaf (*Rhodomyrtus tomentosa*) as antioxidant in preventing the damage pancreas mice (*Mus musculus* L.) after exposure of electric**

SYAFRUDDIN ILYAS

2024

Jurnal nasional terakreditasi

**The Potential of Binahong Leaves Extract Nanogel for Alveolar Bone Healing**

BERNARD , SYAFRUDDIN ILYAS , OLIVIA AVRIYANTI HANAFIAH

2024

Buku referensi

**Prinsip Dasar Tikus sebagai Model Penelitian**

YURNADI , SYAFRUDDIN ILYAS

2025

Jurnal internasional bereputasi

**Chronic Oral Exposure to *V. gracilis* Nanoherbs: Toxicity Assessment**

SYAFRUDDIN ILYAS , MUSWITA , SALMI , HUSNARIKA FEBRIANI , DINA KHAIRANI , DINI PRASTYO WATI

2017

Jurnal internasional bereputasi

**Quantity Differences of Secondary Metabolites (Saponins, Tannins, and Flavonoids) from Binahong Plant Extract (*Anredera cordifolia* (Ten.) Steenis) treated and untreated with Colchicines that play a Role in Wound Healing**

TRIMURNI ABIDIN , DIANA SOFIA HANAFIAH , SYAFRUDDIN ILYAS , EVA SARTINI BAYU , MARLINE NAINGGOLAN , OLIVIA AVRIYANTI HANAFIAH

2025

Jurnal internasional bereputasi

**The effect of the ethanolic extract of African leaves (*Vernonia amygdalina* Delile) on the corrosion rate and microstructure of stainless steel orthodontic wire**

ERVINA SOFYANTI , SITI BAHIRRAH , SYAFRUDDIN ILYAS , AMETA PRIMASARI , Widya Lestari , Ida Bagus Narmada

2018

Jurnal internasional bereputasi

**Description of testis histology of *Mus musculus* after giving nano herbal *Rhodomyrtus tomentosa* (Hara**

SYAFRUDDIN ILYAS

2023

Jurnal internasional bereputasi

**Protective effect of *Vitis gracilis* Wall (Vitaceae) leaf decoction on sexual vitality and testis of alloxan-induced diabetic mice.**

PUTRA SANTOSO , YURNADI , SYAFRUDDIN ILYAS

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**Assessing the hepatoprotective efficacy of *Vitis gracilis* Wall. against doxorubicin-induced hepatic injury in rats**

SYAFRUDDIN ILYAS , YURNADI , PUTRA SANTOSO

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2021  
Biomedik

**The effect of ingestion of red dragon fruit extract on levels of malondialdehyde and superoxide dismutase after strenuous exercise in rats (*Rattus norvegicus*)**

SYAFRUDDIN ILYAS , Chrismis N. Ginting , Indra Mukti , Nyoman Ehrich Lister , Gusbakti Rusip

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2022

Penelitian Dana Lokal Perguruan Tinggi

**PENGEMBANGAN NANOHERBAL GAGATAN HARIMAU (*VITIS GRACILIS* BL) SEBAGAI GEN PENGUAT VITALITAS SEKSUAL DAN NON-SEKSUAL TIKUS JANTAN (*RATTUS NORVEGICUS*): PENDEKATAN MOLEKULER, HORMONAL, DAN SELULER**

PUTRA SANTOSO , SYAFRUDDIN ILYAS

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2023

Penelitian Kerjasama Antar Perguruan Tinggi

**Aktivitas Antikelelahan dan Perbaikan Memori Spasial Nanoherbal Gagatan Harimau (*Vitis gracilis* WALL.) pada Mencit (*Mus musculus*): Pendekatan Preklinis, imunopatogenesis dan Biomolekuler**

SYAFRUDDIN ILYAS , SALMI , MUSWITA

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2013

Penelitian Fundamental

**KAJIAN AKTIFITAS BUAH ANDALIMAN (*Zanthoxylum acanthopodium* DC) TERHADAP ULTRASTR**

EMITA SABRI , SYAFRUDDIN ILYAS

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2021

Penelitian Disertasi Doktor

**Kajian Mekanisme Efek Gastroprotektif Ekstrak Etanol Daun Sukun (*Artocarpus altilis* (Parkinson) Fosberg) Secara In Vivo, In Vitro dan In Silico**

DADANG IRFAN HUSORI , SYAFRUDDIN ILYAS , AMINAH DALIMUNTHE , URIP HARAHAP

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2023

**Potensi nanoherbal gagatan harimau (*vitis gracilis* wall.) Sebagai cardioprotektif, hepatoprotektif dan renoprotektif pada tikus yang diinduksi doksorubisin**

PUTRA SANTOSO , SYAFRUDDIN ILYAS , YURNADI

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2017

Penelitian Dana Lokal Perguruan Tinggi

**Pengaruh konsentrasi TGF- $\beta$ <sup>21</sup> dan VEGF dan aktivator terhadap pergerakan dan stabilisasi perawatan ortodonti**

SYAFRUDDIN ILYAS , ERLIERA

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2025

Penelitian Kerjasama Antar Perguruan Tinggi

**Metabolic Profiling dari Bawang Batak dan Gagatan harimau serta uji In Silico- In Vitro terhadap potensinya dalam Regenerasi Luka Diabetes**

MAI EFDI , SYAFRUDDIN ILYAS , YURNADI

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## Community Services

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2025

**PENINGKATAN LITERASI KESEHATAN REPRODUKSI REMAJA MELALUI EDUKASI KESEHATAN REPRODUKSI SEBAGAI UPAYA PREVENTIF BAGI REMAJA DALAM MENYONGSONG MASA DEPAN SEHAT**

SYAFRUDDIN ILYAS , Teguh Prasetyo

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## Potensi Gastroprotektif Daun Sukun

URIP HARAHAP, SYAFRUDDIN ILYAS, AMINAH DALIMUNTHE, DADANG IRFAN HUSORI

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2024

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## Kajian Mekanisme Efek Gastroprotektif Ekstrak Etanol Daun Sukun (Artocarpus Altilis (Parkinson) Fosberg) Pada Tukak Lambung Tikus Yang Diinduksi Dengan Pyloric Ligation Dan Mucosal Damage

DADANG IRFAN HUSORI, URIP HARAHAP, AMINAH DALIMUNTHE, SYAFRUDDIN ILYAS

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2024

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## KOMPOSISI GEL EKSTRAK ETANOL 70% DAUN BINAHONG (ANREDERA CORDIFOLIA (TEN.)STEENIS) UNTUK PENYEMBUHAN LUKA MUKOSA PALATAL TIKUS WISTAR

SYAFRUDDIN ILYAS, DENNY SATRIA, OLIVIA AVRIYANTI HANAFIAH, TRIMURNI ABIDIN, MARLINE NAINGGOLAN

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2024

Paten nasional

## Ekstrak Daun Bangun-bangun (Plectranthus amboinicus, Lour. Spreng) Sebagai Antikanker Payudara

POPPY ANJELISA ZAITUN HASIBUAN, SYAFRUDDIN ILYAS

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2024

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## The Influence Of Previous Educational Background On TheSpiritual Well Being Of University Students

JOSETTA MARIA REMILA TUAPATTINAJA, KHAIRINA NASUTION, RAHLINA MUSKAR, SYAFRUDDIN ILYAS

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