



FAKULTA
FAH

Mengenal Klasifikasi Jamu, Obat Herbal Terstandar dan Fitofarmaka serta Peluang yang Ada

Abdul Mun'im

Ketua Program Pascasajana

Ketua Klaster Riset Herbal Drug Discovery and Development

Fakultas Farmasi

Universitas Indonesia



Isi

Sejarah

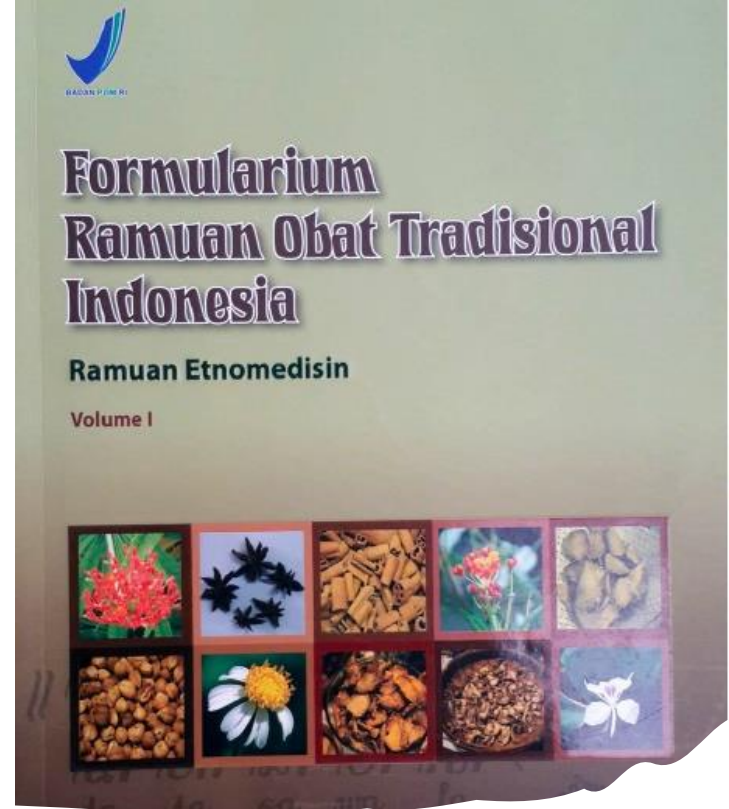
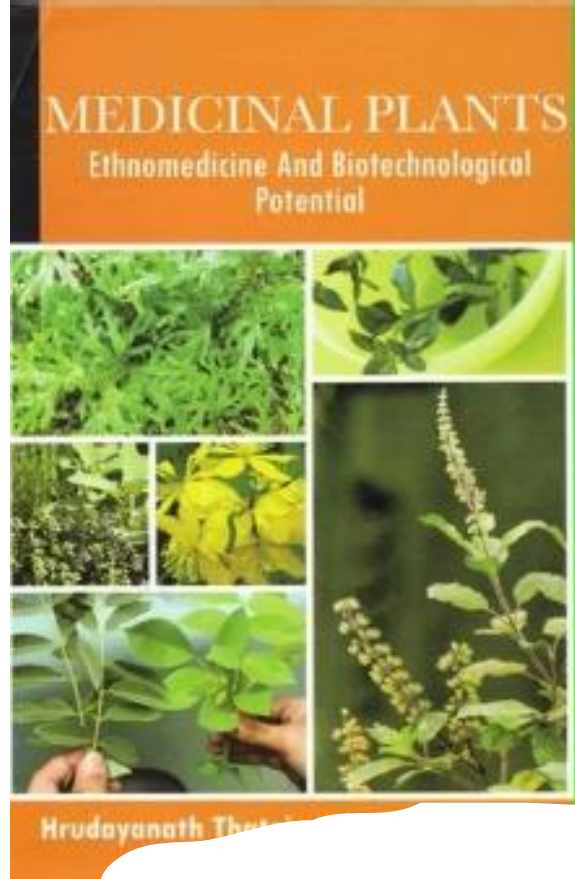
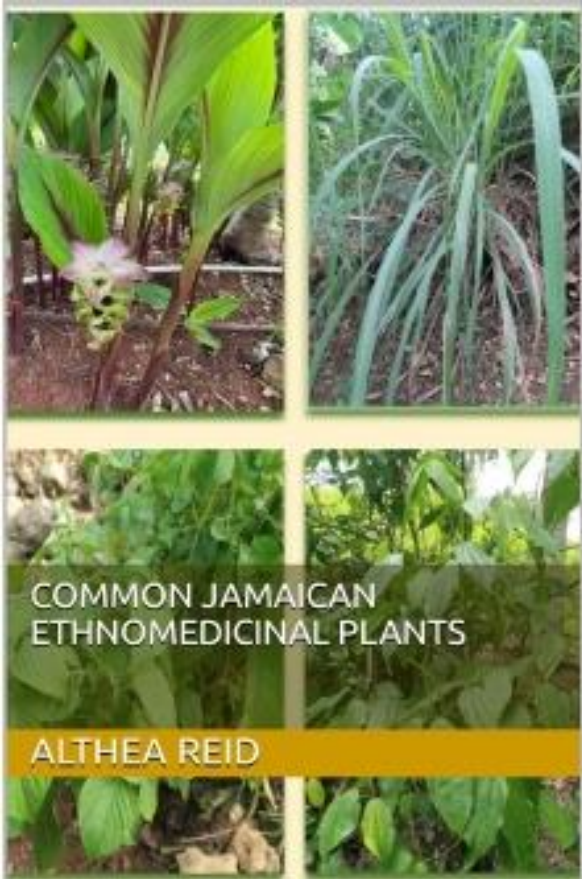
Definisi

Penggolongan

Permasalahan

Pemecahan

Opportunity



Buku Jampi dan Kit

Sejarah



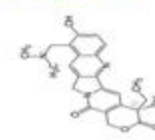
Pacific yew



Paclitaxel



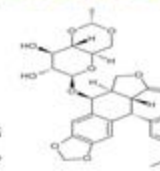
The Happy Tree



Topotecan



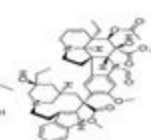
American May Apple



VP-16



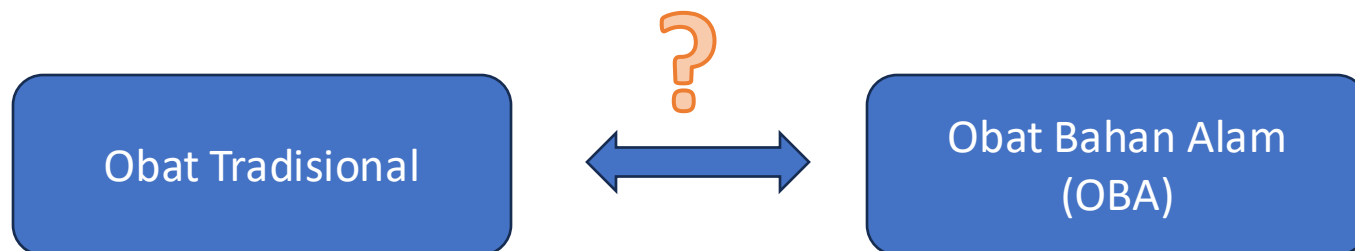
Madagascar periwinkle



Vincristine

Obat Tradisional

- Bahan atau ramuan bahan
- Bahan tumbuhan, bahan hewan, bahan mineral, sediaan sarian (galenik) atau campuran dari bahan tersebut
- Secara turun temurun telah digunakan untuk pengobatan



Penggolongan Obat Tradisional

Jamu

Teknologi tradisional
Bukti Empiris



Obat Herbal Terstandar (OHT)

Aplikasi teknologi, mis: Ekstraksi
Bukti uji preklinis



Fitofarmaka

Aplikasi teknologi
Bukti uji klinis



Obat Bahan Alam (OBA)

Bahan, ramuan bahan, atau produk berasal dari SDA: tumbuhan, hewan, jasad renik, mineral, atau bahan lain dari sumber daya alam, atau campurannya

Penggunaan secara turun temurun, atau sudah dibuktikan berkhasiat, aman, dan bermutu

Pemeliharaan kesehatan, peningkatan kesehatan, pencegahan penyakit, pengobatan, dan/atau pemulihan kesehatan berdasarkan pembuktian secara empiris dan/atau ilmiah

- (3) Obat Bahan Alam sebagaimana dimaksud pada ayat (1) meliputi:
 - a. Jamu;
 - b. Obat Herbal Terstandar;
 - c. Fitofarmaka; dan
 - d. Obat Bahan Alam lainnya.
- (4) Obat Bahan Alam lainnya sebagaimana dimaksud pada ayat (3) huruf d meliputi:
 - a. Obat Bahan Alam Ekspor;
 - b. Obat Bahan Alam Impor;
 - c. Obat Bahan Alam Lisensi; dan
 - d. Obat Bahan Alam lain produksi dalam negeri.

Karakteristik OBA

Umumnya
Efek lemah

On-set
lambat

Pemecahan

Rajangan → Serbuk

Esktrak → Fraksi

Isolat

Kombinasi bahan

Teknologi Penghantaran



Anti tukak lambung
Antiinflamasi



Meredakan demam
Anti thypus



Analgesik
Antiinflamsi
Antiemetik



Antikolesterol
Mencegah Penyakit
Jantung koroner

Sumber: ESKTRAK

Jamu dengan campuran isolat



3 strip @ 10 tablet salut selaput



Rhodium®
TABLET SALUT SELAPUT

Komposisi :
Tiap tablet salut selaput mengandung :
Fraksi flavonoid murni dalam bentuk mikronisasi dari ekstrak Citrus
Sinensis Percarpium 500 mg setara dengan Diosmin 450 mg dan
Hesperidin 50 mg

Kegunaan :
1. Membantu meringankan wasir kronik dan akut
2. Membantu meringankan gangguan peredaran darah di kaki
varises

Informasi lengkap :
lihat insert di dalam

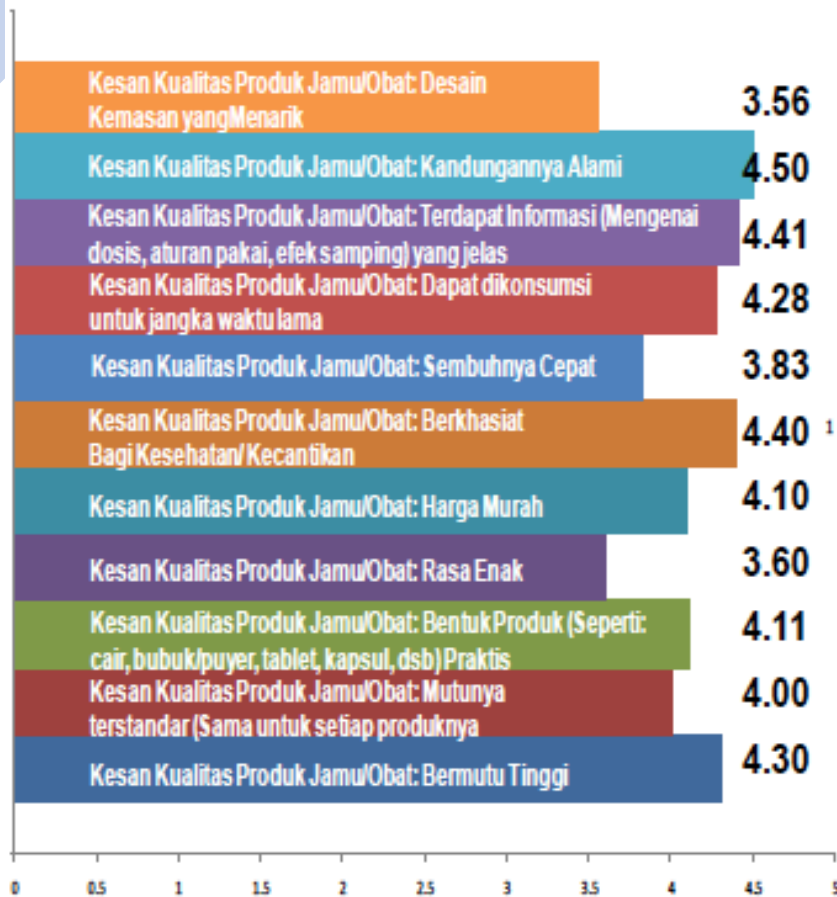
Simpan pada suhu di bawah 30°C

POM TR. 121.563.841

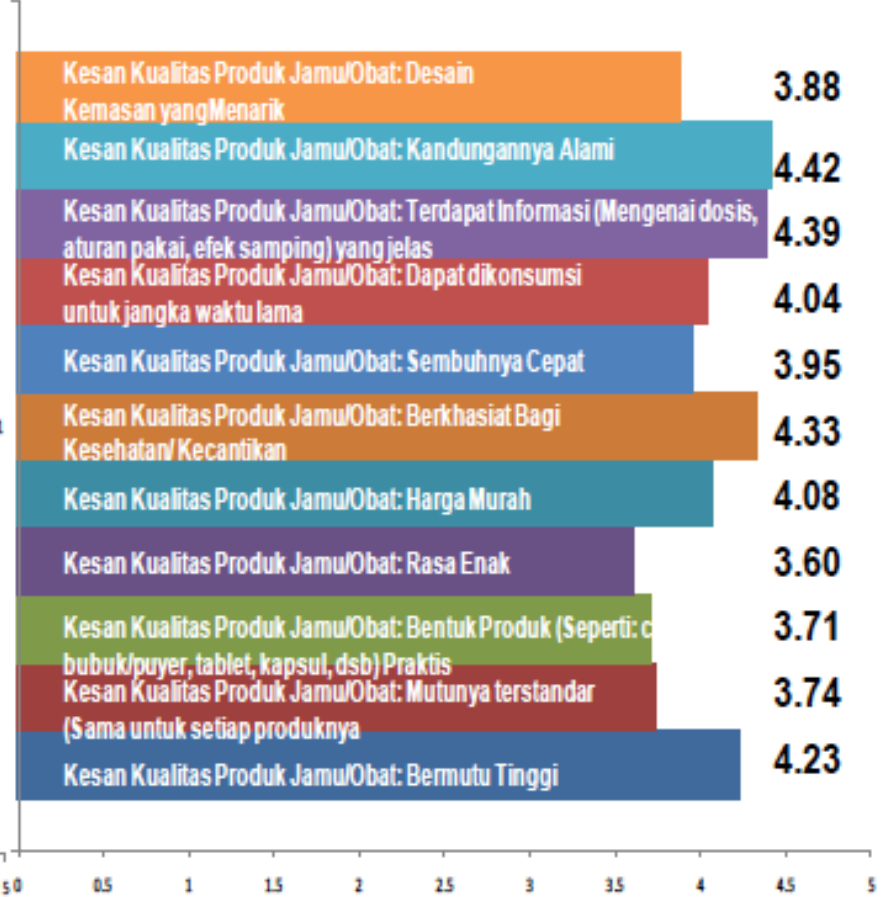
Diproduksi oleh :
PT. PRATAPA NIRMALA
Tangerang - Indonesia



Responden Konsumen



Responden Non Konsumen



Kesan signifikan atribut produk Jamu

OBA Dikonsumsi Mahasiswa di Malang

ANGGUR JAMU

KUNYIT ASEM

BERAS KENCUR

TEMU LAWAK

KUNYIT SIRIH

10
JAMU SEGAR

Kategori	Merek*	n (%)
Obat bahan alam		
Jamu	Diapet	40 (12,9)
	Entrostop	26 (8,4)
	Habbatussauda	7 (2,3)
	HerbaKOF	1 (0,3)
	Herbamuno	1 (0,3)
	Kapsida	2 (0,6)
	Magafit	1 (0,3)
	Antangin Good Night	1 (0,3)
	Vermint	1 (0,3)
	Bejo Bintang Toedjoe	1 (0,3)
	Cap Kaki Tiga	1 (0,3)
	Larutan Cap Badak	1 (0,3)
	Vegeta	2 (0,6)
	Curcuma Plus	1 (0,3)
	Jamu PIRT	Jamu sinom
Kunir madu		1 (0,3)
OHT	Antangin	14 (4,5)
	Kiranti	19 (6,1)
	OBH	8 (2,6)
	Tolak Angin	151 (48,6)
Fitofarmaka	Stimuno	8 (2,6)

TOP Product Categories



**Apakah Jamu harus
dikembangkan menjadi
OHT atau sampai
Fitofarmaka?**



Tahun 2022

Belum ada evaluasi implementasi

- Penggunaan
- Jenis penyakit terbatas
- Harga
- Ketersediaan

Permasalahan

Ekonomi

Bahan
baku

Jenis
penyakit

Teknologi

Regulasi

Budaya

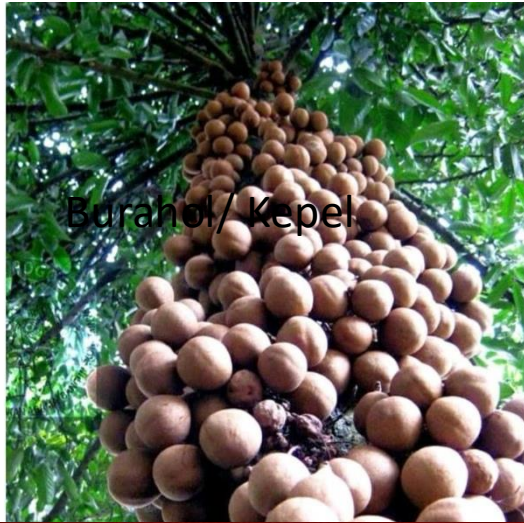


SIG 04062025

Problems

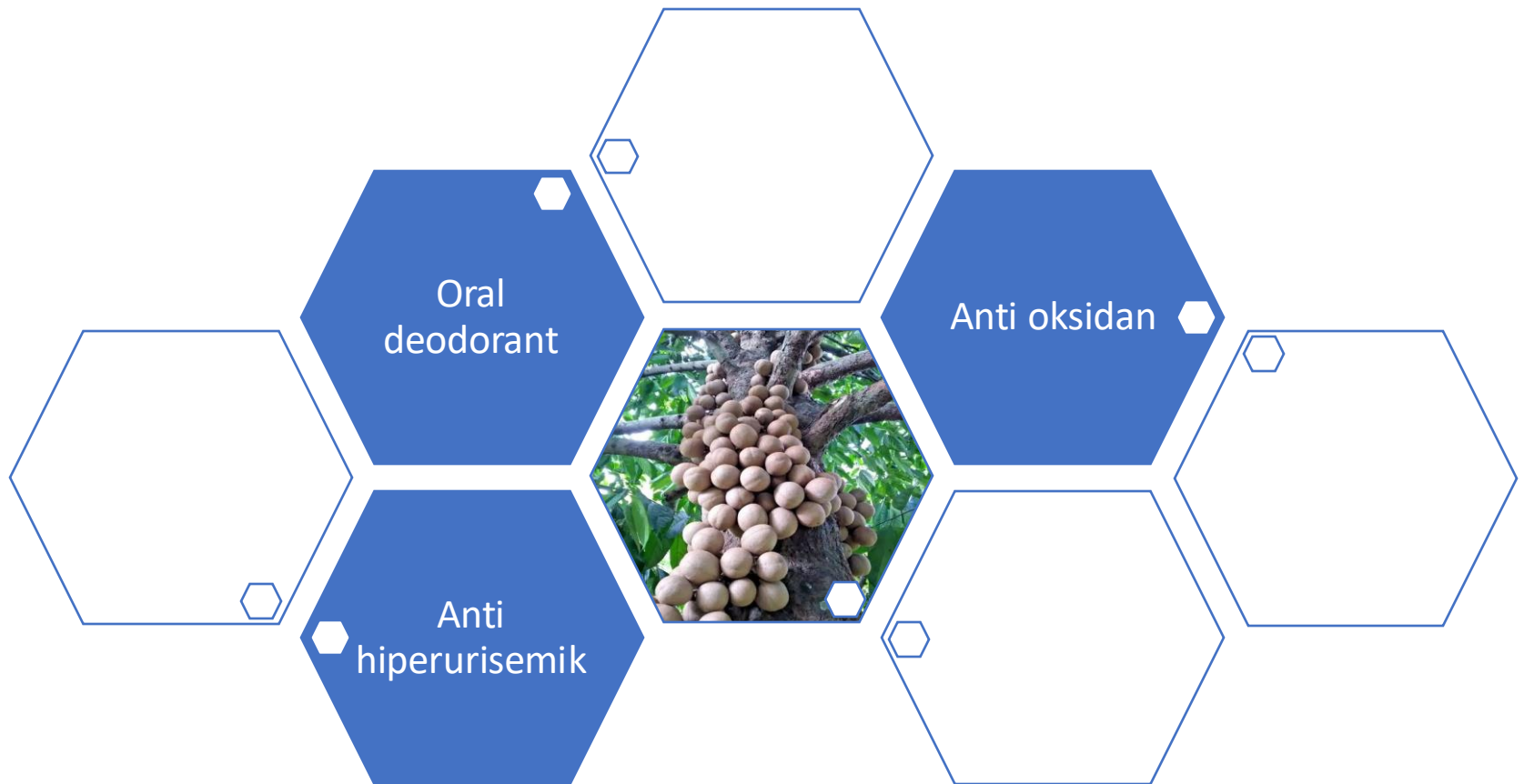
Ketersediaan

Pace



Myrmecodia

Buah Kepel (*Stelechocarpus burahol*)



Penelitian Buah Burahol



J Young Pharm, 2018; 10(2) Suppl: s97-s100

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Antimicrobial Activity of Ethyl Acetate Fraction from *Stelechocarpus burahol* Fruit against Oral Bacteria and Total Flavonoids Content

Asni Amin^{1,3}, Maksum Radji², Abdul Mun'im^{2*}, Anton Rahardjo⁴, Herman Suryadi⁵

¹Laboratory of Pharmacognosy and Phytochemistry, Faculty of Pharmacy, University Moeslem of Indonesia, INDONESIA

ASIAN JOURNAL OF PHARMACEUTICAL AND CLINICAL RESEARCH



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Print - 0974-2441

Research Article

HALITOSIS ACTIVITY AGAINST VOLATILE SULFUR COMPOUND OF METHYL MERCAPTAN COMPONENT FROM BURAHOL (*STELECHOCARPUS BURAHOL*) FRUIT EXTRACT

ASNI AMIN^{1,2}, MAKSUM RADJI^{3*}, ABDUL MUN'IM², ANTON RAHARDJO⁴, HERMAN SURYADI⁵

Effect of *Burahol* [*Stelechocarpus burahol* (Blume) Hook.f. & Thomson] fruits extract mouthwash on mouth bad deodorization

Abdul Mun'im^{*1}, Bayu Dwi Siswanto², Osamu Negishi⁴, Sutriyo¹, Asni Amin¹ & Anton Rahardjo¹

¹Faculty of Pharmacy, Universitas Indonesia, Kampus UI Depok 16424, Indonesia; ²Graduate Program of Herbal Medicine, Faculty of Pharmacy, Universitas Indonesia, Kampus UI Depok 16424, Indonesia; ³Faculty of Dentistry, Universitas Indonesia, Jl. Salemba Raya No: 4, Jakarta 10430, Indonesia; ⁴Institute of Life and Environmental Sciences, University of Tsukuba, Ibaraki, 305-8572, Japan

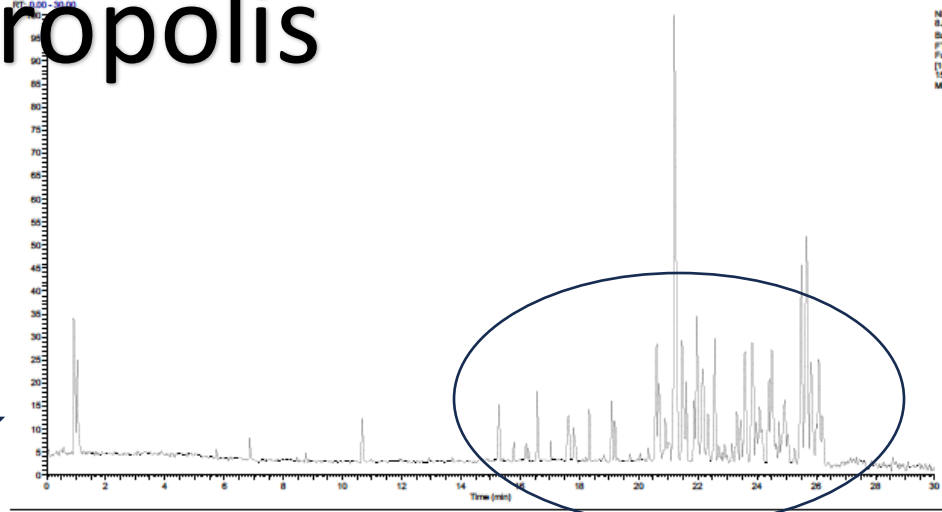
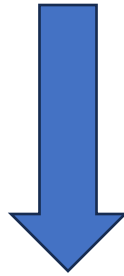
E-mails: muanimabdoel@gmail.com, dr.be_relation@yahoo.com, antonrahardjo@gmail.com, sutriyo@farmasi.ui.ac.id, asniamin@gmail.com, negishi.osamu.gf@u.tsukuba.ac.jp

Keberagaman Kualitas

Propolis

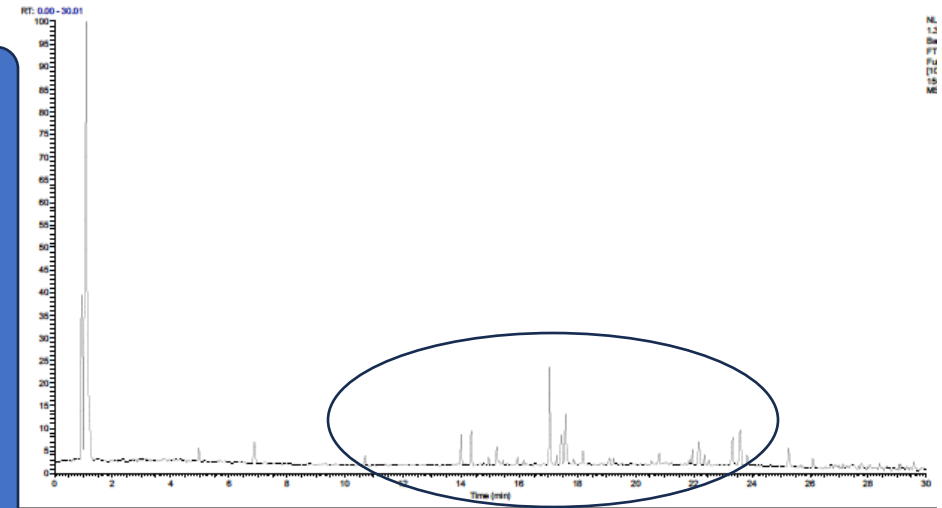


Geniotrigona thoracica



Herotrigona itama

Standardisasi



Aqilla, 2022

Article

Characteristics of Indonesian Stingless Bee Propolis and Study of Metabolomic Properties Based on Region and Species

Diah Kartika Pratami ^{1,2,3} , Muhamad Sahlan ^{4,5} , Asep Bayu ^{2,6} , Masteria Yunovilsa Putra ^{2,6} , Baharudin Ibrahim ⁷, Siswadi ⁸, Rahmatul Qodriah ³ and Abdul Mun'im ^{1,2,*}

¹ Faculty of Pharmacy, Universitas Indonesia, Cluster of Health Sciences Building, Depok 16424, West Java, Indonesia; d.kartika@univpancasila.ac.id

² National Metabolomics Collaborative Research Center, Faculty of Pharmacy, Universitas Indonesia, Kampus UI, Depok 16424, West Java, Indonesia; asepo44@brin.go.id (A.B.); mast001@brin.go.id (M.Y.P.)

³ Center for Study of Natural Product for Degenerative Disease, Faculty of Pharmacy, Pancasila University, South Jakarta 12640, DKI Jakarta, Indonesia; rahmatulqodriyah@univpancasila.ac.id

⁴ Department of Chemical Engineering, Faculty of Engineering, Universitas Indonesia, Depok 16424, West Java, Indonesia

Sample name	Bee Species	Region	TPC ± SD (mg GAE/g)	TFC ± SD (mg QE/g)
Jav_HI1	<i>H. itama</i>	Magelang	61.42 ± 5.13	63.74 ± 7.47
Jav_HI2	<i>H. itama</i>	Kendal	69.72 ± 4.89	52.22 ± 5.27
Kal_HI3	<i>H. itama</i>	Banjarbaru	278.78 ± 15.79	74.40 ± 3.63
Kal_HI4	<i>H. itama</i>	Kutai Kartanegara	208.8 ± 10.12	112.8 ± 5.24
Sum_HI5	<i>H. itama</i>	Kampar	67.56 ± 2.84	70.11 ± 2.73
NT_TB1	<i>T. biroi</i>	Sumbawa	336.96 ± 0.64	111.40 ± 0.81
Kal_TB2	<i>T. biroi</i>	Tanah Laut	97.61 ± 1.96	59.49 ± 3.22
Jav_TB3	<i>T. biroi</i>	Batang	83.66 ± 2.21	60.74 ± 3.95
Jav_TB4	<i>T. biroi</i>	Bogor	114.48 ± 5.35	48.5 ± 0.57
Kal_TB5	<i>T. biroi</i>	Barito Kuala	71.50 ± 0.42	39.30 ± 0.73
Jav_TB6	<i>T. biroi</i>	Magelang	80.34 ± 0.87	25.46 ± 0.84
Jav_TL1	<i>T. laeviceps</i>	Pandeglang	63.08 ± 0.68	44.56 ± 2.81
Jav_TL2	<i>T. laeviceps</i>	Batang	55.40 ± 0.93	45.04 ± 1.15
Jav_TL3	<i>T. laeviceps</i>	Magelang	33.08 ± 4.27	30.74 ± 3.95
Kal_TL4	<i>T. laeviceps</i>	Hulu Sungai Tengah	114.92 ± 15.26	74.40 ± 3.63
Kal_TL5	<i>T. laeviceps</i>	Barito Kuala	32.99 ± 0.66	20.66 ± 4.08



J Young Pharm, 2017; 9(1)Suppl: s46-s48

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Original Article

Combination of Ginger and Sappan Wood Extract Effect on *In vivo* Antithrombotic Activity Test

Fadlina Chany Saputri¹, Nida Nabila¹, Abdul Mun'im²

¹Laboratory of Pharmacology, Faculty of Pharmacy, Universitas Indonesia, Depok, 16424, INDONESIA.

²Laboratory of Phytochemistry, Faculty of Pharmacy, Universitas Indonesia, Depok, 16424, INDONESIA.

ABSTRACT

Introduction: Ginger (*Zingiber officinale* Rosc.) and sappan wood (*Caesalpinia sappan* L.) have been shown to inhibit platelet aggregation *in vitro*. **Objective:** This study aimed to prove the efficacy of the combination of both these plants by examining *in vivo* antithrombotic activity by the acute pulmonary thromboembolism model in mice experimentally. **Materials and Methods:** Mice were divided into two experimental groups (bleeding time and survival rate). Acute pulmonary thromboembolism was induced after a combination of ginger and sappan wood extract pretreatment, by an intravenous injection of the mixture of a collagen and epinephrine. The paralyzed and dead mice in each group were observed and the percentage of the protective effect against thromboembolism (survival rate) was calculated. Bleeding time was observed on mice tail that had been cut. **Results:** The Combination of ginger and sappan wood extract at a dose of 56 mg : 14 mg/20 g/day orally, showed an antithrombotic activity due to preventing the paralysis or death (83.33%) induced by collagen-epinephrine intravenous injection.

The Combination of ginger and sappan wood extract at the same dose also extending the bleeding time of mice significantly ($p \leq 0.05$) compared with the normal control. **Conclusion:** Based on these results, a combination of ginger-sappan extract has a potential effect as an antithrombotic agent.

Key words: Antithrombotic, Ginger, Sappan wood, Bleeding time, Survival rate.

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DOI: 10.5530/jyp.2017.1s.12

SIG 04062025

Opportunity

Kekayaan Alam Flora dan Fauna di Indonesia





Logo dan Kemasan



Outlet

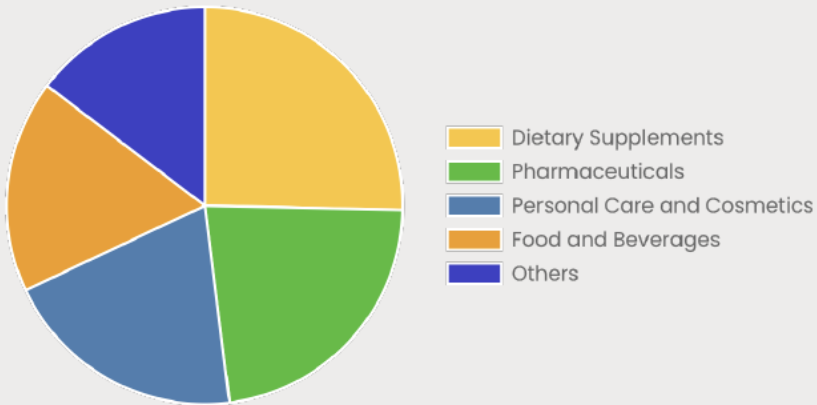


Outlet dan Penyajian kekininian



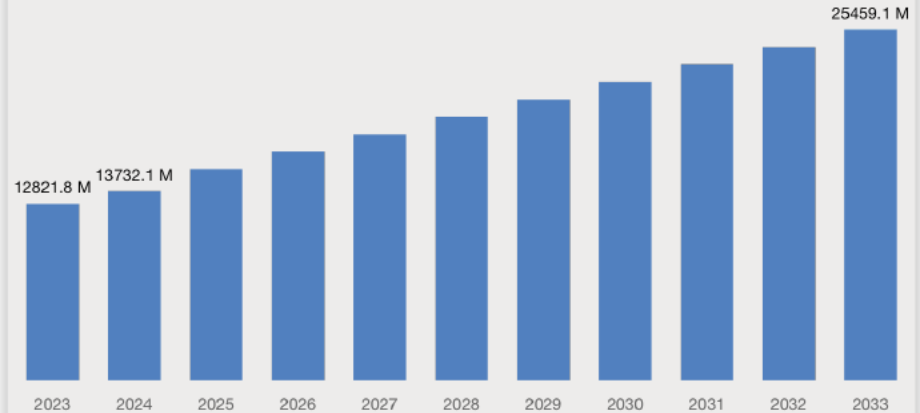
Potensi pasar

Indonesia Herbal Medicine Market 2024–2033 (By Application)



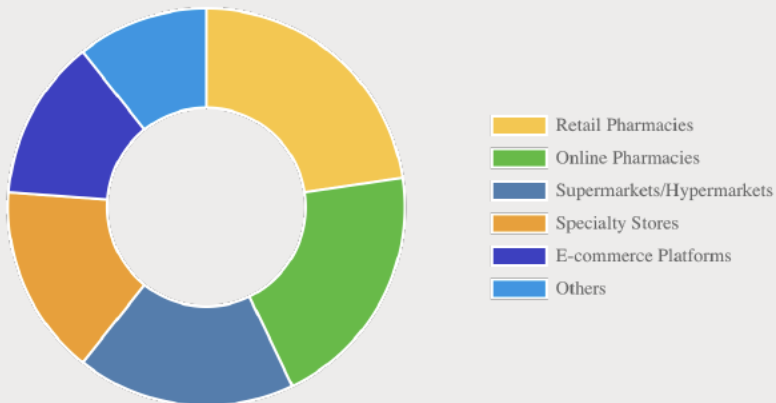
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Indonesia Herbal Medicine Market 2024–2033 (By Million)



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Indonesia Herbal Medicine Market 2024–2033 (By Distribution Channel)



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Feature of the Report	Details
Market Size in 2024	USD 13,732.1 Million
Projected Market Size in 2033	USD 25,459.1 Million
Market Size in 2023	USD 12,821.8 Million

Peluang dan Tantangan

- Sumber daya alam
- Industri
- Pangsa Pasar
- SDM berkualitas
- Bahan Baku ketersediaan dan kualitas
- Industri terpusat di P Jawa
- Industri Kimia Dasar
- Dana LitBang terbatas

INOVASI ?

Program Pascasarjana FF UI

Program S2 Ilmu Kefarmasi & Herbal

Dapat ditempuh melalui dua (2) jalur:



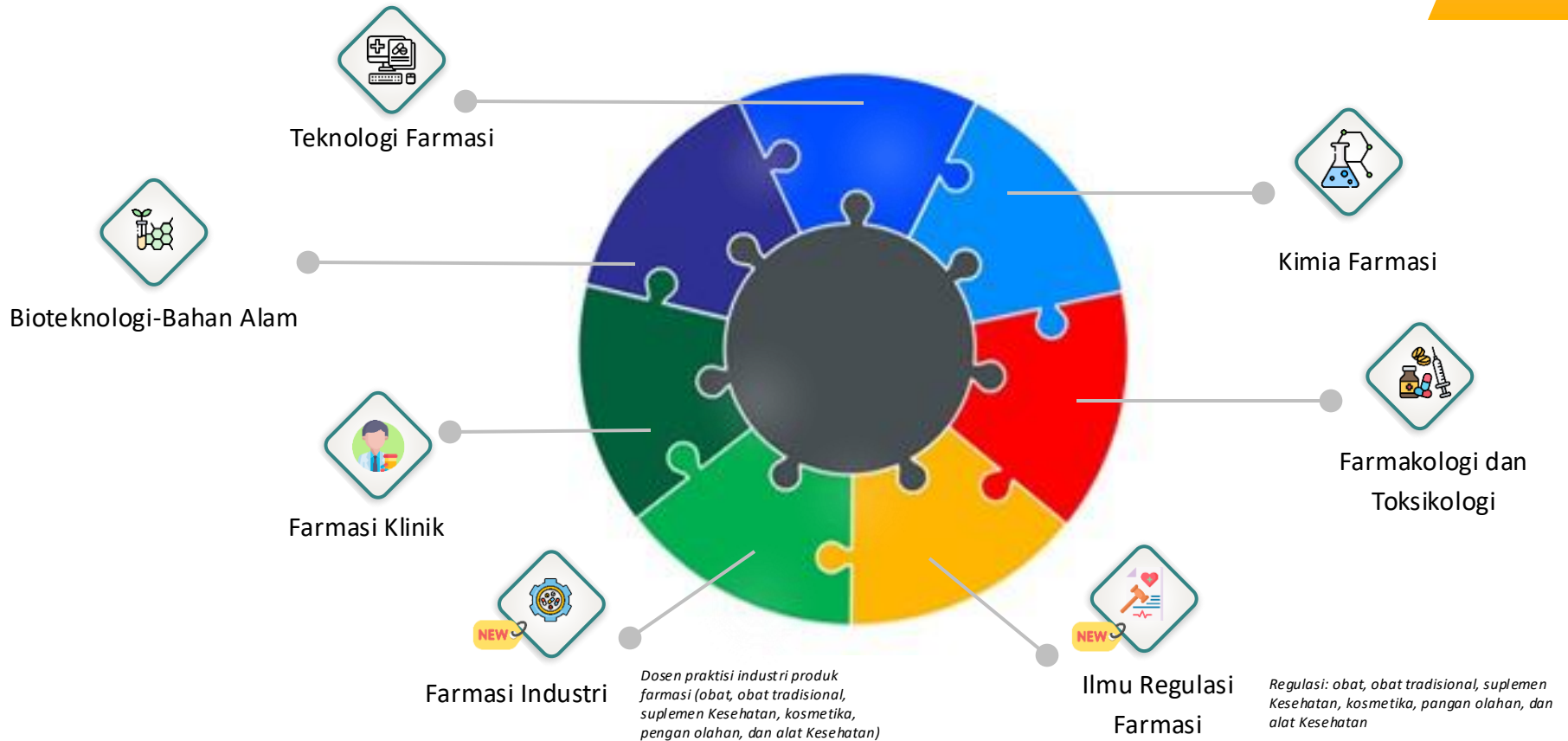
Jalur Kuliah

Semester 1-2 mengikuti perkuliahan terstruktur dan semester 3-4 riset

Jalur Riset

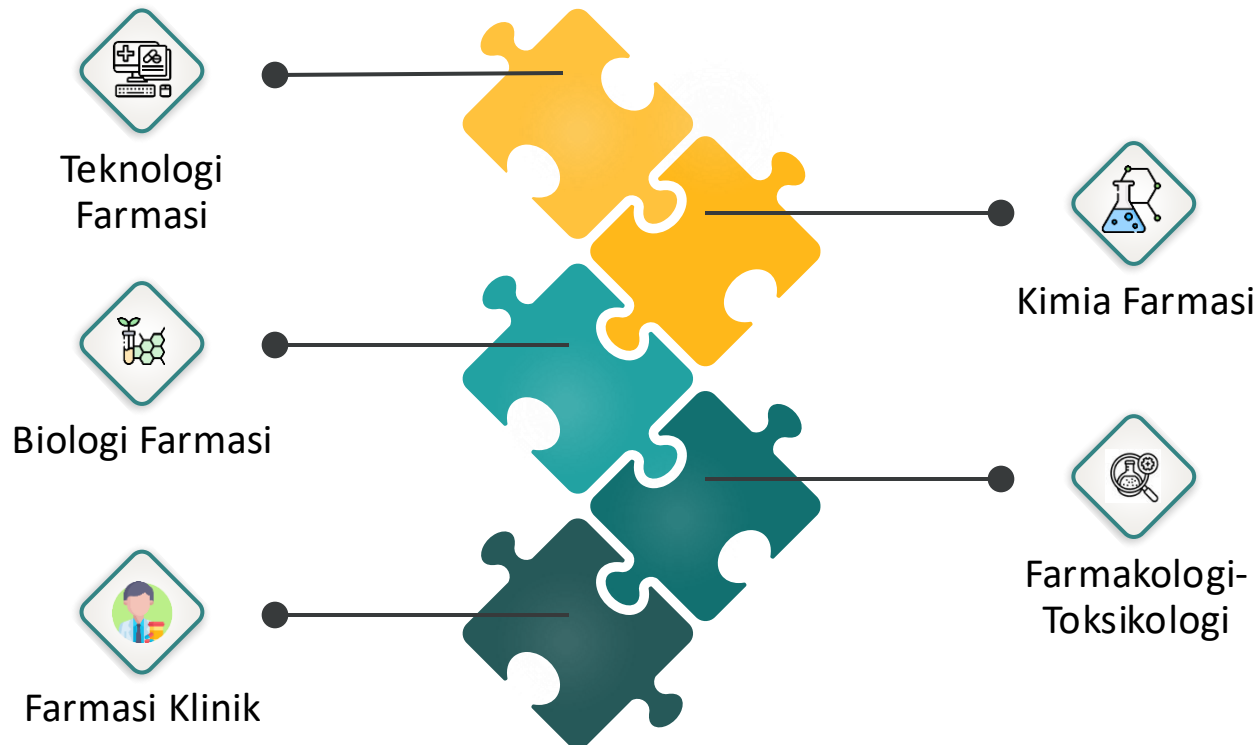
Mulai dari semester 1 hingga ke-4 fokus pada riset

Peminatan S2 Ilmu Kefarmasian



Pendidikan Jalur kuliah dan Jalur Riset

Peminatan S3 Ilmu Farmasi



Masa studi 6 semester (3 tahun)

<https://simak.ui.ac.id/>

Terima kasih

- <https://www.researchgate.net/profile/Abdul-Munim-12>
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- <https://scholar.google.com/citations?user=Lbv84eMAAAAJ&hl=id&authuser=1>