



PRESTASI MAHASISWA

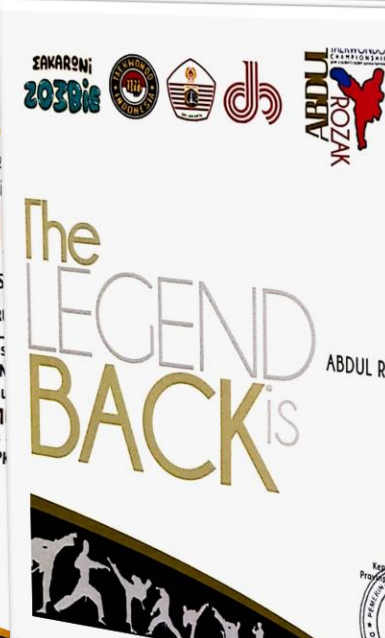
**PROGRAM STUDI PENDIDIKAN PROFESI
APOTEKER**

Rislah Juana Dewi

Silver Medalist of Poomsae Individual Senior Female Online Indonesia International Biho Championship

Juara 1 Kyorugi The Best Taekwondo Championship

Juara 2 Kyorugi Abdul Rozak Cup Taekwondo Championship



SERTIFIKAT KOMPETENSI
CERTIFICATE OF COMPETENCY
Nomor : 0075/14/003/2021/LSK-BR

Ditetapkan kepada :
This certifies that :
Ananta Altriyuana
Lahir di Jakarta, 27 Februari 2000
Born in Jakarta, February 27th 2000

Kompeten untuk bidang Pengobatan Tradisional Ramuan jengam IV KKN
is Competent in Traditional Herbal Healer level IV KKN
Tangerang Selatan, 22 Desember 2021
South Tangerang, December 22nd, 2021
Ketua LSK,
Head of Competency Certification Board
T.M. Corryati, S.Pd.

Ananta Altriyuana
Sertifikat Kompetensi
Penyehat Tradisional Ramuan



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IN SILICO PREDICTION OF ESSENTIALS OIL FROM CYMBOPOGON NARDUS AS IMMUNOMODULATOR IN RHEUMATOID ARTHRITIS

HERYANTO SLAMET¹, ESTI MUMPUNI², SHIRLY KUMALA¹, NOVI YANTIH¹, SAFIRA NAFISA¹, DESI NADYA AULENA¹, YATI SUMHYATI¹

¹Faculty of Pharmacy, Universitas Pancasila, South Jakarta, DKI Jakarta, 12540, Indonesia
²Email: estimumpuni@unppancasila.ac.id

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ABSTRACT

Objective: Rheumatoid arthritis (RA) is an autoimmune disease involving the synovial lining of the major joints. Our study involves bioactive compounds of *Cymbopogon nardus* as possible Rheumatoid arthritis drugs in silico targeted TNF- α , JAK1/2, JAK3, PAD4, and DHPR.

Methods: Using computational docking and receptors from the Protein Data Bank (PDB) files 2A2S, 3KYG, 1LX1, 1DLS, and 1WDA. Molecular Virtual Docker 6.0 was utilized to undertake an in silico anti-arthritic drug study. ChemSurv 3.0 was utilized to minimize the ligand's energy before docking, and the structure's Negative Logarithm were employed as positive control medications. A pharmacokinetic and toxicological study was performed using SwissADME (ADME) and PK-CDS.

Results: Using the MolDock SE mechanism calculates the binding (atom) energies of each protein (enzyme) and each ligand at the least energetic conformation state. Docking results of ten tested bioactive compounds have not displaced the lowest rebind score scores and best fit within the prominent active site residues.

Conclusion: The Essentials oils from *Cymbopogon nardus* have not effectively suppressed the Rheumatoid Arthritis pathway through inhibition of TNF- α , JAK1/2, JAK3, PAD4, and DHPR which can serve as potential lead compounds for the development of new drugs for the treatment of Rheumatoid Arthritis.

Keywords: Rheumatoid arthritis, *Cymbopogon nardus*, In silico Molecular docking, Essentials oils

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INTRODUCTION

Rheumatoid arthritis (RA) is an immune-dysregulated disease that causes bone and cartilage damage. It causes joint discomfort, swelling, and sometimes deformity and is characterized by persistent inflammation. In extreme circumstances, other autoimmune organs may be impacted as well. Genetic factors such as human leukocyte antigen (HLA), protein tyrosine phosphatase, non-transcription 4 (PTPN22), signal transducer and activator of transcription 4 (STAT4), and peptidyl arginine deiminase, type IV (PAD4), epigenetic, and environmental factors have been linked to the development of the disease [1].

colony-stimulating factor paracrine inducers for the of a wide range of cells, in cells, synovial cells, and induces the production of Non-steroidal anti-inflammation modifying anti-rheumatoid therapies including b-DMA treat RA. While DMARDs disease symptoms and immunological factors have been linked to the adverse effects such as that cancer, hematologic abuse Plants are a valuable source of natural products. Medicinal plants are used in various cultures and have been used for a long time to cure a variety of human and animal ailments all around the world.

Heryanto Slamet
Penulisan Jurnal Internasional

Niko Samuel

Juara 3 Internasional Hackathon Biofarma X MIT Medicine, London yang diselenggarakan di Bali,



NAMA	PRESTASI YANG DICAPAI	TINGKAT
Amelia Nursafitri	Peserta oral presenter	INTERNASIONAL
Andrea Angelica Susanto	Juara 1 Lomba Pidato Berbahasa Inggris Perayaan Dies Natalis ke-53 Universitas Pancasila	LOKAL/WILAYAH
	Quarter-Finalist The 2019 Asian English Olympics (AEO) Speech Competition	INTERNASIONAL
	Juara 1 Lomba Pidato Bahasa Inggris Peringatan Hari Ulang Tahun Universitas Pancasila ke-54	LOKAL/WILAYAH
	Semi Finalist The 2020 Asian English Olympics (AEO) Speech Competition	INTERNASIONAL
	Juara 2 Lomba Pidato Virtual Bahasa Inggris HUT Universitas Pancasila ke-55	LOKAL/WILAYAH
	Runner Up 20th IPSF Asia Pasific Pharmaceutical Symposium Industrial Skills Event (Marketing)	INTERNASIONAL
	Penerima Dana Hibah Program Kreativitas Mahasiswa (PKM) Skema PKM-K (Kewirausahaan)	LOKAL/WILAYAH
Elisia	2nd place International The 20th IPSF Asia Pacific Pharmaceutical Symposium Industrial Skills Event (Marketing)	INTERNASIONAL
Fahreza Pratama Putra	Juara 2 lomba entrepreneur dan lomba entrepreneur	NASIONAL
HERYANTO SLAMET	Penulisan jurnal internasional	INTERNASIONAL
	Juara 3 mahasiswa teladan	LOKAL/WILAYAH
	Finalist undergraduated poster competition	INTERNASIONAL
Kezia Giventy Liandi	Second Place Winner During the 20th IPSF Asia Pacific Pharmaceutical Symposium Industrial Skills Event (Marketing)	INTERNASIONAL
	Penerima Hibah Kewirausahaan Pemuda dari Kementerian Pemuda dan Olahraga	NASIONAL
	The Best 15 Young Entrepreneur Universitas Pancasila	LOKAL/WILAYAH
Leonardus Yudha Pradana	Juara 1 lomba PKM Pembuatan Minuman Probiotik	LOKAL/WILAYAH
Naomi Maria Gunawan	Juara 2	NASIONAL
Perwira Jon Tua Pasaribu	1.SEMIFINALIS 2. BEST SPEAKER	NASIONAL
	Peraih Pendanaan (PKM) Program Kreativitas Mahasiswa Skema PKMRE	NASIONAL
	Peraih Insentif Program Kreativitas Mahasiswa (PKM) Skema PKMAI	NASIONAL
	BEST 15 ENTERPRENEUR	NASIONAL
	BEST SPEAKER LOMBA DEBAT BERBAHASA INDONESIA	NASIONAL
Rio Yomargo	Finalis Lomba Poster Undergraduate Poster Competition Indonesian Society for Cancer Chemoprevention (ISCC)	INTERNASIONAL
Rislah Juana Dewi	Silver Medalist of Poomsae Individual Senior Female Online Indonesia International Biho Championship 2021	INTERNASIONAL
	Juara 1 Kyorugi The Best Taekwondo Championship 2020	NASIONAL
	Juara 2 Kyorugi Abdul Rozak Cup Taekwondo Championship 2019	NASIONAL
	15 Peserta Terbaik Lomba Kewirausahaan Entrepreneur Day 2021	NASIONAL
	Peserta 7 Terbaik Lomba Karya Tulis Ilmiah	LOKAL/WILAYAH

Valentina Tjoe	RUNNER UP INDUSTRIAL SKILLS EVENT (MARKETING CATEGORY)	INTERNASIONAL
Valentina Tjoe	THE WINNER IN THE POSTER COMPETITION (SCIENTIFIC CATEGORY)	INTERNASIONAL
Yuli Kusuma Lestariningsih	-	LOKAL/WILAYAH
Farah Alida Maziyah	Finalis Lomba Karya Tulis Ilmiah Nasional SEMA FF KMUP 2020	NASIONAL
Fajri Rifaldi	Oral Presenter in The 5th International Conference on Pharmaceutical Nanotechnology/Nanomedicine	INTERNASIONAL
Venansius Mario	Juara 1 Futsal	
Petrida Mbui	Juara 2 Catur	LOKAL/WILAYAH
Farah Alida Maziyah	Juara III Lomba Ratoeh Jaroe tingkat Universitas	LOKAL/WILAYAH
Vicy Rachma Pramita	Juara 1 Health Education Video "Peran Teknologi dalam Penyaluran Obat dan Dampaknya terhadap Farmasis"	NASIONAL
Anggita Fairuz Tsani	Juara 1 video kompetisi kesehatan Pharmacy Fair 2020	LOKAL/WILAYAH
Ananta Altriyuana	Pengobat Tradisional Ramuan	NASIONAL
IRNANDO	Best Of Theme 1 Presenter Oral dan Best Innovation 3 Presenter Oral	NASIONAL
IRNANDO	Juara 2 Lomba Desain Poster	NASIONAL
SUTARI MASYITAH	JUARA 1 - MUSIKALISASI PUISI	NASIONAL
Elvira Safitri	The Best Young Entrepreneur 2021	LOKAL/WILAYAH

