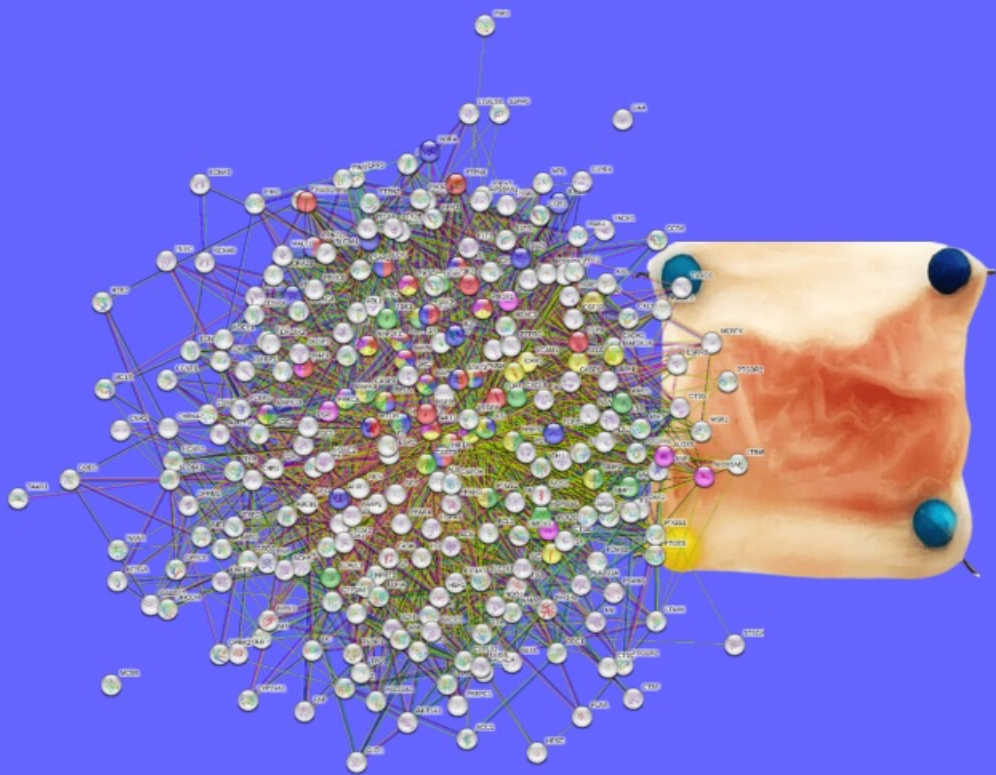




Volume 21, Nomor 2, 2024  
p-ISSN 1693-5683  
e-ISSN 2527-7146

# JURNAL FARMASI SAINS DAN KOMUNITAS

Journal of Pharmaceutical Sciences & Community



Accredited by DIKTIRISTEK KEMDIKBUD  
No. 158/E/KPT/2021



JFSK

Vol. 21

No. 2

PP. 120-243

Yogyakarta, November 2024

p-ISSN 1693-5683  
e-ISSN 2527-7146

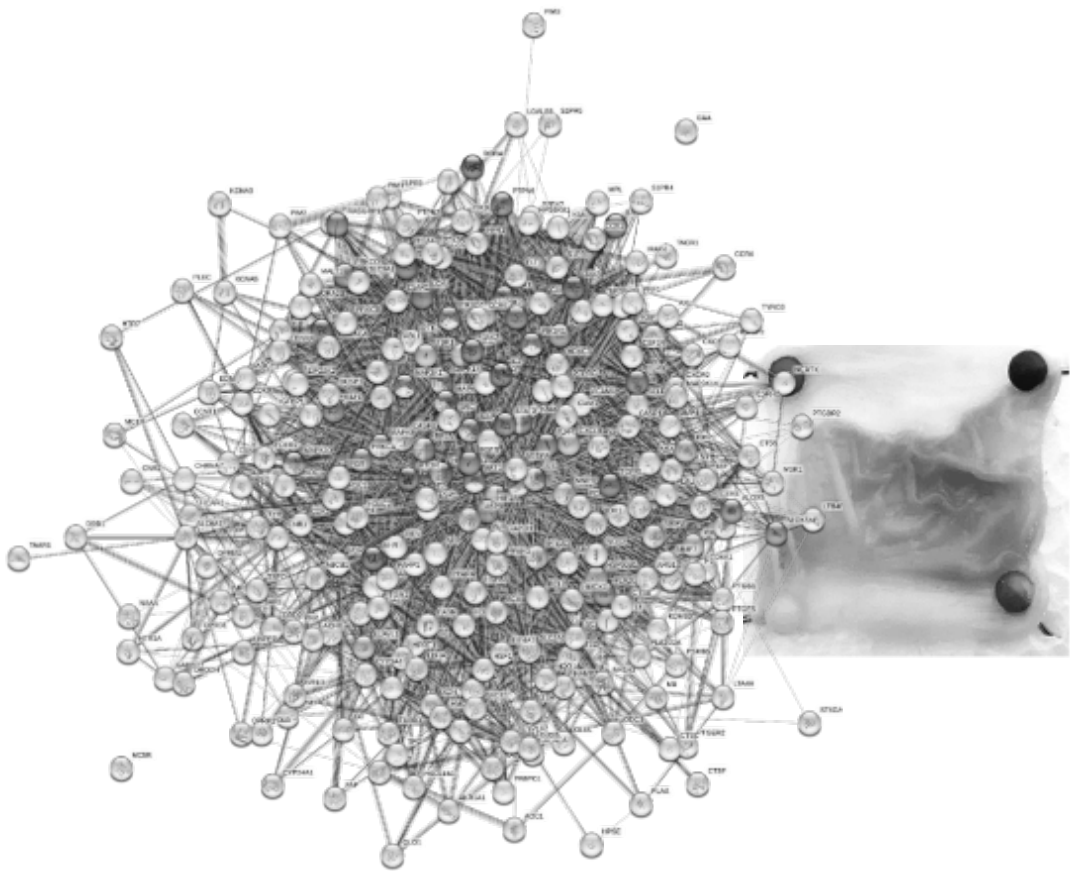


Volume 21, Nomor 2, 2024  
p-ISSN 1693-5683  
e-ISSN 2527-7146

# JURNAL FARMASI SAINS DAN KOMUNITAS

Journal of Pharmaceutical Sciences & Community

---



Accredited by DIKTIRISTEK KEMDIKUD  
No. 158/E/KPT/2021



JFSK	Vol. 21	No.2	PP. 120-243	Yogyakarta, November 2024	p-ISSN 1693-5683 e-ISSN 2527-7146
------	---------	------	-------------	---------------------------	--------------------------------------



# JURNAL FARMASI SAINS DAN KOMUNITAS

Journal of Pharmaceutical Sciences & Community

p-ISSN 1693-5683 e-ISSN 2527-7146

**Jurnal Farmasi Sains dan Komunitas**  
**Vol. 21, No.2, November 2024**

## **Editor in Chief**

Florentinus Dika Octa Riswanto

Faculty of Pharmacy Universitas Sanata Dharma, Campus III Paingan, Maguwoharjo, Depok,  
Yogyakarta 55282, Indonesia; Email: dikaocta@usd.ac.id

## **Vice Editor in Chief**

Dita Maria Virginia, Universitas Sanata Dharma, Indonesia

## **Advisory Editorial Board**

Enade Perdana Istyastono, Universitas Sanata  
Dharma, Indonesia

Dewi Setyaningsih, Universitas Sanata Dharma,  
Indonesia

Dina Christin Ayuning Putri, Universitas Sanata  
Dharma, Indonesia

Fenty, Universitas Sanata Dharma, Indonesia

Yosef Wijoyo, Universitas Sanata Dharma, Indonesia

Phebe Hendra, Universitas Sanata Dharma,  
Indonesia

Sri Hartati Yuliani, Universitas Sanata Dharma,  
Indonesia

## **Editorial Board**

Bandana Saini, University of Sydney, Australia

P.T. Thomas, Taylor's University, Malaysia

Phayom Sookaneknun, Maharakham University,  
Thailand

Monet M. Loquias, University of the Philippines,  
Philippines

Yashwant Pathak, University of South Florida, USA

Rizky Abdulah, Universitas Padjadjaran, Indonesia

Aty Widyawaruyanti, Universitas Airlangga,  
Indonesia

Auliya A. Suwantika, Universitas Padjadjaran,  
Indonesia

Irma Melyani Puspitasari, Universitas Padjadjaran,  
Indonesia

Rano K. Sinuraya, Universitas Padjadjaran, Indonesia

Agatha Budi Susiana Lestari, Universitas Sanata  
Dharma, Indonesia

Agustina Setiawati, Universitas Sanata Dharma,  
Indonesia

Christine Patramurti, Universitas Sanata Dharma,  
Indonesia

Christofori Maria Ratna Rini Nastiti, Universitas  
Sanata Dharma, Indonesia

Erna Tri Wulandari, Universitas Sanata Dharma,  
Indonesia

Jeffrey Julianus, Universitas Sanata Dharma, Indonesia

Rini Dwiastuti, Universitas Sanata Dharma,  
Indonesia

Titien Siwi Hartayu, Universitas Sanata Dharma,  
Indonesia

Yohanes Dwiatmaka, Universitas Sanata Dharma,  
Indonesia

Yustina Sri Hartini, Universitas Sanata Dharma,  
Indonesia

## **Managing Editor**

Michael Raharja Gani, Universitas Sanata Dharma,  
Indonesia

Handika Immanuel, Universitas Sanata Dharma,  
Indonesia

Anjar Bayu Saputra, Universitas Sanata Dharma,  
Indonesia

Zita Dhirani Pramono, Universitas Sanata  
Dharma, Indonesia

## **Proofreading**

Center for Journal Publishing, Universitas Sanata Dharma

## **SEKRETARIAT JURNAL FARMASI SAINS DAN KOMUNITAS**

Faculty of Pharmacy Universitas Sanata Dharma, Campus III Paingan, Maguwoharjo, Depok, Yogyakarta 55282; Phone: +62 (274) 883037, 883968 ext.52328; Fax: +62 (274) 886529;

Email: [editorial.jpssc@usd.ac.id](mailto:editorial.jpssc@usd.ac.id); Website: <https://e-journal.usd.ac.id/index.php/JFSK/>

All orders for hardcopy of the journal may be sent via email to [editorial.jpssc@usd.ac.id](mailto:editorial.jpssc@usd.ac.id) with the subject Order Journal. The price of an issue is IDR 250,000.00. The price is not included the packaging and postal delivery fees to the address of the subscribers. Payments should be performed via transfer to **CIMB Niaga (Account holder: Lembaga Penelitian Univ. Sanata Dharma, Account Nr. 800077540800)**. The order will be executed when payment have been performed and the proof of payment has been scanned and sent accordingly.



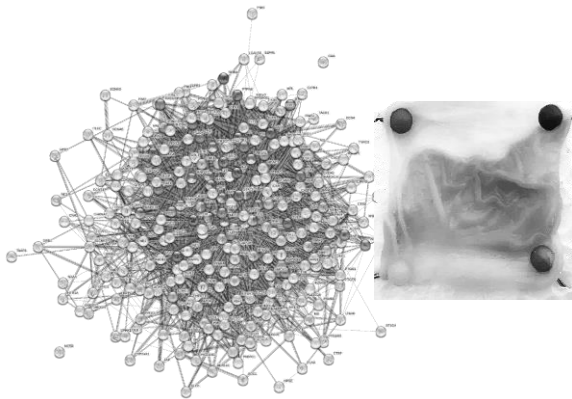
**CONTENTS**

**Research Articles**

- The Immunomodulator Effects of Biosynthetic Nanosilver Based on Immunoglobulin G Level of Mice Induced by Measles Vaccine Compared with Immunostimulant Agent** 120-128  
Dian Eka Ermawati, Putri Indah Nuraini, Niki Putri Anjani
- Antioxidant and Antiaging Activity of Ethanolic Extract of Red Beetroot (*Beta vulgaris L.*): An In Vitro Study** 129-135  
Maitsa Via Saffriza, Aji Winanta
- Antihyperlipidemic Effectivity of Sweet Orange Peel Extract (*Citrus sinensis*) on Triglyceride Levels in Male Mice (*Mus musculus*) Induced by High Cholesterol** 136-145  
Ellya Catharine Romanna Aprilya Lumbantoruan, Mistika Zakiah, Andhi Fahrurroji
- Cost-Effectiveness of Antithrombotic Agents for STEMI** 146-151  
M Fiqri Zulpadly, Jarir At Thobari, Lucia Kris Dinarti
- Analysis on the Acceptance of COVID-19 Vaccine Administration for Children in Indonesia Based on the Theory of Planned Behavior** 152-160  
Liana Fitriani Hasymi, Nurul Mardiaty, Ratih Puspita Kusumadewi Purba, Rizal, Imam Jayanto, Dian Nurmansyah
- A Network Pharmacology Analysis of Secondary Metabolites of Noni (*Morinda citrifolia*) as Immunomodulators** 161-169  
M. Helmi, Ahmad Shobrun Jamil, M. Artabah Muchlisin, Irsan Fahmi Almutahrihan
- Gastroprotective Potential of Hantap Leaves (*Sterculia coccinea* Jack) Extract in Stress-Induced Gastric Ulcers of Male White Rats** 170-177  
Yuliet, Khildah Khaerati, Gladies Melinda Lokong



- Nanostructured Lipid Carrier as a Topical Drug Delivery System:  
A Review** 178-189  
Luluk Latifah, Esti Hendradi, Dewi Isadiartuti
- The Effect of Adherence to Antihypertensive Therapy and Cardiovascular  
Risk Among Hypertensive Patients in  
Purworejo Regency** 190-199  
Prili Arwinda, Dita Maria Virginia, Phebe Hendra
- Nanoemulgel Formulation of Eleutherine palmifolia Onion Bulb Extract and  
Its Effectiveness in Wound Healing** 200-210  
Muhammad Faisal, Lutfi Chabib, Melynia Sintha Dewi, Michael Raharja Gani,  
Rini Dwiastuti
- Evaluation of Antibiotics Used in Pediatric Outpatients with Acute  
Respiratory Infection at a Private Hospital in Yogyakarta** 211-219  
Margaretha Wulan Kurniasari, Titien Siwi Hartayu
- Stability model prediction using the response surface approach to assess  
the outcomes of vitamin B12 injection post-market sampling** 220-227  
Yulia Yulia, Sri Hartati Yuliani
- Review Article**
- Exposure of Histone Deacetylase-2 Inhibitor Curcumin and Its  
Analogues in Self Nano Emulsifying Drug Delivery System Change  
Memory and Cognitive Function, Anxiety, and Social Interaction  
Behavior in Mouse** 228-243  
Nunung Yuniarti, Febri Wulandari, Ulfah Laily Azizah, Yance Anas, Retno  
Murwanti



**Cover picture:**

See Jamil et al., p. 167

Figure 3. Network Pharmacology prediction results using StringDB. The color indicates which pathway is associated with the protein. Fc epsilon RI signaling pathway (red); PD-L1 expression and PD-1 checkpoint pathway in cancer (blue); Th17 cell differentiation (green); TNF signaling pathway (purple); IL-17 signaling pathway (yellow).

See Yuliet et al., p.173 (A)

Figure 1. Effects of restraint water-immersion stress on gastric mucosal lesions in rats. (A=normal control)