IPB University
Bogor Indonesia
TropBRC LRI-PGKH

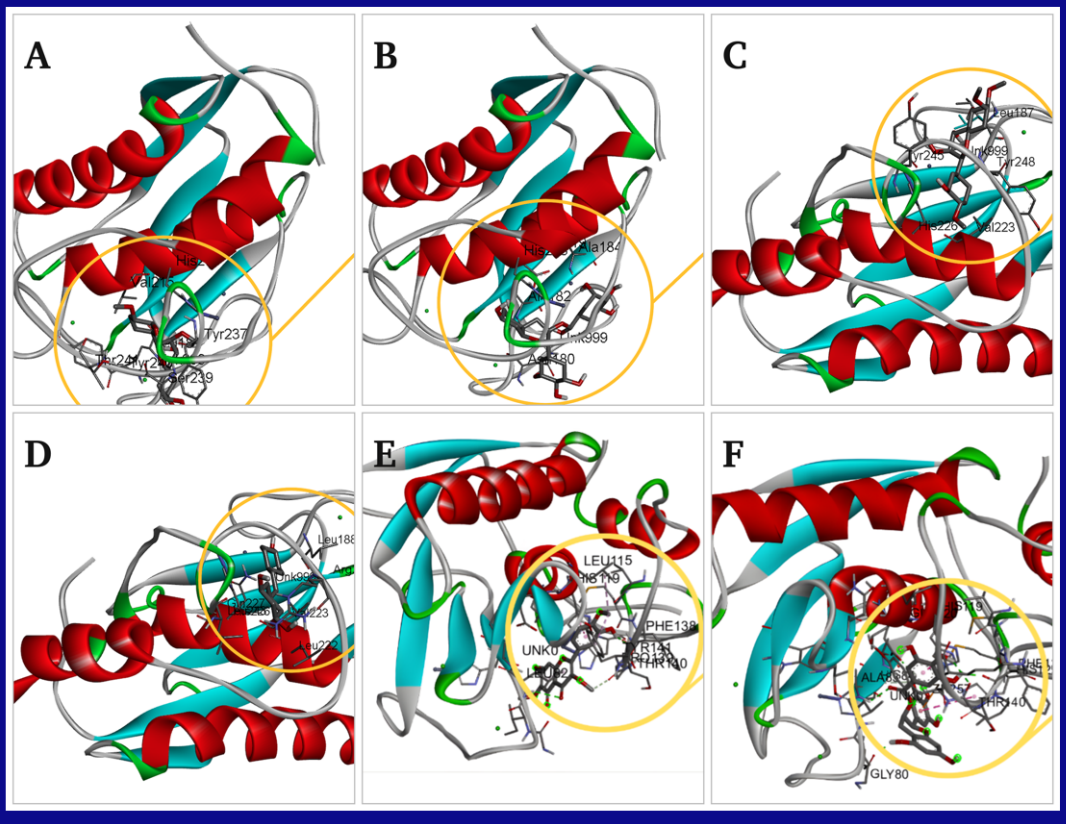
DIKTISAINTEK BERDAMPAK

ISSN 2407-7178
eISSN 2407-7763

Jurnal Jamu Indonesia

(*Indonesian Journal of Jamu*)

Volume 11 | Number 5 | Sep - Oct 2026



A = MMP-1 + casticin B = MMP-1 + EGCG C = MMP-9 + casticin
D = MMP-9 + resveratrol E = MMP-12 + casticin F = MMP-12 + EGCG

Tropical Biopharmaca Research Center
IPB University
Bogor, Indonesia

Front cover: Predicted three-dimensional binding poses of casticin and the reference compounds in the matrix metalloproteinase targets. A = MMP-1 + casticin; B = MMP-1 + EGCG; C = MMP-9 + casticin; D = MMP-9 + resveratrol; E = MMP-12 + casticin; F = MMP-12 + EGCG. EGCG, epigallocatechin gallate. See "Mahayasih, P. G. M. W., Saputri, F. C., Saputri, F. A., Eden, Y., Azahra, D. S., Belladona, L. V., Luliana, S., & Mun'im, A. (2026). Molecular Docking and Molecular Dynamics of Casticin against Skin Aging Matrix Metalloproteinases. Jurnal Jamu Indonesia 11(5), 439–448. https://doi.org/10.29244/jji.v11i5.506."

Jurnal Jamu Indonesia

(Indonesian Journal of Jamu) p-ISSN 2407-7178, e-ISSN 2407-7763

EDITOR-IN-CHIEF

Waras Nurcholis (IPB University, Indonesia)

EDITORIAL BOARD

Mohamad Rafi (IPB University, Indonesia); Irmanida Batubara (IPB University, Indonesia); Sandra Arifin Aziz (IPB University, Indonesia); Yaya Rukayadi (Universiti Putra Malaysia, Malaysia); Morina Adfa (Universitas Bengkulu, Indonesia); Marlin (Universitas Lampung, Indonesia); Wisnu Ananta Kusuma (IPB University, Indonesia); Ninuk Purnaningsih (IPB University, Indonesia); Eka Intan Kumala Putri (IPB University, Indonesia); Siti Sa'diah (IPB University, Indonesia); Khairul Anam (Universitas Diponegoro, Indonesia); Asmiyenti Djaliasrin Djalil (Universitas Muhammadiyah Purwokerto, Indonesia); Rini Arianti (University of Debrecen, Hungary); Mohammed A. Jalloh (University of Liberia, Liberia); Walter Ajambang Nchu (Institute of Agricultural Research for Development, Oil Palm Research Centre, Douala, Cameroon)

MANAGING EDITOR

Rudi Heryanto (IPB University, Indonesia)
Titis Arifiana (IPB University, Indonesia)
Rizka Fatriani (Institut Teknologi Sumatera, Indonesia)
Novian Liwanda (IPB University, Indonesia)

PUBLISHER

Tropical Biopharmaca Research Center, IPB University

MAILING ADDRESS

CRC Building, 2nd Floor, STP Area, IPB Taman Kencana Campus,
Taman Kencana St. No. 3, Bogor, West Java, Indonesia 16128
Email: jurnaljamuindonesia@apps.ipb.ac.id
Website: https://jamu-journal.ipb.ac.id/index.php/JJI/index

Jurnal Jamu Indonesia (JJI) is a scientific journal published by the Tropical Biopharmaca Research Center (TropBRC), IPB University, which serves as the University Center of Excellence Program (PUI-PT) for herbal medicine. JJI is published six times a year with the print ISSN 2407-7178 and electronic ISSN 2407-7763. JJI has been accredited at SINTA Level 2 based on Decree No. 0173/C3/DT.05.00/2025, issued by the Ministry of Higher Education, Science, and Technology. All articles published in JJI are selected by the editorial team and undergo peer review by experts in their respective fields. JJI publishes manuscripts in the form of review articles, communications, and original research papers.

p-ISSN 2407-7178, e-ISSN 2407-7763

TABLE OF CONTENTS

1. Research Article: Supply Chain Network Optimization for Local *Baccaurea* Fruits from West Sulawesi as Herbal Medicine Raw Materials
Heri Irawan, Fityan Shobar Setyawan, Syarif Hidayat, Aswan Munang 350–365

2. Review Article: Bioactive Compounds, Pharmacological Activities, Toxicity Profiles, and Prospects for New Drug Discovery from *Rhodomyrtus tomentosa* (Aiton) Hassk
Jajang Japar Sodik, Entris Sutrisno, Taufik Muhammad Fakih 366–373

3. Research Article: Leukocyte Responses to Karika (*Vasconcellea pubescens*) Leaf Ethanol Extract in Carrageenan-Induced Mice
Fania Putri Luhurningtyas, Dwi Cahya Kumalasari 374–381

4. Research Article: Effect of *Premna serratifolia* Leaf Ethanol Extract on Pancreatic Histopathology in Hypercholesterolemic Diabetic Rats
Wayan Wirawan, Niluh Puspita Dewi, Yasinta Rakanita, Matra Novalia Palipadang, Magfirah, Nuraisya, Ni Ketut Marlina 382–388

5. Research Article: Effect of *Morinda citrifolia* L. Ethanolic Leaf Extract on Pancreatic Histopathology in Streptozotocin-Induced Diabetic Rats
Yunlis S. Kenta, Niluh Puspita Dewi, Indah Kurnia Utami, Nur Ramadhani, Nani Astria Polontalo 389–398

6. Research Article: α-Glucosidase Inhibitory Activity and Total Flavonoid Content of Green and Purple Kale (*Brassica oleracea* L.) Leaf Extracts
Wempi Budiana, Dewi Kurnia, Ina Rodinah 399–407

7. Research Article: Antidiabetic Activity of *Pulutan* (*Urena lobata* L.) and *Temu Blenyeh* (*Curcuma purpurascens* Blume) Leaf Extracts in Alloxan-Induced Mice
Oktariani Pramiastuti, Nabiilah Febrianti Sausan, Endang Istriningsih 408–418

8. Research Article: Analysis of Antioxidant Activity, Total Phenolic and Flavonoid Contents of Ethyl Acetate Extracts from *Carica papaya* L. Seeds and Peels
Gemmy Sarina, Mellova Amir, Atalia Defira Wardhani, Nurjannah Bachri 419–425

9. Research Article: Antihypertensive Jamu Supplementation Improves Blood Pressure and Renal Oxidative Stress Markers in Fructose-Fed Rats
Sri Teguh Rahayu, Aprilita Rina Yanti Eff, Yonatan Eden, Anna Yuliana 426–438

10. Research Article: Molecular Docking and Molecular Dynamics of Casticin against Skin Aging Matrix Metalloproteinases
Putu Gita Maya Widyaswari Mahayasih, Fadlina Chany Saputri, Febrina Amelia Saputri, Yonatan Eden, Delriza Syifa Azahra, Ladisa Virgiane Belladona, Sri Luliana, Abdul Mun'im 439–448