

DAFTAR PUSTAKA

- AA bioquest, I. (2025, setembre 12). *Dilution Calculator (M1V1 = M2V2)*.
<https://www.aatbio.com/tools/quick-calculator/m1v1-formula-calculator>.
<https://www.aatbio.com/tools/quick-calculator/m1v1-formula-calculator>.
- Abiyoga, I., Mukaromah, A. H., & Dewi, D. S. S. (2021). Uji Aktivitas Antijamur Ekstrak Etanol Daun Sirih Merah (*Piper crocatum* L.) terhadap Pertumbuhan *Aspergillus flavus*. Em *Jurnal Ilmu Kimia dan Terapan* (Vol. 8, Número 2).
- Aboody, M. S. Al, & Mickymaray, S. (2020). Anti-fungal efficacy and mechanisms of flavonoids. Em *Antibiotics* (Vol. 9, Número 2). MDPI AG. <https://doi.org/10.3390/antibiotics9020045>
- Anggraini, V., & Masfufatun, M. (2017b). Efektivitas Kombinasi Ekstrak Daun Sirih Merah (*Piper crocatum*) dan Ekstrak Biji Alpukat (*Persea americana*) dalam Menghambat Pertumbuhan *Candida albicans*. *Jurnal Kimia Riset*, 2(2). <https://doi.org/10.20473/jkr.v2i2.6196>
- Cornet, L., D'hooge, E., Magain, N., Stubbe, D., Packeu, A., Baurain, D., & Becker, P. (2021b). The Taxonomy of the *Trichophyton rubrum* Complex: A Phylogenomic Approach. *Microbial Genomics*, 7(11). <https://doi.org/10.1099/MGEN.0.000707>
- Dirgantara, D. T., Setyaningsih, Y., & Bahar, M. (2021). Effectiveness of Tamarillo (*Solanum betaceum* Cav.) Fruits Extract Towards Growth of *Trichophyton rubrum*: in vitro Study. Em *Indonesian Journal of Biotechnology and Biodiversity* (Vol. 5, Número 2).
- Fatmawati, A., Diyanah, D., & Tenri Pada, A. (2022). Kejadian Infeksi Jamur Penyebab Tinea Pedis terkait Higienitas di Lingkungan Padat Penduduk Kampung Nelayan. Em *Jurnal Medika: Media Ilmiah Analisis Kesehatan* (Vol. 7, Número 2).
- Gumay, A. (2023). *Kandungan dan Manfaat Daun Sirih Merah*. Humaniora.id.
- Gunawan, A., & Zuraidah, D. (2015). Pengaruh Pemberian Ekstrak Daun Sirih (*Piper sp.*) terhadap Pertumbuhan Jamur *Candida albicans*. *Prosiding Seminar Nasional Biotik 2015*.
- Heliawati, L., Lestari, S., Hasanah, U., Ajiati, D., & Kurnia, D. (2022). Phytochemical Profile of Antibacterial Agents from Red Betel Leaf (*Piper crocatum* Ruiz and Pav) against Bacteria in Dental Caries. Em *Molecules* (Vol. 27, Número 9). MDPI. <https://doi.org/10.3390/molecules27092861>
- Hidayat, R. (2018). Hubungan Kebersihan Diri (Personal Hygiene) dengan Kejadian Penyakit Dermatofitosis di Desa Lereng Wilayah Kerja Puskesmas Kuok. *Jurnal Ners, Volume 2*(Nomor 1), 86–94.
- Houšť, J., Spížek, J., & Havlíček, V. (2020). Antifungal Drugs. Em *Metabolites* (Vol. 10, Número 3). MDPI AG. <https://doi.org/10.3390/metabo10030106>
- Imanda, A., Rahayu, P. D., Suprihatin, & Sani. (2024). Indonesian Journal of Chemical Science Extraction Flavonoids of Beluntas Leaves (*Pluchea indica* L.) Using Maceration Method with Fermentation. *J. Chem. Sci*, 13(2). <http://journal.unnes.ac.id/sju/index.php/ijcs>
- Khairunnisa, R. D., Marfu'ah, N., Kurniawan, K., & Estikomah, S. A. (2023). Pengaruh Konsentrasi Etanol terhadap Aktivitas Antibakteri Ekstrak Sirih

- Merah (*Piper crocatum* Ruiz & Pav.) pada Pertumbuhan Bakteri *Staphylococcus epidermidis*. *Pharmasipha: Pharmaceutical Journal of Islamic Pharmacy*, 7(1). <https://doi.org/10.21111/pharmasipha.v7i1.9301>
- Kimberly, B. T., & Rini, C. S. (2022). Effectiveness Test of Okra Fruit (*Abelmoschus esculentus*) Extract on the Growth of *Trichophyton rubrum*. *Medicra (Journal of Medical Laboratory Science/Technology)*, 5(2), 86–90. <https://doi.org/10.21070/medicra.v5i2.1647>
- Kristina, C. V. M., Yusasrini, N. L. A., & Yusa, N. M. (2022). Pengaruh Waktu Ekstraksi Dengan Menggunakan Metode Ultrasonic Assisted Extraction (UAE) Terhadap Aktivitas Antioksidan Ekstrak Daun Duwet (*Syzygium cumini*). Em *Itepa* (Vol. 11, Número 1).
- Kurnia, M. (2020). Efek Pemberian Daun Sirih (*Piper sp.*) Terhadap Pertumbuhan *Candida albicans*. *Medula, Volu me 10*.
- Maisarah, M., Chatri, M., & Advinda, L. (2023). Characteristics and Functions of Alkaloid Compounds as Antifungals in Plants Karakteristik dan Fungsi Senyawa Alkaloid sebagai Antifungi pada Tumbuhan. *Serambi Biologi*, Vol. 8.
- Martinez-Rossi, N. M., Peres, N. T. A., & Rossi, A. (2017). Pathogenesis of Dermatophytosis: Sensing the Host Tissue. *Mycopathologia*, 182(1–2), 215–227. <https://doi.org/10.1007/s11046-016-0057-9>
- Maslahah, S. F. N., & Tjiahyono, E. (2024). Seorang Perempuan Usia 28 Tahun dengan Tinea Cruris et Corporis: Laporan Kasus. *Public Health*.
- Melati, G. C. (2021). Uji Efektivitas Ekstrak Daun Kenikir (*Cosmos caudatus Kunth*) dalam Menghambat Pertumbuhan *Trichophyton rubrum* secara In Vitro. www.upnvj.ac.id – www.library.upnvj.ac.id – www.repository.upnvj.ac.id
- Najib, A. (2018). *Ekstraksi Senyawa Bahan Alam*. Deepublish.
- Nuraini, P., Budi, H. S., Wahluyo, S., Wicaksono, D. P., Wiguno, A. A., Antonius, Y., & Laosuwan, K. (2024). Molecular Docking and Zone Inhibition Analysis of Fractionated Ethanol Extract of *Zingiber officinale* var. *rubrum* Against *Candida albicans* as Oral Antifungal. *Trends in Sciences*, 21(7). <https://doi.org/10.48048/tis.2024.7787>
- Parfati, nani, & Windono, tri. (2016). *Sirih Merah (Piper crocatum Ruiz & Pav.) Kajian Pustaka Aspek Botani, Kandungan Kimia, dan Aktivitas Farmakologi* (Vol. 1). Faculty of Pharmacy, University of Surabaya.
- Pratiwi, A., Parmadi, A., & Hastuti, S. (2022). The Effect Of Base Formulation On The Physical Test On The Preparation Of Ethanol Cream Extract Of (*Piper crocatum*). *Indonesian Journal on Medical Science*, 9(1), 49–58. <https://doi.org/10.55181/ijms.v9i1.355>
- Prayitno, S. A., Kusnadi, J., & Sofia Murtini, E. (2016). *Antioxidant Activity of Red Betel Leaves Extract (Piper crocatum Ruiz & Pav.) By Difference Concentration of Solvents*.
- Rakhshan, A., Kamel, B. R., Saffaei, A., & Tavakoli-Ardekani, M. (2023). Hepatotoxicity Induced by Azole Antifungal Agents: A Review Study. Em *Iranian Journal of Pharmaceutical Research* (Vol. 22, Número 1). Brieflands. <https://doi.org/10.5812/ijpr-130336>
- Rokhana, & Nadia, R. A. (2024). Uji Aktivitas Senyawa Anti Jamur Ekstrak Daun Sirih Merah (*Piper crocatum*) Terhadap Jamur *Candida albicans* Penyebab

- Penyakit Keputihan. Cendekia Journal of Pharmacy,. <http://cjp.jurnal.stikescendekiautamakudus.ac.id>
- Roy, U. K., Nielsen, B. V., & Milledge, J. J. (2021). Antioxidant Production in Dunaliella. Em *Applied Sciences (Switzerland)* (Vol. 11, Número 9). MDPI AG. <https://doi.org/10.3390/app11093959>
- Royal Botanic Gardens, K. (2025). *Piper crocatum Ruiz & Pav. Plants of the World Online*. <https://powo.science.kew.org/taxon/urn:lsid:ipni.org:names:681064-1>. <https://powo.science.kew.org/taxon/urn:lsid:ipni.org:names:681064-1>
- Saputra, A. (2022). Gambaran Jamur Trichophyton rubrum Penyebab Tinea unguium pada Kuku Kaki Nelayan: Systematic Review. *Politeknik Kesehatan Kemenkes Medan Program Studi D-III Teknologi Laboratorium Medis Karya Tulis Ilmiah (KTI)*.
- Schoch CL, et al. (2020). NCBI Taxonomy: A Comprehensive Update on Curation, Resources and Tools. *Database (Oxford)*, baaa062.
- Silva, T. C., Laura Sene Amâncio Zara, A., Santana Santos, A., Ataídes, F., Aparecida Queiroz Freitas, V., Rodrigues Costa, C., Campos Valadares, M., & do Rosário Rodrigues Silva, M. (2020). *Punicalagin triggers ergosterol biosynthesis disruption and cell cycle arrest in Cryptococcus gattii and Candida albicans Action mechanisms of punicalagin against yeasts*. <https://doi.org/10.1007/s42770-020-00364-4/Published>
- Siswina, T., Rustama, M. M., Sumiarsa, D., & Kurnia, D. (2022). Phytochemical profiling of Piper crocatum and its antifungal activity as Lanosterol 14 alpha demethylase CYP51 inhibitor: a review. Em *F1000Research* (Vol. 11). F1000 Research Ltd. <https://doi.org/10.12688/f1000research.125645.1>
- Souza, F. A., Silva, V. G. da, & Bitencourt, T. B. (2020). Use of McFarland Standards and Spectrophotometry for Yarrowia Lipolytica QU69 cell counting. *International Journal of Environment, Agriculture and Biotechnology*, 5(4), 1089–1091. <https://doi.org/10.22161/ijeab.54.30>
- Suparyati, S., & Apriliani, W. (2022). Identifikasi Jamur Trichophyton Rubrum pada Kuku Kaki Petugas Pengangkut Sampah di Dinas Permukiman dan Lingkungan Hidup. *Jurnal Kebidanan Harapan Ibu Pekalongan*, 9(2). <https://doi.org/10.37402/jurbidhip.vol9.iss2.195>
- Taufiq, & Batubara, D. E. (2020). Profil Dermatofitosis di Rumah Sakit Umum Daerah Deli Serdang Tahun 2015–2017. *Jurnal Ilmiah Maksitek*.
- Triyastuti, M. S., & Djaena, M. (2019). Perbaikan Proses Produksi Antosianin dari Kelopak Bunga Rosella dengan Ekstraksi Berbantuan Ultrasound. *TEKNIK*, 40(2), 115–121. <https://doi.org/10.14710/teknik.v40n2.23258>
- University of Adelaide. (2025). *Trichophyton rubrum – Fungal Descriptions and Antifungal Susceptibility*.
- Utoro, P. A. R., Witoyo, J. E., & Alwi, M. (2022). Tinjauan Literatur Singkat Bioaktivitas Ekstrak Daun Matoa (Pometia pinnata) dari Indonesia dan Aplikasinya pada Produk Pangan. *Journal of Tropical AgriFood*, 4(2), 67. <https://doi.org/10.35941/jtaf.4.2.2022.9293.67-76>
- World Health Organization. (2025, junho 16). *Ringworm (tinea)*.
- Yuliana, L. (2023). Studi Morfologi Genus Piper dan Variasinya. *Biocaster : Jurnal Kajian Biologi*, 3(1), 11–19. <https://doi.org/10.36312/bjkb.v3i1.155>