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DAFTAR PUSTAKA

Adejoye, O.D., Adebayo-Tayo, B.C, Ogunjobi, A.A. and Afolabi, O.O. 2007. Physicochemical Studies on *Schizophyllum commune* (Fries) a Nigerian Edible Fungus. *World Applied Sciences Journal* 2 (1): 73-76

Agus, P. 1994. Taksonomi Tumbuhan. Yogyakarta: Fakultas Biologi Universitas Gadjah Mada

Aime, M.C. 2001. Biosystematic Studies in Crepidotus and the Crepidotaceae (Basidiomycetes, Agaricales). Dissertation.Virginia Polytechnic Institute and State University. Virginia

Alam, N. , Cha, Y.J, Shim, M.J, Lee, T.S and Lee, U.Y. 2010. Cultural condition for mycelial growth and molecular phylogenetic Relationship in Different Wild Strain of *Schizophyllum commune*. *Mycobiology* 38(1) : 17-25

Basso, V., Schiavenina, C., Mendonca, S., Goncalvesde, S., Siqueira, F.,Salvador, M and Camassola, M. 2020. Chemical features and antioxidant profile by *Schizophyllum commune* produced on different agroindustrial wastes and byproducts of biodiesel production. *Food Chemistry*. https://doi.org/10.1016/j.foodchem.2020.127089

Braby, M.F. and Williams M.R. 2016. Biosystematics and conservation biology: critical scientific disciplines forthe management of insect biological diversity. *Austral Entomology* .Australian Entomological Society doi:10.1111/aen.12158(2016)55,–17

Bradford, K. 2008. Comparing the ability of two PCR based techniques, RAPD and ISSR to detect low level of genetic diversity, Chicago Botanic Garden, Glencoe, IL.www.chicagobotanic.org/downloads/conservation/Poster1.pdf

Buzina W., Lang-loidolt, D., Braun, H., Freudenschuss K.. and Stammberger H. 2001. Development of Molecular Methods for Identification of *Schizophyllum commune* from Clinical Samples. *Journal of Clinical Microbiology*. 0095-1137/01/$04.0010 p. 239

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Carreno-Ruiz, S.D., Lazaro, A.A.A, Garcia, S.C, Hernandez, R.G, Chen J, Navarro, G.K.G, Fajardo, L.V.G, Perezi, N.D.C.J, Cruzi, M.T. D.L., Blanco, J.C and Capello R. 2019. New record of *Schizophyllum* (Schizophyllaceae) from Mexico and the confirmation of its edibility in the humid tropics. *Phytotaxa*. https://doi.org/10.11646/phytotaxa.413.2.3

Cheung, N.K.V., Modak, S. and Vickers, A. 2002.Orally administered β-glucans enhance anti-tumor effects of monoclonal antibodies. *Cancer Immunol Immunother* 51, 557–564. https://doi.org/10.1007/s00262-002-0321-3

Chowdhary, A., Randhawa, H.S., Gaur, S.N., Agarwal, K., Kathuria, S., Roy, P, Klaassen C.H and Meis J.F. 2012. *Schizophyllum commune* as an emerging fungal pathogen: a review and report of two cases.*Micoses*. DOI: 10.1111/j.1439-0507.2012.02190.x

Cooke, B. .1961. The genus *Schizophyllum*. *Mycologia* 53 (6): 575–599

Darwis, W., Desnalianif. and Supriati, R. 2011. Inventarisasi Jamur yang Dapat Dikonsumsi dan Beracun yang Terdapat di Hutan dan Sekitar Desa Tanjung Kemuning Kaur Bengkulu. *Konservasi Hayati*, 7(2), 1-8.

Daryono, B.S., Subiastuti, AS, Fatmadanni, A. and Sartika, D. 2019. Phenotypic and genetic stability of new Indonesian melon cultivar (Cucumis melo L. 'Melonia') based on ISSR markers. *BIODIVERSITAS*. DOI:10.13057/biodiv/d200419

Dasanayaka, P.N and Wijeyaratne, S.C. 2017. Cultivation of *Schizophyllum commune* mushroom on different wood substrates. *Journal of Tropical Forestry and Environment* Vol. 07, No. 01 (2017) 65-73

Dawson, S.K., Boddy, L., Halbwachs, H., Bässler, C., Andrew, C., Crowther, T.W., Clausen, J.H., Norden, J.., Ovaskainen, O. and Jönsson M., 2018. Handbook for the measurement of macrofungal functional traits: A start with basidiomycete wood fungi. *Functional ecology*. DOI: 10.1111/1365-2435.13239

Debnath, S., Krishna, A.S and Das, P., 2016, Biological activities of *Schizophyllum commune* Fr. : A wild edible mushroom of Tripura, North East India, *J. Mycopathol*. Res. 54(4) : 469-475, 2017; (ISSN 0971-3719)

UNIVERSITAS GADJAH MADA
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Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Ediriweera, S.S, Wijesundera, R.L.C, Nanayakkara, C.M., Weerasena, O.V.D.S.J .2015. Comparative study of growth and yield of edible mushrooms, *Schizophyllum commune* Fr., *Auricularia polytricha* (Mont.) Sacc. *and Lentinus squarrosulus* Mont. on lignocellulosic substrates. *Mycosphere* 6(6), 760–765, doi 10.5943/mycosphere/6/6/10

Fajarningsih, N.D. 2016. Internal Transcribed Spacer (ITS) as DNA Barcoding to Identify Fungal Species: a Review DOI: https://doi.org/10.15578/*squalen*.v11i2.213

Fatchiyah, E.L. Arumingtyas, S. Widyarti, dan S. Rahayu. 2011. Biologi Molekular. Prinsip Dasar Analisis. Jakarta:Erlangga

Guo, L.D., 2010. Molecular diversity and identification of endophytic fungi. In: Gherbawy and Voigt, eds. Molecular Identification of Fungi. New York: Springer, pp. 277-296.

Ilyas, M, Fathoni, A, Praptiwi, Wulansari, D., Megalestin, M.R and Agusta, A. 2021. Isolasi dan identifikasi fungi endofit pada tumbuhan obat asal kuta mandalika dan pulau lombok NTB, *Prosiding Semnas UIN Gunung Jati*, Bandung

James, T. Y., Moncalvo, J.M., Vilgalys, S.L.R. 2001. Polymorphism at the ribosomal DNA spacers and its relation to breeding structure of the widespread mushroom *Schizophyllum commune*

Jeong E. W.,Hee J.S.,Chul S.L., Geun M. S., Pal S. S. and Wook D. R., 2012, Molecular Identification of *Schizophyllum commune* as a Cause of Allergic Fungal Sinusitis, *Ann Lab Med* 32:375-379 http://dx.doi.org/10.3343/alm.2012.32.5.375

Jonathan S.G and Adeoyo O.R.. 2011.Collection, morphological characterization and nutrient profile of some wild mushrooms from Akoko, Ondo state, Nigeria, *Natural Product An Indian Journal*

Henderson, 2006. Traditional morphometrics in plant systematics and its role in palm systematics. Botanical Journal of Linnean society. Volume 151 issue 1. https://doi.org/10.1111/j.1095-8339.2006.00526.x

Khan SM, Nawaz A, Malik W, Javed N, Yasmin T, Mehboob ur Rehman, Qayyum A, Iqbal Q, Ahmad T, Khan AA. (2011). Morphological and molecular characterization of Oyster mushroom (Pleurotus spp.). African Journal of Biotechnology, 10(14), 2638-2643. doi:10.5897/AJB10.499

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Kimura Y., Tojima, H., Fukase S. and Takeda K., 2009, Clinical Evaluation of Sizofilan as Assistant Immunotherapy in Treatment of Head and Neck Cancer, https://doi.org/10.3109/00016489409128330

Kues U., Lange K and Lakkireddy K.. 2021. Fruiting body development of *Schizophyllum commune* on twigs and branches, Georg-August-University of Göttingen, Büsgen-Institute, Büsgenweg 2, D-37077 Göttingen, Germany

Kusrinah & Kasiamdari R. 2015. Morphological characteristic and Kindship relationship of Mushroom *Schizophyllum commune* Fr.. J. Nat. Scien. & Math. Res. Vol. 1 No.2 (2015) 65-71, 65

Linder, D.H. 1933. The genus *Schizophyllum*. I. Species of the Western Hemisphere. American Journal of Botany 20: 552–568

Lopandic, K., Molnar, O. and Prillinger H, 2005. Application of ITS sequence analysis, RAPD and AFLP fingerprinting in characterising the yeast genus Fellomy

Malubag, A. G., Parayao, A. M. and Waing, K. G. D.2021, Identification of endophytic fungi associated in Banana *(Musa paradisiaca* L.) and evaluation of its enzymatic abilities, *International Journal of Agricultural Technology* Vol. 17(3):941-958

Mantovania, S., Bellini M.F., Jose, P.F., .Angelia , R. J.,Oliveira, A. F, and Silva L.R. 2008. β-Glucans in promoting health: Prevention against mutation and cancer https://doi.org/10.1016/j.mrrev.2007.07.002

Montolalu, G., Sumilat, D.A, Rumampuk, N.D.C, Rumengan,I.F.M, Lintang, R.A.J., and Kreckchoff, R.F. 2021. Isolasi jamur simbion Ascidia *Schizophyllum commune* yang memiliki aktivitas antibakteri, *Jurnal Pesisir dan laut Tropis*, UNSRAT, Manado.

Ndong, H.E., degreef J. and Kesel A.D. 2011. Champignons comestibles des forêts denses d'Afrique centrale Taxonomie et identification. *Book.* https://www.researchgate.net/publication/278406162.

Nion, Y., A., Djaya, A., A., Kadie, E., M., Lune, Sumarlan, and Wijaya, C., H. 2012. Siklus Hidup Jamur Konsumsi Lokal Kulat Kritip (*Schizophyllum commune*) pada Daerah Bergambut dan Daerah Bertanah Mineral serta Potensi Nutrisinya. Jurnal Biologi Indonesia, 8(2), 399-406.

UNIVERSITAS GADJAH MADA
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Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Noverita, Ilmi F., 2020. Inventarisasi dan Potensi Jamur Makro di Kawasan Taman Nasional Ujung Kulon Banten. Al-Kauniyah: Jurnal Biologi 13(1), 63-75

Nurlita, A, Putra I. P. and Ikhsan M. 2021. Catatan Pemanfaatan *Schizophyllum commune* di Kampung Udapi Hilir, Papua Barat, Integrated Lab Journal Vol. 09.

Paul, B., 2001. ITS region of the rDNA of Pythium longandrum, a new species: its taxonomy and its comparison with related species. FEMS Microbiol Lett

Piepenbring, M. 2015. Introducción a la Micología en los Trópicos. The American Phytopathological Society, Estados Unidos de América, 325 pp. https://doi.org/10.1094/9780890546147

Prasetyaningtyas, A., H.O. Fahmad dan Sucipto. 2003. Potensi Jamur gigit sebagai bahan makanan. http://www.republika.co.id

Putra, I.P. 2021. Panduan Karakterisasi Jamur makroskopis di Indonesia : Bagian 1-deskripsi ciri makroskopis, Jurnal Penelitian Kehutanan Wallacea (2021) 10(1), 25-37

Radford, A.E. 1986. Fundamentals of Plant Systematics. Harper & Row Publisher. New York.

Raper. 1988. *Schizophyllum commune*, a model for genetic studies of the Basidiomycotina In: Sidhu GS,editot. Genetics of plat pathology

Reddy, M.P., Sarla, N. and Siddiq, E.A. 2002. Inter simple sequence repeat (ISSR) polymorphism and its application in plant breeding. Euphytica. 128:9–17. DOI: https:// doi.org/10.1023/A:1020691618797.

Romadhonsyah, F.. Astuti, P., Wahyuono,S. 2021 Karakerisasi dan Uji Bioaktivitas Metabolit Sekunder Fungi Endofit *Schizophyllum commune* dari Daun Jinten (*Coleus amboinicus*), Tesis, UGM Yogyakarta

Robledo, G.L., Popoff, O.F., Amarilla, L.D., Moncalvo, J.M. and Urcelay, C. 2014. *Schizophyllum leprieurii* and the *Schizophyllum umbrinum* lineage (Agaricales, Basidiomycota) in Argentina. Lilloa 51 (1): 87–96.

Sakagami,Y.Mizoguchi, T.,Shin,S., Seki, K., Kobayashi, S., Morisawa and Yamamoto S. 1988. Effects of an anti-tumor polysaccharide, schizophyllan,

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on interferon-γ and interleukin 2 production by peripheral blood mononuclear cells. Elsevier

Salimath, S., Oliveira A.C.D., Godwin I.D. and Bennetzen J.L. 1995. Assessment of genomic origins and genetic diversity in the genus Eleusine with DNA markers. Genome, 38: 757-763.

Sammut, C., Alvarado, P. and Saar, I. 2019 *Schizophyllum amplum* (Agaricales, Schizophyllaceae): a rare Basidiomycete from Malta and Estonia, Italian Journal of Mycology 48: 50-56 DOI: https://doi.org/10.6092/issn.2531-7342/9426

Sanga Lallawm , Passari AK, Mishra VK, Leo VV, Singh BP and Meyyappan V.G. 2016. Antimicrobial Potential, Identification and Phylogenetic Affiliation of Wild Mushrooms from Two Sub-Tropical Semi-Evergreen Indian Forest Ecosystems PLoS ONE 11(11): e0166368. doi:10.1371/journal.pone.0166368

Shin, C., K., Yee, C., F., Shya, L., J.,and Atong, M. 2007. Nutritional Properties of Some Edible Wild Mushrooms in Sabah. Journal of Applied Science

Sim, C.Y.Y., 2014. Molecular Identification Of *Schizophyllum commune* And its Production of Schizophyllan. Universiti Tunku Abdul Rahman

Siqueira, D. Sutton, J., Gene, D. ,Garcia, M., Guevara-Suarez,C., Decock, N. And Wiederhold, J. G. . 2016. *Schizophyllum radiatum*, an Emerging Fungus from Human Respiratory Tract, Jounal of Clinical Myaicrobiology, jcm.asm.org

Takemoto S, Nakamura H, Erwin I, Imamura Y, Shimane T. (2010). Schizophyllum commune as a ubiquitous plant parasite. Japan Agricultural Research Quarterly, 44(4), 357-364. doi:10.6090/jarq.44.357

Tian, L., Mu, Y. and Zhang, H. 2018. First report on cutaneous infectious granuloma caused by *Schizophyllum commune*. BMC Infect Dis 18, 286 (2018). https://doi.org/10.1186/s12879-018-3187-5

Ulrich, R.C, Specht, C.A, Stankis, M.M, Yang, H, Giasson, L. and Novotny, C.P. 1991. Molecular biology of mating-type determination in *Schizophyllum commune*. In: Genetic engineering : Principles and methods, JK Setlow, ed, NY: Plenum Press, New York pp 279-306

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Vellinga, E .2013. Split Gill – *Schizophyllum commune*. Mycena News 64 (9): 1–6.

Wahyuni, S., Xu, D.H., Bermawie, N., Tsunematsu, H. and Ban, T. 2004. Skrining ISSR primer studi pendahuluan Kekerabatan antar jahe merah, jahe emprit dan jahe besar. Buletin TRO, 15: 33-40.

Wessels. 1994. Development of fruit bodies in homobasidiomycetes. The Mycota: growth, differentiation and sexuality I. Springer.verlag. Berlin. Heidelberg.

White TJ, Bruns T, Lee S, Taylor JW. (1990). Amplification and direct sequencing of fungal ribosomal RNA genes for phylogenetics. In PMM. (Ed.), PCR Protocols: A Guide to Methods and Applications. Academic Press. pp. 315-322

Yusran Y, Erniwati E, Khumaidi A, Pitopang R, Praptono Jati IRA. (2023). Diversity of substrate type, ethnomycology, mineral composition, proximate, and phytochemical compounds of the Schizophyllum commune Fr. in the area along Palu Koro Fault, Central Sulawesi, Indonesia. Saudi Journal of Biological Sciences, 30(4), 103593. doi:10.1016/j.sjbs.2023.103593