

DAFTAR PUSTAKA

- Achmad, Herliyana, E. N., Siregar, I. Z., dan Permana, O. 2011. Karakter morfologis dan genetik jamur tiram (*Pleurotus spp.*). *Jurnal Hortikultura*, 21(3): 225-231.
- Afiah dan Rahayuningsih, H. M. 2014. Pengaruh pemberian sup jamur tiram putih (*Pleurotus ostreatus*) terhadap kadar kolesterol total subjek obesitas. *Journal of Nutrition College*, 3(4): 465-472.
- Alexopoulos, C. J., Mims, C. W., and Blackwell, M. 1996. *Introductory Mycology*. 4th ed. Manhattan: John Wiley and Sons Inc.
- Amalia, L. dan Hiola, F. 2020. Analisis gejala klinis dan peningkatan kekebalan tubuh untuk mencegah penyakit COVID-19. *Jambura Journal of Health Sciences and Research*, 2(2): 71-76.
- Arif, E. A., Isnawati, dan Winarsih. 2014. Pertumbuhan dan produktivitas jamur tiram putih (*Pleurotus ostreatus*) pada media campuran serbuk tongkol jagung dan ampas tebu. *LenteraBio: Berkala Ilmiah Biologi*, (3)3: 255-260.
- Arinda, I. D. dan Yunianta, Y. 2014. Pengaruh daya dan lama penyinaran sinar ultraviolet-c terhadap total mikroba sari buah salak pondoh. *Jurnal Pangan dan Agroindustri*, 3(4): 1337-1344.
- Asruddin, Syariah, M., dan Domili, R. S. 2020. Pemanfaatan sinar ultra violet dalam menjaga kualitas ikan sagela asap. *Jurnal Ilmu Kelautan Kepulauan*, 3(1): 12-22.
- Astuti, S., Suharyono, A.S. dan Fitra, N. 2016. Pengaruh formulasi jamur tiram putih (*Pleurotus ostreatus*) dan tapioka terhadap sifat fisik, organoleptik, dan kimia kerupuk. *Jurnal Penelitian Pertanian Terapan*, 16(3): 163-173.
- Banlangsawan, N., and Sanoamuang, N. 2016. Effect of UV-B irradiation on contents of ergosterol, vitamin D-2, vitamin B-1 and vitamin B-2 in Thai edible mushrooms. *Chiang Mai Journal of Science*, 43(1): 1099-1107.
- Barnkob, L. L., Argyraki, A., Petersen, P. M., and Jakobsen, J. 2016. Investigation of the effect of UV-LED exposure conditions on the production of vitamin D in pig skin. *Food Chemistry*, 212: 386-391.
- Bikle, D. D. 2014. Vitamin D metabolism, mechanism of action, and clinical applications. *Chemistry & Biology*, 21(3): 319–329.
- Bintsis, T., Litopoulou-Tzanetaki, E., and Robinson, R. K. 2000. Existing and potential applications of ultraviolet light in the food industry. *Journal of the Science of Food and Agriculture*, 80(6): 637-645.

- Balai Pengkajian Teknologi Pertanian Balitbangtan Jambi. 2015. Teknologi budidaya jamur tiram putih (*Pleurotus ostreatus*). Diakses dari: <http://jambi.litbang.pertanian.go.id/ind/index.php/inovasi-teknologi/581-teknologi-budidaya-jamur-tiram-putih-pleurotus-ostreatus>
- Calvo, M.S. and Whiting, S. J. 2013. Survey of current vitamin D food fortification practices in the United States and Canada. *Journal of Steroid Biochemistry and Molecular Biology*, 136: 211–213.
- Chen, S. Y., Yu, H. T., Kao, J. P., Yang, C. C., Chiang, S. S., Mishchuk, D. O., Mau, J.L., and Slupsky, C. M. 2015. Consumption of vitamin D₂ enhanced mushrooms is associated with improved bone health. *Journal of Nutritional Biochemistry*, 26(7): 696-703.
- Chintya, R. D. Dan Nisa, F. C. 2015. Pengaruh daya lampu dan lama iradiasi ultraviolet terhadap karakteristik sari buah murbei (*Morus alba L.*). *Jurnal Pangan dan Agroindustri*, 3(2): 610-619.
- Direktorat Jenderal Bina Produksi Hortikultura. 2007. *Produksi Beberapa Tanaman Sayuran di Indonesia*. Jakarta: Departemen Pertanian.
- Doble, M. and Kumar, A. 2005. Chlorinated Hydrocarbons and Aromatics, and Dioxins. In *Biotreatment of Industrial Effluents*. Amsterdam: Elsevier Inc.
- Ernawati, F. Dan Budiman, B. 2015. Status vitamin D terkini anak Indonesia usia 2, 0-12, 9 tahun. *Gizi Indonesia*, 38(1): 73-80.
- Fitriawan, H., Purwiyanti, S., dan Alam, S. 2020. Pengendalian suhu dan kelembapan pada budidaya jamur tiram berbasis IoT. *Jurnal Teknik Pertanian Lampung*, 9(1): 28-37.
- Grant, W. B., Lahore, H., McDonnell, S. L., Baggerly, C. A., French, C. B., Aliano, J. L., and Bhattoa, H. P. 2020. Evidence that vitamin D supplementation could reduce risk of influenza and COVID-19 infections and deaths. *Nutrients*, 12(4): 988.
- Holick, M. F., and Chen, T. C. 2008. Vitamin D deficiency: A worldwide problem with health consequences. *American Journal of Clinical Nutrition*, 87: 1080–1086.
- Hu, D., Chen, W., Li, X., Yue, T., Zhang, Z., Feng, Z., Li, C., Bu, X., Li, Q. X., Hu, C. Y., and Li, L. 2020. Ultraviolet irradiation increased the concentration of vitamin D₂ and decreased the concentration of ergosterol in shiitake mushroom (*Lentinus edodes*) and oyster mushroom (*Pleurotus ostreatus*) powder in ethanol suspension. *ACS Omega*, 5(13): 7361-7368.
- Huang, S.J., Lin, C.P. and Tsai, S.Y. 2015. Vitamin D₂ content and antioxidant properties of fruit body and mycelia of edible mushrooms by UV-B irradiation. *Journal of Food Composition and Analysis*, 42: 38–45.

- Institute of Medicine. 2010. *Dietary Reference Intakes for Calcium and Vitamin D*. Washington DC: National Academy Press.
- Jakiyah, E., Hasanah, H. U., dan Sari, D. N. R. 2017. Persilangan jamur tiram cokelat (*Pleurotus cystidiosus*) dengan jamur tiram putih (*Pleurotus ostreatus*) varietas Grey oyster menggunakan metode fusi miselium monokarion. *Bioma: Jurnal Ilmiah Biologi*, 6(2): 11-20.
- Jasinghe, V. J. And Perera, C. O. 2005. Distribution of ergosterol in different tissues of mushrooms and its effect on the conversion of ergosterol to vitamin D₂ by UV irradiation. *Food Chemistry*, 92(3): 541-546.
- Jasinghe, V. J., and Perera, C. O. 2006. Ultraviolet irradiation: the generator of vitamin D₂ in edible mushrooms. *Food Chemistry*, 95(4): 638-643.
- Kalac, P. 2013. Chemical composition and nutritional value of wildgrowing and cultivated mushrooms. *Journal of the Science of Food and Agriculture*, 93(2): 209–218.
- Keflie, T. S., Nölle, N., Lambert, C., Nohr, D., and Biesalski, H. K. 2018. Impact of the natural resource of UVB on the content of vitamin D₂ in oyster mushroom (*Pleurotus ostreatus*) under subtropical settings. *Saudi Journal of Biological Sciences*, 26(7): 1724-1730.
- Kenanga, P., Pambudi, A., dan Puspitasari, R. L. 2014. Perbandingan pertumbuhan jamur tiram putih di kumbung Ciseeng dan Universitas Al-Azhar Indonesia. *Al-Kauniyah: Jurnal Biologi*, 7(2): 94-98.
- Ko, J. A., Lee, B. H., Lee, J. S., and Park, H. J. 2008. Effect of UV-B exposure on the concentration of vitamin D₂ in sliced shiitake mushroom (*Lentinus edodes*) and white button mushroom (*Agaricus bisporus*). *Journal of Agricultural and Food Chemistry*, 56(10): 3671-3674.
- Kotake-Nara, E., Komba, S., and Hase, M. 2021. Uptake of vitamins D₂, D₃, D₄, D₅, D₆, and D₇ solubilized in mixed micelles by human intestinal cells, CaCO₂, an enhancing effect of lysophosphatidylcholine on the cellular uptake and estimation of vitamins d' biological activities. *Nutrients*, 13(4): 1126.
- Kurniati, F., Sunarya, Y., dan Nurajijah, R. 2019. Pertumbuhan dan hasil jamur tiram putih (*Pleurotus ostreatus* (Jacq) P. Kumm) pada berbagai komposisi media tanam. *Jurnal Media Pertanian*, 4(2): 59-68.
- Lešková, E., Kubíková, J., Kováčiková, E., Košická, M., Porubská, J., and Holciková, K. 2006. Vitamin losses: Retention during heat treatment and continual changes expressed by mathematical models. *Journal of Food Composition and Analysis*, 19(4): 252–276.
- Ložnjak, P. And Jakobsen, J. 2018. Stability of vitamin D₃ and vitamin D₂ in oil, fish and mushrooms after household cooking. *Food Chemistry*, 254: 144-149.

- Maharani, M. M. Dan Pranowo, D. 2017. The improvement of proction efficiency for crispy snack with spinner inverter and double cone. *Journal of Innovation and Applied Technology*, 3(2): 470-475.
- Mattila, P., Ronkainen, R., Lehikoinen, K., and Piironen, V. 1999. Effect of household cooking on the vitamin D content in fish, eggs, and wild mushrooms. *Journal of Food Composition and Analysis*, 12(3): 153-160.
- Nasution, J. 2016. Kandungan karbohidrat dan protein jamur tiram putih (*Pleurotus ostreatus*) pada media tanam serbuk kayu kemiri (*Aleurites moluccana*) dan serbuk kayu campuran. *EKSAKTA: Jurnal Penelitian dan Pembelajaran MIPA*, 1(1): 38-41.
- Oktaria, V., Graham, S. M., Triasih, R., Soenarto, Y., Bines, J.E., Ponsonby, A. L., Clarke, M. W., Dinari, R., Nirwati, H., and Danchin, M. 2020. The prevalence and determinants of vitamin D deficiency in Indonesian infants at birth and six months of age. *PloS ONE* 15(10): e0239603.
- Pedrali, D., Gallotti, F., Proserpio, C., Pagliarini, E., and Lavelli, V. 2020. Kinetic study of vitamin D₂ degradation in mushroom powder to improve its applications in fortified foods. *LWT-Food Science and Technology*, 125: 1-7.
- Peraturan Menteri Kesehatan Republik Indonesia Nomor 28 Tahun 2019. Angka Kecukupan Gizi yang Dianjurkan untuk Masyarakat Indonesia. 20 Agustus 2019. Berita Negara Republik Indonesia No 956 Tahun 2019. Jakarta.
- Perera, C.O., Jasinghe, V.J., Ng, F.L., and Mujumdar, A.S. 2003. The effect of moisture content on the conversion of ergosterol to vitamin D in shiitake mushrooms. *Drying Technology*. 21(6): 1093–1101.
- Phillips, K. M. And Rasor, A. S. 2013. A nutritionally meaningful increase in vitamin D in retail mushrooms is attainable by exposure to sunlight prior to consumption. *Journal of Nutrition & Food Sciences*, 3(6): 1-8.
- Phillips, K. M., Ruggio, D. M., Horst, R. L., Minor, B., Simon, R. R., Feeney, M. J., Byrdwell, W. C., and Haytowitz, D. B. 2011. Vitamin D and sterol composition of 10 types of mushrooms from retail suppliers in the United States. *Journal of Agricultural and Food Chemistry*, 59(14): 7841-7853.
- Prayogo, T. S., Razak, A. R., dan Sikanna, R. 2018. Pengaruh lama pengomposan terhadap tubuh buah dan kandungan gizi pada jamur tiram putih (*Pleurotus ostreatus*). *KOVALEN: Jurnal Riset Kimia*, 4(2): 131-144.
- Purhadi., Lufianti, A., dan Susanti, M. M. 2017. Perbedaan antara air minum yang dimasak dengan air minum UV terhadap bakteri *Escherichia coli* di Kecamatan Karangrayung Kabupaten Grobogan. *The Shine Cahaya Dunia Ners*, 2(2): 1-7
- Rimahardika, R., Subagio, H. W., dan Wijayanti, H. S. 2017. Asupan vitamin D dan paparan sinar matahari pada orang yang bekerja di dalam ruangan dan di luar ruangan. *Journal of Nutrition College*, 6(4): 333-342.

- Rinaldi, R. S. dan Anggraini, I. N. 2021. Perancangan sistem disinfektan UV-C sterilisasi paket sebagai pencegahan penyebaran COVID-19. *Jurnal Nasional Teknik Elektro dan Teknologi Informasi*, 10(1): 57-62.
- Rizal, R. 2018. Mitos dan eksplanasi ilmiah lembayung senja. *Jurnal Filsafat Indonesia*, 1(1): 16-22.
- Salemi, S., Saedisomeolia, A., Azimi, F., Zolfigol, S., Mohajerani, E., Mohammadi, M. Yaseri, M. 2020. Optimizing the production of vitamin D in white button mushrooms (*Agaricus bisporus*) using ultraviolet radiation and measurement of its stability. *LWT Food Science and Technology*, 125.
- Sapozhnikova, Y., Byrdwell, W. C., Lobato, A., and Romig, B. 2014. Effects of UV-B radiation levels on concentrations of phytosterols, ergothioneine, and polyphenolic compounds in mushroom powders used as dietary supplements. *Journal of Agricultural and Food Chemistry* 62(14): 3034–3042.
- Sekretariat Jenderal-Kementerian Pertanian. 2017. Statistik Konsumsi Pangan Tahun 2017. Pusat Data dan Sistem Informasi Pertanian. Jakarta.
- Setiati, S. 2008. Pengaruh pajanan sinar ultraviolet B bersumber dari sinar matahari terhadap konsentrasi vitamin D (25(OH)D) dan hormon paratiroid pada perempuan usia lanjut Indonesia. *Kesmas: National Public Health Journal*, 2(4): 147-153.
- Simon, R. R., Phillips, K. M., Horst, R. L., and Munro, I. C. 2011. Vitamin D mushrooms: Comparison of the composition of button mushrooms (*Agaricus bisporus*) treated postharvest with UVB light or sunlight. *Journal of Agricultural and Food Chemistry*, 59(16): 8724-8732.
- Sławinska, A., Fornal, E., Radzki, W., Skrzypczak, K., Zalewska-Korona, M., Michałak-Majewska, M., Parfieniuk, E., and Stachniuk, A. 2016. Study on vitamin D₂ stability in dried mushrooms during drying and storage. *Food Chemistry*, 199: 203–209.
- Sławinska, A., Fornal, E., Radzki, W., Jabłomska-Rys, E., and Parfieniuk, E. 2017. Vitamin D₂ stability during the refrigerated storage of ultraviolet B – treated cultivated culinary-medicinal mushrooms. *International Journal of Medicinal Mushrooms*, 19(3): 249-255.
- Sumarmi. 2006. Botani dan tinjauan gizi jamur tiram putih. *Jurnal Inovasi Pertanian*, 4: 124-130.
- Sumiati, E., Fathullah, D., dan Sutarya, R. 2014. Respons enam varietas jamur tiram putih terhadap pertumbuhan, hasil, dan kualitas dibudidayakan musim kemarau dan hujan. *Buana Sains*, 14(2): 91-103.
- Suryani, T., dan Carolina, H. 2017. Pertumbuhan dan hasil jamur tiram putih pada beberapa bahan media pembibitan. *Bioeksperimen: Jurnal Penelitian Biologi*, 3(1): 73-86.

- Susilo, A., Rumende, C. M., Pitoyo, C. W., Santoso, W. D., Yulianti, M., Herikurniawan, H., Sinto, R., Singh, G., Nainggolan, L., Nelwa, E. J., Chen, L. K., Widhani, A., Wijaya, E., Wicaksana, B., Maksum, M., Annisa, F., Jasirwan, C. O., dan Yunihastuti, E. 2020. Coronavirus disease 2019. *Jurnal Penyakit Dalam Indonesia*, 7(1): 45-67.
- Syarifudin, A., As, Z. A., dan Setiadi, G. 2014. Efektivitas “Portable UV Disinfection” dalam menurunkan angka bakteri (*Escherichia Coli Spp*) pada air minum. *Jurnal Kesehatan Lingkungan: Jurnal dan Aplikasi Teknik Kesehatan Lingkungan*, 11(2): 223-230.
- Urbain, P., and Jakobsen, J. 2015. Dose-response effect of sunlight on vitamin D₂ production in *Agaricus bisporus* mushrooms. *Journal of Agricultural and Food Chemistry*, 63(37): 8156-8161.
- Vayalil, P. K., Elmets, C. A., and Katiyar, S. K. 2003. Treatment of green tea polyphenols in hydrophilic cream prevents UVB-induced oxidation of lipids and proteins, depletion of antioxidant enzymes and phosphorylation of MAPK proteins in SKH-1 hairless mouse skin. *Carcinogenesis*, 24: 927-936.
- Vera, V., Setiati, S., dan Rooshero, A. G. 2015. Determinan diagnostik klinis defisiensi vitamin D pada wanita berusia lebih dari 50 tahun. *Jurnal Penyakit Dalam Indonesia*, 2(1), 38-48.
- Waluyo, S., Wahyono, R.E., Lanya, B., dan Telaumbanua, M. 2018. Pengendalian temperatur dan kelembapan dalam kumbung jamur tiram (*Pleurotus sp*) secara otomatis berbasis mikrokontroler. *Agritech*, 38(3): 282- 288.
- Wittig, M., Krings, U., and Berger, R. G. 2013. Single-run analysis of vitamin D photoproducts in oyster mushroom (*Pleurotus ostreatus*) after UV-B treatment. *Journal of Food Composition and Analysis*, 31(2): 266–274.
- Wu, W. J., and Ahn, B. Y. 2014. Statistical optimization of ultraviolet irradiate conditions for vitamin D₂ synthesis in oyster mushrooms (*Pleurotus ostreatus*) using response surface methodology. *PLoS One*, 9(4): 1-7.
- Yosephin, B., Khomsan, A., Briawan, D., dan Rimbawan. 2014. Peranan ultraviolet B sinar matahari terhadap status vitamin d dan tekanan darah pada wanita usia subur. *Kesmas: National Public Health Journal*, 8(6): 256-260.
- Yuliani, Y., Maryanto, M., dan Nurhayati, N. 2018. Karakteristik fisik dan kimia tepung jamur merang (*Volvariella volvacea*) dan tepung jamur tiram (*Pleurotus ostreatus*) tervariasi perlakuan blansing. *Jurnal Agroteknologi*, 12(2): 176-183.
- Zuniar, R. Dan Purnomo, A. S. 2016. Pengaruh campuran ampas tebu dan tongkol jagung sebagai media pertumbuhan terhadap kandungan nutrisi jamur tiram putih (*Pleurotus ostreatus*). *Jurnal Sains dan Seni ITS*, 5(2): 93-96.