

DAFTAR PUSTAKA

- Alqaisi, O., Ndambi, O.A., & Williams, R.B. 2017. Time series livestock diet optimization: cost-effective broiler feed substitution using the commodity price spread approach. *Agricultural and Food Economics*, 5(1): 1–19.
- Amalia, I., Maria, S., Herlina, H., Zaenudin, & Redjeki, F. 2023. Pengaruh Gaya Kepemimpinan Dan Disiplin Kerja Terhadap Kinerja Karyawan Di Faperta IPB. *Jurnal Ekonomi Manajemen Dan Bisnis (JEMB)*, 2(2): 355–359.
- Ariyanti, M., Suherman, C., Maxiselly, Y., & Rosniawaty, S. 2018. Pertumbuhan Tanaman Kelapa (*Cocos nucifera* L.) dengan Pemberian Air Kelapa. *Jurnal Hutan Pulau-Pulau Kecil*, 2(2): 201–212.
- Athreya, S., & Venkatesh, Y. D. 2012. Application Of Taguchi Method For Optimization Of Process Parameters In Improving The Surface Roughness Of Lathe Facing Operation. *International Refereed Journal of Engineering and Science*, 1(3): 13–19.
- Ayuti, S.R., Purnama, H.R., Azhari, Isa, M., Helmi, T.Z., Novita, A., Herrialfian, Darniati, & Makmur, A. 2022. Effect of Addition Coconut Pulp (*Cocos nucifera* L.) Fermentation in Feed on Carcass Percentage and Fat Content of Broiler Chickens. *Jurnal Peternakan Indonesia*, 24(3): 288–297.
- Bankole, P.O., Semple, K.T., Jeon, B.H., & Govindwar, S.P. 2021. Biodegradation of fluorene by the newly isolated marine-derived fungus, *Mucor irregularis* strain bpo1 using response surface methodology. *Ecotoxicology and Environmental Safety*, 208: 111619.
- Barnharst, T., Sun, X., Rajendran, A., Urriola, P., Shurson, G., & Hu, B. 2021. Enhanced protein and amino acids of corn – ethanol co - product by *Mucor indicus* and *Rhizopus oryzae*. *Bioprocess and Biosystems Engineering*, 44: 1989–2000.
- Beale, D.J., & Kouremenos, K.A. 2016. *Microbial Metabolomics: Applications in Clinical, Environmental, and Industrial Microbiology* (E. A. Palombo (ed.)). Springer International Publishing Switzerland.
- Deng, F., & Aita, G. M. 2018. Fumaric Acid Production by *Rhizopus oryzae* ATCC ® 20344TM from Lignocellulosic Syrup. *BioEnergy Research*. 1-11.
- Ditjen PKH. 2017. Kumpulan SNI pakan ternak. Jakarta (Indonesia): Direktorat Pakan Ternak, Direktorat Jenderal Peternakan dan Kesehatan Hewan, Kementerian Pertanian.
- Eckert, C.A., & Trinh, C.T. 2016. *Biotechnology for Biofuel Production and Optimization*. Elsevier. Amsterdam.
- El-gendi, H., Saleh, A.K., Badierah, R., Redwan, E.M., El-maradny, Y.A., & El-fakharany, E.M. 2022. A Comprehensive Insight into Fungal Enzymes: Structure, Classification, and Their Role in Mankind's Challenges. *Journal of Fungi*, 8(23): 1–26.
- Elyana, P., Pangastuti, A., & Nugraheni, E.R. 2018. The effect of adding coconut pulp resulting from *Aspergillus oryzae* fermentation in commercial feed on the growth of Nile tilapia (*Oreochromis niloticus*). *Cell Biology and Development*, 2(1): 33–42.
- Esmaeili, H., & Keikhosro, K. 2018. Optimization of fermentation conditions for efficient ethanol production by *Mucor hiemalis*. *Turkish J Biochem*, 1–8.
- Fernández-Lahore, H.M., Fraile, E.R., & Cascone, O. 1998. Acid protease recovery from a solid-state fermentation system. *Journal of Biotechnology*, 62(2): 83-

93.

- Ferreira, S.L.C., Bruns, R.E., Ferreira, H.S., Matos, G.D., David, J.M., Brandão, G.C., da Silva, E.G.P., Portugal, L.A., dos Reis, P.S., Souza, A.S., & dos Santos, W.N.L. 2007. Box-Behnken design: An alternative for the optimization of analytical methods. *Analytica Chimica Acta*, 597(2): 179–186.
- Fischer, J., Schroeckh, V., & Brakhage, A.A. 2016. *Awakening of Fungal Secondary Metabolite Gene Clusters*. In: Schmoll, M., Dattenböck, C. (eds) *Gene Expression Systems in Fungi: Advancements and Applications*. Fungal Biology. Springer, Cham.
- Gao, S.S., Li, X.M., Williams, K., Proksch, P., Ji, N.Y., & Wang, B.G. 2016. Rhizovarin A-F, Indole-Diterpenes from the Mangrove-Derived Endophytic Fungus *Mucor irregularis* QEN-189. *Journal of Natural Products*, 79(8): 2066–2074.
- Hadiyat, M.A. 2012. Response-surface dan Taguchi: Sebuah alternatif atau kompetisi dalam optimasi secara praktis. *Jurnal Teknik Industri*, 134–139.
- Hafiza, S., Anas, N.G. A., & Hidayah, B.N. 2011. Screening of Potential Strain for Bioprotein Production from Coconut Dregs. *International Conference on Food Engineering and Biotechnology*, 9: 296–299.
- Haura, A., & Ilmi, M. 2024. The Potential of *Mucor irregularis* Isolated From Fruits in Producing Microbial Lipid. *Malaysian Applied Biology*, 53(1): 19–26.
- Hayer, K., Stratford, M., & Archer, D.B. 2013. Structural features of sugars that trigger or support conidial germination in the filamentous fungus *Aspergillus niger*. *Applied and Environmental Microbiology*, 79(22): 6924–6931. <https://doi.org/10.1128/AEM.02061-13>
- Hidayati, S.G. 2011. Pengolahan Ampas Kelapa Dengan Mikroba Lokal Sebagai Bahan Pakan Ternak Unggas Alternatif di Sumatera Barat. *Jurnal Embrio*, 4(1): 26–36.
- Higea, J.F., Rosaini, H., Rasyid, R., & Hagramida, V. (2015). Penetapan Kadar Protein secara Kjeldahl Beberapa Makanan Olahan Kerang Remis (*Corbicula moltkiana* Prime.) dari Danau Singkarak. *Jurnal Farmasi Higea*, 7(2): 120–127.
- Karimi, K., & Zamani, A. 2013. *Mucor indicus* : Biology and industrial application perspectives : A review. *Biotechnology Advances*, 31(4): 466–481.
- Kurniawan, H., Utomo, R., & Yusiati, L.M. 2016. Kualitas nutrisi ampas kelapa (*Cocos nucifera* L.) fermentasi menggunakan *Aspergillus niger*. *Buletin Peternakan*, 40(1): 26–33.
- Lareo, C., Sposito, A.F., Bossio, A.L., & Volpe, D.C. 2006. Characterization of growth and sporulation of *Mucor bacilliformis* in solid state fermentation on an inert support. *Enzyme and Microbial Technology*, 38(3–4): 391–399.
- Lima, D.X., De Souza, C.A.F., De Oliveira, R.J.V., Bezerra, J.L., De Azevedo Santiago, A.L.C.M., & De Souza-Motta, C.M. 2018. *Mucor irregularis*, a first record for South America. *Mycotaxon*, 133(3), 429–438.
- Lu, X.L., Najafzadeh, M.J., Dolatabadi, S., Ran, Y.P., Gerrits van den Ende, A.H.G., Shen, Y.N., Li, C.Y., Xi, L.Y., Hao, F., Zhang, Q.Q., Li, R.Y., Hu, Z.M., Lu, G.X., Wang, J.J., Drogari-Apiranthitou, M., Klaassen, C., Meis, J.F., Hagen, F., Liu, W.D., & de Hoog, G.S. 2013. Taxonomy and epidemiology of *Mucor irregularis*, agent of chronic cutaneous mucormycosis. *Persoonia: Molecular Phylogeny and Evolution of Fungi*, 30: 48–56.

- Lusihanne, C.B., Andriana, M., & Sari, F.M.K. 2023. Perubahan Biokimiawi dan Fisik pada Fermentasi Koji oleh *Aspergillus oryzae* dalam Pembuatan Kecap. *Tropical Microbiome Journal*, 1(1): 35–46.
- Mahmud, Z., & Ferry, Y. 2015. Prospek pengolahan hasil samping buah kelapa. *Perspektif Review Penelitian Tanaman Industri*, 4(2): 55–63.
- Mardiatmoko, G., & Ariyanti, M. 2018. *Produksi Tanaman Kelapa (Cocos nucifera L.)*. BPPF - UNPATTI. Ambon.
- Masuda, F., Ishii, M., Mori, A., Uehara, L., Yanagida, M., Takeda, K., & Saitoh, S. 2016. Glucose restriction induces transient G2 cell cycle arrest extending cellular chronological lifespan. *Scientific Reports*, 6: 8–9.
- Montgomery, D. C. 2017. *Design and Analysis of Experiment* (9th Edition). John Wiley and Sons Ltd. Hoboken.
- Montgomery, D.C., Peck, E.A., & Vining, G.G. 2012. *Introduction to Linear Regression Analysis* (5th Edition). John Wiley & Sons, Inc. Hoboken.
- Myers, R.H., Montgomery, D.C., & Anderson-Cook, CM. 2016. *Response Surface Methodology: Process and Product Optimization Using Designed Experiments* (4th Edition). John Wiley & Sons, Inc. Hoboken.
- Nadarajan, S., & Sukumaran, S. 2021. Chemistry and toxicology behind chemical fertilizers. *Controlled Release Fertilizers for Sustainable Agriculture*, 195–229.
- Nizamuddin, S., Sridevi, A., & Narasimha, G. 2008. Production of β -galactosidase by *Aspergillus oryzae* in solid-state fermentation. *African Journal of Biotechnology*, 7(8): 1096–1100.
- Nodet, P., Coton, E., & Jany, J. 2016. *Mucor*: A Janus-faced fungal genus with human health impact and industrial applications. *Fungal Biology Reviews*, 31(1): 12–32.
- Nurbaity, R.R.H., & Ilmi, M. 2022. Pengaruh Variasi Kadar Air pada Produksi Lipase oleh *Aspergillus aculeatus* Ms. 11 dengan Fermentasi Substrat Padat Menggunakan Medium Press-Cake Biji Karet (*Hevea brasiliensis* Muell Arg.). *Jurnal Biologi Indonesia*, 18(2): 139–145.
- Nurlia, S., Hafid, H., & Malesi, L. 2020. The Weight of Carcass and Giblet of Broiler With Commercial and Fermentation Feed Substitution. *Indonesian Journal Of Animal Agricultural Science (IJAAS)*, 2(2): 53–63.
- Nurmiah, S., Syarif, R., Sukarno, Peranginangin, R., & Nurtama, B. 2013. Aplikasi Response Surface Methodology pada Optimalisasi Kondisi Proses Pengolahan Alkali Treated Cottonii (ATC). *Jurnal Pascapanen dan Bioteknologi*. 8(1): 9–22.
- Pasaribu, T. 2018. Efforts to Improve the Quality of Palm Kernel Cake through Fermentation Technology and Enzyme Addition for Poultry. *Indonesian Bulletin of Animal and Veterinary Sciences*, 28(3): 119–128.
- Pilarian, F., & Purwanti, E.P. 2013. Optimasi Parameter Proses Pemotongan Stainless Steel Sus 304 Untuk Kekasaran Permukaan Dengan Metode Response Surface. *Seminar Nasional Matematika Dan Pendidikan Matematika FMIPA UNY Yogyakarta*, 4(11): 1–16.
- Raharjo, D. S., Bhuja, P., & Amalo, D. 2019. The Effect of Fermentation on Protein Content and Fat Content of Tempeh Gude (*Cajanus cajan*). *Jurnal Biotropikal Sains*, 16(3): 55–63.
- Raissi, S., & Farsani, R.E. 2009. Statistical Process Optimization Through Multi-

- Response Surface Methodology. *International Journal of Mathematical and Computational Sciences*, 3(3): 197–201.
- Rao, R.V. 2011. *Advanced Modeling and Optimization of Manufacturing Processes*. Springer. Verlag.
- Rosni, N.K., Sanny, M., Bahranor, N.S.A., & Rukayadi, Y. 2020. Physicochemical characteristics, microbiological safety and sensory acceptability of coconut dregs during fermentation using *Rhizopus oligosporus*. *Food Research*, 4(5): 1402–1411.
- Rossi, M., Amaretti, A., Raimondi, S., & Leonardi, A. 2011. Getting Lipids for Biodiesel Production from Oleaginous Fungi. *Biodiesel - Feedstocks and Processing Technologies*, 1: 71-92.
- Santiago, A.L.C.M. de A., Parreira dos Santos, P.J., & Maia, L.C. 2013. Mucorales from the semiarid of Pernambuco, Brazil. *Brazilian Journal of Microbiology*, 44(1): 299–305.
- Saragih, H., & Ndruma, M.L. 2020. Pengaruh Pemberian Ampas Kelapa Fermentasi Dalam Ransum Terhadap Performans Ayam Broiler. *Jurnal Ilmiah Peternakan*, 1(1), 8–14.
- Schell, W.A., O'Donnell, K., & Alspaugh, J.A. 2011. Heterothallic mating in *Mucor irregularis* and first isolate of the species outside of Asia. *Medical Mycology*, 49(7): 714–723.
- Seftiono, H., Djuardi, E., & Sherly, P. 2019. Analisis Proksimat dan Total Serat Pangan pada Crackers Fortifikasi Tepung Tempe dan Koleseom (Talinum triangulare). *Agritech*, 39(2): 160–168.
- Sharifyazd, S., & Karimi, K. 2017. Effects of fermentation conditions on valuable products of ethanolic fungus *Mucor indicus*. *Electronic Journal of Biotechnology*, 30: 77–82.
- Skiada, A., Drogari-Apiranthitou, M., Pavleas, I., Daikou, E., & Petrikkos, G. 2022. Global Cutaneous Mucormycosis: A Systematic Review. *Journal of Fungi*, 8(2): 1–17.
- Somashekar, D., Venkateshwaran, G., Sambaiah, K., & Lokesh, B.R. 2002. Effect of culture conditions on lipid and gamma-linolenic acid production by mucoraceous fungi. *Process Biochemistry*, 38: 1719–1724.
- Suyanto, E., Soetarto, E.S., & Cahyanto, M.N. 2019. Production and Optimization of Lipase by *Aspergillus niger* using Coconut Pulp Waste in Solid State Fermentation. *Journal of Physics: Conference Series*, 1374(1): 1–6.
- Syahri, Y.F., & Syahrir. 2016. Potency of Dregs Coconut Fermentation (*Cocos nucifera*) As an Alternative Feed for Fish and Poultry 'Pa-Bio'. *Agrotech Journal*, 1(1): 45–49.
- Triasih, U., Agustina, D.M.E., & Wuryantini, S. 2019. Test of Various Carrier Materials Against Viability and Conidia Density in Some Liquid Biopesticides of Entomopathogenic Fungi. *Jurnal Agronida*, 5(1): 12–20.
- Umam, M.K., Prayogi, H.S., & Nurgiartiningsih, V.M.A. 2011. Penampilan Produksi Ayam Pedaging yang Dipelihara pada Sistem Lantai Kandang Panggung dan Kandang Bertingkat. *Jurnal Ilmu-Ilmu Peternakan*, 24(3): 79–87.
- van Hanh, V., Pham, T.A., & Kim, K. 2010. Improvement of a fungal strain by repeated and sequential mutagenesis and optimization of solid-state fermentation for the hyper-production of raw-starch-digesting enzyme.



Journal of Microbiology and Biotechnology, 20(4): 718–726.

Winanti, R., Bintari, S. H., & Mustikaningtyas, D. 2014. Studi Observasi Higienitas Produk Tempe Berdasarkan Perbedaan Metode Inokulasi. *Unnes Journal of Life Science*, 3(1): 39–46.

Wulandari, A.A., Wuryandari, T., & Ispriyanti, D. 2016. Penerapan Metode Taguchi untuk Kasus Multirespon Menggunakan Pendekatan Grey Relational Analysis dan Principal Component Analysis. *Jurnal Gaussian*, 5(4): 791–800.