

DAFTAR PUSTAKA

- Aarestrup F. M. (1999). Association between the consumption of antimicrobial agents in animal husbandry and the occurrence of resistant bacteria among food animals. *International journal of antimicrobial agents*, 12(4), 279–285. [https://doi.org/10.1016/s0924-8579\(99\)90059-6](https://doi.org/10.1016/s0924-8579(99)90059-6)
- Akihary, C. V., & Kolondam, B. J. (2020). Utilization of the 16S rRNA gene as a bacterial identification device for research in Indonesia. *Pharmacon*, 9(1), 16–22.
- Al-Hadeithi, Z. S. M., Jasim, S. A., & Salahdin, O. D. (2022). Relation between resistance of *Klebsiella pneumoniae* to certain antibiotics and ESBL/PBP genes. *Biodiversitas*, 23(8), 3902–3906. <https://doi.org/10.13057/biodiv/d230806>
- Alam, F., Islam, M. A., Gan, S. H., & Khalil, M. I. (2014). Honey: A potential therapeutic agent for managing diabetic wounds. *Evidence-Based Complementary and Alternative Medicine*, 2014. <https://doi.org/10.1155/2014/169130>
- Alatab, S., Sepanlou, S. G., Ikuta, K., Vahedi, H., Bisignano, C., Safiri, S., Sadeghi, A., Nixon, M. R., Abdoli, A., Abolhassani, H., Alipour, V., Almadi, M. A. H., Almasi-Hashiani, A., Anushiravani, A., Arabloo, J., Atique, S., Awasthi, A., Badawi, A., Baig, A. A. A., ... Naghavi, M. (2020). The global, regional, and national burden of inflammatory bowel disease in 195 countries and territories, 1990–2017: a systematic analysis for the Global Burden of Disease Study 2017. *The Lancet Gastroenterology and Hepatology*, 5(1), 17–30. [https://doi.org/10.1016/S2468-1253\(19\)30333-4](https://doi.org/10.1016/S2468-1253(19)30333-4)
- Al-Hatamleh, M. A. I., Boer, J. C., Wilson, K. L., Plebanski, M., Mohamud, R., & Mustafa, M. Z. (2020). Antioxidant-Based Medicinal Properties of Stingless Bee Products: Recent Progress and Future Directions. *Biomolecules*, 10(6), 923. <https://doi.org/10.3390/biom10060923>
- Al-Sayaghi, A. M., Al-Kabsi, A. M., Abdoh, M. S., Saghir, S. A. M., & Alshawsh, M. A. (2022). Antibacterial Mechanism of Action of Two Types of Honey against *Escherichia coli* through Interfering with Bacterial Membrane Permeability, Inhibiting Proteins, and Inducing Bacterial DNA Damage. *Antibiotics*, 11(9). <https://doi.org/10.3390/antibiotics11091182>
- Al-Waili N. S. (2005). Mixture of honey, beeswax and olive oil inhibits growth of *Staphylococcus aureus* and *Candida albicans*. *Archives of medical research*, 36(1), 10–13. <https://doi.org/10.1016/j.arcmed.2004.10.002>
- Alimentarius, C. (2001). Revised codex standard for honey. *Codex stan*, 12, 1982.

- Alvarez-Suarez, J. M., Giampieri, F., Brenciani, A., Mazzoni, L., Gasparini, M., González-Paramás, A. M., Santos-Buelga, C., Morroni, G., Simoni, S., Forbes-Hernández, T. Y., Afrin, S., Giovanetti, E., & Battino, M. (2018). *Apis mellifera* vs *Melipona beecheii* Cuban polifloral honeys: A comparison based on their physicochemical parameters, chemical composition and biological properties. *Lwt*, 87, 272–279. <https://doi.org/10.1016/j.lwt.2017.08.079>
- Amin FA, Sabri S, Ismail M, Chan KW, Ismail N, Mohd Esa N, Mohd Lila MA, Zawawi N. Probiotic Properties of Bacillus Strains Isolated from Stingless Bee (*Heterotrigona itama*) Honey Collected across Malaysia. *Int J Environ Res Public Health*. 2019 Dec 31;17(1):278.
- Amin, F. A., Sabri, S., Mohammad, S. M., Ismail, M., Chan, K. W., Ismail, N., Norhaizan, M. E., & Zawawi, N. (2018). Therapeutic properties of stingless bee honey in comparison with european bee honey. *Advances in Pharmacological Sciences*, 2018. <https://doi.org/10.1155/2018/6179596>
- Amin, F. A., Sabri, S., Mohammad, S. M., Ismail, M., Chan, K. W., Ismail, N., Norhaizan, M. E., & Zawawi, N. (2018). Therapeutic Properties of Stingless Bee Honey in Comparison with European Bee Honey. *Advances in pharmacological sciences*, 2018, 6179596. <https://doi.org/10.1155/2018/6179596>
- Andrade-Velásquez, A., Hernández Sánchez, H., Dorantes-Álvarez, L., Palmeros-Sánchez, B., Torres-Moreno, R., Hernández-Rodríguez, D., & Melgar-Lalanne, G. (2023). Honey characterization and identification of fructophilic lactic acid bacteria of fresh samples from *Melipona beecheii*, *Scaptotrigona pectoralis*, *Plebeia llorentei*, and *Plebeia jatiformis* hives. *Frontiers in Sustainable Food Systems*, 7. <https://doi.org/10.3389/fsufs.2023.1113920>
- Anggereini, E. (2008). Random Amplified Polymorphic DNA (RAPD), Suatu Metode Analisis DNA Dalam Menjelaskan Berbagai Fenomena Biologi. *Biospecies*, 1(2), 73–76.
- Anggraini, N. D., Kartika, K. M., & Sari Tambunan, E. P. (2022). Uji Efektivitas Antibakteri Ekstrak Etanol Bunga Kecombrang (*Etlingera elatior*) Terhadap Pertumbuhan *Klebsiella pneumoniae*. *Klorofil: Jurnal Ilmu Biologi Dan Terapan*, 6(1), 38. <https://doi.org/10.30821/kfl:jibt.v6i1.11648>
- Anggraini, W., Rezki Puspitasari, M., Ramadhani Dwi Atmaja, R., & Sugihantoro, H. (2020). Pengaruh Pemberian Edukasi Terhadap Pasien Rawat Jalan Tentang Penggunaan Antibiotik di RSUD Kanjuruhan Kabupaten Malang. *Pharmaceutical Journal of Indonesia*, 6(1), 57–62. <https://doi.org/10.21776/ub.pji.2020.006.01.9>
- Astawa, I. K. P., Arsana, I. N., & Wahyudi, I. W. (2023). Daya Hambat Madu Lebah Klanceng (*Trigona laeviceps*) terhadap Pertumbuhan Bakteri *Escherichia coli*.

Jurnal Widya Biologi, 13(June 2018), 72–82.
<https://doi.org/10.32795/widyabiologi.v13i02.3566>

Aviany, H. B., & Pujiyanto, S. (2020). Analisis Efektivitas Probiotik di Dalam Produk Kecantikan sebagai Antibakteri terhadap Bakteri *Staphylococcus epidermidis*. *Berkala Bioteknologi*, 3(2).

Ávila, S., Beux, M. R., Ribani, R. H., & Zambiazi, R. C. (2018). Stingless bee honey: Quality parameters, bioactive compounds, health-promotion properties and modification detection strategies. *Trends in Food Science and Technology*, 81(September), 37–50. <https://doi.org/10.1016/j.tifs.2018.09.002>

Babarinde, G. O., Babarinde, S. A., Adegbola, D. O., & Ajayeoba, S. I. (2011). Effects of harvesting methods on physicochemical and microbial qualities of honey. *Journal of Food Science and Technology*, 48(5), 628–634. <https://doi.org/10.1007/s13197-011-0329-9>

Badrulhisham, N. S. R., Ab Hamid, S. N. P., Ismail, M. A. H., Yong, Y. K., Muhamad Zakuan, N., Harith, H. H., Saidi, H. I., & Nurdin, A. (2020). Harvested locations influence the total phenolic content, antioxidant levels, cytotoxic, and anti-inflammatory activities of stingless bee honey. *Journal of Asia-Pacific Entomology*, 23(4), 950–956. <https://doi.org/10.1016/j.aspen.2020.07.015>

Bakar, M. F., Sanusi, S. B., Abu Bakar, F. I., Cong, O. J., & Mian, Z. (2017). Physicochemical and antioxidant potential of raw unprocessed honey from malaysian stingless bees. *Pakistan Journal of Nutrition*, 16(11), 888–894. <https://doi.org/10.3923/pjn.2017.888.894>

Barie, P. S. (2012). Multidrug-Resistant Organisms and Antibiotic Management. *Surgical Clinics of North America*, 92(2), 345–391. <https://doi.org/10.1016/j.suc.2012.01.015>

Bauer, A. W., Kirby, W. M., Sherris, J. C., & Turck, M. (1966). Antibiotic susceptibility testing by a standardized single disk method. *American journal of clinical pathology*, 45(4), 493–496.

Becker, K., Heilmann, C., & Peters, G. (2014). Coagulase-negative staphylococci. *Clinical Microbiology Reviews*, 27(4), 870–926. <https://doi.org/10.1128/CMR.00109-13>

Biluca, F. C., da Silva, B., Caon, T., Mohr, E. T. B., Vieira, G. N., Gonzaga, L. V., Vitali, L., Micke, G., Fett, R., Dalmarco, E. M., & Costa, A. C. O. (2020). Investigation of phenolic compounds, antioxidant and anti-inflammatory activities in stingless bee honey (Meliponinae). *Food Research International*, 129 (November 2019), 108756. <https://doi.org/10.1016/j.foodres.2019.108756>

- Biluca, F. C., de Gois, J. S., Schulz, M., Braghini, F., Gonzaga, L. V., Maltez, H. F., Rodrigues, E., Vitali, L., Micke, G. A., Borges, D. L. G., Costa, A. C. O., & Fett, R. (2017). Phenolic compounds, antioxidant capacity and bioaccessibility of minerals of stingless bee honey (Meliponinae). *Journal of Food Composition and Analysis*, 63, 89–97. <https://doi.org/10.1016/j.jfca.2017.07.039>
- Bonnet, M., Lagier, J. C., Raoult, D., & Khelaifia, S. (2020). Bacterial culture through selective and non-selective conditions: the evolution of culture media in clinical microbiology. *New Microbes and New Infections*, 34. https://doi.org/10.1016/j_nmni.2019.100622
- Borsato, D. M., Prudente, A. S., Döll-Boscardin, P. M., Borsato, A. V., Luz, C. F. P., Maia, B. H. L. N. S., Cabrini, D. A., Otuki, M. F., Miguel, M. D., Farago, P. V., & Miguel, O. G. (2014). Topical Anti-inflammatory activity of a monofloral honey of Mimosa scabrella Provided by melipona marginata during winter in Southern Brazil. *Journal of Medicinal Food*, 17(7), 817–825. <https://doi.org/10.1089/jmf.2013.0024>
- Bowler, P. G., Welsby, S., Towers, V., Booth, R., Hogarth, A., Rowlands, V., Joseph, A., & Jones, S. A. (2012). Multidrug-resistant organisms, wounds and topical antimicrobial protection. *International Wound Journal*, 9(4), 387–396. <https://doi.org/10.1111/j.1742-481X.2012.00991.x>
- Brescó, M. S., Harris, L. G., Thompson, K., Stanic, B., Morgenstern, M., O'Mahony, L., Richards, R. G., & Moriarty, T. F. (2017). Pathogenic mechanisms and host interactions in *Staphylococcus epidermidis* device-related infection. *Frontiers in Microbiology*, 8(AUG). <https://doi.org/10.3389/fmicb.2017.01401>
- Brown, M. M., & Horswill, A. R. (2020). *Staphylococcus epidermidis*-Skin friend or foe? *PLoS Pathogens*, 16(11), 1–6. <https://doi.org/10.1371/JOURNAL.PPAT.1009026>
- Brudzynski, K. (2020). A current perspective on hydrogen peroxide production in honey. A review. *Food Chemistry*, 332, 127229. <https://doi.org/10.1016/j.foodchem.2020.127229>
- Byrd, A. L., Deming, C., Cassidy, S. K. B., Harrison, O. J., Ng, W. I., Conlan, S., NISC Comparative Sequencing Program, Belkaid, Y., Segre, J. A., & Kong, H. H. (2017). *Staphylococcus aureus* and *Staphylococcus epidermidis* strain diversity underlying pediatric atopic dermatitis. *Science translational medicine*, 9(397), eaal4651. <https://doi.org/10.1126/scitranslmed.aal4651>
- Cannon, J. P., Lee, T. A., Bolanos, J. T., & Danziger, L. H. (2005). Pathogenic relevance of *Lactobacillus*: A retrospective review of over 200 cases. *European Journal of Clinical Microbiology and Infectious Diseases*, 24(1), 31–40. <https://doi.org/10.1007/s10096-004-1253-y>

- Catlin, B. W. (1975). Cellular elongation under the influence of antibacterial agents: way to differentiate coccobacilli from cocci. *Journal of Clinical Microbiology*, 1(1), 102–105. <https://doi.org/10.1128/jcm.1.1.102-105.1975>
- Cembrano, G., Sanhueza, O., Pezoa, M., Báez, M. E., Martínez, J., Báez, M., & Fuentes, E. (2020). Relationship among the minor constituents, antibacterial activity and geographical origin of honey: A multifactor perspective. *Food Chemistry*, 315(January), 126296. <https://doi.org/10.1016/j.foodchem.2020.126296>
- Cha, H., Lee, S., Lee, J. H., & Park, J. W. (2018). Protective effects of p-coumaric acid against acetaminophen-induced hepatotoxicity in mice. *Food and Chemical Toxicology*, 121, 131-139.
- Chakravorty, S., Helb, D., Burday, M., Connell, N., & Alland, D. (2007). A detailed analysis of 16S ribosomal RNA gene segments for the diagnosis of pathogenic bacteria. *Journal of Microbiological Methods*, 69(2), 330–339. <https://doi.org/10.1016/j.mimet.2007.02.005>
- Chan, B. K., Haron, H., Talib, R. A., & Subramaniam, P. (2017). Physical properties, antioxidant content and anti-oxidative activities of Malaysian stingless kelulut (*Trigona* spp.) honey. *J. Agric. Sci*, 9(13), 32-40.
- Chari, S., Mbonane, T. P., & Van Wyk, R. H. (2023). Social and Environmental Determinants of Diarrheal Diseases among Children under Five Years in Epworth Township, Harare. *Children*, 10(7). <https://doi.org/10.3390/children10071173>
- Cheng, M. Z. S. Z., Amin, F. A. Z., Zawawi, N., Chan, K. W., Ismail, N., Ishak, N. A., & Esa, N. M. (2023). Stingless Bee (*Heterotrigona Itama*) Honey and Its Phenolic-Rich Extract Ameliorate Oxidant–Antioxidant Balance via KEAP1-NRF2 Signalling Pathway. *Nutrients*, 15(13), 1–18. <https://doi.org/10.3390/nu15132835>
- Chettri, U., & Kumari, S. (2020). A review on prebiotic importance of stingless bee honey and its ethnomedicinal and therapeutic potential. *Article in International Journal of Pharmaceutical Sciences Review and Research*, 63(2), 150–156.
- Christensen, G. J. M., & Brüggemann, H. (2014). Bacterial skin commensals and their role as host guardians. *Beneficial Microbes*, 5(2), 201–215. <https://doi.org/10.3920/BM2012.0062>
- Chutpong, B., Chanbang, Y., Srivong, K., & Burgett, M. (2016). Physicochemical profiles of stingless bee (Apidae: Meliponini) honey from South East Asia (Thailand). *Food Chemistry*, 192, 149–155. <https://doi.org/10.1016/j.foodchem.2015.06.089>

- Cianciosi, D., Forbes-Hernández, T. Y., Afrin, S., Gasparrini, M., Reboreda-Rodríguez, P., Manna, P. P., Zhang, J., Lamas, L. B., Flórez, S. M., Toyos, P. A., Quiles, J. L., Giampieri, F., & Battino, M. (2018). Phenolic compounds in honey and their associated health benefits: A review. *Molecules*, 23(9), 1–20. <https://doi.org/10.3390/molecules23092322>
- Clarridge, J. E. (2004). Impact of 16S rRNA gene sequence analysis for identification of bacteria on clinical microbiology and infectious diseases. *Clinical Microbiology Reviews*, 17(4), 840–862. <https://doi.org/10.1128/CMR.17.4.840-862.2004>
- CLSI - Clinical & Laboratory Standards Institute 2013. Performance standards for antimicrobial Susceptibility Testing. An informational supplement for global application developed through the Clinical and Laboratory Standards Institute. Clinical and Laboratory Standards Institute.
- Croxen, M. A., Law, R. J., Scholz, R., Keeney, K. M., Włodarska, M., & Finlay, B. B. (2013). Recent advances in understanding enteric pathogenic Escherichia coli. *Clinical Microbiology Reviews*, 26(4), 822–880. <https://doi.org/10.1128/CMR.00022-13>
- Damayanti, N. W. E., Abadi, M. F., & Bintari, N. W. D. (2020). Perbedaan Jumlah Bakteriuri Pada Wanita Lanjut Usia Berdasarkan Kultur Mikrobiologi Menggunakan Teknik Cawan Tuang Dan Cawan Sebar. *Meditory : The Journal of Medical Laboratory*, 8(1), 1–4. <https://doi.org/10.33992/m.v8i1.969>
- Danial, A. W., Hamdy, S. M., Alrumman, S. A., Gad El-Rab, S. M. F., Shoreit, A. A. M., & Hesham, A. E. L. (2021). Bioplastic production by bacillus wiedmannii as-02 ok576278 using different agricultural wastes. *Microorganisms*, 9(11). <https://doi.org/10.3390/microorganisms9112395>
- Fallahzadeh-Mamaghani, V., Shahbazi-Ezmareh, R., Shirzad, A., & Moslehi, S. (2023). Possible mechanisms of action of Bacillus wiedmannii AzBw1, a biocontrol agent of the root-knot nematode, Meloidogyne arenaria. *Egyptian Journal of Biological Pest Control*, 33(1), 1–8. <https://doi.org/10.1186/s41938-023-00668-1>
- Davis, W. W., Stout, T.R. 1971. Disc Plate Methods of Microbiological Antibiotic Assay. *Journal Microbiology*, 22(4): 659-665.
- De Almeida-Muradian, L. B., Stramm, K. M., Horita, A., Barth, O. M., Da Silva de Freitas, A., & Estevinho, L. M. (2013). Comparative study of the physicochemical and palynological characteristics of honey from *Melipona subnitida* and *Apis mellifera*. International. *Journal of Food Science and Technology*, 48(8), 1698–1706. <https://doi.org/10.1111/ijfs.12140>

- de Paula, G. T., Menezes, C., Pupo, M. T., & Rosa, C. A. (2021). Stingless bees and microbial interactions. *Current Opinion in Insect Science*, 44, 41–47. <https://doi.org/10.1016/j.cois.2020.11.006>
- de Sousa, J. M. B., de Souza, E. L., Marques, G., Benassi, M. de T., Gullón, B., Pintado, M. M., & Magnani, M. (2016). Sugar profile, physicochemical and sensory aspects of monofloral honeys produced by different stingless bee species in Brazilian semi-arid region. *Lwt*, 65, 645–651. <https://doi.org/10.1016/j.lwt.2015.08.058>
- Devika, M., Bhuvaneshwari, G., & Mohanram, K. (2019). Comparative Study of Membrane Filtration and Spread Plate Technique for Dialysis Water Analysis. *Saudi Journal of Pathology and Microbiology*, 04(09), 649–653. <https://doi.org/10.36348/sjpm.2019.v04i09.004>
- Díaz, S., de Souza Urbano, S., Caesar, L., Blochtein, B., Sattler, A., Zuge, V., & Haag, K. L. (2017). Report on the microbiota of *Melipona quadrifasciata* affected by a recurrent disease. *Journal of Invertebrate Pathology*, 143, 35–39. <https://doi.org/10.1016/j.jip.2016.11.012>
- Diekema D.J., Pfaller M.A., Schmitz F.J., Smayevsky J., Bell J., Jones R.N., Beach M., Group S.P. (2001). Survey of infections due to *Staphylococcus* species: Frequency of occurrence and antimicrobial susceptibility of isolates collected in the United States, Canada, Latin America, Europe, and the Western Pacific region for the SENTRY Antimicrobial Surveillance Program, 1997–1999. *Clinical Infectious Diseases*, 32, S114–S132. doi: 10.1086/320184.
- Duarte, A. W. F., Dos Santos Vasconcelos, M. R., De Menezes, A. P. D., Da Silva, S. C., Oda-Souza, M., & López, A. M. Q. (2012). Composition and antioxidant activity of honey from Africanized and stingless bees in Alagoas (Brazil): A multivariate analysis. *Journal of Apicultural Research*, 51(1), 23–35. <https://doi.org/10.3896/IBRA.1.51.1.04>
- Edgar, R. C. (2004). MUSCLE: Multiple sequence alignment with high accuracy and high throughput. *Nucleic Acids Research*, 32(5), 1792–1797. <https://doi.org/10.1093/nar/gkh340>
- Effah, C. Y., Sun, T., Liu, S., & Wu, Y. (2020). *Klebsiella pneumoniae*: An increasing threat to public health. *Annals of Clinical Microbiology and Antimicrobials*, 19(1), 1–9. <https://doi.org/10.1186/s12941-019-0343-8>
- El-Kased, R. F., Amer, R. I., Attia, D., & Elmazar, M. M. (2017). Honey-based hydrogel: In vitro and comparative in vivo evaluation for burn wound healing. *Scientific Reports*, 7(1), 1–11. <https://doi.org/10.1038/s41598-017-08771-8>
- Esa NEF, Ansari MNM, Razak SIA, Ismail NI, Jusoh N, Zawawi NA, Jamaludin MI, Sagadevan S, Nayan NHM. A Review on Recent Progress of Stingless Bee

- Honey and Its Hydrogel-Based Compound for Wound Care Management. *Molecules*. 2022 May 11;27(10):3080. doi: 10.3390/molecules27103080. PMID: 35630557; PMCID: PMC9145090.
- Ewnetu, Y., Lemma, W., & Birhane, N. (2013). Antibacterial effects of *Apis mellifera* and stingless bees honeys on susceptible and resistant strains of *Escherichia coli*, *Staphylococcus aureus* and *Klebsiella pneumoniae* in Gondar, Northwest Ethiopia. *BMC complementary and alternative medicine*, 13, 269. <https://doi.org/10.1186/1472-6882-13-269>
- Felis, G. E., & Dellaglio, F. (2007). Taxonomy of lactobacilli and bifidobacteria. *Current Issues in Intestinal Microbiology*, 8(2), 44–61.
- Gherardi, G. (2023). *Staphylococcus aureus* Infection: Pathogenesis and Antimicrobial Resistance. *International Journal of Molecular Sciences*, 24(9). <https://doi.org/10.3390/ijms24098182>
- Gomes, T. A. T., Elias, W. P., Scaletsky, I. C. A., Guth, B. E. C., Rodrigues, J. F., Piazza, R. M. F., Ferreira, L. C. S., & Martinez, M. B. (2016). Diarrheagenic *Escherichia coli*. *Brazilian Journal of Microbiology*, 47, 3–30. <https://doi.org/10.1016/j.bjm.2016.10.015>
- Gould, D., & Chamberlaine, A. (1995). *Staphylococcus aureus*: a review of the literature. *Journal of Clinical Nursing*, 4(1), 5–12.
- Hamory, B. H., & Parisi, J. T. (1987). *Staphylococcus epidermidis*: A significant nosocomial pathogen. *AJIC: American Journal of Infection Control*, 15(2), 59–74. [https://doi.org/10.1016/0196-6553\(87\)90003-4](https://doi.org/10.1016/0196-6553(87)90003-4)
- Harjanto, S., Mujianto, M., Arbainsyah, & Ramlan, A. (2020). Budidaya Lebah Madu Kelulut Sebagai Alternatif Mata Pencaharian Masyarakat.
- Heo, J. Y., Seo, Y. Bin, Choi, W. S., Lee, J., Yoon, J. G., Lee, S. N., Choi, M. J., Noh, J. Y., Ahn, J. Y., Jeong, H. W., Cheong, H. J., Kim, W. J., Lee, H. Y., & Song, J. Y. (2018). Incidence and case fatality rates of community-acquired pneumonia and pneumococcal diseases among Korean adults: Catchment population-based analysis. *PLoS One*, 13(3), 1–10. <https://doi.org/10.1371/journal.pone.0194598>
- Hixon, K. R., Bogner, S. J., Ronning-Arnesen, G., Janowiak, B. E., & Sell, S. A. (2019). Investigating manuka honey antibacterial properties when incorporated into cryogel, hydrogel, and electrospun tissue engineering scaffolds. *Gels*, 5(2), 7–9. <https://doi.org/10.3390/gels5020021>
- Howse, S. (2018). Managing the risk of fermenting honey. *Fermentation of Packed Honey*, November, 13–15.

- Hudaya, A., Radiastuti, N., Sukandar, D., & Djajanegara, I. (2014). Uji Aktivitas Antibakteri Ekstrak Air Bunga Kecombrang Terhadap Bakteri E. coli dan S. aureus Sebagai Bahan Pangan Fungsional. *Jurnal Biologi*, 7(1), 9–15.
- Ibrahimi, H., & Hajdari, A. (2020). Phenolic and flavonoid content, and antioxidant activity of honey from Kosovo. *Journal of Apicultural Research*, 59(4), 452–457. <https://doi.org/10.1080/00218839.2020.1714194>
- Ikuta, K. S., Swetschinski, L. R., Robles Aguilar, G., Sharara, F., Mestrovic, T., Gray, A. P., Davis Weaver, N., Wool, E. E., Han, C., Gershberg Hayoon, A., Aali, A., Abate, S. M., Abbasi-Kangevari, M., Abbasi-Kangevari, Z., Abd-Elsalam, S., Abebe, G., Abedi, A., Abhari, A. P., Abidi, H., ... Naghavi, M. (2022). Global mortality associated with 33 bacterial pathogens in 2019: a systematic analysis for the Global Burden of Disease Study 2019. *The Lancet*, 400(10369), 2221–2248. [https://doi.org/10.1016/S0140-6736\(22\)02185-7](https://doi.org/10.1016/S0140-6736(22)02185-7)
- Islam, S., Pramanik, M. J., Biswas, S., Moniruzzaman, M., Biswas, J., Akhtar-E-Ekram, M., Zaman, S., Uddin, M. S., Saleh, M. A., & Hassan, S. (2022). Biological Efficacy of Compounds from Stingless Honey and Sting Honey against Two Pathogenic Bacteria: An In Vitro and In Silico Study. *Molecules*, 27(19). <https://doi.org/10.3390/molecules27196536>
- Ismail, N. I., Abdul Kadir, M. R., Mahmood, N. H., Singh, O. P., Iqbal, N., & Zulkifli, R. M. (2016). Las actividades de pecoreo de Apini y Meliponini influyen en el contenido fenólico de diferentes tipos de miel de Malasia. *Journal of Apicultural Research*, 55(2), 137–150. <https://doi.org/10.1080/00218839.2016.1207388>
- Ismail, N. I., Kadir, M. R. A., Zulkifli, R. M., & Mohamed, M. (2021). Comparison of physicochemical, total protein and antioxidant profiles between Malaysian apis and trigona honeys. *Malaysian Journal of Analytical Sciences*, 25(2), 243–256.
- Jalil, M. A., Kasmuri, A. R., & Hadi, H. (2017). Stingless bee honey, the natural wound healer: A review. *Skin Pharmacology and Physiology*, 30(2), 66–75. <https://doi.org/10.1159/000458416>
- Jiang, W., Yang, W., Zhao, X., Wang, N., & Ren, H. (2020). Klebsiella pneumoniae presents antimicrobial drug resistance for β -lactam through the ESBL/PBP signaling pathway. *Experimental and Therapeutic Medicine*, 2449–2456. <https://doi.org/10.3892/etm.2020.8498>
- Johnson, J. S., Spakowicz, D. J., Hong, B. Y., Petersen, L. M., Demkowicz, P., Chen, L., Leopold, S. R., Hanson, B. M., Agresta, H. O., Gerstein, M., Sodergren, E., & Weinstock, G. M. (2019). Evaluation of 16S rRNA gene sequencing for species and strain-level microbiome analysis. *Nature Communications*, 10(1), 1–11. <https://doi.org/10.1038/s41467-019-13036-1>

- Kalghatgi, A. T., Praharaj, A. K., Sahni, A. K., Pradhan, D., Kumaravelu, S., Prasad, P. L., & Nagendra, A. (2008). Detection of bacterial pathogens in cerebrospinal fluid using restriction fragment length polymorphism. *Medical Journal Armed Forces India*, 64(1), 29–32. [https://doi.org/10.1016/S0377-1237\(08\)80141-4](https://doi.org/10.1016/S0377-1237(08)80141-4)
- Katayama Y., Ito T., Hiramatsu K. (2000). A new class of genetic element, staphylococcus cassette chromosome mec, encodes methicillin resistance in Staphylococcus aureus. *Antimicrobial Agents and Chemotherapy*, 44, 1549–1555.
- Kek, S. P., Chin, N. L., Yusof, Y. A., Tan, S. W., & Chua, L. S. (2018). Classification of entomological origin of honey based on its physicochemical and antioxidant properties. *International Journal of Food Properties*, 20(0), S2723–S2738. <https://doi.org/10.1080/10942912.2017.1359185>
- Kholishah, S.N., Wijayanti, D.P. & Sibero, M.T. 2022. Isolasi, Identifikasi dan Karakteristik Antimicrobial Resistance Staphylococcus cohnii Dari Perairan Semarang. *Best Journal*, 5(1): 127–133.
- Kumar, K. S., & Bhowmik, D. (2010). Medicinal uses and health benefits of Honey: An overview. *J Chem Pharm Res*, 2(1), 385–395. Diakses dari <http://scholar.google.com/scholar?hl=en&btnG=Search&q=intitle:Medicinal+uses+and+health+benefits+of+Honey+:+An+Overview#0>
- Kumontoy, G. D. (2023). Pemanfaatan tanaman herbal sebagai obat tradisional untuk kesehatan masyarakat di Desa Guaan Kecamatan Mooat Kabupaten Bolaang Mongondow Timur. *Holistik, Journal of Social and Culture*, 16(3), 1-16.
- Kumowal S, Fatimawali F, Jayanto I. Uji Aktivitas Antibakteri Nanopartikel Ekstrak Lengkuas Putih (*Alpinia galanga* (L.) Willd) Terhadap Bakteri *Klebsiella pneumoniae*. *Pharmacon*. 2019;8(4):781-790. doi:10.35799/PHA.8.2019.29354
- Kwapong Kwame Aidoo Rofela Combey Afia Karikari, P. (2010). Stingless Bees A Training Manual For Stingless Beekeeping. www.macmillan-africa.com
- Lakhundi S., Zhang K. (2018). Methicillin-resistant *Staphylococcus aureus*: Molecular characterization, evolution, and epidemiology. *Clinical Microbiology Reviews*, 31, e00020-18.
- Le, K. Y., Park, M. D., & Otto, M. (2018). Immune evasion mechanisms of *Staphylococcus epidermidis* biofilm infection. *Frontiers in Microbiology*, 9(FEB), 1–8. <https://doi.org/10.3389/fmicb.2018.00359>
- Leelaprakash, G. (2014). In vitro anti-inflammatory activity of methanol extract of *Enicostemma axillare*. *International Journal of Drug Development & Research*

Available online <http://www.ijddr.in> Covered in Official Product of Elsevier
The Netherlands © 2010 IJDDR Invitro Anti-I. June.

- Lestari, P. (2016). Studi tanaman khas Sumatera Utara yang berkhasiat obat. *Jurnal Farmanesia*, 1(1), 11-21.
- Lindsay J.A., Holden M.T. (2004). Staphylococcus aureus: Superbug, super genome? *Trends in Microbiology*, 12, 378–385.
- Llorente, M. T., Escudero, R., Ramiro, R., Remacha, M. A., Martínez-Ruiz, R., Galán-Sánchez, F., de Frutos, M., Elía, M., Onrubia, I., & Sánchez, S. (2023). Enteropathogenic Escherichia coli as etiological agent of endemic diarrhea in Spain: A prospective multicenter prevalence study with molecular characterization of isolates. *Frontiers in Microbiology*, 14(March), 1–14. <https://doi.org/10.3389/fmicb.2023.1120285>
- Lowy F.D. (1998). Staphylococcus aureus infections. *The New England Journal of Medicine*, 339, 520–532.
- Machado De-Melo, A. A., Almeida-Muradian, L. B. de, Sancho, M. T., & Pascual-Maté, A. (2018). Composición y propiedades de la miel de Apis mellifera: una revisión. *Journal of Apicultural Research*, 57(1), 5–37. <https://doi.org/10.1080/00218839.2017.1338444>
- MacKinnon, M. C., McEwen, S. A., Pearl, D. L., Lyytikäinen, O., Jacobsson, G., Collignon, P., Gregson, D. B., Valiquette, L., & Laupland, K. B. (2021). Increasing incidence and antimicrobial resistance in Escherichia coli bloodstream infections: a multinational population-based cohort study. *Antimicrobial Resistance and Infection Control*, 10(1), 1–10. <https://doi.org/10.1186/s13756-021-00999-4>
- Maeda, Y., Loughrey, A., Earle, J. A. P., Millar, B. C., Rao, J. R., Kearns, A., McConville, O., Goldsmith, C. E., Rooney, P. J., Dooley, J. S. G., Lowery, C. J., Snelling, W. J., McMahon, A., McDowell, D., & Moore, J. E. (2008). Antibacterial activity of honey against community-associated methicillin-resistant Staphylococcus aureus (CA-MRSA). *Complementary Therapies in Clinical Practice*, 14(2), 77–82. <https://doi.org/10.1016/j.ctcp.2007.11.004>
- Magurran, A. E. (2004). “Measuring Biological Diversity”. Oxford: Blackwell Publishing Company.
- Mama, M., Teshome, T., & Detamo, J. (2019). Antibacterial Activity of Honey against Methicillin-Resistant Staphylococcus aureus: A Laboratory-Based Experimental Study. *International Journal of Microbiology*, 2019. <https://doi.org/10.1155/2019/7686130>

- Mandal, M. D., & Mandal, S. (2011). Honey: Its medicinal property and antibacterial activity. *Asian Pacific Journal of Tropical Biomedicine*, 1(2), 154–160. [https://doi.org/10.1016/S2221-1691\(11\)60016-6](https://doi.org/10.1016/S2221-1691(11)60016-6)
- Manguntungi, B., Sari, A. P., Ariandi, Anggih, R. R., Chadir, Islam, I., Suharli, L., Vanggy, L. R., Sufiyanti, N., Al Fateeh, M. F., Whatin, U. F., Pratiwi, I. D., & Dwi, K. W. (2020). Isolasi dan Karakteristik Bakteri Asam Laktat dari Madu Hitam Sumbawa dan Potensinya Sebagai Senyawa Antimikroba. *Jurnal Pendidikan Biologi Undiksha*, 7(1), 1–7. <https://ejournal.undiksha.ac.id/index.php/JJPB/index>
- Martins, B. E. D. M., Chaibub, A. A., Cortês, M. V. D. C. B., Lobo, V. L. D. S., & DE FILIPPI, M. C. C. (2020). Characterization of bacterial isolates for sustainable rice blast control. *Revista Caatinga*, 33(3), 702–712. <https://doi.org/10.1590/1983-21252020v33n313rc>
- Maulinda, S., Hindritiani, R., Ruchiatan, K., & Suwarsa, O. (2016). Perbandingan Kadar Interleukin-17 Serum Pasien Akne Vulgaris Tipe Papulopustular dengan Komedonal. *Majalah Kedokteran Bandung*, 48(3), 160–163. <https://doi.org/10.15395/mkb.v48n3.846>
- Menegatti, C., Lourenzon, V. B., Rodríguez-Hernández, D., Da Paixão Melo, W. G., Ferreira, L. L. G., Andricopulo, A. D., Do Nascimento, F. S., & Pupo, M. T. (2020). Meliponamycins: Antimicrobials from Stingless Bee-Associated Streptomyces sp. *Journal of Natural Products*, 83(3), 610–616. <https://doi.org/10.1021/acs.jnatprod.9b01011>
- Meo, S. A., Al-Asiri, S. A., Mahesar, A. L., & Ansari, M. J. (2017). Role of honey in modern medicine. *Saudi Journal of Biological Sciences*, 24(5), 975–978. <https://doi.org/10.1016/j.sjbs.2016.12.010>
- Miller, R. A., Kent, D. J., Boor, K. J., Martin, N. H., & Wiedmann, M. (2015). Different management practices are associated with mesophilic and thermophilic spore levels in bulk tank raw milk. *Journal of Dairy Science*, 98(7), 4338–4351. <https://doi.org/10.3168/jds.2015-9406>
- Miller, Rachel A., Beno, S. M., Kent, D. J., Carroll, L. M., Martin, N. H., Boor, K. J., & Kovac, J. (2016). *Bacillus wiedmannii* sp. nov., a psychrotolerant and cytotoxic *bacillus cereus* group species isolated from dairy foods and dairy environments. *International Journal of Systematic and Evolutionary Microbiology*, 66(11), 4744–4753. <https://doi.org/10.1099/ijsem.0.001421>
- Miller, Rachel A., Jian, J., Beno, S. M., Wiedmann, M., & Kovac, J. (2018). Intraclade variability in toxin production and cytotoxicity of *Bacillus cereus* group type strains and dairy-associated isolates. *Applied and Environmental Microbiology*, 84(6), 1–15. <https://doi.org/10.1128/AEM.02479-17>

- Minh, B. Q., Nguyen, M. A. T., & Von Haeseler, A. (2013). Ultrafast approximation for phylogenetic bootstrap. *Molecular Biology and Evolution*, 30(5), 1188–1195. <https://doi.org/10.1093/molbev/mst024>
- Mohamad, M. A. M., Mazlan, M. A., Ibrahim, M., Yusof, A. M., Shamsuddin, S. A. A., Hassan, N. F. N., Muhammad, H., & Isa, M. L. M. (2019). The effect of malaysian stingless bee, *trigona* spp. Honey in promoting proliferation of the undifferentiated stem cell. *Asia-Pacific Journal of Molecular Biology and Biotechnology*, 27(1), 10–19. <https://doi.org/10.35118/apjmbb.2019.027.1.02>
- Molan P. C. (1999). The role of honey in the management of wounds. *Journal of wound care*, 8(8), 415–418. <https://doi.org/10.12968/jowc.1999.8.8.25904>
- Molan P. C. (2001). The potential of honey to promote oral wellness. *General dentistry*, 49(6), 584–589.
- Moon, D. C., Choi, J. H., Boby, N., Kang, H. Y., Kim, S. J., Song, H. J., Park, H. S., Gil, M. C., Yoon, S. S., & Lim, S. K. (2022). Bacterial Prevalence in Skin, Urine, Diarrheal Stool, and Respiratory Samples from Dogs. *Microorganisms*, 10(8). <https://doi.org/10.3390/microorganisms10081668>
- Mutsaqof, A. A. N., Wiharto & Suryani, E. (2015). Sistem Pakar untuk Mendiagnosis Penyakit Infeksi Menggunakan Forward Chaining. *Jurnal Itsmart*, 4(1), 43–47.
- Nanda, M. S., Mittal, S. P., & Gupta, V. (2017). Role of honey as adjuvant therapy in patients with sore throat. *National Journal of Physiology, Pharmacy and Pharmacology*, 7(4), 412–415. <https://doi.org/10.5455/njPPP.2017.7.1233125122016>
- Nisa, N. K., Khotimah, & Zuliani. (2020). Pengaruh Pemberian Madu Terhadap Diare Pada Remaja Di Asrama As’Adiyah Pondok Pesantren Darul’Ulum Jombang. *Jurnal EduNursing*, 4(1), 24–28.
- Nishimaki, T., & Sato, K. (2019). An Extension of the Kimura Two-Parameter Model to the Natural Evolutionary Process. *Journal of Molecular Evolution*, 87(1), 60–67. <https://doi.org/10.1007/s00239-018-9885-1>
- Nishio, E. K., Ribeiro, J. M., Oliveira, A. G., Andrade, C. G. T. J., Proni, E. A., Kobayashi, R. K. T., & Nakazato, G. (2016). Antibacterial synergic effect of honey from two stingless bees: *Scaptotrigona bipunctata* Lepeletier, 1836, and *S. postica* Latreille, 1807. *Scientific Reports*, 6(January 2015), 1–8. <https://doi.org/10.1038/srep21641>
- Nurhayati, Sri. 2007. Pengaruh Ketuaan dan Konsentrasi Dekok Daun Salam (*Syzygium polyanthum*) terhadap Diameter Zona Hambat *Salmonella typhi*

- Secara In Vitro. Skripsi. Malang: Fakultas Kedokteran Universitas Muhammadiyah Malang.
- Obi, C. L., Ugoji, E. O., Edun, S. A., Lawal, S. F., & Anyiwo, C. E. (1994). The antibacterial effect of honey on diarrhoea causing bacterial agents isolated in Lagos, Nigeria. *African journal of medicine and medical sciences*, 23(3), 257–260.
- Olaitan, P. B., Adeleke, O. E., & Ola, I. O. (2007). Honey: A reservoir for microorganisms and an inhibitory agent for microbes. *African Health Sciences*, 7(3), 159–165. <https://doi.org/10.5555/afhs.2007.7.3.159>
- Petersen, A. M. (2022). Gastrointestinal dysbiosis and Escherichia coli pathobionts in inflammatory bowel diseases. *Apmis*, 130(S144), 1–38. <https://doi.org/10.1111/apm.13256>
- Pightling, A. W., Pettengill, J. B., Luo, Y., Baugher, J. D., Rand, H., & Strain, E. (2018). Interpreting whole-genome sequence analyses of foodborne bacteria for regulatory applications and outbreak investigations. *Frontiers in Microbiology*, 9(JUL), 1–13. <https://doi.org/10.3389/fmicb.2018.01482>
- Prasetya, H., & Saefuddin, A. (2011). Performance Comparison Between Kimura 2-Parameters and Jukes-Cantor Model in Constructing Phylogenetic Tree of Neighbour Joining. *Forum Statistika Dan Komputasi*, 16(1), 8–16.
- Quelab. 2005. Mc Farlands Standards. Available at www.quelab.com. [Diakses tanggal 15 Desember 2023].
- Ranneh, Y., Akim, A. M., Hamid, H. A., Khazaai, H., Fadel, A., Zakaria, Z. A., Albujja, M., & Bakar, M. F. A. (2021). Honey and its nutritional and anti-inflammatory value. *BMC Complementary Medicine and Therapies*, 21(1), 1–17. <https://doi.org/10.1186/s12906-020-03170-5>
- Rao, P. V., Krishnan, K. T., Salleh, N., & Gan, S. H. (2016). Biological and therapeutic effects of honey produced by honey bees and stingless bees: A comparative review. *Revista Brasileira de Farmacognosia*, 26(5), 657–664. <https://doi.org/10.1016/j.bjp.2016.01.012>
- Rodrigues, P. M., Ribeiro, P., & Tavaria, F. K. (2023). Distinction of Different Colony Types by a Smart-Data-Driven Tool. *Bioengineering*, 10(1). <https://doi.org/10.3390/bioengineering10010026>
- Roslan, N. A., Rashed, H. M., Harun, N. H., Jamaludin, M. H., Kari, Z. A. and Alimon, A. R. (2015). The antibacterial activity of diluted Tualang honey. *Malaysia Journal of Animal Science*, 18(1), 99-104.
- Rosli, F. N., Hazemi, M. H. F., Akbar, M. A., Basir, S., Kassim, H., & Bunawan, H.

- (2020). (2020). Stingless Bee Honey : Evaluating Its Antibacterial. Diversity. Insects, 11(8), 500.
- Sanders, M. G. H., Nijsten, T., Verlouw, J., Kraaij, R., & Pardo, L. M. (2021). Composition of cutaneous bacterial microbiome in seborrheic dermatitis patients: A cross-sectional study. PLoS ONE, 16(5 May), 1–16. <https://doi.org/10.1371/journal.pone.0251136>
- Sanger, F., Nicklen, S., & Coulson, A. R. (1977). DNA sequencing with chain-terminating inhibitors. *Proceedings of the National Academy of Sciences of the United States of America*, 74(12), 5463–5467. <https://doi.org/10.1073/pnas.74.12.5463>
- Saxena, R., Mittal, P., Clavaud, C., Dhakan, D. B., Hegde, P., Veeranagaiah, M. M., Saha, S., Souverain, L., Roy, N., Breton, L., Misra, N., & Sharma, V. K. (2018). Comparison of Healthy and Dandruff Scalp Microbiome Reveals the Role of Commensals in Scalp Health. *Frontiers in Cellular and Infection Microbiology*, 8 (October). <https://doi.org/10.3389/fcimb.2018.00346>
- Schito G.C. (2006). The importance of the development of antibiotic resistance in *Staphylococcus aureus*. *Clinical Microbioloy and Infection*, 12, S3–S8.
- Se, K. W., Ibrahim, R. K. R., Wahab, R. A., & Ghoshal, S. K. (2018). Accurate evaluation of sugar contents in stingless bee (*Heterotrigona itama*) honey using a swift scheme. *Journal of Food Composition and Analysis*, 66, 46-54.
- Selvaraju, K., Vikram, P., Soon, J. M., Krishnan, K. T., & Mohammed, A. (2019). Melissopalynological, physicochemical and antioxidant properties of honey from West Coast of Malaysia. *Journal of Food Science and Technology*, 56(5), 2508–2521. <https://doi.org/10.1007/s13197-019-03728-3>
- Shamsudin, S., Selamat, J., Sanny, M., Abd. Razak, S. B., Jambari, N. N., Mian, Z., & Khatib, A. (2019). Influence of origins and bee species on physicochemical, antioxidant properties and botanical discrimination of stingless bee honey. *International Journal of Food Properties*, 22(1), 238–263. <https://doi.org/10.1080/10942912.2019.1576730>
- Silva, B., Biluca, F. C., Gonzaga, L. V., Fett, R., Dalmarco, E. M., Caon, T., & Costa, A. C. O. (2021). In vitro anti-inflammatory properties of honey flavonoids: A review. *Food Research International*, 141 (December 2020), 110086. <https://doi.org/10.1016/j.foodres.2020.110086>
- Silva, I. C. da, Conceição, E. O. A., Pereira, D. S., Rogez, H., & Muto, N. A. (2023). Evaluation of the Antimicrobial Capacity of Bacteria Isolated from Stingless Bee (*Scaptotrigona aff. postica*) Honey Cultivated in Açaí (*Euterpe oleracea*) Monoculture. *Antibiotics*, 12(2). <https://doi.org/10.3390/antibiotics12020223>

- Simon, C. (2022). An Evolving View of Phylogenetic Support. *Systematic Biology*, 71(4), 921–928. <https://doi.org/10.1093/sysbio/syaa068>
- Solayman, M., Islam, M. A., Paul, S., Ali, Y., Khalil, M. I., Alam, N., & Gan, S. H. (2016). Physicochemical Properties, Minerals, Trace Elements, and Heavy Metals in Honey of Different Origins: A Comprehensive Review. *Comprehensive Reviews in Food Science and Food Safety*, 15(1), 219–233. <https://doi.org/10.1111/1541-4337.12182>
- Soltis, P. S., & Soltis, D. E. (2003). Applying the Bootstrap in Phylogeny Reconstruction. *Statistical Science*, 18(2), 256–267. <https://doi.org/10.1214/ss/1063994980>
- Soumya, K. R., Philip, S., Sugathan, S., Mathew, J., & Radhakrishnan, E. K. (2017). Virulence factors associated with Coagulase Negative Staphylococci isolated from human infections. *Biotech*, 7(2), 1–10. <https://doi.org/10.1007/s13205-017-0753-2>
- Souza, E. C. A., Menezes, C., & Flach, A. (2021). Stingless bee honey (Hymenoptera, Apidae, Meliponini): a review of quality control, chemical profile, and biological potential. *Apidologie*, 52(1), 113–132. <https://doi.org/10.1007/s13592-020-00802-0>
- Stagos, D., Soulitsiotis, N., Tsadila, C., Papaconomou, S., Arvanitis, C., Ntontos, A., Karkanta, F., Adamou-Androulaki, S., Petrotos, K., Spandidos, D. A., Kouretas, D., & Mossialos, D. (2018). Antibacterial and antioxidant activity of different types of honey derived from Mount Olympus in Greece. *International Journal of Molecular Medicine*, 42(2), 726–734. <https://doi.org/10.3892/ijmm.2018.3656>
- Subramanian, R., Hebbar, H. U., & Rastogi, N. K. (2007). Processing of honey: A review. *International Journal of Food Properties*, 10(1), 127–143. <https://doi.org/10.1080/10942910600981708>
- Supaphimol, N., Attasopa, K., Pakwan, C., Chantawannakul, P., & Disayathanoowat, T. (2020). Cultured-dependent and cultured-independent study of bacteria associated with Thai commercial stingless bee *Lepidotrigona terminata*. *Journal of Apicultural Research*, 60(2), 341–348. <https://doi.org/10.1080/00218839.2020.1831285>
- Susana, S., Gloria, G., Fuencisla, J., Consuelo, P., & Teresa, J. (1995). Fermentation problem in spanish north-coast honey. *Journal of Food Protection*, 58(5), 515–518. <https://doi.org/10.4315/0362-028x-58.5.515>
- Susanti, M., Khalimatusa'diah, S., & Rasyid, A. (2022). Pemanfaatan Variasi Sumber Karbohidrat dari Palawija sebagai Alternatif Media Sintetik untuk

- Pertumbuhan Bakteri. Bio Educatio, *The Journal of Science and Biology Education*, 7(2).
- Syed Yaacob, S. N., Huyop, F., Kamarulzaman Raja Ibrahim, R., & Wahab, R. A. (2018). Identification of Lactobacillus spp. and Fructobacillus spp. isolated from fresh Heterotrigona itama honey and their antagonistic activities against clinical pathogenic bacteria. *Journal of Apicultural Research*, 57(3), 395–405. <https://doi.org/10.1080/00218839.2018.1428047>
- Tanaka, A., Cho, O., Saito, C., Saito, M., Tsuboi, R., & Sugita, T. (2016). Comprehensive pyrosequencing analysis of the bacterial microbiota of the skin of patients with seborrheic dermatitis. *Microbiology and immunology*, 60(8), 521–526. <https://doi.org/10.1111/1348-0421.12398>
- Teixeira, É. W., Ferreira, E. A., Luz, C. F. P. da, Martins, M. F., Ramos, T. A., & Lourenço, A. P. (2020). European Foulbrood in stingless bees (Apidae: Meliponini) in Brazil: Old disease, renewed threat. *Journal of Invertebrate Pathology*, 172(November 2019). <https://doi.org/10.1016/j.jip.2020.107357>
- Terrones-Fernandez, I., Casino, P., López, A., Peiró, S., Ríos, S., Nardi-Ricart, A., García-Montoya, E., Asensio, D., Marqués, A. M., Castilla, R., Gamez-Montero, P. J., & Piqué, N. (2023). Improvement of the Pour Plate Method by Separate Sterilization of Agar and Other Medium Components and Reduction of the Agar Concentration. *Microbiology Spectrum*, 11(1). <https://doi.org/10.1128/spectrum.03161-22>
- Tyas, D. E., Widyorini, N., & Solichin, A. (2018). Perbedaan jumlah bakteri dalam sedimen pada kawasan bermangrove dan tidak bermangrove di perairan Desa Bedono, Demak. *Management of Aquatic Resources Journal*, 7(2), 189-196.
- Ulfat, M., Abad, Z., Ali, N. M., Sarwar, S., Jabeen, K., & Abrar, A. (2024). Screening, biochemical characterization and antibiotics resistance/susceptibility of bacteria isolated from native soil and water samples. *Brazilian Journal of Biology*, 84, 1–12. <https://doi.org/10.1590/1519-6984.254016>
- Utomo, S. B., Fujiyanti, M., Lestari, W. P., & Mulyani, S. (2018). Uji aktivitas antibakteri senyawa c-4 metoksifenilkaliks [4] resorsinarena termodifikasi hexadecyltrimethylammonium-bromide terhadap bakteri *Staphylococcus aureus* dan *Escherichia coli*. *Jurnal Kimia dan Pendidikan Kimia*, 3(3), 109-209.
- Vit, P., Medina, M., & Enríquez, M. E. (2004). Quality standards for medicinal uses of Meliponinae honey in Guatemala, Mexico and Venezuela. *Bee World*, 85(1), 2–5. <https://doi.org/10.1080/0005772X.2004.11099603>

- Vit, P., Roubik, D. W., & Pedro, S. R. M. (2012). Pot-Honey: A legacy of stingless bees. *Pot-Honey: A Legacy of Stingless Bees*, January 2013, 1–654. <https://doi.org/10.1007/978-1-4614-4960-7>
- Wanjai, C., Sringarm, K., Santasup, C., Pak-Uthai, S., & Chantawannakul, P. (2012). Physicochemical and microbiological properties of longan, bitter bush, sunflower and litchi honeys produced by *Apis mellifera* in Northern Thailand. *Journal of Apicultural Research*, 51(1), 36–44. <https://doi.org/10.3896/IBRA.1.51.1.05>
- Watterson, M. J., Kent, D. J., Boor, K. J., Wiedmann, M., & Martin, N. H. (2014). Evaluation of dairy powder products implicates thermophilic sporeformers as the primary organisms of interest. *Journal of Dairy Science*, 97(4), 2487–2497. <https://doi.org/10.3168/jds.2013-7363>
- Wijaya, R. C., Utari, E. L., & Yudianingsih, Y. (2015). Perancangan alat penghitung bakteri. *Respati*, 10(29).
- Xu, Z., Wang, Z., Yuan, C., Liu, X., Yang, F., Wang, T., ... & Zhang, M. (2016). Dandruff is associated with the conjoined interactions between host and microorganisms. *Scientific reports*, 6(1), 1-9.
- Ya'akob, H., Norhisham, N. F., Mohamed, M., Sadek, N., & Endrini, S. (2019). Evaluation of physicochemical properties of *Trigona* sp. stingless bee honey from various districts of Johor. *J. Kejuruter*, 2, 59-67.
- Yaacob, M., Rajab, N. F., Shahar, S., & Sharif, R. (2018). Stingless bee honey and its potential value: *A systematic review*. *Food Research*.
- Yunita, M., Hendrawan, Y., & Yulianingsih, R. (2015). Analisis kuantitatif mikrobiologi pada makanan penerbangan (Aerofood ACS) garuda Indonesia berdasarkan TPC (Total Plate Count) dengan metode pour plate. *Jurnal Keteknikan Pertanian Tropis dan Biosistem*, 3(3), 237-248.
- Yusof, A. A. B., Ajit, A. B., Sulaiman, A. Z., & Naila, A. (2018). Production of lip balm from stingless bee honey.
- Yusuf, Z. K. (2010). Polymerase chain reaction (PCR). *Jurnal Saintek*, 5(6), 1-6.
- Zaharias, P., Lemoine, F., & Gascuel, O. (2023). Robustness of Felsenstein's Versus Transfer Bootstrap Supports With Respect to Taxon Sampling. *Systematic Biology*, 72(6), 1280–1295. <https://doi.org/10.1093/sysbio/syad052>
- Zapun, A., Vernet, T., & Pinho, M. G. (2008). The different shapes of cocci. *FEMS Microbiology Reviews*, 32(2), 345–360. <https://doi.org/10.1111/j.1574-6976.2007.00098.x>

Zervas, A., Aggerbeck, M. R., Allaga, H., Güzel, M., Hendriks, M., Jonuškienė, I., Kedves, O., Kupeli, A., Lamovšek, J., Mülner, P., Munday, D., Namli, Ş., Samut, H., Tomičić, R., Tomičić, Z., Yeni, F., Zghal, R. Z., Zhao, X., Sanchis-Borja, V., & Hendriksen, N. B. (2020). Identification and characterization of 33 *Bacillus cereus* sensu lato isolates from agricultural fields from eleven widely distributed countries by whole genome sequencing. *Microorganisms*, 8(12), 1–17. <https://doi.org/10.3390/microorganisms8122028>

Zhao, J., Du, X., Cheng, N., Chen, L., Xue, X., Zhao, J., Wu, L., & Cao, W. (2016). Identification of monofloral honeys using HPLC-ECD and chemometrics. *Food chemistry*, 194, 167–174. <https://doi.org/10.1016/j.foodchem.2015.08.010>

Zuccato, V., Finotello, C., Menegazzo, I., Peccolo, Giampolo, & Schievano, E. (2017). Entomological authentication of stingless bee honey by ^1H NMR-based metabolomics approach. *Food Control*, 82, 145–153.

