

DAFTAR PUSTAKA

- Alali, A., Zhou, J, Hergenrother, P. J., (2023) Chitosan nanoparticles for enhanced antimicrobial efficacy in dental applications. *Int. J. Biol. Macromol* 224(2023): 1120-1130.
- Aquino de Muro, M., Shuryak, I., Uhlemann, A. C., Tillman, A., Seeram, D., Zakaria, J., Brenner, D. J., (2023) The abundance of the potential pathogen *Staphylococcus hominis* in the air microbiome in a dental clinic and its susceptibility to far-UVC light. *Microbiology Open*, 12(2): 1348.
- Azizah, S., (2023) Uji Aktivitas Antioksidan Ekstrak Etanol Daun Jahe Merah (*Zingiber officinale* var. *rubrum*) Dengan Metode ABTS. *Jurnal Kesehatan Borneo Cendekia*, 7(1): 132-141.
- Alaayedi, M. H., Maraie, N. K., (2023) Lomustine's nanoemulsion as nose-to-brain drug delivery system for CNS tumor treatment. *Saudi Pharmaceutical Journal*, 31(2023): 101692.
- Alkhulaifi, M.M., Alotaibi, D.H., Alajlan, H., Binshoail, T., (2020) Assessment of nosocomial bacterial contamination in dental unit waterlines: Impact of flushing. *Saudi Dental Journal*, 32, 68–73.
- Asmah N., (2020) Pathogenicity biofilm formation of *Enterococcus faecalis*. *Jurnal of Syiah Kuala Dentistry Society*, 5(1):47–50.
- Aini, F. N., and Adiningrat, A., (2021) Challenge in Propolis Biocompatibility as a potential medicament in dental medicine. In *4th International Conference on Sustainable Innovation 2020–Health Science and Nursing (ICoSIHSN 2020)*, 237-247.
- Alghamdi, F., Shakir, M., (2020) The influence of *Enterococcus faecalis* as a dental root canal pathogen on endodontic treatment: a systematic review. *Cureus*, 12(3): 7257.
- Afriani, N., Yusmarini, Pato, U., (2017) Aktivitas antimikroba *Lactobacillus plantarum* 1 yang diisolasi dari industri pengolahan pati sagu terhadap bakteri patogen *Escherichia coli* FNCC-19 dan *Staphylococcus aureus* FNCC-15. *JOM Faperta*, 4(2): 1–10.
- Andriyana I. (2017) Ekstraksi Kitin dari Limbah Cangkang Kepiting Secara Fermentasi Menggunakan Bakteri *Lactobacillus acidophilus*. Bandung: Politeknik Negeri Bandung, 35-50.
- Anderson, A. C., Jonas, D., Huber, I., Karygianni, L., Wölber, J., Hellwig, E., Al-Ahmad, A., (2016) *Enterococcus faecalis* from food, clinical specimens,

and oral sites: prevalence of virulence factors in association with biofilm formation. *Frontiers in microbiology*, 6(2016): 1534.

Abdouchakour, F., Dupont, C., Grau, D., Aujoulat, F., Mournetas, P., Marchandin, H., Jumas-Bilak, E., (2015) *Pseudomonas aeruginosa* and *Achromobacter* sp. clonal selection leads to successive waves of contamination of water in dental care units. *Applied and environmental microbiology*, 81(21): 7509-7524.

Bahirrah, S., Ilyas, S., Narmada, I. B., & Lestari, W., (2024) Inhibits Potency of Bitter leaves (*Vernonia amygdalina delile*) Ethanolic Extract on Nickel Ion Release from Orthodontic Stainless-Steel Bracket: An in vitro study. *Journal of International Dental and Medical Research*, 17(2): 532-536.

Baudet, A., Lizon, J., Lozniewski, A., Florentin, A., and Mortier, É., (2024) Bacterial contamination of new dental unit waterlines and efficacy of shock disinfection. *BMC microbiology*, 24(1): 529.

Bader, M., Dunkel, A., Wenning, M., Kohler, B., Medard, G., Del Castillo, E., (2018) Dynamic proteome alteration and functional modulation of human saliva induced by dietary chemosensory stimuli. *Journal of Agricultural and Food Chemistry*, 6696-6707.

Balouiri, M., Sadiki, M. and Ibsouda, S.K., (2016) Methods for in vitro evaluating antimicrobial activity: A review. *J Pharm Anal.* 6(2): 71–79.

Bhattacharjee, S., (2016) DLS and zeta potential what they are and what they are not?. *Journal of Controlled Release.* 235, 337, 351.

Carey, C. M., Mills, S. E., Vigil, R., Aungst, M., Favazzo, L., (2024) Application of flow cytometry to analyze microbial quality of dental unit water. *JADA Foundational Science*, 3(2024): 100037.

Coban, B.H., (2020) Organic acids as antimicrobial food agents: applications and microbial productions. *Bioprocess and biosystems engineering*, 43, 569.

Carvalho, T. S., Lussi, A. (2020) Acidic beverages and foods associated with dental erosion and erosive tooth wear. *Monographs in Oral Science*, 28, 91-98.

Ch'ng, J. H., Chong, K. K., Lam, L. N., Wong, J. J., Kline, K. A., (2019) Biofilm-associated infection by enterococci. *Nature Reviews Microbiology*, 17(2): 82-94.

Chang, J. D., Wallace, A. G., Foster, E. E., Kim, S. J., (2018) Peptidoglycan compositional analysis of *Enterococcus faecalis* biofilm by stable isotope

- labeling by amino acids in a bacterial culture. *Biochemistry*, 57(7): 1274-1283.
- Cinar, K., (2017) A review on nanoemulsions: preparation methods and stability. *Trakya University Journal of Engineering Sciences*, 18(1): 73-83.
- Chandra Hembram, K., Prabha, S., Chandra, R., Ahmed, B., Nimesh, S., (2016) Advances in preparation and characterization of chitosan nanoparticles for therapeutics. *Artificial cells, nanomedicine, and biotechnology*, 44(1): 305-314.
- Clayton, K. N., Salameh, J. W., Wereley, S. T., Kinzer-Ursem, T. L. (2016) Physical characterization of nanoparticle size and surface charge: A review. *Nanoscale Research Letters*, 11, 1-15.
- Daca, A., Jarzembowski, T., (2024) From the friend to the foe *Enterococcus faecalis* diverse impact on the human immune system. *Int. J. Mol. Sci*, 25(4): 2422.
- Dianawati, N., Zulfira, M. R., (2023) Perbedaan Antara Ekstrak Etanol Jahe Emprit (*Zingiber officinale* var. *amarum*), Jahe Gajah (*Zingiber officinale* var. *officinatum*), Jahe Merah (*Zingiber officinale* var. *rubrum*) Dalam Menghambat Bakteri *Streptococcus mutans*. *Bhakta Dental Jurnal*, 1(1): 13-18.
- Deus, F. P., Ouanounou, A., (2022) Chlorhexidine in dentistry: pharmacology, uses, and adverse effects. *International dental journal*, 72(3): 269-277.
- Devi, A. M., Hidayat, A. F., Priani, S. E., (2021) Formulasi sediaan spray gel mengandung nanoemulsi minyak cengkeh (*Syzygium aromaticum* L.) untuk Kandidiasis Oral. *Prosiding Farmasi*, 10(62): 23332.
- Danaei, M. R. M. M., Dehghankhold, M., Ataei, S., Hasanzadeh Davarani, F., Javanmard, R., Dokhani, A., Mozafari, Y. M. (2018) Impact of particle size and polydispersity index on the clinical applications of lipidic nanocarrier systems. *Pharmaceutics*, 10(2): 57.
- Donsì, F., Ferrari, G. (2016) Essential oil nanoemulsions as antimicrobial agents in food. *Journal of biotechnology*, 233(1): 106-120.
- Dale, J. L., Cagnazzo, J., Phan, C. Q., Barnes, A. M., Dunny, G. M., (2015) Multiple roles for *Enterococcus faecalis* glycosyltransferases in biofilm-associated antibiotic resistance, cell envelope integrity, and conjugative transfer. *Antimicrobial agents and chemotherapy*, 59(7): 4094–4105.

- Elfiyatinnufus, R., Mulyanti, S., Utami, U., Malinda, Y., Laut, D. M., (2023) Comparison of chlorine dioxide and chlorhexidine 2% antiseptic in reducing bacterial colony counts as an alternative to DUWLs cleaning: a quasi-experimental study. *Padjadjaran Journal of Dentistry*, 35(3): 187-191.
- Esperón-Rojas, A. A., Baeza-Jiménez, R., Santos-Luna, D., Velasco-Rodríguez, L. del C., Ochoa-Rodríguez, L. R., García, H. S., (2020) Bioavailability of curcumin in nanoemulsions stabilized with mono-and diacylglycerols structured with conjugated linoleic acid and n-3 fatty acids. *Biocatalysis and Agricultural Biotechnology*, 26(2020): 101638.
- Falcon, C. Y., Abdelkarim, S., Falcon, P. A., Hirschberg, and C. S., Cugini, C., (2022) The effect of cinnamon and ginger essential oils against *Enterococcus faecalis* biofilm: An: in vitro: feasibility study. *Endodontology*, 34(4): 229-235.
- Feng, L., Xu, M., Zeng, W., Zhang, X., Wang, S., Yao, Z., Chen, L., (2022) Evaluation of the antibacterial, antibiofilm, and anti-virulence effects of acetic acid and the related mechanisms on colistin-resistant *Pseudomonas aeruginosa*. *BMC microbiology*, 22(1): 306.
- Fernando,F., Mulqis, L., Hazar, S., (2019) Uji Aktivitas Antifungi Ekstrak Etanol Daun Kedondong (*Spondias Dulcis* Parkinson) terhadap Fungi *Candida albicans* Secara In Vitro The Activity of Antifungal Test Leaves Extract Ethanol Kedondong (*Spondias dulcis* Parkinson) Against of Fungi *Candida alb.* *Prosiding Farmasi*, 5(1): 14–20.
- Goer, A., Blanchard, L. S., Van Belkum, A., Loftus, K. J., Armstrong, T. P., Gatermann, S. G., Franceschi, C., (2022) Multicenter evaluation of the novel ETEST fosfomycin for antimicrobial susceptibility testing of Enterobacterales, *Enterococcus faecalis*, and *Staphylococcus* species. *Journal of Clinical Microbiology*, 60(7): 21-22.
- Ge, J., Kang, J., Ping, W., (2019) Effect of acetic acid on bacteriocin production by gram positive. *Journal of Microbiology and Biotechnology*, 29(9): 1341-1348.
- Garg J, Rg SM, Sinha S, Ghambhir S, Abbey P, Jungio MP., (2022) Antimicrobial Activity of Chlorhexidine and Herbal Mouthwash Against the Adherence of Microorganism to Sutures After Periodontal Surgery: A Clinical Microbiological Study. *Cureus*. 4(12): 32907.

- Ghotbi, R. S., Khatibzadeh, M., Kordbacheh, S., (2020) Preparation and characterization of neem seed oil nanoemulsion. *Journal of Molecular Structure*, 1219, 128568.
- Ghabraei S., Marvi, M., Bolhari, B., and Bagheri, P., (2018) Minimum intracanal dressing time of triple antibiotic paste to eliminate *Enterococcus faecalis* (ATCC 29212) and determination of minimum inhibitory concentration and minimum bactericidal concentration: an ex vivo study. *Journal of Dentistry (Tehran, Iran)*, 15(1): 1.
- Gurpreet, K., Singh, S. K., (2018) Review of nano-emulsion formulation and characterization techniques. *Indian Journal of Pharmaceutical Sciences*, 80(5): 781-789.
- Gunawan, Asep Rohandi., (2018) "Productivity and Quality of Three Varieties of Ginger on Many Light Intensity Levels Under Stand of Pine." *Jurnal Penelitian Sosial dan Ekonomi Kehutanan*, 1(1): 1-13.
- Hidayati, E. N., Santoso, J., Ma'rifah, B., Azzahra, F., Rahayyu, A. M., Masruriati, E., Kinanti, C. D., (2025) Formulasi dan Karakterisasi Nanopartikel Kitosan Mengandung Ekstrak Daun Salam (*Syzygium polyanthum*). *Majalah Farmasetika*, 10(1): 57-68.
- Hong, F., Chen, P., Yu, X., and Chen, Q., (2022) The application of silver to decontaminate dental unit waterlines A systematic review. *Biological Trace Element Research*, 1-15.
- Hayati, I., Hartana, A., Djuita, N. R., Ariyanti, N. S., (2022) Morphological variation of kedondong (*Spondias dulcis* Parkinson) in central part of Sumatra. *Floribunda*, 6(8): 315-323.
- Herrera, F., Mitchell, J. D., Pell, S. K., Collinson, M. E., Daly, D. C., Manchester, S. R., (2018) Fruit morphology and anatomy of the Spondioid Anacardiaceae. *The Botanical Review*, 84(1): 315-393.
- Hassan, B., Chatha, S. A. S., Hussain, A. I., Zia, K. M., Akhtar, N., (2018) Recent advances on polysaccharides, lipids and protein based edible films and coatings: A review. *International journal of biological macromolecules*, 109: 1095-1107.
- Harseno, S., Mooduto, L., Prasetyo, E. P., (2016) Daya Antibakteri Ekstrak Daun Kedondong Bangkok (*Spondias dulcis* Forst.) Terhadap Bakteri *Enterococcus faecalis*. *Conservative Dentistry Journal*, 6(2): 110–116.
- Ishkov, I. P., Ahn, S. J., Rice, K. C., Hagen, S. J., (2020) Environmental triggers of *lrgA* expression in *Streptococcus mutans*. *Frontiers in Microbiology*, 11: 18.

- Ihsani, S. L., Widyastuti, C. R., (2015) Sintesis biokoagulan berbasis kitosan dari kulit udang untuk pengolahan air sungai yang tercemar limbah industri jamu dengan kandungan padatan tersuspensi tinggi. *Jurnal Bahan Alam Terbarukan*, 3(2), 66-70.
- Jayarathna, P. L., Jayawardena, J. A. E., Vanniarachchy, M. P. G., (2020) Identification of Physical, Chemical Properties and Flavor Profile of *Spondias dulcis* in Three Maturity Stages, *International Research Journal of Advanced Engineering and Science*, 5(1): 208-211.
- Karami, M., Fazlara, A., Zarei, M., Makhmal Zadeh, B.S., Safdarian, M., (2024) Development of sesame oil loaded in maltodextrin/acacia gum-coated nanoemulsion and investigation of its physicochemical properties. *Jundishapur J Nat Pharm Prod*, 19(4): 149354.
- Kusmiati, A. R., Hayati, N., (2020) Pemanfaatan kitosan dari cangkang udang sebagai adsorben logam berat pb pada limbah praktikum kimia farmasi. *Indonesian Journal of Laboratory*, 3(1): 6-14.
- Kumar, M., Bishnoi, R. S., Shukla, A. K., Jain, C. P. (2019) Techniques for formulation of nanoemulsion drug delivery system: A review. *Preventive Nutrition and Food Science*, 24(3): 225.
- Karthik, P., Ezhilarasi, P. N., Anandharamakrishnan, C., (2017) Challenges associated in stability of food grade nanoemulsions. *Critical Reviews in Food Science and Nutrition*, 57(7): 1435-1450.
- Komiyama, E. Y., Lepesqueur, L. S. S., Yassuda, C. G., Samaranayake, L. P., Parahitiyawa, N. B., Balducci, I., Koga-Ito, C. Y., (2016) *Enterococcus* species in the oral cavity: prevalence, virulence factors and antimicrobial susceptibility. *PloS one*, 11(9): 0163001.
- Kumari, S., Rath, P., Kumar, A. S. H., (2016) Chitosan from shrimp shell (*Crangon crangon*) and fish scales (*Labeorohita*): Extraction and characterization Suneeta. *African Journal of Biotechnology*, 15(24): 1258-1268.
- Kwartiningsih, E., Ln. Nuning, S.M., (2015) Fermentasi Sari Buah Nanas menjadi Vinegar. *Jurnal Ekuilibrium*, 4(1): 8–12.
- Lestari, N., Iskandarsyah, I., Jusuf, A.A., (2024) Formulasi dan karakterisasi capsaicin konsentrasi tinggi dalam pembawa transfersom pada sediaan gel. *Al Qalam: J Ilm Keagamaan dan Kemasyarakatan*, 18(1): 766–775.
- Li, N., Cai, Q. M., Hu, N. Y., Jiang, S. L., Chen, F. Q., Hu, Q. Q., ... He, C. Z., (2024) Pyrosequencing analysis of bacterial community changes in dental unit waterlines after chlorogenic acid treatment. *Frontiers in Cellular and Infection Microbiology*, 14: 1303099.

- Lee, J., Lee, J. H., Cho, K., Park, J. S., (2024) Development of Rapid Disk Diffusion Device Using Laser Speckle Formation Technology for Rapid Antimicrobial Susceptibility Testing. *Current Microbiology*, 81(9): 269.
- Lidar, S., Purnama, I., Indah Sari, V., (2022) Aplikasi kascing terhadap pertumbuhan dan produksi tanaman jahe merah (*Zingiber officinale* var. *rubrum*). *Jurnal agrotela*, 1(1): 25-32.
- Lina, N. W. M., Maharani, T., Sutharini, M. R., Wijayanti, N. P. A. D., Astuti, K. W., (2017) Karakteristik nanoemulsi ekstrak kulit buah manggis (*Garcinia mangostana* L.). *Jurnal Farmasi Udayana*, 6(1): 6-10.
- Meindrawan, B., Kusuma, A. W., Yuniarti, R., Nabila, F. G., Rahmayanti, D., Pamela, V. Y., (2024) Application of Edible Coating from Beneng Taro Starch, Chitosan and Ginger Essential Oil to Maintain the Quality of Mango. *Journal of Tropical Food and Agroindustrial Technology*, 5(2): 66-73.
- Moradi Alvand, Z., Rahimi, M., Rafati, H., (2022) Interaction of a natural compound nanoemulsion with Gram negative and Gram positive bacterial membrane; a mechanism based study using a microfluidic chip and DESI technique. *International Journal of Pharmaceutics*, 626: 122181.
- Mahdi, Z. H., (2022) Influence of sonication time on the stability of nanoemulsion. *Journal of Kufa for Chemical Sciences*, 2: 5.
- McClements, D. J., Das, A. K., Dhar, P., Nanda, P. K., Chatterjee, N., (2021) Nanoemulsion-based technologies for delivering natural plant-based antimicrobials in foods. *Frontiers in Sustainable Food Systems*, 5: 643208.
- Muhlis, H., Pradana, A. D., Leoangraini, U., (2021) Pemurnian Kitosan Hasil Fermentasi Limbah Cangkang Kepiting Menggunakan Pelarut Asam Asetat. *Fluida*, 14(2): 57-64.
- Munadi, R., (2020) Analisis komponen kimia dan uji aktivitas antioksidan ekstrak rimpang jahe merah (*Zingiber officinale* Rosc. Var *Rubrum*). *Cokroaminoto Journal of Chemical Science*, 2(1): 1-6.
- Magani, A.K.; Tallei, T.E.; Kolondam, B.J., (2020) ‘Uji Antibakteri Nanopartikel Kitosan terhadap Pertumbuhan Bakteri *Staphylococcus aureus* dan *Escherichia coli*. (Antibacterial Test of Chitosan Nanoparticles against *Staphylococcus aureus* and *Escherichia coli*)’, *Bios Logos*, 10(1): 7-12.
- Mahboubi, M., (2019) *Zingiber officinale* Rosc. essential oil, a review on its composition and bioactivity. *Clinical Phytoscience*, 5(1): 1-12.

- Mudalige, T., Qu, H., Van Haute, D., Ansar, S. M., Paredes, A., Chaudhuri, T., (2019) Characterization of Nanomaterials: Tools and Challenges. *Nanomaterials*, 9(1): 87.
- Ma, Z., Garrido-Maestu, A., Jeong, K. C., (2017) Application, mode of action, and in vivo activity of chitosan and its micro-and nanoparticles as antimicrobial agents: A review. *Carbohydrate polymers*, 176: 257-265.
- Marsh, P. D., Lewis, M. A., Rogers, H., Williams, D., Wilson, M., (2016) *Marsh and Martin's Oral Microbiology-E-Book: Marsh and Martin's Oral Microbiology-E-Book*. Elsevier health sciences, 38.
- Madureira, A. R., Pereira, A., Pintado, M., (2015) Current state on the development of nanoparticles for use against bacterial gastrointestinal pathogens. Focus on chitosan nanoparticles loaded with phenolic compounds. *Carbohydrate Polymers*, 130, 429–439.
- Murray, P. R., Rosenthal, K. S., Pfaller, M. A., (2015) *Medical Microbiology E-Book: Medical Microbiology E-Book*. Elsevier Health Sciences, 185, 199-200.
- Noorbakhsh, F., Ghasemi, M.M., Maghbool, M., (2025) Preparation, Characterization, and Antibacterial Evaluation of Nanoemulsions and Chitosan Nanoparticles Containing Lemongrass Essential Oil and Citral against *Staphylococcus aureus* and *Pseudomonas aeruginosa*. *BioNanoSci*, 15: 210.
- Ningsih, I., Wiranto, E., (2022) Permasalahan dan Pemeriksaan Actinobacillus. *EKOTONIA: Jurnal Penelitian Biologi, Botani, Zoologi dan Mikrobiologi*, 7(2): 92-104.
- Nawangsih, E. N., Baladika, D. T., Dewi, A. K. P., (2021) Daya hambat ekstrak buah pala (*Myristica fragrans* Houtt) terhadap *Salmonella typhi* secara In Vivo. *Journal of Innovation Research and Knowledge*, 1(5): 855-864.
- Nugrahani, H., Apriyani, I., Bahri, S., (2021) Analisis kadar asam asetat hasil fermentasi buah kedondong (*Spondias dulcis* Parkinson) dengan metode titrasi alkalimetri. *Sainstech Farma*, 14(2): 97-101.
- Noval, M. N., (2020) Mouthwash Formulation and Evaluation of Bundung Plants (*Actinoscirpus grossus*) Ethanol Extract as a Mouth Antiseptic. *Jurnal Surya Medika*, 6(1): 112 –120.

- Patil, R., Hindlekar, A., Jadhav, G.R., Mittal, P., Humnabad, V., Di Blasio, M., Ciccì, M. Minervini, G., (2023) Comparative evaluation of effect of sodium hypochlorite and chlorhexidine in dental unit waterline on aerosolized bacteria generated during dental treatment. *BMC Oral Health*, 23(1): 1-11.
- Putri, R. N., Wahidah, S. N., Al Hafidz, I. T., Faisal, F., (2023) Uji Daya Hambat Antimikroba Secara Difusi Sumuran dan Difusi Paper Disk. *Era Sains: Jurnal Penelitian Sains, Keteknikan dan Informatika*, 1(4): 28-33.
- Permatananda, P. A. N. K., Pandit, I. G. S., Cahyawati, P. N., Aryastuti, A. A. S. A. (2023) Antimicrobial properties of eco enzyme: a literature review. *Bioscientia Medicina: Journal of Biomedicine and Translational Research*, 7(6): 3370-3376.
- Prihantini, M., Setya, N. F., Amelia, A. R., Zulfa, T. U. (2022) Pengaruh Bentuk Sediaan terhadap Potensi Antioksidan Ekstrak Etanol Daun Sirsak (*Annona muricata* L.) dalam Sistem Nanopartikel. *Jurnal Ilmiah Medicamento*, 8(2): 134–140.
- Pavoni, L., Perinelli, D. R., Bonacucina, G., Cespi, M., Palmieri, G. F., (2020) An overview of micro-and nanoemulsions as vehicles for essential oils: Formulation, preparation and stability. *Nanomaterials*, 10(1): 135.
- Puteri, R. D., Rialita, T., dan Nurhadi, B., (2018) Karakteristik Fitokimia Mikrokapsul Minyak Atsiri Jahe Merah (*Zingiber Officinale* Var. *Rubrum*) Dan Aktivitas Antimikroba Terhadap Bakteri *Escherichia coli* Dan *Staphylococcus aureus*. In Prosiding Seminar Nasional Fakultas Pertanian UNS, 1(1): 2(1).
- Prasad, S., Tyagi, A. K., (2015) Ginger and its constituents: role in prevention and treatment of gastrointestinal cancer. *Gastroenterology research and practice*, 2015(1): 1-12.
- Qureshi, S., Milić, L., Petrović, B., Vejin, M., Kojić, S., Jarić, S., Stojanović, G., (2022) The measurement of contact angle, pH, and conductivity of artificial saliva and mouthwashes on enamel, glass-ionomer, and composite dental materials. *Materials*, 15(13): 4533.
- Qudeimat, M. A., Alyahya, A., Karched, M., Al-Sane, M., (2022) Biofilm growth and microbial contamination of dental unit waterlines at Kuwait University dental center. *Frontiers in Oral Health*, 3: 1071018.
- Qamar, Z., Qizilbash, F. F., Iqbal, M. K., Ali, A., Narang, J. K., Ali, J., (2019) Nano-based drug delivery system: Recent strategies for the treatment of ocular disease and future perspective. *Recent Patents on Drug Delivery & Formulation*, 13, 246–254.

- Rantika, N., Gozali, D., Khoirunnisa, D., (2024) Formulasi Sediaan Spray Gel Ekstrak Etanol Wortel (*Daucus carota* L.) Sebagai Antifungi Pada Kandidiasis Oral. In *Bakti Tunas Husada Conference Series*. 4(1): 159-167.
- Rasti F., Ahmadi, E., Safari, M., Abdollahi, A., Satvati, S., Ran jbar, R., (2023) Anticancer, antioxidant, and antibacterial effects of nanoemulsion of *Origanum majorana* essential oil. *Iranian Journal of Microbiology*, 15, 565–573.
- Repoila, F., Le Bohec, F., Guérin, C., Lacoux, C., Tiwari, S., Jaiswal, A. K., Serror, P., (2022) Adaptation of the gut pathobiont *Enterococcus faecalis* to deoxycholate and taurocholate bile acids. *Scientific Reports*, 12(1): 8485.
- Rahmatika, D., Oktaria, S., (2021) Perbedaan uji daya antibakteri jahe merah (*zingiber officinale* var *rubrum*) dan bawang putih (*allium sativum*) terhadap pertumbuhan bakteri *Staphylococcus aureus*. *Jurnal Kedokteran Ibnu Nafis*, 10(1): 3-4.
- Rochima, E., Fiyanih, E., Afrianto, E., Joni, I. M., Subhan, U., Panatarani, C., (2018) Efek Penambahan Suspensi Nanokitosan pada Edible Coating terhadap Aktivitas Antibakteri. *Jurnal Pengolahan Hasil Perikanan Indonesia*, 21(1): 127.
- Ridarsyah, N. L. M., Priyanto, D., Aditya, G., (2015) Efektifitas Hidrogen Peroksida Dalam Membunuh Bakteri Air Ultra Scaler Pada Dental Unit Di Rsignm Sultan Agung Semarang. *ODONTO : Dental Journal*, 2(1): 29.
- Samaranayake, L., Fakhruddin, K., Sobon, N., Osathanon, T., (2024) Dental unit waterlines: Disinfection and management. *International Dental Journal*, 74(1): 437-445.
- Sari, P. P., Alamsyah, Y., Kornialia, K., (2024) Daya hambat ekstrak daun mangga (*Mangifera indica* L.) terhadap pertumbuhan *Candida albicans*: Studi deskriptif. *Padjadjaran Journal of Dental Researchers and Students*, 8(1): 128-135.
- Sugiyanto, S., Sodikin, M. A., Tindaon, S. L. V., (2022) Kadar Flavonoid Serta Uji Aktivitas Antioksidan pada Biji Buah Kedondong (*Spondias dulcis*) Dengan Pemanasan Temperatur 60 C, 80 C, 100 C Dengan Metode DPPH. *Media Farmasi*, 18(2): 109-114.
- Suryadi, Y., Susilowati, D. N., Samudra, I. M., (2021) Aktivitas Antifungi Formula Kitosan-Tripolifosfat Terhadap Infeksi *Colletotrichum* spp. Pada Cabai. *JRST (Jurnal Riset Sains dan Teknologi)*, 123-129.

- Singh, G., Kapoor, I.P.S., Singh, P., de Heluani, C.S., de Lampasona, M.P., Catalan, C.A.N., (2021) Chemistry, antioxidant and antimicrobial investigations on essential oil and oleoresins of *Zingiber officinale*. *Food and Chemical Toxicology*, 46(10): 3295-3302.
- Spagnolo, A. M., Sartini, M., Cristina, M. L., (2020) Microbial contamination of dental unit waterlines and potential risk of infection: a narrative review. *Pathogens*, 9(8): 651.
- Shahavi, M. H., Hosseini, M., Jahanshahi, M., Meyer, R. L., Darayesh, G. N., (2019) Clove oil nanoemulsion as an effective antibacterial agent: Taguchi optimization method. *Desalination and Water Treatment*, 157, 1-11.
- Samaranayake, L., (2018) *Essential Microbiology for Dentistry-E-Book: Essential Microbiology for Dentistry-E-Book*. Elsevier Health Science, 123, 129, 314.
- Supu, R. D., Diantini, A., Levita, J., (2018) Red ginger (*Zingiber officinale* var. *rubrum*): Its chemical constituents, pharmacological activities and safety. *Fitofarmaka Jurnal Ilmiah Farmasi*, 8(1): 25-31.
- Springga, R., Sampurno, O.D., Purba, M., Efizal., (2016) *Serial The Power Of Obat Asli Indonesia: Jahe (Zingiber officinale Roscoe)*. Badan Pengawas Obat dan Makanan. Jakarta : CV Global Express Media Jakarta, 15-16.
- Tahir, M. U., (2022) "Essential Oil-Based Nanoemulsions: A Review of Formulation, Characterization, and Applications in Food Industry." *International Journal of Food Science*, 2022(1): 5678123.
- Tsimogiannis D., Oreopoulou V., (2019) Classification of Phenolic Compounds in Plants Polyphenols in Plants (Second Edition) ed Watson R R (Cambridge: Academic Press), 263- 284.
- Tritanti, A., Pranita, I., (2019) The making of red ginger (*zingiber officinale rovb.* var. *rubra*) natural essential oil. In *Journal of Physics: Conference Series*, 1273(1): 1273.
- Triana, O., Sarjono, P. R., Mulyani, N. S., (2017) Isolasi bakteri endofit pada rimpang jahe merah (*Zingiber officinale* Linn. Var *Rubrum*) penghasil senyawa antioksidan. *Jurnal Kimia Sains dan Aplikasi*, 20(1): 25-29.
- Umer, F., Khan, M., Khan, F.R. Tejani, K., (2022) Managing dental unit waterlines: a quality improvement programme. *BMJ Open Quality*, 11(2): 001685.
- Utama, A. I., Fifendy, M., Advinda., (2022) Uji Aktivitas Antimikroba Sabun Padat *Anti Acne* terhadap *Staphylococcus aureus* Bakteri Penyebab Jerawat, *Serambi*, 7(1):99-107.

- Van Swaaij, B.W.M., Slot, D.E., Van der Weijden, G.A., Timmerman, M.F., Ruben, J., (2024) Fluoride, pH value, and titratable acidity of commercially available mouthwashes. *IDJ*, 74(2): 260-267.
- Van Strydonck, D.A., Slot, D.E., Van der Velden, U. Van der Weijden, F., (2020) Effect of a chlorhexidine mouthrinse on plaque, gingival inflammation and staining in gingivitis patients: a systematic review. *Journal of Clinical Periodontology*, 47(2): 225-233.
- Windria, R. S., Rusdianto, A. S., Amilia, W., Choiron, M., Belgis, M., (2024) Pengaruh Teknik Pelapisan Kitosan Sebagai Edible Coating Terhadap Umur Simpan Buah Pepaya Calina (*Carica papaya* L.): *Jurnal Agroindustri*, 14(2): 224-236.
- Wei, L.L., Hu, C.C., Hsu, C.W., Pen, C.W., Chen, L.Y., Yu, Y.C., Carey, J.R., Yin, H.C. Wang, S.S., (2021) Disinfection of dental chair water using aqueous chlorine dioxide. *Water*, 13(23): 3442.
- Widyasari, R., Halim, W. H., Sidiqa, A. N., Wedagama, D. M., (2021) Antibacterial Effectiveness Of Lime Leaves (*Citrus hystrix* DC) Ethanol Extract On *Enterococcus faecalis* Bacteria: Efektivitas Antibakteri Ekstrak Etanol Daun Jeruk Purut (*Citrus Hystrix* Dc) Terhadap Bakteri *Enterococcus faecalis*. *Interdental Jurnal Kedokteran Gigi (IJKG)*, 17(2): 89-96.
- Yusuf, M., Rosli, S. Z., Yonata, D., Pranata, B., (2025) Pengaruh Jenis Dan Konsentrasi Asam Organik Terhadap Efisiensi Ekstraksi Asam Glutamat Dan Senyawa Bioaktif Dari SIPOU (*Siphonosoma australe-australe*). *Indonesian Fisheries Processing Journal. Jurnal Pengolahan Hasil Perikanan Indonesia*, 28: (10).
- Yan, D., Li, Y., Liu, Y., Li, N., Zhang, X., Yan, C., (2021) Antimicrobial properties of chitosan and chitosan derivatives in the treatment of enteric infections. *Molecules*, 26(23): 7136.
- Yiek, W.K., Coenen, O., Nillesen, M., van Ingen, J., Bowles, E. Tostmann, A., (2021) Outbreaks of healthcare-associated infections linked to water-containing hospital equipment: a literature review. *Antimicrobial Resistance & Infection Control*, 10: 1-19.
- Zhang, S., Kou, X., Zhao, H., Mak, K. K., Balijepalli, M. K., Pichika, M. R., (2022) *Zingiber officinale* var. *rubrum*: Red ginger's medicinal uses. *Molecules*, 27(3): 775.
- Zou, J.; Shankar, N., (2015) Surface protein Esp enhances pro-inflammatory cytokine expression through NF- κ B activation during enterococcal infection. *Innate Immun*, 22, 31–39.