

DAFTAR PUSTAKA

- Abou Neel, E.A., Aljabo, A., Strange, A., Ibrahim, S., Coathup, M., Young, A.M., Bozec, L. dan Mudera, V., (2016) Demineralization–Remineralization Dynamics in Teeth and Bone, *International Journal of Nanomedicine*, 11:4743-4763.
- Aliasghari, A., Khorasgani, M.R., Vaezifar, S., Rahimi, F., Younesi, H., dan Khoroushi, M., (2016) Evaluation of Antibacterial Efficiency of Chitosan and Nanoparticles on Cariogenic Streptococci: an *In Vitro* Study, *Iranian Journal of Microbiology*, 8(2): 93-100.
- Antoniou, J., Liu, F., Majeed, H., dan Zhong, F., (2015) Characterization of Tara Gum Edible Films Incorporated with Bulk Chitosan and Chitosan Nanoparticles: A Comparative Study. *Food Hydrocolloid*. 44:309-319.
- Atmaja, W. D., (2015) Kulit Buah Kakao (*Theobroma kakao L*) sebagai Bahan Pembersih Gigi Tiruan dan Mencegah Perlekatan *Candida albicans* pada Basis Plak Akrilik, *Jurnal Kedokteran.Gigi Universitas Jember*, 12(2):46-50.
- ATCC, (2021) *Streptococcus mutans* Clarke (ATCC 25175TM), www.atcc.org, diakses pada 3 Februari 2022.
- Bangun, H., Tandiono, S., dan Arianto, A. (2018) Preparation and Evaluation of Chitosan-Tripolyphosphate Nanoparticles Suspension as an Antibacterial Agent, *Journal of Applied Pharmaceutical Science*, 8(12):147-156.
- Cao, F., Guibaud, G., Bourven, I., Pechaud, Y., Lens, P.N., and Van Hullebusch, E.D., (2019) Role of Extracellular Polymeric Substances (EPS) in Cell Surface Hydrophobicity, *Microbial Biofilms in Bioremediation and Wastewater Treatment*, page 128.
- Chasanah, E., Suhartono, M.T. and Putro, S., (2017) Penggunaan Kolom Kromatografi Interaksi Hidrofobik untuk Pemurnian Kitosanase. *Jurnal Penelitian Perikanan Indonesia*, 11(8):19-27.
- Chandrasekaran, M., Kim, K.D., dan Chun, S.C., (2020) Antibacterial Activity of Chitosan Nanoparticles: A Review, *Processes*, 11(73): 1-21.
- Damhuri, P.O., Suharti, N., Efrida, E., Basyar, M. dan Putra, A.E., (2020) Kesesuaian Pemeriksaan Aglutinasi Lateks Dengan BTA Mikroskopis untuk Mengidentifikasi Pasien Tuberkulosis. *Jurnal Kesehatan Andalas*, 9(1):82-87.
- Das, S.C., dan Kapoor, K.N., (2004) Effect of Growth Medium on Hydrophobicity of *Staphylococcus epidermidis*, *Indian Journal Medical Research*, (119):107 –109.

- Dashper, S.G., Saion, B.N., Stacey, M.A., Manton, D.J., Cochrane, N.J., Stanton, D.P., Yuan, Y., dan Reynolds, E.C., (2012) Acidogenic Potential of Soy and Bovine Milk Beverages, *Journal of Dentistry*, 40(9):736-741.
- Doyle, R.J., (2000) Contribution of The Hydrophobic Effect to Microbial Infection, *Microbes and infection*, 2(4):391-400.
- Dye, B.A., (2017) The Global Burden of Oral Disease: Research and Public Health Significance, *Journal of Dental Research*, 96(4):361-361.
- Fardiaz, D., dan Radiati, L.E., (2012) Effect of Whey Goat Milk Kefir on Hydrophobicity of *E. coli* O157: H7, *S. typhi* bacteria and *C. albicans*, *Jurnal Ilmu dan Teknologi Hasil Ternak (JITEK)*, 7(1):12-18.
- Fatmawati, D.W.A., (2011) Hubungan Biofilm *Streptococcus mutans* terhadap Resiko Terjadinya Karies Gigi, *Jurnal Kedokteran Gigi Unej*, 8(3):127-130.
- Forssten S.D., Bjorkhund, M., Ouwehand, A.C., (2010) Review *Streptococcus mutans*, Caries and Stimulation models, *Nutrients*, 2(3):290-298.
- Garg, N., Garg, A., (2015) *Textbook of Operative Dentistry*, 3rd Ed., New Delhi, Jaypee Brothers Medical Publishers (P) Ltd, page 46.
- Hakim, E.R., (2017) *Efek Kitosan Ekstrak Kulit Udang Sebagai Bahan Penghambat Perlekatan Bakteri Streptococcus sanguinis ATCC 10556 In Vitro* (Doctoral dissertation, Universitas Gadjah Mada).
- Hamidah, I., Luzyawati, L., Fajriah, A.N., Ramadhina, N.S., Rahayu, E., Nuaidah, T., dan Puspitasari, Y., (2021) Pemberdayaan Masyarakat Desa Karangsong dalam Pemanfaatan Ikan Non Ekonomi dan Limbah Kulit Udang, *Jurnal SOLMA*, 10(3):423-430.
- Haniastuti, T., (2016) Penurunan Hidrofobisitas Permukaan Sel Bakteri Plak Gigi Setelah Dipapar Rebusan Daun Sirih Merah Konsentrasi 10%, *Dentika Dental Journal*, 19(1):38-41.
- Hanifia, Y., (2017) *Efek Kitosan Ekstrak Kulit Udang Galah (Macrobrachium rosenbergii) terhadap Perlekatan Bakteri Streptococcus sanguinis ATCC 10556 In Vitro* (Doctoral dissertation, Universitas Gadjah Mada).
- HAYATI, Udang galah (*Macrobrachium rosenbergii*)
<http://kehati.jogjaprovo.go.id/detailpost/udang-galah> diakses 20 Maret 2022.
- Hui, Y.W., dan Dykes, G.A., (2012) Modulation of Cell Surface Hydrophobicity and Attachment of Bacteria to Abiotic Surfaces and Shrimp by Malaysian Herb Extracts. *Journal of Food Protection*, 75(8):1507-1511.
- Irianto, H.E., dan Muljanah, I., (2011) Proses dan Aplikasi Nanopartikel Kitosan sebagai Penghantar Obat. *Squalen*, 6(1):1-8.

- Jotlely, F.B., Wowor, V.N.S., dan Gunawan, P.N., (2017) Gambaran Status Karies Berdasarkan Indeks DMF-T dan Indeks PUFA pada Orang Papua di Asrama Cendrawasih Kota Manado, *Jurnal e-Gigi*, 5(2):172-176.
- Karpinski, T.M., dan Szkaradkiewicz, A.K., (2015) Chlorhexidine-pharmacobiological Activity and Application. *European Review for Medical and Pharmacological Sciences*, 19(1):1321-1326.
- Komariah, A., (2014) Efektivitas Antibakteri Nano Kitosan terhadap Pertumbuhan *Staphylococcus aureus* (In Vitro), *Proceeding Biology Education Conference: Biology, Science, Environmental, and Learning*, 11(1):371-377.
- Kravanja, G., Primožič, M., Knez, Ž., dan Leitgeb, M., (2019) Chitosan - Based (Nano) Materials for Novel Biomedical Applications, *Molecules*, 24(10):1960.
- Lamont, L.J., Hajishengallis, G.N., Koo, H.M. dan Jenkinson., (2019) *Oral Microbiology and Immunology*, 3rd Ed., Washington DC : ASM, page 252.
- Lemos, A.C., Jose, Jacqueline, A., dan Robert, A., (2005) Response of Cariogenic Streptococci to environmental stresses, *Current Issues Molecular Biology*, 7(1): 95-108.
- Ljungh, Å., Yanagisawa, N., dan Wadström, T., (2006) Using The Principle of Hydrophobic Interaction to Bind and Remove Wound Bacteria. *Journal of Wound Care*, 15(4):175-180.
- Magdalena, N.V., dan Kusnadi, J., (2015) Antibakteri dari Ekstrak Kasur Daun Gambir (*Uncaria gambir* var *Cubadak*) metode Microwave-assisted Extraction terhadap Bakteri Patogen, *Jurnal Pandan dan Agroindustri*, 3(1): 124-135.
- Marsh, P. D., dan Martin, M. V., (2016) *Marsh & Martin's Oral Microbiology*, 6th Ed., New York, Elsevier, page 108.
- Merritt, K., dan An, Y.H., (2000) Factors Influencing Bacterial Adhesion In Handbook of Bacterial Adhesion, *Humana Press*, Totowa, page 53-72.
- Moses, J.M., Rangeeth, B.N., dan Gurunathan, D., (2011) Prevalence of Dental Caries, Socio-Economic Status and Treatment Needs Among 5 to 15 Year Old School Going Children of Chidambaran, *Journal of Clinical and Diagnostic Research*, 5(1):146-151.
- Nakano, K., Nomura, R., Nemoto, H., Lapidattanakul, J., Taniguchi, N., Grönroos, L., Alaluusua, S. dan Ooshima, T., (2008) Protein Antigen in Serotype k *Streptococcus mutans* Clinical Isolates, *Journal of Dental Research*, 87(10):964-968.

- Pitt, S.J., (2018) *Clinical Microbiology for Diagnostic Laboratory Scientists*, New Jersey, Willey Blackwell, page 66.
- Pitts, N.B., Zero, D.T., Marsh, P.D., Ekstrand, K., Weintraub, J.A., Ramos-Gomez, F., Tagami, J., Twetman, S., Tsakos, G., dan Ismail, A., (2017) Dental Caries. *Nature Reviews Disease Primers*, 3(1): 1-16.
- Prabu G.R., Gnanamani, A., dan Sadulla, S., (2006) Guaijaverin – A Plant Flavonoid as Potential Antiplatelet Agent Against *Streptococcus mutans*. *Journal of Applied Microbiology*. 101(2):487-495.
- Pramiswari, I.M.N., Kusumawati, P.M., dan Nurdeviyanti, N., (2019) Toksisitas Mikro Kitosan Kulit Udang Galah (*Macrobrachium rosenbergii*) Marker Sel Fibroblas (Uji MTT), *Proceeding Book*, page 363-367.
- Pratiwi, R., (2014) Manfaat Kitin dan Kitosan Bagi Kehidupan Manusia, *Oseana*, 39(1): 35-43.
- Qonitannisa, S., Fadli, A., dan Sumarno., (2020) Sintesis Nanokitosan dengan Metode Gelasi Ionik Menggunakan Pelarut Asam Astatat dengan Variasi Konsentrasi Kitosan, *Jurnal Online Mahasiswa Fakultas Teknik*, 7(2): 1-4.
- Rahardjo, S., dan Saifurridjal., (2011) *Budidaya Udang Galah*, Kementrian Kelautan dan Perikanan, Jakarta, page 3.
- Rahmayanti, D., dan Rosariawari, F., (2021) Penurunan Kadar Mikroplastik Pada Air Kali Wonokromo dengan Metode Elektrokoagulasi Envirotek, *Jurnal Ilmiah Teknik Lingkungan*, 13(2), p.86-91.
- Razak, F.A., Othman, R.Y., dan Abd Rahim, Z.H., (2006) The Effect of *Piper betle* and *Psidium guajava* Extracts on The Cell-surface Hydrophobicity of Selected Early Settlers of Dental Plaque. *Journal of Oral Science*, 48(2), p.71-75.
- Samaranayake, L., (2018) *Essential Microbiology for Dentistry*, 5th ed., China, Elsevier, hal. 266, 284-286.
- Sakaue, Y., Takenaka, S., Ohsumi, T., Domon, H., Terao, Y., dan Noiri, Y., (2018) The Effect of Chlorhexidine on Dental Calculus Formation: an *In Vitro* Study, *BMC Oral Health*, 18(52):1-7.
- Siagian, Z. A., Hosaina, H. W., dan Sim, M., (2020) Uji Antibakteri Ekstrak Daun Salam (*Syzygium polyanthum*) Kitosan Nanopartikel 1% terhadap Bakteri *Streptococcus mutans*, *Jurnal Ilmiah Pannmed*, 15(2):1-7.
- Song, J., Choi, B., Jin, E.J., Yoon, Y. dan Choi, K.H., (2012) Curcumin Suppresses *Streptococcus mutans* Adherence to Human Tooth Surfaces and Extracellular Matrix Proteins, *European Journal of Clinical Microbiology & Infectious Diseases*, 31(7):1347-1352.

- Sora, (2012) Pemanfaatan Limbah Udang sebagai Bahan Alternatif Pembuatan Kitosan dengan Penggunaan Bahan Kimia yang Minimal dalam Upaya Optimasi Keefektifan Pengawet Makanan Bagi Masyarakat, *Jurnal e-Gigi*, 2(2):27-25.
- Sullan, R.M.A., Li, J.K., Crowley, P.J., Brady, L.J., Dufrêne, Y.F., (2015) Binding Forces of *Streptococcus mutans* P1 Adhesin. *American Chemical Society Applied Nano Materials*. 9(2):1448-1460.
- Suwarda, R. dan Maarif, M.S., (2013) Pengembangan Inovasi Teknologi Nanopartikel Berbasis Pat Untuk Menciptakan Produk Yang Berdaya Saing, *Jurnal Teknik Industri*, 3(2):104–122.
- Tandra, T.A., Khairunnissa, S., Sim, M., Florenly, (2020) Efek Penambahan Nanokitosan 1% Kedalam Berbagai Konsentrasi Ekstrak Kulit Kelengkeng *Streptococcus Mutans*, *Jurnal Ilmiah Kesehatan Sandi Husada*, 11(1):403-412.
- Tomiyama, K., Mukai, Y., Saito, M., Watanabe, K., Kumada, H., Nihei, T., Hamada, N., Teranaka, T., (2016) Antibacterial Action of a Condensed Tannin Extracted from Astringent Persimmon as a Component of Food Addictive Pencil PS-M on Oral Polymicrobial Biofilms. *Journal of Biomedicine and Biotechnology*, 2016: 1-7.
- Umamah, M., Wisudo, S. H., Wahyu, R. I., (2017) Pengelolaan Sumberdaya Udang yang Berkelanjutan di Laut Aru dan Arafura, *Albacore*, 1(3):245-255.
- Wei, Y.W., Sayed, S.M., Zhu, W.W., Xu, K.F., Wu, F.G., Xu, J., Nie, H.P., Wang, Y.L., Lu, X.L. and Ma, Q., (2022) Antibacterial and Fluorescence Staining Properties of an Innovative GTR Membrane Containing 45S5BGs and AIE Molecules *In Vitro, Nanomaterials*, 12(4):641.
- Xing, Y., Wang, X., Guo, X., Yang, P., Yu, J., Shui, Y., Chen, C., Li, X., Xu, Q., Xu, L., Bi, X., Liu, X., (2021) Comparison of Antimicrobial Activity of Chitosan Nanoparticles against Bacteria and Fungi, *Coatings*, 11:769.
- Yu, Y.O., Zhao, I.S., Mei, M.L., Lo, E.C., Chu, C., (2017) A Review of the Common Models Used in Mechanistic Studies on Demineralization-Remineralization for Cariology Research, *Dentistry Journal*, 5(2): 1-8.
- Yulianto, H.D.K., Morita, (2014) Potensi Herbal Buah Mahkota Dewa (*Phaleria Macrocarpa (scheff.) Boerl*) yang Dimanfaatkan Sebagai Modifikator Permukaan Dan Anti-adhesi Bakteri *S. mutans* Pada Permukaan Material Restorasi Resin Komposit, *Dentika Dental Journal*, 18(2):158-164.
- Zhang, X., Liang, Y., Li, W., Liu, C., Gu, D., Sun, W., Miao, L., (2022) Development and Evaluation of Deep Learning for Screening Dental Caries from Oral Photographs, *Oral Diseases*, 28(1):173-181.