

DAFTAR PUSTAKA

- Ahmad, I., Husain, F.M., Maheshwari, M., Zahin, M. 2014. Medicinal Plants and Phytochemicals: A Potential Source of Novel Antibiofilm Agents. *Antibiofilm Agents*, 205-232.
- Allesen-Holm, M., Barken, K.B., Yang, L., Klausen, M., Webb, J.S., Kjelleberg, S., Molin, S., Givskov, M., Tolker-Nielsen, T. 2006. A characterization of DNA release in *Pseudomonas aeruginosa* cultures and biofilms. *Mol Microbiol*, 59: 1114-1128
- Ammendolia, M.G., Rosa, R.D., Montanaro, L., Arciola, C.R., Baldassarri, L. 1999. Slime production and expression of slime-associated antigen by staphylococcal clinical isolates. *J. Clin Microbiol*, 37: 3235-8.
- Antignac, A., Tomasz, A. 2009. Reconstruction of the phenotypes of methicillin resistant *Staphylococcus aureus* by replacement of the staphylococcal cassette chromosome mec with a plasmid-borne copy of *Staphylococcus sciuri* pbpD gene. *Antimicrob Agents Chemother.*, 53(2): 435-41.
- Applied Biosystems. 2008. *Guide to Performing Relative Quantitation of Gene Expression Using Real-Time Quantitative PCR*. Applied Biosystems, Foster City (CA). Hal. 43-59.
- Archer, N.K., Mazaitis, M.J., Costerton, J.W., Leid, J.G., Powers, M.E., Shirtliff, M.E. 2011. *Staphylococcus aureus* Biofilms Properties, Regulation and Roles in Human Disease. *Virulence*, 2(5): 445-459.
- Arciola, C.R., Baldassarri, L., Montanaro, L. 2001. Presence of *icaA* and *icaD* genes and slime production in a collection of staphylococcal strains from catheter-associated infections. *J. Clin Microbiol*, 39: 2151-2156.
- Arciola, C.R., Campoccia, D., Speziale, P., Montanaro, L., Costerton, J.W. 2012. Biofilm formation in *Staphylococcus* implant infections. A review of molecular mechanisms and implications for biofilm resistant. *Elsevier Biomaterial*, 33: 26.
- Arciola, C.R., Campoccia, D., Ehrlich, G.D., Montanaro, L. 2015. Biofilm-based implant infections in orthopaedics. *Springer International Publishing Switzerland*, 2: 29-46.
- Arora, R., Naresh, S.G., Sukhwinder, K., Ajai, D.J. 2011. Phytopharmacological evaluation of ethanolic extraction of the seed of *Abrus precatorius* Linn. *J Pharmacol Toxicol*, 6(6): 580-588.
- Atshan, S.S., Mariana, N.S., Leslie, T.T.L., Zamberi, S., Ehsanollah, G., Chong, P.P. 2012. Comparative characterisation of genotypically different clones of MRSA in the production of biofilm. *J. of Biomedicine and Biotechnology*, 2012:1-7.
- Backer, C.A., & Bakhuizen van den Brink, R.C. 1968. *Flora of Java II*. Wolter – Noordhoof N.V.-Groningen, Netherland. Hal.: 548-549.

- Balasundram, N.S., Kalyana, Samir, S. 2006. Phenolic compounds in plants and agri-industrial byproducts : Antioxidant activity, occurrence and potential uses. *Food Chemistry*, 99 : 191-203.
- Bartlett, J.M., Stirling, D. 2003. A short history of the polymerase chain reaction. *Methods Mol Biol.*, 226:3-6.
- Barraclough, T.G., Nee. 2001. Phylogenetics and speciation. *TRENDS in Ecology & Evolution*, 16 (7): 391-399.
- Barylko, F., Pikielna, E. 1978. Phenolic compounds of the mesocarp of cresthauen peaches during storage and ripening. *J. Food sci.*, 54 : 1259-1268.
- Boles, B.R., Thoendel, M., Roth, A.J., Horswill, A.R. 2010. Identification of genes involved in polysaccharide independent *Staphylococcus aureus* biofilm formation. *PLoS ONE*, 5(4): e10146.
- Boles, B.R., Horswill, A.R. 2011. Staphylococcal biofilm disassembly. *Trends Microbiol*, 19(9): 449–455.
- Brooks, G.F., Butel, J.S., Morse, S.A. 2005, *Jawetz, Melnick & Adelbergh's: Mikrobiologi Kedokteran*, edisi 1, (diterjemahkan oleh : Bagian Mikrobiologi FK UNAIR), Salemba Medika, Jakarta.
- Brooks, G.F., Carroll, K.C., Butel, J.S., Morse, S.A. 2007. *Jawetz, Melnick, Adellberg' : Medical Microbiology*, 24th edition. Mc Graw-Hill Campanies inc., United States of America. Hal. : 260-270.
- Brooks GF, Butel, JS, Morse, SA. 2008. *Jawetz, Melnick, & Adelberg's Mikrobiologi Kedokteran*, edisi 23. EGC, Jakarta. Hal. : 371-380.
- Brown, T.A. 2010. *Gene cloning and DNA analysis an introduction 6th Ed.* Wiley-Blackwell, USA. Hal. : 240-294.
- Cappuccino, J.G., Sherman, N. 2011. *Microbiology a Laboratory Manual*. Perason, Boston. Hal. : 94.
- Castaneda, A., Lourdes, P.H., Elena, P., Jose, A.R., Carlos, A.G-V. 2009. Chemical studies of anthocyanins: a review. *Food Chemistry*, 113(4): 859–871.
- Cha, J.D., Kim, Y.H. Kim, J.Y. 2010. Essential oil and 1,8-Cineole from *Artemisia lavandulaefolia* induces apoptosis in KB cells via mitochondrial stress and caspase activation. *Food Sci Biotechnol*, 19(1):185-191.
- Chambers, H.F. 2004. The Changing Epidemiology of *Staphylococcus aureus*. *CDC Past Issue*, 7(2):1-5

- Charlebois, E.D., Remington, F.P., Kreiswirth, B., Bangsberg, D.R., Ciccarone, D., Diep, B.A., Ng, V.L., Chansky, K., Edlin, B., Chambers, H.F. 2004. Origins of Community Strains of Methicillin-Resistant *Staphylococcus aureus*. *Clin.Infect Dis*, 39(1): 47-54.
- Chaudhari, K.S., Sharma, R., Pawar, P.S., Kashikar, V.A. 2012. Pharmacological Activities of *Abrus precatorius* Linn.–A Review. *International Journal of Ayurvedic and Herbal Medicine*, 2(2): 336–348.
- Chew, K.K., Khoo, M.Z., Ng, S.Y., Thoo, Y.Y., Wan Aida, W.M., Ho, C.W. 2011. Effect of ethanol concentration, extraction time and extraction temperature on the recovery of phenolic compounds and antioxidant capacity of Orthosiphon stamineus extracts. *International Food Research Journal*, 18(4): 1427-1435.
- CLSI. 2011. *Performance standards for antimicrobial susceptibility testing*. Clinical and Laboratory Standards Institute, Wayne. Hal. : 17-23.
- Clarridge, J.E. 2004. Impact of 16S rRNA gene sequence analysis for identification of bacteria on clinical microbiology and infections disease. *J. Clinical Microbiology Reviews*, 32 : 840-862.
- Cook, V. J., Christine, Y. T., Joyce, W., Ryan, P., Amin, K. 2003. Conventional methods versus 16s ribosomal DNA sequencing for identification of nontuberculous mycobacteria: cost analysis. *Journal of Clinical Microbiology*, 41 (3) : 1010–1015.
- Cos, P., Li Y., Calomme, M., Hu, J., Cimanga, K., Van Poel, B. 1998. Structure activity relationship and classification of flavonoids as inhibitors of xanthine oxsidase and superoxide scavengers. *Jou. Nat. Prod.*, 61: 71-76.
- Cramton, S.E., Ulrich, M., Gotz, F., Doring, G. 2001. Anaerobic conditions induce expression of polysaccharide intercellular adhesin in *Staphylococcus aureus* and *Staphylococcus epidermidis*. *Infect Immun.*, 69: 4079-4085.
- Crawford, S.E., David, M.Z., Glikman, D., King, K.J., Boyle-Vavra, S. 2009. Daum RS Clinical importance of purulence in methicillin-resistant *Staphylococcus aureus* skin and soft tissue infections. *J. Am Board Fam. Med.*, 22(6): 647-54.
- Cue, D., Lei, M.G., Luong, T.T., Kuechenmeister, L., Dunman, P.M., O'Donnell, S., Rowe, S., O'Gara, J.P., Lee, C.Y. 2009. Rbf promotes biofilm formation by *Staphylococcus aureus* via repression of *icaR*, a negative regulator of *icaADBC*. *J. Bacteriol*, 191: 6363-6373.
- Cushnie, T.P.T., Lamb, A.J. 2005. Antimicrobial activity of flavonoids. *International Journal of Antimicrobial Agents*, 26 (5) : 343-356.
- Dharmayanti, N.L.P.I. 2011. *Filogenetika Molekuler: Metode Taksonomi Organisme Berdasarkan Sejarah Evolusi*. Balai Besar Penelitian Veteriner, Bogor. Hal. : 1-10
- Dewick, P.M. 2002. *Medicinal natural products a biosynthetic approach*, second edition. John & Sons, New York. Hal. : 952-952.

- Dürig, A., Kouskoumvekaki, I., Vejborg, R.M., Klemm, P. 2010. Chemoinformatics-assisted development of new anti-biofilm compounds. *Appl Microbiol Biotechnol.*, 87: 309–317.
- Elmaniar, R., Muhtadi. 2017. Aktivitas penghambatan enzim α -Glukosidase oleh ekstrak etanol ubi jalar Ungu (*Ipomoea batatas* L.). *The 5th Urecol Proceeding*. Vol. : I (Farmasi). Yogyakarta (Indonesia). Hal : 825-831. ISBN: 978-979-3812-42-7.
- Ernawati, 1998, Uji daya hambat fraksi etil asetat ekstrak metanol daun saga (*Abrus precatorius* L.) terhadap pertumbuhan bakteri *Staphylococcus aureus* ATCC 25923, *Thesis*, Faculty of Pharmamacy, University of Surabaya Repository, Surabaya.
- Fardiaz, S. 2007. *Analisis Mikrobiologi Pangan*. Prasindo Persada, Jakarta. Hal. : 143-163.
- Fitzpatrick, F., Humphreys, H., O'Gara, J.P. 2005. The genetics of staphylococcal biofilm formation-will a greater understanding of pathogenesis lead to better management of device-related infection?. *Clin Microbiol Infect*, 11(12): 967-73.
- Fong, H.H.S. 1973. Phytochemical screening, dalam Malonean, M.H. and Laughlin, M.C (Ed): *Experiment in pharmaceutical biological science*, 43. University duplicating series, California.
- Fournier, B., Klier, A., Rapoport, G. 2001. The two-component system ArlS-ArlR is a regulator of virulence gene expression in *Staphylococcus aureus*. *Mol Microbiol*, 41: 247-61.
- Francois, P., Tu Quoc, P.H., Bisognano, C., Kelley, W.L., Lew, D.P., Schrenzel, J., Cramton, S.E., Gotz, F., Vandaux, P. 2003. Lack of biofilm contribution to bacterial colonisation in an experimental model of foreign body infection by *Staphylococcus aureus* and *Staphylococcus epidermidis*. *FEMS Immunol Med Microbiol*, 35: 135-40.
- Funatogawa, K., Hayashi, S., Shimomura, H., Yoshida, T., Hatano, T., Ito, H., Hirai, Y. 2004. Antibacterial activity of hydrolyzable tannins derived from medical plants against *Helicobacter pylori*. *Microbiol Immunol*, 48(4): 251-261.
- Gad, G.F.M., El-Feky, M.A., El-Rehewy, M.S., Hasan, M.A., Abolella, H., El-Baky, R.M.A. 2009. Detection of *icaA*, *icaD* genes and biofilm productions by *Staphylococcus aureus* and *Staphylococcus epidermidis* isolated from urinary tract catheterized patients. *J. Infect. Dev. Ctries*, 3(5): 342-351.
- Garaniya, Narendra, Atul, B. 2014. Ethno Botanical and Phytophrmacological Potential of *Abrus precatorius* L.: A Review. *Asian Pacific journal of tropical biomedicine*, 4(1): S27-34.
- Garibyan, L., Avashia, N. 2013. Research Techniques Made Simple: Polymerase Chain Reaction (PCR). *NIH Public Access*, 133(3) : e6.
- Gnanavel, V., Saral, A.M. 2013. GC-MS Analysis of Petroleum Ether and Ethanol Leaf Extracts from *Abrus precatorius* Linn. *International Journal of Pharma and Bio Sciences*, 3: 37–44.

- Gogte, V.M. 2000. *Ayurvedic pharmacology and therapeutic uses of medicinal plants (Dravyagunavignyam)*. Bharatiya Vidya Bhavan, India. Hal. : 600-601.
- Gonzales, J.M., Sais-Jimenez, C. 2005. Application of molecular nucleic acid-based techniques for the study of microbial communities in monuments and art works". *International Microbiology*, 8: 189 - 194.
- Gotz, F. 2002. *Staphylococcus* and biofilms. *Mol.Microbiol*, 43:1367-1378.
- Grunenwald, H. 2003. Optimization of polymerase chain reactions. *Methods Mol Biol*, 226: 89-100.
- Hallo Internis. 2011 Obat herbal: dari testimoni ke ilmiah 2011.Version: 24 Maret 2015. www.pbpapdi.org.ed.
- Harbone, J.B. 1996. *Metode fitokimia penuntun cara modern menganalisis tumbuhan*. ITB, Bandung. Hal. : 178-180.
- Hammad, A.M., Watanabe, W., Fujii, T., Shimamoto, T. 2012. Occurrence and characteristics of methicillin-resistant andsusceptible *Staphylococcus aureus* and methicillin-resistant coagulase-negative staphylococci from Japanese retail ready-toeat raw fish. *Int. J. Food Microbiol.*, 156(3): 286-289.
- Hendra, R., Ahmad, S., Sukari, A., Shukor, M.Y., Oskoueian, E. 2011. Flavonoid analyses and antimicrobial activity of various parts of *Phaleria macrocarpa* (Scheff.) Boerl fruit. *Int J Mol Sci.*, 12: 3422-3431.
- Heredia, T., Adams, D., Fields, K., Held, P., Harbertson, J. 2006. Evaluation of a comprehensive red wine phenolics assay using a microplate reader. *Am. J. Enol. Vit.*, 57(4): 497-502.
- Hoiby, N., Thomas, B., Michael, G., Soren, M., Oana, C. 2010. Antibiotic resistance of bacterial biofilms. *Int. J. Antimicrob Agents*, 35: 322-32.
- Hoiby, N., Bjarnsholt, T., Giuskov, M., Molin, S., Ciofu, O. 2011. Antibiotic resistance of bacterial biofilm. *J. Antimicrobial Agents*, 34 (4): 322-325.
- Hojo, K., Nagaoka, S., Ohshima, T., Maeda, T. 2009. Bacterial interactions in dental biofilm development. *J. Dent. Res.*, 88 (11) : 982-90.
- Holt, J.G., Krieg, N.R., Sneath, P.H.A., Staley, J.T., Wiliams, S.T. 2000. Bergey's *Manual of Determinative Bacteriology Ninth Edition*. Lippcont Williams & Wilkins, Philadelphia. Hal. : 562-570.
- Horne, K.C., Howden, B.P., Grabsch, E.A., Graham, M., Ward, P.B., Xie, S., Mayall, B.C., Johnson, P.D., Grayson, M.L. 2009. Prospective comparison of the clinical impacts of heterogeneous vancomycin-intermediate methicillin resistant *Staphylococcus aureus* (MRSA) and vancomycin-susceptible MRSA. *Antimicrob Agents Chemother*, 53(8): 3447-52.

- Houston, P., Rowe, S.E., Pozzi, C., Waters, E.M., O'Gara, J.P. 2011. Essential role for the major autolysin in the fibronectin-binding protein-mediated *Staphylococcus aureus* biofilm phenotype. *Infect Immun.*, 79: 1153-65
- Huseby, M.J., Kruse, A.C., Digre, J., Kohler, P.L., Vocke, J.A., Mann, E.E., Bayles, K.W., Bohach, G.A., Schlievert, P.M., Ohlendorf, D.H., Earhart, C.A. 2010. Beta toxin catalyzes formation of nucleoprotein matrix in staphylococcal biofilms. *Proc. Natl. Acad. Sci. U.S.A.*, 107: 14407–14412.
- Ibrahim, N. 1980. Phytochemical studies of *Abrus precatorius* alkaloids. *Herba Hung*, 19(3): 21-26.
- Indah, S.Y., Darwati. 2013. *Keajaiban Daun*. Tibun Media, Surabaya. Hal. : 86
- IUPAC. 2006. *Compendium of chemical terminology 2th edition*. Blackwell Scientific Publications, Oxford. Hal. : 1622.
- Inweregbu, K., Dave, J., Pittard, A. 2005. Nosocomial Infection. The Board of Management and Trustees of the British Journal of Anaesthesia, 5: 14-17.
- Izano, E.A., Amarante, M.A., Kher, W.B., Kaplan, J.B. 2008. Differential roles of poly-N-acetylglucosamine surface polysaccharide and extracellular DNA in *Staphylococcus aureus* and *Staphylococcus epidermidis* biofilms. *Appl Environ Microbiol*, 74(2):470–476.
- Jalalpoor, S. 2011. Study of the antibiotic resistance pattern among the bacterial isolated from the hospital environment of Azzahra hospital Isfahan Iran. *Afr. J. Microbiol. Res.*, 5(20): 3317-3320.
- Jawetz, E., Melnick, J.L., Adelberg, E.A. 2001. *Mikrobiologi Kedokteran*. Salemba Medica, Jakarta. Hal. : 317- 326.
- Jawetz, E., Melnick, J.L., Adelberg, E.A. 2005. *Mikrobiologi Kedokteran*. Salemba Medica, Jakarta. Hal. : 327- 336.
- Janda, J.M., Abbott, S.L. 2007. 16S rRNA Gene sequencing for bacterial identification in the diagnostic laboratory: pluses, perils, and pitfalls. *Journal of Clinical Microbiology*, 45(9) : 2761 - 2764.
- Jefferson, K.K., Cramton, S.E., Gotz, F., Pier, G.B. 2003. Identification of a 5-nucleotide sequence that controls expression of the *ica* locus in *Staphylococcus aureus* and characterization of the DNA-binding properties of *IcaR*. *Mol Microbiol*, 48:889-99
- Jefferson, K.K., Pier, D.B., Goldmann, D.A., Pier, G.B. 2004. The teicoplanin associated locus regulator (TcaR) and the intercellular adhesin locus regulator (*IcaR*) are transcriptional inhibitors of the *ica* locus in *Staphylococcus aureus*. *J. Bacteriol*, 186: 2449-56.

- Jones, D., Gorman, S., McCafferty, D.F., Wolfson, A.D. 1991. The effects of three non-antibiotic, antimicrobial, agents on the surface hydrophobicity of certain microorganism evaluated by difference methods. *J. Appl. Bacteriol.*, 71: 218-227
- Juniarti, Delvi, O., Yuhernita. 2009. Kandungan Senyawa Kimia, Uji Toksisitas (*Brine Shrimp Lethality Test*) dan antioksidan (*1,1-diphenyl-2-pikrilhydrazyl*) dari ekstrak daun saga (*Abrus precatorius* L.). *Makara, Sains*, 13(1): 50-54.
- Kadlec, K., Schwarz, S. 2009. Identification of a novel trimethoprim resistance gene, dfrK, in a methicillin-resistant *Staphylococcus aureus* ST398 strain and its physical linkage to the tetracycline resistance gene tet (L). *Antimicrob Agents Chemother.*, 53(2): 776-778.
- Karatan, E., Watnick, P. 2009. Signals, regulatory networks, and materials that build and break bacterial biofilms. *Microbiol Mol Biol Rev.*, 73(2): 310-347.
- Karauzum, H., Ferry, T., de Bentzmann, S., Lina, G., Bes, M., Vandenesch, F., Schmalter, M., Berger-Bachi, B., Etienne, J., Landmann, R. 2008. Comparison of adhesion and virulence of two predominant hospital-acquired methicillin resistant *Staphylococcus aureus* clones and clonal methicillin-susceptible *S. aureus* isolates. *Infect Immun.*, 76(11): 5133-5138.
- Katayama, Y., Zhang, H.Z., Henry, F.C. 2004. PBP 2a Mutations Producing Very-High-Level Resistance to Beta-Lactams. *Antimicrob Agents Chemother*, 48: 453-459.
- Khopkar, S.M. 2008. *Konsep Dasar Kimia Analitik*. UI Press, Jakarta. Hal.: 274-281.
- Kiem, S., Oh, W.S., Peck, K.R., Lee, N.Y., Lee, J.Y., Song, J.H., Hwang, E.S., Kim, E., Cha, C.Y., Choe, K. 2004. Phase variation of biofilm formation in *Staphylococcus aureus* by IS 256 insertion and its impact on the capacity adhering to polyurethane surface. *J. Korean Med. Sci.*, 19: 779-82.
- Krzsciak, W., Jurxzak, A., Koescielniak, D., Bystrowka, B., Skalniak, A. 2014. The virulence of *Streptococcus mutans* and the ability to form biofilms. *Eur. J. Clin. Microbiol Infect Dis.*, 33(4): 499 -515.
- Kumar, S., Pandey, A.K., 2013. Chemistry and biological activities of flavonoids: an overview. *Sci World J.*, 1-16.
- Kuźma, L., Różalski, M., Walencka, E., Różalska, B., Wysokińska, H. 2007. Antimicrobial activity of diterpenoids from hairy roots of *Salvia sclarea* L.: salvipisone as a potential antibiofilm agent active against antibiotic resistant staphylococci. *Phytomedicine*, 14: 31–35.
- Kwon, H.K., Hwang, J.S., Lee, C.G., Sahoo, A., Ryu, J.H., Jeon, W.K., Ko, B.S., Im, G.R., Lee, S.H., Park, Z.Y., Im, S.H. 2010. Cinnamon extract induces tumor cell death through inhibition of NF-B and AP 1. *J. BMC Cancer*, 10: 392.
- Larionov, A., Andreas, K., William, M. 2005. A standard curve based method for relative real time PCR data processing. *BMC Bioinformatics*, 6: 62.

- Lasa, I., Penades, J.R. 2006. Bap: a family of surface proteins involved in biofilm formation. *Res. Microbiol.*, 157: 99-107.
- Lee, J.H., Joo, H.P., Hyun, S.C., Sang, W. J., Moo, H.C, Jintae, L. 2013. Antibiofilm activities of quercetin and tannic acid against *Staphylococcus aureus*. *Biofouling: The Journal of Bioadhesion and Biofilm Research*, 29(5): 491- 499.
- Lenny, S. 2006. Isolasi dan uji bioaktivitas kandungan kimia utama puding merah dengan metode uji *brine shrimp*. USU Repository, Medan. Hal. : 7.
- Lewis, K. 2001. Riddle of biofilm resistance. *Antimicrob Agent Chemotherapy*, 45(4) : 999-1007.
- Li, H., Wang, Z., Liu, Y. 2003. Review in the studies on tannins activity of cancer prevention and anticancer. *Zhong-Yao-Cai*, 26(6): 444-448
- Li, X., Yan, Z., Xu, J. 2003. Quantitative Variation of Biofilms Among Strains in Natural Populations of *Candida albicans*. *Microbiology*, 149: 353-362.
- Lin, L.C., Yang, L.L., Chou, C.J. 2003. Cytotoxic naphtoquinones and plumbagin acid glucosides from *Plumbago zeylanica*. *Phytochemistry*, 62 :619-622.
- Lin, M.H., Chang, F.R., Hua, M.Y., Wu, Y.C., Liu, S.T. 2011. Inhibitory effects of 1,2,3,4,6-penta-O-galloyl-beta-D-glucopyranose on biofilm formation by *Staphylococcus aureus*. *Antimicrob Agents Chemother*, 55: 1021–1027.
- Liu, Y., He, Z., Apples, R., Xia, X. 2012. Functional markers in wheat : current status and future prospects. *Theor. Appl. Genet.*, (125)1: 1-10
- Livak, K.J., Schmittgen, T.D. 2001. Analysis of relative gene expression data using Real-Time Quantitative PCR and the 2- $\Delta\Delta CT$ method. *Methods*, 25: 402-408.
- Llarrull, L.I., Fisher, J.F., Mobashery, S. 2009. Molecular basis and phenotype of methicillin resistance in *Staphylococcus aureus* and insights into new beta-lactams that meet the challenge. *Antimicrob Agents Chemother*, 53(10): 4051-63.
- Lodish, H., Berk, A.S., Zipursky, L., Matsudaira, P., Baltimore, D., Darnell, J. 2000. *Molecular Cell Biology*. W.H. Freeman, New York. Hal. : 886-898
- Löffler, B., Hussain, M., Grundmeier, M., Brück, M., Holzinger, D., Varga, G., Roth, J., Kahl, B.C., Proctor, R.A., Peters, G. 2010. *Staphylococcus aureus* panton valentine leukocidin is a very potent cytotoxic factor for human neutrophils. *PLoS Pathog.*, 6(1): e1000715.
- Loresta, S., Sri, M., Pratiwi T. 2012. Efek Ekstra Etanol Daun Kelor (*Moringa oleifera*) terhadap pembentukan biofilm *Staphylococcus aureus* secara *in vitro*. Program Kedokteran Hewan, Universitas Brawijaya, 1-8.

Loughman, J.A., Fritz, S.A., Storch, G.A., Hunstad, D.A. 2009. Virulence gene expression in human community-acquired *Staphylococcus aureus* infection. *J. Infect Dis.*, 199(3): 294-301.

Ludwig, W., Klenk, H.P. 2001. Overview: A phylogenetic backbone and taxonomic framework for prokaryotic systematic, dalam Boone, Castenholz and Garrity (Ed): *Bergey's Manual of Systematic Bacteriology* seri dari *The archaea and the deeply branching and phototrophic bacteria*, 49-65. Springer, New York.

Mack, D., Fischer, W., Krokotsch, A., Leopold, K., Hartmann, R., Egge, H., Laufs, R. 1996. The intercellular adhesin involved in biofilm accumulation of *Staphylococcus epidermidis* is a linear beta-1,6-linked glucosaminoglycan: purification and structural analysis. *J. Bacteriol.*, 178(1): 175–183.

Madigan, M.T., Martinko, J.M., Brock, T.D. 2006. *Brock Biology of Microorganisme 11th Ed.* Pearson Prentice Hall, New Jersey. Hal. : 617-619.

Mah, T.F.C., O'Toole, G.A. 2001. Mechanism of Biofilm Resistance to Antimicrobiology Agent. *Trends in Microbiology*, 9(1).

Mahami, T., Adu-Gyamfi, A. 2011. Biofilm-associated infections: public health implications. *International Research Journal of Microbiology* (IRJM), 2(10): 375-381.

Maira-Litran, T., Kropec, A., Abeygunawardana, C., Joyce, J., Mark, G., 3rd, Goldmann, D.A., Pier, G.B. 2002. Immunochemical properties of the staphylococcal poly-N-acetylglucosamine surface polysaccharide. *Infect Immun.*, 70: 4433–4440.

Mann, E.E., Rice, K.C., Boles, B.R., Endres, J.L., Ranjit, D., Chandramohan, L., Tsang, L.H., Smeltzer, M.S., Horswill, A.R., Bayles, K.W. 2009. Modulation of eDNA release and degradation affects *Staphylococcus aureus* biofilm maturation. *PLoS ONE*, 4: e5822.

Manner, S., Malena, S., Darla, G., Pia, V., Adyary, F. 2013. Systematic Exploration of natural and synthetic flavonoids for the inhibition of *Staphylococcus aureus* biofilm. *Int. J. Mol. Sci.*, 14: 19434-19451.

Markham, K.R.1988. *Cara Mengidentifikasi Flavonoid*, (diterjemahkan oleh : Kosasih Padmawinata), ITB, Bandung.

Marks, D.B., Allan, D.M., Collen, M.S. 2000. *Biokimia Kedokteran Dasar Sebuah Pendekatan Klinis*. EGC, Jakarta. Hal. : 113-156.

Marti, M., Trotonda, M.P., Tormo-Mas, M.A., Vergara-Irigaray, M., Cheung, A.L., Las, I., Penades, J.R. 2010. Extracellular proteases inhibit protein-dependent biofilm formation in *Staphylococcus aureus*. *Microbes Infect.*, 12: 55–64.

Memmi, G., Filipe, S.R., Pinho, M.G., Fu, Z., Cheung, A. 2008. *Staphylococcus aureus* PBP4 is essential for beta-lactam resistance in community-acquired methicillin-resistant strains. *Antimicrob Agents Chemother*, 52(11): 3955-66.

- Mensah, A.Y., Bonsu, A.S., Fleischer, T.C. 2011. Investigation of the bronchodilator activity of *Abrus precatorius*. *Int. J. Pharmaceut Sci. Rev. Res.*, 6 (2) : 9.
- Merino, N., Toledo-Arana, A., Vergara-Irigaray, M., Valle, J., Solano, C., Calvo, E., Lopez, J.A., Foster, T.J., Penades, J.R., Lasa, I. 2009. Protein A-mediated multicellular behavior in *Staphylococcus aureus*. *J. Bacteriol.*, 191:832-43
- Merritt, J.H., Kadouri, D.E., O'Toole, G.A. 2011. *Growing and analyzing static biofilm*. Current protocols in microbiology, 22 :1B.1.1-1B.1.18.
- Mims, C., Dockrell, H.M., Goering, R.V., Roitt, I., Wakelin, D. 2008. *Medical Microbiology, Third Edition*. Mosby UK, England. Hal. : 208-312.
- Monroe, D. 2007. Looking for chinks in the armor of bacterial biofilms. *PlosBiol*, 5(11): 307.
- Montgomery, C.P., Daum, R.S. 2009. Transcription of inflammatory genes in the lung after infection with community-associated methicillin-resistant *Staphylococcus aureus*: a role for panton-valentine leukocidin?. *Infect Immun.*, 77(5): 2159-67.
- Moore, D.F., Zhouandai, M.H., Ferguson, D.M., McGee, C., Mott, J.B., Stewart, J.C. 2006. Comparison of 16S rRNA sequencing with conventional and commercial phenotypic techniques for identification of enterococci from the marine environment. *Journal of Applied Microbiology*, 100(6):1272–1281.
- Mulvey, M.R., Andrew, E.S. 2009. Antimicrobial resistance in hospital: How concerned should we be?. *Canadian Medical Association J.*, 180(4): 408-415.
- Muthia, A.B., Siti, A.D.T., Rio, D. 2014. Hubungan angka kejadian batu saluran kemih pada pasien rawat jalan Rumah Sakit Al-Islam Tahun 2014. *Prosiding pendidikan dokter*. Vol. : II (Pendidikan Dokter). Universitas Islam Bandung (Bandung). Hal.: 928-934. ISBN: 2460-657X.
- Mutmainnah, B., 2010, Uji aktivitas antibakteri dari asap cair sekam padi grade 1 terhadap beberapa bakteri pencemar pangan, *Skripsi*, Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Mataram, Mataram.
- Nagao, M., Okamoto, A., Yamada, K., Hasegawa, T., Hasegawa, Y., Ohta, M. 2009. Variations in amount of TSST-1 produced by clinical methicillin resistant *Staphylococcus aureus* (MRSA) isolates and allelic variation in accessory gene regulator (agr) locus. *BMC Microbiol.*, 10(9): 52.
- Naim, R. 2003. *Cara Kerja dan Mekanisme Resistensi Antibiotik*. Harian Kompas, Kompas Online.
- Narayanan, L.L., Vaishnavi, C. 2010. Endodontic microbiology. *J. Conserv Dent.*, 13 (4): 233-239.

Neiland, J.W, Svensater, G. 2007. Acid Tolerance Of *Streptococcus mutans*. *Applied and Environmental Microbiology*, 73(17): 5633–5638.

Nelson, D.L., Cox, M.M., Lehninger, A.L. 2008. *Principles of Biochemistry*, 4th ed. Freeman, New York. Hal. : 200-212.

Nuria, Maulita, C., Faizaitun, Arvin, Sumantri. 2009. Uji aktivitas antibakteri ekstrak etanol daun jarak pagar (*Jatropha curcas L.*) terhadap bakteri *Staphylococcus aureus* ATCC 25923, *Escherichia Coli* ATCC 25922, dan *Salmonella typhi* ATCC 1408. *Mediagro*, 5(2):26–37.

Nuryastuti, T, 2010, Environmental Signals Affecting ica-expression in *Staphylococcus epidermidis* Biofilm, *Thesis*, University Medical Center Groningen, University of Groningen, Netherlands.

O'Gara, J.P., Humphreys, H. 2001. *Staphylococcus epidermidis* biofilms importance and implications. *H. Med Microbiol*, 50: 582-87.

O'Gara, J.P. 2007. *Ica* and beyond: biofilm mechanisms and regulation in *Staphylococcus epidermidis* and *Staphylococcus aureus*. *FEMS Microbiol. Lett.*, 270: 179–188.

O'Neill, E., Pozzi, C., Houston, P., Smyth, D., Humphreys, H., Robinson, D.A., O'Gara, J.P. 2007. Association between methicillin susceptibility and biofilm regulation in *Staphylococcus aureus* isolates from device-related infections. *J. Clin Microbiol*, 45: 1379-88

O'Neill, E., Humphreys, H., O'Gara, J.P. 2009. Carriage of both the *fnbA* and *fnbB* genes and growth at 37 degrees C promote FnBP-mediated biofilm development in meticillin-resistant *Staphylococcus aureus* clinical isolates. *J Med Microbiol.*, 58(4): 399-402.

Pamp, S.J., Frees, D., Engelmann, S., Hecker, M., Ingmer, H. 2006. Spx is a global effector impacting stress tolerance and biofilm formation in *Staphylococcus aureus*. *J. Bacteriol*, 188: 4861-70.

Pané-Farré, J., Jonas, B., Forstner, K., Engelmann, S., Hecker, M. 2006. The sigma B regulation in *Staphylococcus aureus* and its regulation. *Int. J. Med. Microbiol*, 296: 237-58.

Pangastuti, A. 2006. Definisi spesies prokaryota berdasarkan urutan basa gen penyandi 16S rRNA dan gen penyandi protein. *Biodiversitas*, 7(3): 292-296

Parhusip, A. 2004. Pengaruh ekstrak Andaliman terhadap hidrofobisitas bakteri *B. cereus*, *S. aureus*, dan *S. thymurium*. *Jurnal Ilmu dan Teknologi Pangan*, 2(2) : 23-32.

Payne, D.E., Martin, N.R., Parzych, K.R., Rickard, A.H., Underwood, A., Boles, B.R. 2013. Tannic acid inhibits *Staphylococcus aureus* surface colonization in an *IsaA* dependent manner. *Infect Immun*, 81: 496–504.

- Peeter, L., Hans, J.N., Tom, C. 2008. Comparison of multiple methods for quantification of microbial biofilms grown in microtiter plates. *Journal of microbiological methods*, 72(2) :157-165.
- Pelczar, 2008. *Dasar-dasar mikrobiologi*. Universitas Indonesia Press., Jakarta. Hal. : 113-178.
- Pestana, E.A., Belak, S., Diallo, A., Crowther, J.R., Viljoen, G.J. 2010. *Early, rapid and sensitive veterinary molecular diagnostics-real time PCR applications*. Springer, Dordrecht (Netherland). Hal.: 234-286.
- Petti, C.A., Polage, C.R., Schreckenberger, P. 2005. The role of 16s rRNA gene sequencing in identification of microorganisms misidentified by conventional methods. *J. Clin Microbiol.*, 43(12): 6123 – 6125.
- Petti S., Scully, C. 2009. Polyphenols, oral health and disease: a review. *J Dent*, 37: 413-423.
- Plata, K., Rosato, A.E., Wegrzyn, G. 2009. *Staphylococcus aureus* as an infectious agent: overview of biochemistry and molecular genetics of its pathogenicity. *Acta Biochim Pol.*, 56(4): 597-612.
- Poedjiadi, A., Supriyanti, T.F.M. 2006. *Dasar-dasar Biokimia*. UI press, Jakarta. Hal. : 198-266.
- Poeloengen, M., Pratiwi. 2010. Uji Aktivitas Antibakteri Ekstrak Kulit Buah Manggis (*Garcinia mangostana* Linn.). *Media Litbang Kesehatan*, 20 (2): 66-67.
- Prakash, O., Verma, M., Sharma, P., Kumar, M., Kumari, K., Singh, A., Kumari, H., Jit, S., Gupta, S.K., Khanna, M., Lal, R. 2007. Polyphasic approach of bacterial classification-an overview of recent advances. *Indian J. Microbial*, 47: 98-108.
- Pratiwi, S.T. 2008. *Mikrobiologi Farmasi*. Erlangga, Jakarta. Hal.: 111-135.
- Pratiwi, I., 2009, Uji antibakteri ekstrak kasar daun *Acalyp handica* terhadap bakteri *Salmonella cholerasuis* dan *Salmonella typhimurium*, Skripsi, Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Negeri Surakarta, Surakarta.
- Prescott, L.M., Harley, J.P., Donald, A.K. 2003. *Microbiology Fifth Edition*. McGraw Hill, New York. Hal. : 126-139.
- Qiagen. 2010. *Critical Factors for Successful Real-Time PCR*. Qiagen, Germany (DE). Hal. : 64
- Quave, C.L., Estevez-Carmona, M., Compadre, C.M., Hobby, G., Hendrickson, H., Beenken, K.E., Smeltzer, M.S. 2012. Ellagic acid derivatives from *Rubus ulmifolius* inhibit *Staphylococcus aureus* biofilm formation and improve response to antibiotics. *PLoS ONE*. 7:e28737.

- Ragasa, C.Y., Lorena, G.S., Mandia, E.H., Raga, D.D., Shen, C.C. 2013. Chemical constituents of *Abrus precatorius*. *Am J Essent Oils Nat. Prod.*, 1(2): 7-10.
- Ramamoorthy, P.K., Bono, A. 2007. Antioxidant activity, total phenolic and flavonoid content of *Morinda citrifolia* fruit extracts from various extraction processes. *Journal of engineering science and technology*, 2 (1): 70-80.
- Razak, F.A., Othman, R.Y., Rahim, Z.H.A. 2006. The effect of *Piper betle* and *Psidium guajava* extracts on the cell-surface hydrophobicity of selected early settlers of dental plaque. *J Oral Sci*, 48(2): 71-5.
- Reddy,V.B.M., Reddy, K., Gunasekar, D., Murthy, M., Caux, C., Bodo, B. 2003. A new sesquiterpene lactone from *Bombax malabaricum*. *Chem Pharm Bull.*, 51: 458-459
- Rezanka, T., Cejkova, A., Masak, J. 2012. *Naturan Products: Strategic Tools for Modulation of Biofilm Formation*. Hal. : 269-303.
- Ribka, 2015, Efektivitas ekstrak daun saga terhadap bakteri *Staphylococcus aureus* secara in vitro, *Skripsi*, Fakultas Kedokteran Gigi, Universitas Hasanudin, Makasar.
- Rice, K.C., Mann, E.E., Endres, J.L., Weiss, E.C., Cassat, J.E., Smeltzer, M.S., Bayles, K.W. 2007. The *cida* murein hydrolase regulator contributes to DNA release and biofilm development in *Staphylococcus aureus*. *Proc. Natl. Acad. Sci. U.S.A.*, 104: 8113–8118.
- Rohde, H., Burandt, E.C., Siemssen, N., Frommelt, L., Burdelski, C., Wurster, S., Scherpe, S., Davies, A.P., Harris, L.G., Horstkotte, M.A., Knobloch, J.K., Ragunath, C., Kaplan, J.B., Mack, D. 2007. Polysaccharide intercellular adhesin or protein factors in biofilm accumulation of *Staphylococcus epidermidis* and *Staphylococcus aureus* isolated from prosthetic hip and knee joint infections. *Biomaterials*, 28: 1711–1720.
- Rohela, G.K., Saini, K., Surekha, M., Christopher, T. 2011. Screening of Secondary Metabolites and Antimicrobial Activity of *Mimosa pudica*. *Research Journal of Pharmaceutical, Biological and Chemical Science*, 2(3): 474-479.
- Rohrer, S., Bischoff, M., Rossi, J., Bachi, B.B. 2003. Mechanisms of methicillin resistance, dalam Fluit Ad C and Franz-Josef Schitz (ED): *MRSA: Current perspectives*, 31-54. Caister Academic Press, Norfolk England.
- Rosenberg, M., Gutnic, D., Rosenberg, E. 1980. Adherence of bacteria to hydrocarbons: a simple method for measuring cell-surface hydrophobicity. *FEMS Microbiol. Lett.*, 9: 29-33.
- Rosenberg, E., Sar, N. 1990. Changes in bacterial surface hydrophobicity during morphogenesis and differentiation, dalam Doyle, R.J. and M Rosenberg (Ed) : *Microbial Cell Surface Hydrophobicity*, 229-247. American Society for Microbiology, Washington D.C.
- Ryan, K.J., Ray, C.G. 2014. *Sherris Medical Microbiology Sixth Edition*. McGraw Hill, New York. Hal. : 304-367.

- Salasia, S.I.O., Zaini, K., Christoph, L., Michael, Z. 2004. Comparative studies on pheno- and genotypic properties of *Staphylococcus aureus*, isolated from bovine subclinical mastitis in Central Java, Indonesia and Hesse, Germany. *J. Vet. Res.*, 5(2): 103-109.
- Salasia, S.I.O., Wibowo, M.H., Husnan. 2005. Karakterisasi fenotipe *Staphylococcus aureus* isolat dari sampel susu sapi perah mastitis sub klinis. *Jurnal Sain Veteriner*, 23:72-78.
- Sanchez, I., Gomez-Garibay, F., Taboada, J., Ruiz, B.H. 2000. Antiviral effect of flavonoids on the dengue virus. *Phytother. Res.*, 14 : 89-92.
- Santos, Y., Bandin, I., Nicto, T.P., Bruno, D.W., Ellis, A.E., Taranzo, A.T. 1990. Proposed criteria of hydrophobicity, dalam Lee, K.K. and Yii, K.C. (Ed): *A Comparison of three methods for assaying hydrophobicity of pathogenic vibrios* seri dari *J. Letters Appl. Microbiol.*, 13: 343-346. Society For Applied Microbiology, Taiwan.
- Sarker, S.D., Latif, Z., Gray, A.I. 2006. *Natural products isolation*. Totowa (New Jersey), Humana Press Inc. Hal. : 6-18.
- Schmitz, F.J., Fluit, A.C., Hafner, D., Beeck, A., Perdikouli, M., Boos, M., Scheuring, S., Verhoef, J., Kohrer, K., Von Eiff, C. 2000. Development of resistance to ciprofloxacin, rifampin and mupirocin in methicillin susceptible and resistant *Staphylococcus aureus* isolate. *Antimicrob Agents Chemother*, 44: 3229-3231.
- Schwalbe, Richard, Steele-Moore, Lynn, Goodwin, A.C. 2007. *Antimicrobial susceptibility testing protocol*. CRC Press, USA. Hal. : 91-104.
- Shahat, A.A., Rasmeia, A.H., Naglaa, M.N., Sabine, V.M., Luc, P., Faiza, M.H., Arnold, J.V. 2003. Isolation of Mangiferin from *Bombax malabaricum* and Structure Revision of Shamimin. *Planta Med.*, 69 :1068-1070.
- Shipley, G.L. 2006. *An Introduction to real time PCR*. Taylor and Francis, Madison (US). Hal. : 1-29.
- Sila, J., Sauer, P., Kolar, M. 2009. Comparison of the prevalence of genes coding for enterotoxins, exfoliatins, panton-valentine leukocidin and Tsst-1 between methicillin-resistant and methicillin-susceptible isolates of *Staphylococcus aureus* at the university hospital in olomouc. *Biomed Pap. Med. Fac. Univ. Palacky Olomouc Czech Repub.*, 153(3): 215-8.
- Singleton, V.L., Orthofer, R., Lamuela-Raventos, R.M. 1999. Analysis of total phenols and other oxidation substrates and antioxidants by means of Folin-Ciocalteau reagent. *Methods in enzymology*, 299 : 152-178.
- Siregar, A.F., Agus, S., Delianis, P. 2012. Potensi Antibakteri Ekstrak Rumput Laut Terhadap Bakteri Penyakit Kulit *Pseudomonas aeruginosa*, *Staphylococcus epidermidis*, dan *Micrococcus luteus*. *Journal Of Marine Research*, 1(2):152-160.
- Ślesak, I., Halina, S., Paulina, Z-P., Piotr, R. 2016. Enzymatic Antioxidant Systems in

- Early Anaerobes: Theoretical Considerations. *Astrobiology*, 16(5): 348–358.
- Stackebrandt, E., Goebel, B. M. 1994. Taxonomic Note: A Place for DNA-DNA Reassociation and 16s rRNA Sequence Analysis in the Present Species Definition in Bacteriology. *International Journal of Systematic Bacteriology*, 846-849.
- Stenz, L., Francois, P., Fischer, A., Huyghe, A., Tangomo, M., Hernandez, D., Cassat, J., Linder, P., Schrenzel, J. 2008. Impact of oleic acid (cis-9-octadecenoic acid) on bacterial viability and biofilm production in *Staphylococcus aureus*. *FEMS Microbiol Lett.*, 287: 149–155.
- Sudarmadji, S., Haryono, B., Suhardi. 2007. *Analisa Bahan Makanan dan pertanian*. Liberty, Yogyakarta. Hal. : 93-94.
- Sufian, A.S., Ramasamy, K., Ahmat, N., Zakaria, Z.A., Yusof, M.I. 2013. Isolation and identification of antibacterial and cytotoxic compounds from the leaves of *Muntingia calabura* L. *J. Ethnopharmacol*, 146: 198-204.
- Sukandar, E. 2009. *Infeksi saluran kemih pasien dewasa*. Interna Publishing, Jakarta. Hal. : 1008-1015.
- Sumono, A., Wulan, A. 2008. The use of bay leaf (*Eugenia polyantha* Wight) in dentistry. *Dental Jurnal*, 41(3): 147- 150.
- Sujatno, A., Rohmad, S., Bandriyana, Arbi, D. 2015. Studi Scanning Electron Microscopy (SEM) Untuk Karakterisasi Proses Oxidasi Paduan Zirkonium. *Jurnal Forum Nuklir* (JFN), 9(2): 44-50.
- Sujit, K., Tanusri, B., Pramanik, S., Malakar, J., Gangopadhyay, A., Ghosh, A., Pramanik, G. 2012. Pharmacognostical studies and chromatographic evaluation of the different extracts of *Abrus precatorius* Linn. *Int J Pharmaceut Res Dev.*,4(03): 225-233.
- Sulistyaningsih, 2010, Uji kepekaan beberapa sediaan antiseptik terhadap bakteri *Staphylococcus aureus* dan *Methicillin Resistant Staphylococcus aureus* (MRSA), *Tesis*, Fakultas Farmasi, Universitas Padjajaran, Bandung.
- Suryani, Y., Astuti, Oktavia, B., Umniyati, S. 2010. Isolasi dan karakterisasi bakteri asam laktat dari limbah kotoran ayam sebagai agensi probiotik dan enzim kolesterol reduktase. *Prosiding Seminar Nasional Biologi*. Vol. : I (Pendidikan Biologi). Yogyakarta (Indonesia). Hal. : 138-147. ISBN: 978-602-97298-0-1.
- Tamura, K., Peterson, D., Peterson, N., Stecher, G., Nei, M., Kumar, S. 2011. MEGA5: Molecular Evolutionary Genetics Analysis using Likelihood, Distance, and Parsimony methods. *Molecular Biology and Evolution*, 28:2731-2739
- Theilacker, C., Sava, I., Sanchez-Carballo, P., Bao, Y., Kropec, A., Grohmann, E., Holst, O., Huebner, J. 2011. Deletion of the glycosyltransferase bgsB of *Enterococcus faecalis* leads to a complete loss of glycolipids from the cell membrane and to impaired biofilm formation. *BMC Microbiology*, 11-67.

- Thomer, L., Emolo, C., Thammavongsa, V., Kim, H.K., McAdow, M.E., Yu, W., Kieffer, M., Schneewind, O., Missiakas, D. 2016. Antibodies against a secreted product of *S. aureus* trigger phagocytic killing. *J. ExpMed.*, 213(3): 293–301.
- Toledo-Arana, A., Merino, N., Vergara-Irigaray, M., Debarbouille, M., Penades, J.R., Lasa, I. 2005. *Staphylococcus aureus* develops an alternative, ica-independent biofilm in the absence of the arlRS two-component system. *J. Bacteriol.*, 187: 5318–29.
- Toole, N.N., Viktor, L. 2014. Identifikasi dan Karakteristik *Staphylococcus Sp.* dan *Streptococcus Sp.* dari Infeksi Ovarium Pada Ayam Petelur Komersial (Identification and Characteristics of *Staphylococcus Sp.* and *Streptococcus Sp.* Infection of Ovary in Commercial Layers). *Jurnal Ilmu Ternak*, 1 (7): 32 – 37.
- Tursiman, Ardiningsih, P., Nofiani, R. 2012. Total fenol fraksi etil asetat dari buah asam kandis (*Garcinia dioica* Blume). *JKK*, 1(1): 45-48.
- Ulrich, M., Mike, B., Sarah, E.C., Katrin, Z., Alexa, A.P., Alessandra B., Guido, M., Christiane, W., Patrick, M.S., Ambrose, C., Gerd D. 2007. The staphylococcal respiratory response regulator SrrAB induces ica gene transcription and polysaccharide intercellular adhesin expression, protecting *Staphylococcus aureus* from neutrophil killing under anaerobic growth conditions. *Mol Microbiol*, 65: 1276–87
- Usha, H.L., Kaiwar, A., Depak, M. 2010. Biofilm In Endodontics : New Understanding To An Old Problem. *Int. Journal Contemporary Dentistry*, Dec., 1(3).
- Utama, IM., S., Ida, BP., G. 2000. Pengaruh Ethanol Terhadap Kesepatan Buah Salak. Jurusan Teknik Pertanian, Fakultas Teknologi Pertanian Universitas Udayana, 1-8.
- Vanassche, T., Peetermans, M., Van Aelst, L.N., Peetermans, W.E., Verhaegen, J., Missiakas, D.M., Schneewind, O., Hoylaerts, M.F., Verhamme, P. 2013. The role of staphylothrombin-mediated fibrin deposition in catheter-related *Staphylococcus aureus* infections. *J. Infect Dis.*, 208(1): 92–100.
- Vandamme, A. 2003. *Basic concepts of molecular evolution : a practical approach to DNA and protein phylogeny*. Cambridge University Press, Cambridge. Hal. : 1-23
- van Wamel, W.J., Rooijakkers, S.H., Ruyken, M., van Kessel, K.P., van Strijp, J.A., 2006. The innate immune modulators staphylococcal complement inhibitor and chemotaxis inhibitory protein of *Staphylococcus aureus* are located on beta-hemolysin-converting bacteriophages. *J. Bacteriol.*, 188:1310–1315.
- Waluyo, L. 2008. *Teknik dan Metode Dasar Dalam Mikrobiologi*. UMM Press., Malang. Hal. : 251-270
- Wang, H., Du, Y.J., Song, H.C. 2010. α Glucosidase and α -amylase inhibitory activities of guava leaves. *Food Chemistry*, 123: 6–13.
- Weaver, R.F. 2002. *Molecular Biology*. Mc Graw Hill Co., Inc. New York. Hal. : 213-278.

- Westgate, S.J., Percival, S.L., Clegg, P.D., Knottenbelt, D.C., Cochrane, C.A. 2011. Evidence and significance of biofilm in chronic wounds in horses dalam *Biofilm and Veterinary Medicine* seri dari *Springer Series on Biofilm*, 6: 143-173. Springer Nature, Switzerland.
- WHO, 2008. *Maintenance Manual for Laboratory Equipment 2th edition*. WHO Press, Geneva, Switzerland. Hal. : 1-5
- Widianto, E., Dian, B.S., Kardiman, Asep, E.N. 2020. Pemberdayaan Masyarakat tentang Pemanfaatan Tanaman Saga (*Abrus precatorius L.*) di Desa Tanahbaru Pakisjaya Karawang. *Aksiologiya*, 4(1): 63-69.
- Wisplinghoff, H., Tammy, B., Sandra, M.T., Haraid, S., Richard, P.W., Michael, B.E. 2004. Nocomial blood stream infections in US hospitals: Analysis of 24, 179 cases from a prospective nation wide surveillance study. *Clinical Infections Disease*, 39: 309-17.
- Wong, H., Louie, L., Watt, C., Sy, E., Lo, R.Y., Mulvey, M.R., Simor, A.E. 2009. Characterization of ermA in macrolide-susceptible strains of methicillin-resistant *Staphylococcus aureus*. *Antimicrob Agents Chemother*, 53(8): 3602-3603.
- Woose, C.R. 1987. Bacterial evolutions. *Microbiological reviews*, 51(2): 221-271.
- Xiao, Z., Wang, F., Yin, H., Sun, A., Li, C., Li, Q., Zhang, S. 2012. A new flavanone glucoside from *Abrus precatorius*. *Chemistry of Natural Compounds*, 48(4): 565-567.
- Xu, H. 2010. Inhibition kinetics of flavonoids on yeast α -Glucosidase merged with docking simulation. *Protein and Peptide Letters*, 17(10): 1270-1279.
- Yamanaka-Okada, A., Sato, E., Kouchi, T., Kimizuka, R., Kato, T., Okuda, K. 2008. Inhibitory effect of cranberry polyphenol on cariogenic bacteria. *Bull Tokyo Dent Coll*, 49(3): 107-112.
- Yasir, M., Willcox, M.D.P., Dutta, D. 2018. Action of Antimicrobial Peptides Against Bacterial Biofilms. *Materials*, 2018 (3): 1-15.
- Yazdani, R., Oshaghi, M., Havayi, A., Salehi, R., Sadeghizadeh, M., Foroohesh, H. 2006. Detection of *icaAD* gene and biofilm formation in *Staphylococcus aureus* isolates from wound infections. *Iranian J. Publ Health*, 35: 25-28.
- Yim, H.S., Chye, F.Y., Ho, S.K., Ho, C.W. 2009. Phenolic profiles of selected edible wild mushrooms as affected by extraction solvent, time and temperature. *Asian Journal of Food and Agro-Industry*, 2(3): 392- 401.
- Yuwono, T. 2005. *Biologi Molekuler*. Erlangga, Jakarta. Hal. : 135-136
- Yuwono, 2009, *Methicillin Resistant Staphylococcus aureus (MRSA)*, *Disertasi*, Fakultas Kedokteran, Universitas Padjajaran, Bandung.

Zanolí, P., Zavatti, M. 2008. Pharmacognostic and pharmacological profile of *Humulus lupulus* L. *J. Ethnopharmacol.*, 116: 383-396.

Zapotoczna, M., McCarthy, H., Rudkin, J.K., O'Gara, J.P., O'Neill, E. 2015. An essential role for coagulase in *Staphylococcus aureus* biofilm development reveals new therapeutic possibilities for device related infections. *J. Infect Dis.*, 212(12): 1883–1893.

LAMPIRAN