

DAFTAR PUSTAKA

- Aarestrup, F.M., Larsen, H.D., Eriksen, N.H., Elsberg, C.S. & Jensen, N.E. 1999. Frequency of alpha- and beta-haemolysin in *Staphylococcus aureus* of bovine and human origin. A comparison between pheno- and genotype and variation in phenotypic expression. *Acta Pathologica, Microbiologica et Immunologica Scandinavica* 107 425–430
- Akineden, O., Hassan, A.A., Schneider, E., & Usleber, E. 2011. A coagulase-negative variant of *Staphylococcus aureus* from bovine mastitis milk. *The Journal of dairy research*, 78(1), 38–42. <https://doi.org/10.1017/S0022029910000774>
- Al-Ajealy, B.A., Al-Shukri, M., Al-Jumaily, H.S. 2017. Detection of newly defined superantigenic toxin genes and coagulase gene polymorphism in *Staphylococcus aureus* isolates. *Reviews in medical microbiology : a journal of the Pathological Society of Great Britain and Ireland*, 28(4), 158–163. <https://doi.org/10.1097/MRM.0000000000000114>
- Al Obaid, Inaam, A., Udo, L.E., Jacob, M.J. 1999. Isolation and Characterization of Coagulase-Negative Methicilin Resistant *Staphylococcus aureus* from Patients in an Intensive Care Unit. *Med. Principles. Prac.* 8: 230-236.
- Anggraini, A.D., Khoendori, E.B., Pramono, H., Wahyono, D.J. 2017. Polymorphism analysis of the Coagulase Gene in Isolates of MethicillinResistant *Staphylococcus aureus* with AluI Restriction Sites. *Health Science Journal of Indonesia Vol. 8, No. 1, June 2017*.
- Antoniak, S. 2018. The coagulation system in host defense. *Res Pract Thromb Haemost.* 2018;2:549–557. wileyonlinelibrary.com/journal/rth2.
- Antoniak, S., & Mackman, N. 2014. Multiple roles of the coagulation protease cascade during virus infection. *Blood*, 123(17), 2605–2613. <https://doi.org/10.1182/blood-2013-09-526277>
- Arneth, B. 2019. Coevolution of the coagulation and immune systems. *Inflammation Research* (2019) 68:117–123. <https://doi.org/10.1007/s00011-018-01210-y>
- Asghar, F., Bano, A., Waheed, F., Anjum, A. A., Ejaz, H., Javed, N. 2023. Association of exogenous factors with molecular epidemiology of *Staphylococcus aureus* in human oral cavity. *Saudi Journal of Biological Sciences*. Volume 30, Issue 4. 103613. ISSN 1319-562X. <https://doi.org/10.1016/j.sjbs.2023.103613>.

- Aziz, F. 2013. Determinasi Genetik *Staphylococcus aureus* Sapi Perah di Baturaden dan Pengembangan Deteksi Stafilocokal Mastitis Langsung dari Susu Segar dengan *Polymerase Chain Reaction* (PCR). Tesis. Program Studi Bioteknologi. Sekolah Pascasarjana. Universitas Gadjah Mada.
- Aziz, F., Lestari, F.B., Nuraidah, S., Purwati, E., Salasia, S.I.O. 2016. Deteksi Gen Penyandi Sifat Resistensi Metisilin, Penisilin dan Tetrasiklin pada Isolat *Staphylococcus aureus* asal Susu Mastitis Subklinis Sapi Perah. *Jurnal Sain Veteriner* 34(1): 60 – 69.
- Badan Pengawas Obat dan Makanan (BPOM). 2020. Laporan Tahunan Pusat Data dan Informasi Obat dan Makanan Tahun 2019.
- Badan Pusat Statistik (BPS). 2023. Jumlah Penduduk Pertengahan Tahun (Ribuan), 2020-2022. <https://www.bps.go.id/indicator/12/1975/1/jumlah-penduduk-pertengahan-tahun.html>
- Berger, T., Eisenkraft, A., Bar-Haim, E., Kassirer, M., Aran, A. A., & Fogel, I. 2016. Toxins as biological weapons for terror-characteristics, challenges and medical countermeasures: a mini-review. *Disaster and military medicine*, 2, 7. <https://doi.org/10.1186/s40696-016-0017-4>
- Bonar, E., Jacek, M., Benedykt, W. 2018. Chapter 7: The Staphylococcal Coagulases. Pet-to-Man Travelling Staphylococci: A World in Progress. 2018 Elsevier Inc. *All rights reserved*.95-102
- Clarisse, T., Michèle, S., Olivier, T., Valerie, E., Vincent, L-M., Jacques-Antoine, H., Michel, G., & Florence, V. 2013. Detection and quantification of *Staphylococcal Enterotoxin A* in foods with specific and sensitive polyclonal antibodies. *Food Control, Elsevier*, 2013, 32 (1), pp.255 - 261.
- Cremonesi, P., Perez, G., Pisoni, G., Moroni, P., Morandi, S., Luzzana, M., Brasca, M., & Castiglioni, B. 2007. Detection of enterotoxigenic *Staphylococcus aureus* isolates in raw milk cheese. *Letters in applied microbiology*, 45(6), 586–591. <https://doi.org/10.1111/j.1472-765X.2007.02231.x>
- Costa RA, De Lira JV, Aragão MF. 2018. Biofilm-formation by drug-resistant *Staphylococcus aureus* from cow milk. *Journal of Consumer Protection and Food Safety* 14(1): 63–69.
- Couto, I., Pereira, S., Miragaia, M., Sanches, I.S., & de Lencastre, H. 2001. Identification of clinical staphylococcal isolates from humans by internal transcribed spacer PCR. *J. Clin. Microbiol.* 39 (9), 3099–3103.

- Cunha. 2018. Chapter 6 - Methods for the Identification, Characterization, and Tracking the Spread of *Staphylococcus aureus*, Editor(s): Alexandra Fetsch, *Staphylococcus aureus*. Academic Press. p 112
<https://doi.org/10.1016/B978-0-12-809671-0.00006-1>.
- Dai, J., Wu, S., Huang, J., Wu, Q., Zhang, F., Zhang, J., Wu H. 2019. Prevalence and Characterization of *Staphylococcus aureus* Isolated from Pasteurized Milk in China. *Frontiers in Microbiology* 10: 1–10.
- Dallal, M.M.S., Khoramizadeh, M.R., Amiri, S.A., Yaraghi, A.A.S., Fard, R.M.N. 2016. Coagulase gene polymorphism of *Staphylococcus aureus* isolates: A study on dairy food products and other foods in Tehran, Iran. *Food Science and Human Wellness, Volume 5, Issue 4, 2016, Pages 186-190, ISSN 2213-4530*.
- Dinges, M.M., Orwin, P.M., & Schlievert, P.M. 2000. Exotoxins of *Staphylococcus aureus*. *Clinical microbiology reviews*, 13(1), 16–34.
<https://doi.org/10.1128/CMR.13.1.16>
- Direktorat Jenderal Peternakan dan Kesehatan Hewan (Dirjen PKH). 2022. Statistik Peternakan Dan Kesehatan Hewan 2021. Kementerian Pertanian Republik Indonesia.
- Drake, T.A., Morrissey, J.H., & Edgington, T.S. 1989. Selective cellular expression of tissue factor in human tissues. Implications for disorders of hemostasis and thrombosis. *The American journal of pathology*, 134(5), 1087–1097.
- Duthie, E.S. 1954. Evidence for two forms of staphylococcal coagulase. *Journal of general microbiology*, 10(3), 427–436.
<https://doi.org/10.1099/00221287-10-3-427>
- EFSA and ECDC (European Food Safety Authority and European Centre for Disease Prevention and Control). 2022. The European Union One Health 2021 Zoonoses Report. *EFSA Journal* 2022; 20(12):7666, 273 pp. <https://doi.org/10.2903/j.efsa.2022.7666>
- European Food Safety Authority (EFSA). 2021. The European Union One Health 2019 Zoonoses Report. doi: 10.2903/j.efsa.2021.6406.
- Ezzeldeen, N.A., Mansour, H.A., & Ahmed, A.A. 2011. Phenotypic and Molecular Identification of *Staphylococcus aureus* Isolated from Some Egyptian Salted Fish. *Word Appl. Sci. J.* 15(12): 1703-1712.
- Fisher, E., Otto, M., Cheung, G. 2018. Basis of virulence in *Enterotoxin*-mediated staphylococcal food poisoning. *Front. Microbiol.* 9, 436.

- Fitzgerald, J.R., Reid, S.D., Ruotsalainen, E., Tripp, T.J., Liu, M.Y., Cole, R., Kuusela, P., Schlievert, P.M., Järvinen, A., & Musser, J.M. 2003. Genome diversification in *Staphylococcus aureus*: Molecular evolution of a highly variable chromosomal region encoding the staphylococcal exotoxin-like family of proteins. *Infection and Immunity* 71 (5): 2827–2838. <https://doi.org/10.1128/iai.71.5.2827-2838.2003>.
- Fitrandi, M. 2023. Deteksi Multi-Drug Resistant (MDR) *Staphylococcus aureus* dari Kasus Medik Veteriner dan Manusia di Yogyakarta Berdasar Analisis Genomik Gen Resisten Berbagai Antibiotika. Tesis. Program Studi Sains Veteriner. Sekolah Pascasarjana. Universitas Gadjah Mada.
- Foster, T.J. & Geoghegan, J.A. 2015. Chapter 37: *Staphylococcus aureus*. In: Tang, Y.W., Sussman, M., Liu, D., Poxton, I. and Schwartzman, J., editors. *Molecular Medical Microbiology*. 2nd ed. Academic Press, Boston. p655-674.
- Friedrich, R., Panizzi, P., Fuentes-Prior, P., Richter, K., Verhamme, I., Anderson, P.J., Kawabata, S., Huber, R., Bode, W., & Bock, P.E. 2003. Staphylocoagulase is a prototype for the mechanism of cofactor-induced zymogen activation. *Nature*, 425(6957), 535–539. <https://doi.org/10.1038/nature01962>
- Gaertner, F., & Massberg, S. 2016. Blood coagulation in immunothrombosis-At the frontline of intravascular immunity. *Seminars in immunology*, 28(6), 561–569. <https://doi.org/10.1016/j.smim.2016.10.010>
- Gharib, A.A., Adel A.M.A., & Bendary, M.M. 2013. Detection of the Coa Gene in the *Staphylococcus aureus* from Different Sources by Polymerase Chain Reaction. *Intl. J. Microbiol. Res.* 4 (1): 37-42.
- Gnanamani, A., Hariharan, P., Paul-Satyaseela, M. 2017. *Staphylococcus aureus*: Overview of Bacteriology, Clinical Diseases, Epidemiology, Antibiotic Resistance and Therapeutic Approach. In S. Enany, & L. E. C. Alexander (Eds.), *Frontiers in Staphylococcus aureus*. IntechOpen. <https://doi.org/10.5772/67338>
- Green, M.R., & Sambrook, J. 2019. Polymerase chain reaction. *Cold Spring Harb Protoc*; doi:10.1101/pdb.top095109
- Grover, S.P., & Mackman, N. 2018. Tissue Factor: An Essential Mediator of Hemostasis and Trigger of Thrombosis. *Arteriosclerosis, thrombosis, and vascular biology*, 38(4), 709–725. <https://doi.org/10.1161/ATVBAHA.117.309846>
- Guidi, F., Duranti, A., Gallina, S., Nia, Y., Petruzzelli, A., Romano, A., Travaglini, V., Olivastri, A., Calvaresi, V., Decastelli, L., Blasi, G. 2018.

Characterization of a Staphylococcal Food Poisoning Outbreak in a Workplace Canteen during the Post-Earthquake Reconstruction of Central Italy. *Toxins* 2018, 10, 523.

Guillier, L., Bergis, H., Guillier, F., Noel, V., Auvray, F., Hennekinne, J-A. 2016. Dose-response Modelling of *Staphylococcal Enterotoxins* Using Outbreak Data. *Procedia Food Science* 7 (2016) 129 – 132.

Gulzar, M., Zehra, A. 2018. *Staphylococcus aureus*: A brief review. *Int J Vet Sci Res* 4(1): 020-022. DOI: <http://dx.doi.org/10.17352/ijvsr.000031>

Günther, S., Varma, A.K., Moza, B., Kasper, K.J., Wyatt, A.W., Zhu, P., Rahman, A.K.M.N.U., Li, Y.L., Mariuzza, R.A., McCormick, J.K., & Sundberg, E.J. 2007. A novel loop domain in superantigens extends their T cell receptor recognition site. *Journal of Molecular Biology* 371 (1): 210–221. <https://doi.org/10.1016/j.jmb.2007.05.038>.

Hamidi, R.M., Hosseinzadeh, S., Shekarforoush, S.S., Poormontaseri, M., Derakhshandeh, A. 2015. Association between the *Enterotoxin* production and presence of Coa, Nuc genes among *Staphylococcus aureus* isolated from various sources, in Shiraz. *Iranian journal of veterinary research*, 16(4), 381–384.

Harley, J.P., & Prescott, L.M. 2002. *Laboratory Exercises in Microbiology*. 5th Edition, The McGraw-Hill Companies. p 334

Hayu, R.E. 2018. Kontaminasi Bakteri *Staphylococcus* Sp pada Kejadian Luar Biasa Keracunan Makanan di Dusun Sawangan Kabupaten Magelang Jawa Tengah Indonesia. *Al Tamimi Kesmas / Vol. 7, No. 2, Tahun 2018*

Hennekinne, J. A., De Buyser, M. L., & Dragacci, S.. 2012. *Staphylococcus aureus* and its food poisoning toxins: characterization and outbreak investigation. *FEMS Microbiol. Rev.* 36(4):815–836. <https://doi.org/10.1111/j.1574-6976.2011.00311.x>

Hirose, M., Kobayashi, N., Ghosh, S., Paul, S. K., Shen, T., Urushibara, N., Kawaguchiya, M., Shinagawa, M., & Watanabe, N. 2010. Identification of staphylocoagulase genotypes I-X and discrimination of type IV and V subtypes by multiplex PCR assay for clinical isolates of *Staphylococcus aureus*. *Japanese journal of infectious diseases*, 63(4), 257–263.

Hirose, M., Aung, M. S., Fukuda, A., Murata, Y., Saitoh, M., & Kobayashi, N. 2019. Prevalence and Genetic Characteristics of Methicillin-Resistant *Staphylococcus aureus* and Coagulase-Negative Staphylococci Isolated from Oral Cavity of Healthy Children in Japan. *Microbial drug*

- resistance (Larchmont, N.Y.), 25(3), 400–407.
<https://doi.org/10.1089/mdr.2018.0333>
- Hoffman, M., Colina, C.M., McDonald, A.G., Arepally, G.M., Pedersen, L., & Monroe, D.M. 2007. Tissue factor around dermal vessels has bound factor VII in the absence of injury. *Journal of thrombosis and haemostasis : JTH*, 5(7), 1403–1408. <https://doi.org/10.1111/j.1538-7836.2007.02576.x>
- Hu, D.L., Li, S., Fang, R., & Ono, H.K. 2021. Update on molecular diversity and multipathogenicity of staphylococcal superantigen toxins. *Animal Diseases* 1, 7 (2021). <https://doi.org/10.1186/s44149-021-00007-7>
- Javid, F., Taku, A., Bhat, M.A., Badroo, G.A., Mudasir, M., & Sofi, T.A. 2018. Molecular typing of *Staphylococcus aureus* based on coagulase gene. *Veterinary world*, 11(4), 423–430. <https://doi.org/10.14202/vetworld.2018.423-430>
- Johler, S., Giannini, P., Jermini, M., Hummerjohann, J., Baumgartner, A., & Stephan, R. 2015. Further Evidence for Staphylococcal Food Poisoning Outbreaks Caused by egc-Encoded Enterotoxins. *Toxins* 2015, 7, 997–1004. <https://doi.org/10.3390/toxins7030997>
- Johler, S., Macori, G., Bellio, A., Acutis, P. L., Gallina, S., & Decastelli, L. 2018. Short communication: characterization of *Staphylococcus aureus* isolated along the raw milk cheese production process in artisan dairies in Italy. *J. Dairy Sci.* 101(4), 2915–2920. <https://doi.org/10.3168/jds.2017-13815>
- Katsuda, K., Hata, E., Kobayashi, H., Kohmoto, M., Kawashima, K., Tsunemitsu, H., & Eguchi, M. 2005. Molecular typing of *Staphylococcus aureus* isolated from bovine mastitic milk on the basis of toxin genes and coagulase gene polymorphisms. *Veterinary microbiology*, 105(3-4), 301–305. <https://doi.org/10.1016/j.vetmic.2004.12.004>
- Khairullah, A.R., Kurniawan, S.C., Sudjarwo, S.A., Effendi, M.H., Afrani, D.A., Silaen, O.S.M., Putra, G.D.S., Riwu, K.H.P., Widodo, A., & Ramandinianto, S.C. 2023. Detection of multidrug-resistant *Staphylococcus aureus* and coagulase-negative staphylococci in cow milk and hands of farmers in East Java, Indonesia. *Biodiversitas*, 24(1), 658–664. <https://doi.org/10.13057/biodiv/d240174>
- Kinoshita, M., Kobayashi, N., Nagashima, S., Ishino, M., Otokozawa, S., Mise, K., Sumi, A., Tsutsumi, H., Uehara, N., Watanabe, N., & Endo, M. 2008. Diversity of staphylocoagulase and identification of novel variants of staphylocoagulase gene in *Staphylococcus aureus*. *Microbiology and*

immunology, 52(7), 334–348. <https://doi.org/10.1111/j.1348-0421.2008.00045.x>

Kloos, W.E., Bannerman, T.L. 1995. *Staphylococcus* and *micrococcus*; in Murray, P.R., Baron, E.J., Pfaller, M.A., Tenover, F.A., Tenover, R.H. (eds): *Manual of Clinical Microbiology*, ed 6. Washington, American Society for Microbiology, 1995, pp 282–290.

Larasati, S., Windria, S., Cahyadi, A. 2020. Kajian Pustaka: Faktor-Faktor Virulensi *Staphylococcus aureus* yang Berperan Penting dalam Kejadian Mastitis pada Sapi Perah. *Indonesia Medicus Veterinus*, , 984–999. doi:10.19087/imv.2020.9.6.984

Luijendijk, A., van Belkum, A., Verbrugh, H., & Kluytmans, J. 1996. Comparison of five tests for identification of *Staphylococcus aureus* from clinical samples. *Journal of clinical microbiology*, 34(9), 2267–2269. <https://doi.org/10.1128/jcm.34.9.2267-2269.1996>

Li, S., Wang, P., Zhao, J., Zhou, L., Zhang, P., Fu, C., Meng, J., & Wang, X. 2018. Characterization of Toxin Genes and Antimicrobial Susceptibility of *Staphylococcus aureus* from Retail Raw Chicken Meat. *Journal of food protection*, 81(4), 528–533. <https://doi.org/10.4315/0362-028X.JFP-17-309>

Loeb, L. 1903. The Influence of certain Bacteria on the Coagulation of the Blood. *The Journal of medical research*, 10(3), 407–419.

Long, A.T., Kenne, E., Jung, R., Fuchs, T.A., & Renné, T. 2016. Contact system revisited: an interface between inflammation, coagulation, and innate immunity. *Journal of thrombosis and haemostasis : JTH*, 14(3), 427–437. <https://doi.org/10.1111/jth.13235>

Lu, G., Broze, G.J., Jr, & Krishnaswamy, S. 2004. Formation of factors IXa and Xa by the extrinsic pathway: differential regulation by tissue factor pathway inhibitor and antithrombin III. *The Journal of biological chemistry*, 279(17), 17241–17249. <https://doi.org/10.1074/jbc.M312827200>

Maas, C., & Renné, T. 2018. Coagulation factor XII in thrombosis and inflammation. *Blood*, 131(17), 1903–1909. <https://doi.org/10.1182/blood-2017-04-569111>

Maas, C., Oschatz, C., & Renné, T. 2011. The plasma contact system 2.0. *Seminars in thrombosis and hemostasis*, 37(4), 375–381. <https://doi.org/10.1055/s-0031-1276586>

- Mackay, A.D., Quick, A., Gillespie, S.H., Kibbler, C.C. 1993. Coagulase-negative methicillin-resistant *Staphylococcus aureus* infection. *Lancet* 1993;342:492.
- Mahmoudi, H., Arabestani, M.R., Mousavi, S.F., Alikhani, M.Y. 2017. Molecular analysis of the coagulase gene in clinical and nasal carrier isolates of methicillin-resistant *Staphylococcus aureus* by restriction fragment length polymorphism. *Journal of Global Antimicrobial Resistance*. 2017;8:41-45.
- Malinowski, E., Lassa, H., Klossowska, A., Smulski, S & Kaczmarowski, M. 2009. Atypical *Staphylococcus aureus* as an aetiological agent of mastitis in cows. *Bulletin of the Veterinary Institute in Pulawy* 53 383–387
- Mary, C.C., Chukwudi, E.E., Adele, D.J., Collete, N.O.R., Christian, A.Y., Eghosa, O.E., Ifenweoge, D-N.E. 2023. Causes of Bacterial and Fungal External Eye Infections and Their Antibiotic Susceptibility Patterns Among Children in Owerri, Imo State, Nigeria. *International Journal of Health Sciences and Research* Vol.13; Issue: 3; March 2023. ISSN: 2249-957. <https://doi.org/10.52403/ijhsr.20230329>
- Matthews, K.R., Roberson, J., Gillespie, B.E., Luther, D.A., & Oliver, S.P. 1997. Identification and Differentiation of Coagulase-Negative *Staphylococcus aureus* by Polymerase Chain Reaction. *Journal of food protection*, 60(6), 686–688. <https://doi.org/10.4315/0362-028X-60.6.686>
- McAdow, M., Missiakas, D.M., Schneewind, O. 2012a. *Staphylococcus aureus* secretes coagulase and von Willebrand factor binding protein to modify the coagulation cascade and establish host infections. *Journal of innate immunity*, 4(2), 141–148. <https://doi.org/10.1159/000333447>
- McAdow, M., Andrea, C.D., Carla, E., Alice, G.C., Barry, N.K., Dominique M.M., Olaf, S. 2012b. Coagulases as determinants of protective immune responses against *Staphylococcus aureus*. *Infect Immun* 2012;80:3389–98.
- McCuskey, R., Urbaschek, R., & Urbaschek, B. 1996. The microcirculation during endotoxemia. *Cardiovasc Res*. 32:752-763.
- McHugh, A.J., Feehily, C., Hill, C., & Cotter, P.D. 2017. Detection and enumeration of spore-forming bacteria in powdered dairy products. *Front. Microbiol.* 8:109. <https://doi.org/10.3389/fmicb.2017.00109>

- Merz, A., Roger, S., Sophia, J. 2016. *Staphylococcus aureus* Isolates from goat and sheep milk seem to be closely related and differ from isolates detected from bovine milk. *Front. Microbiol.* 7:319
- Mir, B.L. & Srikanth. 2013. Prevalence and Antimicrobial Susceptibility of Methicillin Resistant *Staphylococcus aureus* and Coagulase-Negative Staphylococci in a Tertiary Care Hospital. *Asian J. Pharmaceut. Clin. Res.* 6 (3): 231-234.
- Moon, J.S., Lee, A.R., Kang, H.M., Lee, E.S., Joo, Y.S., Park, Y.H., Kim, M.N., & Koo, H.C. 2007. Antibigram and coagulase diversity in staphylococcal enterotoxin-producing *Staphylococcus aureus* from bovine mastitis. *Journal of dairy science*, 90(4), 1716–1724. <https://doi.org/10.3168/jds.2006-512>
- Musher, D.M., Baughn, R.E., Templeton, G.B., & Minuth, J.N. 1977. Emergence of variant forms of *Staphylococcus aureus* after exposure to gentamicin and infectivity of the variants in experimental animals. *The Journal of infectious diseases*, 136(3), 360–369. <https://doi.org/10.1093/infdis/136.3.360>
- Nashev, D., Toshkova, K., Salasia, S.I.O., Hassan, A.A., Lämmler., C., Zschöck. 2004. Distribution of virulence genes of *Staphylococcus aureus* isolated from stable nasal carriers. *FEMS Microbiol. Letters.* 233, 45-52.
- Notarnicola, S.M., Zamarchi, G.R., & Onderdonk A.B. 1985. Misidentification of mucoid variants of *Staphylococcus aureus* by standard laboratory techniques. *Journal of Clinical Microbiology* 22 459–461
- Nuraisyah, F. 2019. Penyelidikan KLB Keracunan Makanan di Desa Banjaroyo Kabupaten Kulon Progo. *JURNAL MKMI*, Vol. 15 No. 4, Desember 2019
- Oliveira, D., Borges, A., & Simões, M. 2018. *Staphylococcus aureus* Toxins and Their Molecular Activity in Infectious Diseases. *Toxins*, 10(6), 252. <https://doi.org/10.3390/toxins10060252>
- Omoe, K., Dong-Liang, H., Hiromi, T-O., Akio, N., Kunihiro, S. 2005. Comprehensive analysis of classical and newly described staphylococcal superantigenic toxin genes in *Staphylococcus aureus* isolates. *FEMS Microbiology Letters* 246 (2005) 191–198
- Ono, H.K., Hirose, S., Naito, I., Sato'o, Y., Asano, K., Hu, D.-L., Omoe, K., Nakane, A. 2017. The emetic activity of *Staphylococcal Enterotoxins*, SEK, SEL, SEM, SEN and SEO in a small emetic animal model, the house musk shrew. *Microbiol Immunol* 2017; 61: 12–16

- Panizzi, P., Friedrich, R., Fuentes-Prior, P., Richter, K., Bock, P.E., & Bode, W. 2006. Fibrinogen substrate recognition by staphylocoagulase (pro) thrombin complexes. *The Journal of biological chemistry*, 281(2), 1179–1187. <https://doi.org/10.1074/jbc.M507956200>
- Pérez, V.K.C., Costa, G.M.D., Guimarães, A.S., Heinemann, M.B., Lage, A.P., Dorneles, E.M.S., 2020. Relationship between virulence factors and antimicrobial resistance in *Staphylococcus aureus* from bovine mastitis. *J. Glob. Antimicrob. Resist.* 22, 792–802.
- Pinchuk, I.V., Beswick, E.J., & Reyes, V.E. 2010. *Staphylococcal Enterotoxins*. *Toxins*. 2010; 2(8):2177-2197. <https://doi.org/10.3390/toxins2082177>
- Piva, S., Mariella, J., Cricca, M., Giacometti, F., Brunetti, B., Mondo, E., Castelli, L.D., Romano, A., Ferrero, I., Ambretti, S., Roccaro, M., Merialdi, G., Scagliarini, A., Serraino, A. & Peli, A. 2021. Epidemiologic case investigation on the zoonotic transmission of *Staphylococcus aureus* infection from goat to veterinarians. *Zoonoses Public Health*. 2021; 68: 684– 690. <https://doi.org/10.1111/zph.12836>
- Rasheed, N.A., Hussein, N.R. 2021. *Staphylococcus aureus*: An Overview of Discovery, Characteristics, Epidemiology, Virulence Factors and Antimicrobial Sensitivity . *European Journal of Molecular & Clinical Medicine*, 8, 3, 2021, 1160-1183.
- Sakai, F., Atsuhiko, T., Shinya, W., Kenji, A., Tatsuro, O., Shuichi, Y., Hideo, I., Shunji, K., Keiichi, H., Teruyo, I. 2008. Multiplex PCRs for assignment of Staphylocoagulase types and subtypes of type VI Staphylocoagulase. *Journal of Microbiological Methods* 75 (2008) 312–317
- Salasia, S. I., Tato, S., Sugiyono, N., Ariyanti, D., & Prabawati, F. 2011. Genotypic characterization of *Staphylococcus aureus* isolated from bovines, humans, and food in Indonesia. *Journal of veterinary science*, 12(4), 353–361. <https://doi.org/10.4142/jvs.2011.12.4.353>
- Salasia, S.I.O., Khusnan, Lammer, C., & Zshock, M. 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. Sci.* 5 (2): 103-109.
- Schlievert, P.M., McCormick, J.K., Bohach, G.A., & Ohlendorf, D.H. 2009. Exotoxins. In *Staphylococci in Human Disease* (eds K.B. Crossley, K.K. Jefferson, G.L. Archer and V.G. Fowler). <https://doi.org/10.1002/9781444308464.ch6>

- Schmid, D., Fretz, R., Winter, P., Mann, M., Höger, G., Stöger, A., Ruppitsch, W., Ladstätter, J., Mayer, N., de Martin, A., & Allerberger, F. 2009. Outbreak of staphylococcal food intoxication after consumption of pasteurized milk products, June 2007, Austria. *Wien Klin. Wochenschr.* 121:125–131. <https://doi.org/10.1007/s00508-008-1132-0>
- Sharma, V., Sharma, S., Dahiya, D.K., Khan, A., Mathur, M., Sharma, A. 2017. Coagulase gene polymorphism, enterotoxigenicity, biofilm production, and antibiotic resistance in *Staphylococcus aureus* isolated from bovine raw milk in North West India. *Annals of clinical microbiology and antimicrobials*, 16(1), 65. <https://doi.org/10.1186/s12941-017-0242-9>
- Shimizu, A., Fujita, M., Igarashi, H., Takagi, M., Nagase, N., Sasaki, A., & Kawano, J. 2000. Characterization of *Staphylococcus aureus* coagulase type VII isolates from staphylococcal food poisoning outbreaks (1980-1995) in Tokyo, Japan, by pulsed-field gel electrophoresis. *Journal of clinical microbiology*, 38(10), 3746–3749. <https://doi.org/10.1128/JCM.38.10.3746-3749.2000>
- Smyth, E.G., Wright, E.D., Marples, R.R. 1988. New type of staphylococcal endocarditis. *J Clin Pathol* 1988;41:809–10.
- Soff, G.A. 2012. A new generation of oral direct anticoagulants. *Arteriosclerosis, thrombosis, and vascular biology*, 32(3), 569–574. <https://doi.org/10.1161/ATVBAHA.111.242834>
- Spaulding, A.R., Salgado-Pabón, W., Kohler, P.L., Horswill, A.R., Leung, D.Y., & Schlievert, P.M. 2013. Staphylococcal and streptococcal superantigen exotoxins. *Clinical Microbiology Reviews* 26 (3): 422–447. <https://doi.org/10.1128/cmr.00104-12>.
- Subramanian, A., Chitalia, V. K., Bangera, K., Vaidya, S. P., Warke, R., Chowdhary, A., & Deshmukh, R. A. 2017. Evaluation of Hiaureus™ Coagulase Confirmation Kit in Identification of *Staphylococcus aureus*. *Journal of clinical and diagnostic research : JCDR*, 11(2), DC08–DC13. <https://doi.org/10.7860/JCDR/2017/24021.9265>
- Sugiri, Y.D., Anri, A. 2010. Prevalensi patogen penyebab mastitis subklinis (*Staphylococcus aureus* dan *Streptococcus agalactiae*) dan patogen penyebab mastitis subklinis lainnya pada peternak skala kecil dan menengah di beberapa sentra peternakan sapi perah di Pulau Jawa. *Balai Pengujian dan Penyidikan Penyakit Hewan dan Kesmavet (BP3HK) Cikole Lembang Kab. Bandung Barat, Jawa Barat, Indonesia*.
- Suwito, W., Winarti, E., Widyastuti, A., Kristiyanti, F., Andriani 2017. Isolasi dan karakterisasi *Staphylococcus aureus* dari susu kambing dan produk

olahannya. Vol. 28 No. 1 (2017): Jurnal Teknologi dan Industri Pangan.
<https://doi.org/10.6066/jtip.2017.28.1.85>

- Suwito, W., Nugroho, W.S., Adji, R.S., Andriani, A., Kusumaningtyas, E., & Martini, T. 2022. Phenotypic characteristic of *Staphylococcus aureus* from subclinical mastitis in Etawah-crossbreed goats in Yogyakarta, Indonesia, *Veterinary World*, 15(11): 2587–2592.
- Suzuki, Y., Matsushita, S., Kubota, H., Kobayashi, M., Murauchi, K., Higuchi, Y., Kato, R., Hirai, A., & Sadamasu, K. 2016. Identification and functional activity of a staphylocoagulase type XI variant originating from staphylococcal food poisoning isolates. *Letters in applied microbiology*, 63(3), 172–177. <https://doi.org/10.1111/lam.12595>
- Tatini, S.R. 1976. Thermal Stability of *Enterotoxins* in Food. *J. Milk Food Technol.* Vol. 39. No. 6, Pages 432–438 (June, 1976)
- Thomer, L., Schneewind, O., Missiakas, D. 2016. Pathogenesis of *Staphylococcus aureus* Bloodstream Infections. *Annual review of pathology*, 11, 343–364. <https://doi.org/10.1146/annurev-pathol-012615-044351>
- Umeda, K., Nakamura, H., Yamamoto, K., Nishina, N., Yasufuku, K., Hirai, Y., Hirayama, T., Goto, K., Hase, A., & Ogasawara, J. (2017). Molecular and epidemiological characterization of staphylococcal foodborne outbreak of *Staphylococcus aureus* harboring seg, sei, sem, sen, seo, and selu genes without production of classical enterotoxins. *International journal of food microbiology*, 256, 30–35. <https://doi.org/10.1016/j.ijfoodmicro.2017.05.023>
- Umeda, K., Hisaya, K.O., Takayuki, W., Daisuke, M., Shota, N., Hiromi, N., Dong-Liang, H. 2021. High production of *egc2*-related *Staphylococcal Enterotoxins* caused a food poisoning outbreak. *International Journal of Food Microbiology* 357 (2021) 109366
- Vandenesch, F., Lebeau, C., Bes, M., McDevitt, D., Greenland, T., Novick, R.P., Etienne, J. 1994. Coagulase deficiency in clinical isolates of *Staphylococcus aureus* involves both transcriptional and post-transcriptional defects. *J Med Microbiol* 1994;40:344–9.
- Ventola C. L. 2015. The antibiotic resistance crisis: part 1: causes and threats. *P & T : a peer-reviewed journal for formulary management*, 40(4), 277–283.
- Walton, B.L., Byrnes, J.R., & Wolberg, A.S. 2015. Fibrinogen, red blood cells, and factor XIII in venous thrombosis. *Journal of thrombosis and haemostasis* : JTH, 13 Suppl 1(Suppl 1), S208–S215. <https://doi.org/10.1111/jth.12918>

- Wahyuni, A.E.T.H., Winarso, D., Valenti, V., dan Franky. 2010. the Surface Character of *Staphylococcus aureus* Isolated from Subclinical Mastitis of Dairy Cow Supporting Adherence to Udder Epithelial Cell. J. Indo. Trop. Animal Agri. 35: 3.
- Wang D, Zhang L, Zhou X, He Y, Yong C, Shen M, Han B. 2016. Antimicrobial susceptibility, virulence genes, and randomly amplified polymorphic DNA analysis of *Staphylococcus aureus* recovered from bovine mastitis in Ningxia, China. Journal of Dairy Science 99(12): 9560–9569.
- Wang, D., Zhang, L., Yong, C., Shen, M., Ali, T., Shahid, M., Han, K., Zhou, X., Han, B. 2017. Relationships among superantigen toxin gene profiles, genotypes, and pathogenic characteristics of *Staphylococcus aureus* isolates from bovine mastitis. J. Dairy Sci. 2017, 100, 4276–4286.
- Wang, W., Lin, X., Jiang, T., Peng, Z., Xu, J., Yi, L., Li, F., Fanning, S., & Baloch, Z. 2018. Prevalence and characterization of *Staphylococcus aureus* cultured from raw milk taken from dairy cows with mastitis in Beijing, China. Front. Microbiol. 2018, 9, 1123.
- Watanabe, S., Ito, T., Takeuchi, F., Endo, M., Okuno, E., & Hiramatsu, K. 2005. Structural comparison of ten serotypes of staphylocoagulases in *Staphylococcus aureus*. J Bacteriol 2005;187:3698–707.
- Watanabe, S., Ito, T., Sasaki, T., Li, S., Uchiyama, I., Kishii, K., Kikuchi, K., Skov, R. L., & Hiramatsu, K. (2009). Genetic diversity of staphylocoagulase genes (coa): insight into the evolution of variable chromosomal virulence factors in *Staphylococcus aureus*. PloS one, 4(5), e5714. <https://doi.org/10.1371/journal.pone.0005714>
- Willerslev-Olsen, A., Krejsgaard, T., Lindahl, L.M., Litvinov, I.V., Fredholm, S., Petersen, D.L., Nastasi, C., Gniadecki, R., Mongan, N.P., Sasseville, D., Wasik, M.A., Bonefeld, C.M., Geisler, C., Woetmann, A., Iversen, L., Kilian, M., Korolov, S.B., & Odum, N. 2016. *Staphylococcal Enterotoxin A* (SEA) stimulates STAT3 activation and IL-17 expression in cutaneous T-cell lymphoma. Blood, 127(10), 1287–1296. <https://doi.org/10.1182/blood-2015-08-662353>
- Widianingrum, D.C., Windria, S., Salasia, S.I.O.. 2016. Antibiotic Resistance and Methicillin Resistant *Staphylococcus aureus* Isolated from Bovine Crossbred Etawa Goat and Human. Asian J. Anim. Vet. Adv.. 11(2), hal. 122-129. doi: 10.3923/ajava.2016.122.129
- Widianingrum, D.C., Windria, S., Aziz, F. & Salasia, S.I.O. 2021. Classical Enterotoxin Genes of *Staphylococcus aureus* Isolated from the Raw Milk of Cows and Goats in Yogyakarta Indonesia. Proceedings of the 2nd International Conference on Veterinary, Animal, and

- Environmental Sciences (ICVAES 2020). Advances in Biological Sciences Research, volume 12.
<https://doi.org/10.2991/absr.k.210420.004>
- Windria, S., Widianingrum, D.C., & Salasia, S.I.O. 2016. Identification of *Staphylococcus aureus* and coagulase-negative staphylococci isolates from mastitis milk of Etawa crossbred goat. Res. J. Microbiol., 11: 11-19.
- Woo, P. C., Leung, A. S., Leung, K. W., & Yuen, K. Y. 2001. Identification of slide coagulase positive, tube coagulase negative *Staphylococcus aureus* by 16S ribosomal RNA gene sequencing. Molecular pathology : MP, 54(4), 244–247. <https://doi.org/10.1136/mp.54.4.244>
- Yusuf, Z.K. 2010. Polymerase chain reaction (pcr). Saintek Vol 5, No 6, Tahun 2010
- Yuwono, T. 2006. Teori dan Aplikasi *Polymerase Chain Reaction*. Andi Offset, Yogyakarta.
- Zhang, D.-F., Yang, X.-Y., Zhang, J., Qin, X., Huang, X., Cui, Y., Zhou, M., Shi, C., French, N.P., Shi, X. 2018. Identification and characterization of two novel superantigens among *Staphylococcus aureus* complex. Int. J. Med. Microbiol. 2018, 308, 438–446.
- Zhu, H., Zhang, H., Xu, Y., Laššáková, S., Korabečná, M. & Neužil, P. 2020. PCR past, present and future. BioTechniques 2020 69:4, 317-325