



DAFTAR PUSTAKA

- Abd El-Razik, K. A., Arafa, A. A., Hedia, R. H., and Ibrahim, E. S. 2017. Tetracycline resistance phenotypes and genotypes of coagulase-negative staphylococcal isolates from bubaline mastitis in Egypt. *Vet. World.* 10: 702.
- Abdullahi, I. N., Zarazaga, M., Campana-Burguet, A., Eguizabal, P., Lozano, C., and Torres, C. 2022. Nasal *Staphylococcus aureus* and *S. pseudintermedius* carriage in healthy dogs and cats: a systematic review of their antibiotic resistance, virulence and genetic lineages of zoonotic relevance. *Journal of Applied Microbiology.* 133: 3368-3390.
- Ali, T., Basit, A., Karim, A. M., Lee, J., Jeon, J., Rehman, S., and L, S. 2021. Mutation-Based Antibiotic Resistance Mechanism in Methicillin-Resistant *Staphylococcus aureus* Clinical Isolates. *Pharmaceuticals.* 14(420): 1-11.
- Almwafy, A. T., Barghouth, M. G., Desouky, S. E., and Roushdy, M. 2020. Preliminary characterization and identification of Gram positive hemolysis bacteria. *Az. J. Pharm Sci.* 62: 96-109.
- Aqib, A. I., Ijaz, M., Farooqi, S. H., Ahmed, R., Shoaib, M., Ali, M. M., Mehmood, K., and Zhang, H. 2018. Emerging discrepancies in conventional and molecular epidemiology of methicillin resistant *Staphylococcus aureus* isolated from bovine milk. *Microbial Pathogenesis.* 116: 38-43.
- Ariyanti, D., Salasia, S. I. O., and Tato, S. 2011. Characterization of haemolysin of *Staphylococcus aureus* Isolated from Food of Animal Origin. *Indonesian Journal of Biotechnology.* 16(1): 32-37.
- Aziz, F., Lestari, F. B., Nuraidah, S., Purwati, E., dan Salasia, S. I. O. 2016. Deteksi Gen Penyandi Sifat Resistensi Metisilin, Penisilin, dan Tetrasiklin pada Isolat *Staphylococcus aureus* Asal Susu Mastitis Subklinik Sapi Perah. *Jurnal Sain Veteriner.* 34(1): 60-69.
- Baddour, L. M., Tayidi, M. M., Walker, E., McDevitt, D., and Foster, T. J. 1994. Virulence of coagulase-deficient mutants of *Staphylococcus aureus* in experimental endocarditis. *J Med Microbiol.* 41: 259-263.
- Ballhausen, B., Krigeskorte, A., Schleimer, N., Peters, G., and Becker, K. 2014. The *mecA* Homolog *mecC* Confers Resistance against β -Lactams in *Staphylococcus aureus* Irrespective of the Genetic Strain Background. *Antimicrobial Agents and Chemotherapy.* 58(7): 3791-3798.
- Berends, E. T. M., Horswill., A. R., Haste, N. M., Monestier, M., Nizet, V., and Kockritz-Blickwede, M. 2010. Nuclease Expression by *Staphylococcus aureus* Facilitates Escape from Neutrophil Extracellular Traps. *Journal of Innate Immunity.* 2(6): 576-586.



- Bierowiec, K., Ploneczka-Janeczko, K., and Rypula, K. 2016. Is the Colonisation of *Staphylococcus aureus* in Pets Associated with Their Close Contact with Owners?. *PLoS ONE*. 11(5): 1-14.
- Bressler, A. M., Williams, T., Culler, E. C., Zhu, W., Lonsway, D., Patel, J. B., and Nolte, F. S. 2005. Correlation of Penicillin Binding Protein 2a Detection with Oxacillin Resistance in *Staphylococcus aureus* and Discovery of a Novel Penicillin Binding Protein 2a Mutation. *Journal of Clinical Microbiology*. 43(9): 4541-4544.
- Campos, B., Pickering, A. C., Rocha, L. S., Aguilar, A. P., Fabres-Klein, M. H., Mendes, T. A. O., Fitzgerald, J. R., and Ribon, A. O. B. 2022. Diversity and pathogenesis of *Staphylococcus aureus* from bovine mastitis: current understanding and future perspectives. *BMC Veterinary Research*. 18(115): 1-16.
- Caneschi, A., Bardhi, A., Barbarossa, A., and Zagħini, A. 2023. The Use of Antibiotics and Antimicrobial Resistance in Veterinary Medicine, a Complex Phenomenon: A Narrative Review. *Antibiotics*. 12: 487.
- Carroll, K. C., Butel, J. S., Morse, S. A., and Mietzner, T. 2015. *Jawetz, Melnick & Adelberg's Medical Microbiology 27th Edition*. New York: McGraw-Hill.
- Ceniti, C., Britti, D., Santoro, A. M. L., Musarella, R., Ciambrone, L., Casalinuovo, F., and Costanzo, N. 2017. Phenotypic antimicrobial resistance profile of isolates causing clinical mastitis in dairy animals. *Italian Journal of Food Safety*. 6(6612): 84-87.
- Chamgordami, A. Z., Momtaz, H., and Zia-Jahromi, N. 2022. Distribution of the antibiotic resistance genes amongst methicillin-resistant *Staphylococcus aureus* bacteria isolated from human clinical infections. *Academic Journal of Health Sciences*. 37(3): 147-161.
- Cheung, G. Y. C., Bae, J. S., and Otto, M. 2021. Pathogenicity and virulence of *Staphylococcus aureus*. *Virulence*. 12(1): 547-569.
- Clinical and Laboratory Standards Institute. 2017. *Performance Standards for Antimicrobial Susceptibility Testing 27th Edition*. London: CLSI Document M100-S27.
- Corrente, M., Ventrella, G., Greco, M. F., Martella, V., Parisi, A., and Buonavoglia, D. 2013. Characterisation of a catalase-negative methicillin-resistant *Staphylococcus aureus* isolate from a dog. *Veterinary Microbiology*. 167: 734-736.
- Costa, S. S., Sobkowiak, B., Parreira, R., Edgeworth, J. D., Viveiros, M., Clark, T. G., and Couto, I. 2019. Genetic diversity of *norA*, coding for a main efflux pump of *Staphylococcus aureus*. 9(710): 1-11.
- Costa, S. S., Ribeiro, R., Serrano, M., Oliveira, K., Ferreira, C., Leal, M., Pomba, C., and Couto, I. 2022. *Staphylococcus aureus* Causing Skin and Soft Tissue



Infections in Companion Animals: Antimicrobial Resistance Profiles and Clonal Lineages. *Antibiotics.* 11(599): 1-16.

Del'Alamo, L., d'Azevedo, P. A., Strob, A. J., Rodriguez-Lopez, D. V., Monteiro, J., Andrade, S. S., Pignatari, A. C. C., and Gales, A. C. 2007. An outbreak of catalase-negative meticillin-resistant *Staphylococcus aureus*. *Journal of Hospital Infection.* 65(3): 226-230.

Desouky, S. E., El-Gamal, M. S., Mohammed, A. F., and Abu-Elghait, M. A. 2014. Determination of some virulence factors in *Staphylococcus* spp. Isolated from Clinical Samples of Different Egyptian Patients. *World Applied Sciences Journal.* 32(4): 731-740.

Emaneini, M., Bigverdi, R., Kalantar, D., Soroush, S., Jabalameli, F., Khoshgnah, B. N., Asadollahi, P., and Taherikalani, M. 2013. Distribution of genes encoding tetracycline resistance and aminoglycoside modifying enzymes in *Staphylococcus aureus* strains isolated from a burn center. *Annals of Burns and Fire Disasters.* 26: 76.

Engelkirk, P. G. and Duben-Engelkirk, J. 2008. *Laboratory Diagnosis of Infectious Diseases: Essentials of Diagnostic Microbiology*. Maryland: Lippincott Williams & Wilkins.

Ferreira, A. M., Martins, K. B., da Silva, V. R., Mondelli, A. L., and da Cunha, M. L. R. S. 2017. Correlation of phenotypic tests with the presence of blaZ gene for detection of beta-lactamase. *Braz. J. Microbiol.* 48: 159-166.

Fitranda, M., Salasia, S. I. O., Sianipar, O., Dewananda, D. A., Arjana, A. Z., Aziz, F., Wasissa, M., Lestari, F. B., and Santosa, C. M. 2023. Methicillin-resistant *Staphylococcus aureus* isolates derived from humans and animals in Yogyakarta, Indonesia. *Veterinary World.* 16(1): 239-245.

Fusco, V., Abriouel, H., Benomar, N., Kabisch, J., Chieffi, D., Cho, G., and Franz, C. M. A. P. 2018. Opportunistic Food-Borne Pathogens. *Food Safety and Preservations.* 269-306.

Garneau, P., Labrecque, O., Maynard, C., Messier, S., Masson, L., Archambault, M., and Harel, J. 2010. Use of a bacterial antimicrobial resistance gene microarray for the identification of resistant *Staphylococcus aureus*. *Zoonoses Public Health.* 57(1): 94.99.

Haag, A. F., Fitzgerald, J. R., and Penades, J. R. 2019. *Staphylococcus aureus* in Animals. *Microbiology Spectrum.* 7(3): 1-19.

Haenni, M., Chatre, P., Dupieux-Chabert, C., Metayer, V., Bes, M., Madec, J. Y., and Laurent, F. 2017. Molecular epidemiology of methicillin-resistant *Staphylococcus aureus* in horses, cats, and dogs over 5-year period in France. *Front. Microbiol.* 8(2493): 1-8.

Hamady, A. B., El-Fadeal, N. M. A., Imbaly, S., Nassar, H. M., Sakr, M. G., and Marei, Y. E. 2024. Expression of *norA*, *norB* and *norC* efflux pump genes



- mediating fluoroquinolone resistance in MRSA isolates. *The Journal of Infection in Developing Countries*. 18(3): 399-406.
- Hu, J., Hang, B., Xu, Y., and Sun, Y. 2020. *Animal Microbiology*. Beijing: Science Press.
- Iraguha, B., Mpatswenumugabo, J. P. M., Gasana, M. N., and Asbjørn, E. 2024. Mitigating antibiotic misuse in dairy farming systems and milk value chain market: Insights into practices, factors, and farmers education in Nyabihu district, Rwanda. *One Health*. 19: 100843.
- Jonas, O. B., Irwin, A., Berthe, F. C. J., Le Gall, F. G., and Marquez, P. V. 2017. *Drug-resistant infections: a threat to our economic future (Vol 2): final report (English)*. Washington, D. C.: World Bank Group.
- Kamaruddin, E. 2020. Study of growth patterns of *Staphylococcus aureus* in human blood and sheep. *Biodiversity International Journal*. 4(2): 112-115.
- Khairullah, A. R., Sudjarwo, S. A., Effendi, M. H., Ramandinianto, S. C., Gelolodo, M. A., Widodo, A., Riwu, K. H. P., and Kurniawati, D. A. 2023. Pet animals as reservoirs for spreading methicillin-resistant *Staphylococcus aureus* to human health. *Journal of Advanced Veterinary and Animal Research*. 10(1): 1-13.
- Khan, S. A., Nawaz, M. S., Khan, A. A., Steele, R. S., and Cerniglia, C. E. 2000. Characterization of erythromycin-resistant methylase genes from multiple antibiotic resistant *Staphylococcus* spp isolated from milk samples of lactating cows. *AJVR*. 61(9): 1128-1132.
- Kibebew, K. 2017. Bovine Mastitis: A Review of Causes and Epidemiological Point of View. *Journal of Biology, Agriculture and Healthcare*. 7(2): 1-14.
- Kiedrowski, M. R., Kavanaugh, J. S., Malone, C. L., Mootz, J. M., Voyich, J. M., Smeltzer, M. S., Bayles, K. W., and Horswill, A. R. 2011. Nuclease Modulates Biofilm Formation in Community-Associated Methicillin-Resistant *Staphylococcus aureus*. *PLoS ONE*. 6(11): 1-16.
- Kuipers, A., Koops, W. J., and Wemmenhove, H. 2016. Antibiotic use in dairy herds in the Netherlands from 2005 to 2012. *J. Dairy Sci*. 99: 1632-1648.
- Leber, A. L. 2016. *Clinical Microbiology Procedures Handbook*. Washington DC: ASM Press.
- Lee, A. S., de Lencastre, H., Garau, J., Kluytmans, J., Malhotra-Kumar, S., Peschel, A., and Harbarth, S. 2018. Methicillin-resistant *Staphylococcus aureus*. *Disease Primers*. 4(18033): 1-23.
- Lim, J. A., Kwon, A. R., Kim, S. K., Chong, Y., Lee, K., and Choi, E. C. 2002. Prevalence of resistance to macrolide, lincosamide and streptogramin antibiotics in Gram-positive cocci isolated in a Korean hospital. *J Antimicrob Chemother*. 49: 95-489.



- Lina, G., Quaglia, A., Reverdy, M., Leclercq, R., Vandenesch, F., and Etienne, J. 1999. Distribution of Genes Encoding Resistance to Macrolides, Lincosamides, and Streptogramins among Staphylococci. *Antimicrobial Agents and Chemotherapy*. 43(5): 1062-1066.
- Liu, Y., Tong, Z., Shi, J., Jia, Y., Yang, K., and Wang, Z. 2020. Correlation between Exogenous Compounds and the Horizontal Transfer of Plasmid-Borne Antibiotic Resistance Genes. *Microorganisms*. 8(1211): 1-16.
- Locatelli, C., Gattolin, S., Monistero, V., Castiglioni, B., Moroni, P., Addis, M. F., and Cremonesi, P. 2023. *Staphylococcus aureus coa* gene sequence analysis can prevent misidentification of coagulase-negative strains and contribute to their control in dairy cow herds. *Frontiers in Microbiology*. 14(1120305): 1-8.
- Lubna, Hussain, T., Shami, A., Rafiq, N., Khan, S., Kabir, M., Khan, N. U., Khattak, I., Kamal, M., and Usman, T. 2023. Antimicrobial usage and detection of multidrug-resistant *Staphylococcus aureus*: Methicillin- and tetracycline-resistant strains in raw milk of lactating dairy cattle. *Antibiotics*. 12(673): 1-11.
- Markey, B., Leonard, F., Archambault, M., Cullinane, A., and Maguire, D. 2013. *Clinical Veterinary Microbiology Second Edition*. London: Elsevier.
- Messina, C. G. M., Reeves, E. P., Roes, J., and Segal, A. W. 2002. Catalase negative *Staphylococcus aureus* retain virulence in mouse model of chronic granulomatous disease. *FEBS Lett.* 518: 107-110.
- Mlynarczyk-Bonikowska, B., Kowalewski, C., Krolak-Ulinska, A., and Marusza, W. 2022. Molecular Mechanisms of Drug Resistance in *Staphylococcus aureus*. *International Journal of Molecular Sciences*. 23(8088): 1-33.
- Moreillon, P., Entenza, J. M., Francioli, P., McDevitt, D., Foster, T. J., Francois, P., and Vaudaux, P. 1995. Role of *Staphylococcus aureus* coagulase and clumping factor in pathogenesis of experimental endocarditis. *Infect Immun.* 63: 4738-4743.
- Murray, C. J. L., Ikuta, K. S., Sharara, F., Swetchinski, L., Robies, A. G., and Naghavi, M. et al. 2022. Global burden of bacterial antimicrobial resistance in 2019: a systemic analysis. *The Lancet*. 399(10325): 629-655.
- Natasa, R. S., Vera, K., and Branko, V. 2014. Characteristics of coagulase positive Staphylococci isolated from milk in cases of subclinical mastitis. *Acta Veterinaria-Beograd*. 64(1): 115-123.
- O'Neill, J. 2016. *Tackling Drug-Resistant Infections Globally: Final Report and Recommendations*. Review on Antimicrobial Resistance. London: Wellcome Trust.



- Pei, A., Nossa, C. W., Chokshi, P., Blaser, M. J., Yang, L., Rosmarin, D. M., and Pei, Z. 2009. Diversity of 23S rRNA Genes within Individual Prokaryotic Genomes. *PLoS ONE*. 4(5): 1-9.
- Peton, V. and Le Loir, Y. 2013. *Staphylococcus aureus* in Veterinary Medicine. *Infections, Genetics and Evolution*. 21(1): 602-615.
- Phonimdaeng, P., O'Reilly, M., Nowlan P., Bramley, A. J., and Foster, T. J. 1990. The coagulase of *Staphylococcus aureus*: Sequence analysis of site-specific coagulase-deficient mutants. *Mol. Microbiol*. 4: 393-404.
- Proksch, E. 2018. pH in nature, humans and skin. *The Journal of Dermatology*. 45(9): 1-9.
- Quraishi, A., Kaur P., Shing, S., and Arora, A. K. 2021. Antibiotic sensitivity patterns in *Staphylococcus* spp. isolated from goat milk in association with molecular detection of antibiotic resistance genes. *Iranian Journal of Veterinary Research*. 22(3): 239-243.
- Rajkumar, S., Sistla, S., Manoharan, M. et al. 2017. Prevalence and genetic mechanisms of antimicrobial resistance in *Staphylococcus* species: A multicentre report of the Indian council of medical research antimicrobial resistance surveillance network. *Indian J Med Microbiol*. 35(1): 53-60.
- Rasheed, H., Ijaz, M., Ahmed, A., Javed, M. U., Shah, S. F. A., and Anwaar, F. 2023. Discrepancies between phenotypic and genotypic identification methods of antibiotic resistant genes harboring *Staphylococcus aureus*. *Microbial Pathogenesis*. 184(106342): 1-7.
- Ritter, J. M., Flower. R., Henderson, G., Loke, Y. K., MacEwan, D., Rang, H. P. 2020. *Rang and Dale's Pharmacology*. London: Elsevier.
- Rocchetti, T. T., Martins, K. B., Martins, P. Y. F., de Oliveira, R. A., Mondelli, A. L., Fortaleza, C. M. C. B., and da Cunha, M. L. R. S. 2018. Detection of the *mecA* gene and identification of *Staphylococcus* directly from blood culture bottles by multiplex polymerase chain reaction. *The Brazilian Journal of Infectious Diseases*. 22(2): 99-105.
- Romsang, A., Atichartpongkul, S., Trinachartvanit, W., Vattanaviboon, P., and Mongkolsuk, S. 2013. Gene expression and physiological role of *Pseudomonas aeruginosa* methionine sulfoxide reductases during oxidative stress. *Journal of Bacteriology*. 195(15): 3299-3308.
- Rosenbach, F. J. 1884. *Mikro-organismen bei den Wund-Infectionen-Krankheiten des Menschen*. Wiesbaden: JF Bergmann's Verlag.
- Rukumani, D. V., Kamar, A. A., Arditia, D. R., Nee, T. S., Yusof, Y. M., Sekaran, S. D. and Shankar, E. M. 2014. Recalcitrant coagulase-negative methicillin-sensitive *Staphylococcus aureus* in an extremely low-birth-weight pre-term



infant with thrombocytopaenia. *JMM Case Reports.* DOI 10.1099/jmmcr.0.004242

Sahebnasagh, R., Saderi, H., and Owla, P. 2014. The Prevalence of Resistance to Methicillin in *Staphylococcus aureus* Strains Isolated from Patients by PCR Method for Detection of *mecA* and *nuc* Genes. *Iranian J Publ Health.* 43(1): 84-92.

Sahibzada, S., Abraham, S., Coombs, G. W., Pang, S., Hernandez-Jover, M., Jordan, D., and Heller, J. 2017. Transmission of highly virulent community-associated MRSA ST93 and livestock-associated MRSA St398 between humans and pigs in Australia. *Scientific Reports.* 7(5273): 1-10.

Salauddin, M., Akter, M. R., Hossain, M. K., Nazir, K. H. M., Noreddin, A., and El Zowalaty, M. E. 2020. Molecular Detection of Multidrug Resistant *Staphylococcus aureus* Isolated from Bovine Mastitis Milk in Bangladesh. *Veterinary Sciences.* 7(36): 1-10.

Sharma, D., Sharma, P. K., and Malik, A. 2011. Prevalence and antimicrobial susceptibility of drug resistant *Staphylococcus aureus* in raw milk of dairy cattle. *International Research Journal of Microbiology.* 2(11): 466-470.

Shields, P. and Tsang, A. Y. 2016. Mannitol Salt Agar Plates Protocols. Washington D.C.: *American Society for Microbiology*.

Shore, A. C., Deasy, E. C., Slickers, P., Brennan, G., O'Connell, B., Monecke, S., Ehrlicht, R., and Coleman, D. C. 2011. Detection of staphylococcal cassette chromosome *mec* type XI encoding highly divergent *mecA*, *mecI*, *mecR1*, *blaZ* and *ccr* genes in human clinical clonal complex 130 methicillin-resistant *Staphylococcus aureus*. *Antimicrob. Agents Chemother.* 55: 3765-3773.

Silva, G. O., Castro, R. D., Oliveira, L. G., Sant'Anna, F. M., Barbosa, C. D., Sandes, S. H. C., Silva, R. S., Resende, M. F. S., Lana, A. M. Q., Nunes, A. C., Cerqueira, M. M. O. P., and Souza, M. R. 2020. Viability of *Staphylococcus aureus* and expression of its toxins (SEC and TSST-1) in cheeses using *Lactobacillus rhamnosus* D1 or *Weissella paramesenteroides* GIR16L4 or both as starter cultures. *J. Dairy Sci.* 103: 4100-4108.

Singh, P. and Prakash, A. 2008. Isolation of *Escherichia coli*, *Staphylococcus aureus* and *Listeria monocytogenes* from Milk Products Sold Under Market Conditions at Agra Region. *Acta Agriculturae Slovenica.* 92(1): 83-88.

Srivastava, A. K., Kumaresan, A., Manimaran, A., and Prasad, S. 2015. *Mastitis in Dairy Animals: An Update*. New Delhi: Satish Serial Publishing House.

Strommenger, B., Kettlitz, C., Werner, G., and Witte, W. 2003. Multiplex PCR assay for simultaneous detection of nine clinically relevant antibiotic resistance genes in *Staphylococcus aureus*. *J. Clin. Microbiol.* 41(9): 4089-4094.



- Sunagar, R., Deore, S. N., Deshpande, P. V., Rizwan, A., Sannejal, A. D., Sundareshan, S., Rawool, D. B., Barbuddhe, S. B., Jhala, M. K., Bannalikar, A. S., Mugalikar, D. M., Kumari, V. J., Dhanalakshmi, K., Reddy, Y. N., Rao, P. P., Babra, C., Tiwari, J. G., Mukkur, T. K., Costantino, P., Wetherall, J. D., Isloor, S., and Hegde, N. R. 2013. Differentiation of *Staphylococcus aureus* and *Staphylococcus epidermidis* by PCR for the fibrinogen binding protein gene. *J. Dairy Sci.* 96: 2857-5862.
- Tasara, T., Cernela, N., and Stephan, R. 2013. Function impairing mutations in blaZ and blaR genes of penicillin susceptible *Staphylococcus aureus* strains isolated from bovine mastitis. *Schweiz. Arch. Tierheilkd.* 155: 359-363.
- Titouche, Y., Akkou, M., Houali, K., Auvray, F., and Hennekinne, J. 2022. Role of milk and milk products in the spread of methicillin-resistant *Staphylococcus aureus* in the dairy production chain. *J. Food. Sci.* 87: 3699-3723.
- Traber, K. E., Lee, E., Benson, S., Corrigan, R., Cantera, M., Shopsin, B., and Novick, R. P. 2008. agr function in clinical *Staphylococcus aureus* isolates. *Microbiology (Reading)*. 154(8): 2265-2274.
- Uddin, M. J. and Ahn, J. 2017. Associations between resistance phenotype and gene expression in response to serial exposure to oxacillin and ciprofloxacin in *Staphylococcus aureus*. *Letters in Applied Microbiology*. 65: 462-468.
- Urban-Chmiel, R., Marek, A., Stepien-Pysniak, D., Wieczorek, K., Dec, M., Nowaczek, A., and Osek, J. 2022. Antibiotic Resistance in Bacteria-A Review. *Antibiotics*. 11(1079): 1-40.
- Valmorbida, M. K., Cardozo, M. V., Almeida, C. C., Pereira, N., Dezen, D., Assis, M. Z., Verbisck, N. V., Griebeler, E., Pizauro, L. J. L., and Avila, F. A. 2022. Association between coa gene and enterotoxin gene in *S. aureus* from dairy cattle in Brazil. *Food Science and Technology*. 43: 1-9.
- Veras, J. F., do Carmo, L. S., Tong, L. C., Shupp, J. W., Cummings, C., dos Santos, D. A., Cerqueira, M. M. O. P., Cantini, A., Nicoli, J. R., and Jett, M. 2008. A study of the enterotoxicity of coagulase-negative and coagulase-positive staphylococcal isolates from food poisoning outbreaks in Minas Gerais, Brazil. *International Journal of Infectious Diseases*. 12: 410-415.
- Von Eiff. C. 2008. *Staphylococcus aureus* small colony variants: a challenge to microbiologists and clinicians. *International Journal of Antimicrobial Agents*. 31: 507-510.
- Walther, B., Monecke, S., Ruscher, C., Friedrich, A. W., Ehricht, R., Slickers, P., Soba, A., Wleklinski, C., Wieler, L. H., and Lubke-Becker, A. 2009. Comparative Molecular Analysis Substantiates Zoonotic Potential Equine Methicillin-Resistant *Staphylococcus aureus*. *Journal of Clinical Microbiology*. 47(3): 704-710.



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Deteksi Gen Pengkode Resistensi Antibiotik *Staphylococcus aureus* Isolat Asal Sapi Perah dan Hewan Kesayangan

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- Wayne, A., McCarthy, R., and Lindenmayer, J. 2011. Therapeutic antibiotic use patterns in dogs: observations from a veterinary teaching hospital. *Journal of Small Animal Practice*. 52: 310-318.
- Weller, T. M. A. 1999. The distribution of *mecA*, *mecR1* and *mecI* and sequence analysis of *mecI* and the *mec* promoter region in staphylococci expressing resistance to methicillin. *Journal of Antimicrobial Chemotherapy*. 43: 15-22.
- Widianingrum, D. C. Windria, S., and Salasia, S. I. O. 2016. Antibiotic Resistance and Methicillin Resistant *Staphylococcus aureus* Isolated from Bovine, Crossbred Etawa Goat and Human. *Asian Journal of Animal and Veterinary Advances*. 11: 122-129.
- World Health Organization. 2015. *Global Action Plan on Antimicrobial Resistance*. Geneva: World Health Organization.
- Younis, G., Sadat, A., and Maghawry, M. 2018. Characterization of Coa Gene and Antimicrobial Profiles of *Staphylococcus aureus* Isolated from Bovine Clinical and Subclinical mastitis. *Advances in Animal and Veterinary Sciences*. 6(4): 161-168.
- Zehra, A., Gulzar, M., and Singh, R. 2020. Assessment of correlation between phenotypic and genotypic resistance profile of *Staphylococcus aureus* isolated from meat samples of Punjab, India. *Haryana Vet*. 59(1): 13-18.