

DAFTAR PUSTAKA

- Abdul-sattar, B. A., Shawket, D. S. & Salman, A. M. H. (2011). Studying the antibiotics sensitivity test of *Lactobacillus* on different media. *AJPS*, 9(1).
- Alby, K. & Miller, M. (2018). 290- Mechanisms and Detection of Antimicrobial Resistance. *Principles and Practice of Pediatric Infectious Diseases (Fifth Edition)*, 1467-1678.e4. doi: 10.1016/B978-0-323-40181-4.00290-5
- Alcock, B. P., Raphenya, A. R., Lau, T. T. Y. & Tsang, K. K. (2019). CARD 2020: Antibiotic resistome surveillance with the comprehensive antibiotic resistance database. *Nucleic Acids Research*, 48(D1). doi: 10.1093/nar/gkz935
- Anadon, A. & Martinez-Larranaga, M. R. (2014). Veterinary Drugs Residues: Coccidiostats. *Encyclopedia of Food Safety*, 3, 63 - 75. doi: 10.1016/B978-0-12-378612-8.00246-8
- Aqib, A. & Rodriguez-Morales, A. J. (2021). *Insights Into Drug Resistance in Staphylococcus aureus*. Denmark: Books on Demand. pp. 11
- Aquilanti, L., Garofalo, C., Osimani, A., Silvestri, G., Vignaroli, C. & Clementi, F. (2007). Isolation and Molecular Characterization of Antibiotic-Resistant Lactic Acid Bacteria from Poultry and Swine Meat Products. *Journal of Food Protection*, 70(3), 557 - 565. doi: 10.4315/0362-028x-70.3.557
- Azzouz, A. & Preuss, C. V. (2022). *Linezolid*. Treasure Island (FL): StatPearls Publishing
- Baltekin, O., Boucharin, A., Tano, E. & Elf, J. (2017). Antibiotic susceptibility testing in less than 30 min using direct single-cell imaging. *PNAS*, 114(34), 9170-9175. doi: 10.1073/pnas.1708558114
- Bambeke, F. VMingeot-Leclercq, M. P., Gllupcyznski, Y. & Tulkens, P. M. (2017) 137 - Mechanisms of Action. *Infectious Diseases (Fourth Edition)*, 2, 1162-1180.e1
- Baranello, L., Levens, D., Gupta, A. & Kouzine, F. (2012). The importance of being supercoiled: how DNA mechanics regulate dynamic processes. *Biochimica et Biophysica Acta*, 1819(7), 632 - 8. doi: 10.1016/j.bbagr.2011.12.007
- Barciszewska, M. Z., Szymanski, M., Erdmann, V. A. & Barciszewski J. (2001). Structure and functions of 5S rRNA. *Acta biochimica Polonica*, 48(1), 191-8. doi: 10.18388/abp.2001_5126
- Benkova, M., Soukup, O. & Marek, J. (2020). Antimicrobial susceptibility testing:

currently used methods and devices and the near future in clinical practice. *Journal of Applied Microbiology*, 129(4), 806-822. doi: 10.1111/jam.14704

Binda, S., Hill, C., Johansen, E., Obis, D., Pot, B., Sanders, M. E., Tremblay, A. & Ouwenhand, A. C. (2020). Criteria to Qualify Microorganisms as "Probiotic" in Foods and Dietary Supplements. *Frontiers in Microbiology*, 11. doi: 10.3389/fmicb.2020.01662

Blair, J. M., Richmond, G. E., & Piddock, L. J. (2014). Multi drug efflux pumps in Gram-negative bacteria and their role in antibiotic resistance. *Future Microbiology*, 9, 1165 - 1177.

Blondeau, J. M. (2004). Fluoroquinolones: Mechanism of Action, Classification, and Development of Resistance. *Survey of Ophthalmology*, 49(2). doi: 10.1016/j.survophthal.2004.01.005

Boncoeur, E., Durmort, C., Bernay, B., Ebel, C., Guilmi, A. M. D., Croize, J., Vernet, T. & Jault, J. (2012). PatA and PatB Form a Functional Heterodimeric ABC Multidrug Efflux Transporter Responsible for the Resistance of *Streptococcus pneumoniae* to fluoroquinolone. *BioChemistry*, 51(39), 7755 - 7765. doi: 10.1021/bi300762p

Cao, C., Wang, J., Liu, Y. & Kwok, L. (2020). Adaptation of *Lactobacillus plantarum* to Ampicillin Involves Mechanisms That Maintain Protein Homeostasis. *mSystems*, 5(1). doi: 10.1128/mSystems.00853-19

Charteris, W. P., Kelly, P. M., Morelli, L. & Collins, J. K. (1998). Antibiotic Susceptibility of Potentially Probiotic *Lactobacillus* Species. *Journal of Food Protection*, 61(12), 1636 - 1643

Chen, C., Pavlova, J. A., Lukianov, D.A., Tereshchenkov, A. G., Makarov, G. I., Khairullina, Z. Z., Tashlitsky, V. N., Paleskava, A., Konevega, A. L., Bogdanov, A. A., Osterman, I. A., Sumbatyan, N. V. & Polikanov, Y. S. (2021). Binding and Action of Triphenylphosphonium Analog of Chloramphenicol upon the Bacterial Ribosome. *Antibiotics*, 10(4), 390. doi: 10.3390/antibiotics10040390

Chukiatsiri, K., Sasipreeyajan, J., Blackall, P. J., Yuwatanichsampan, S. & Chansiripornchai, N. (2012). Serovar Identification, Antimicrobial Sensitivity, and Virulence of *Avibacterium paragallinarum* Isolated from Chickens in Thailand. *Avian Diseases*, 56(2), 359 - 364. doi: 10.1637/9881-080811-Reg.1

Clinical and Laboratory Standards Institute (CLSI). (2021). M100 Performance Standards for Antimicrobial Susceptibility Testing 31 ed. *Clinical and Laboratory Standards Institute*.

- Costa, S. S., Sobkowiak, B., Parreira, R., Edgeworth, J. D., Viveiros, M., Clark, T. G. & Couto, S. (2019). Genetic Diversity of norA, Coding for a Main Efflux Pump of *Staphylococcus aureus*. *Frontiers in Genetics*. doi: 10.3389/fgene.2018.00710
- Coursehero. (2022). *Mechanisms of Antibacterial Drugs*. Retrieved from Coursehero: <https://www.coursehero.com/study-guides/microbiology/mechanisms-of-antibacterial-drugs/> (3 June 2022)
- Courvalin, P. (2006). Vancomycin Resistance in Gram-Positive Cocci. *Clinical Infectious Disease*, 42, S25-34. doi: 10.1086/491711
- Danielsen, M. & Wind, A. (2003). Susceptibility of Lactobacillus spp. to antimicrobial agents. *International Journal of Food Microbiology*, 82(1), 1-11. doi: 10.1016/S0168-1605(02)00254-4
- Deane, J., Rea, M. C., Fouhy, F., Stanton, C., Ross, R. P. & Plant, B. J. (2016). Chapter 11 - Long-Term Implications of Antibiotic Use on Gut Health and Microbiota in Populations Including Patients With Cystic Fibrosis. *The Gut-Brain Axis*, 223 - 259. doi: 10.1016/B978-0-12-802304-4.00011-6
- Dinev, T., Beev, G., Tzanova, M., Denev, S., Dermendzhieva, D. & Stoyanova, A. (2018). Antimicrobial Activity of *Lactobacillus plantarum* Against Pathogenic and Food Spoilage Microorganisms: A Review. *Bulgarian Journal of Veterinary Medicine*, 3, 253 - 268. doi: 10.15547/bjvm.1084
- Džidić, S., Šušković, J. & Kos, B. (2008). Antibiotic resistance mechanisms in bacteria: Biochemical and genetic aspects. *Food Technology Biotechnology*, 46, 11–21
- Eguchi, Y. (2003). Transcriptional regulation of drug efflux genes by EvgAS, a two component system in *Escherichia coli*. *Microbiology*, 149(10), 2819 - 2828. doi: 10.1099/mic.0.26460-0
- European Centre for Disease Prevention and Control. (2021). *Factsheet for the general public - Antimicrobial resistance*. Retrieved from European Centre for Disease Prevention and Control: <https://www.ecdc.europa.eu/en/antimicrobial-resistance/factsheets/general-public> (22 May 2022)
- European Medicines Agency. (2014). *Reflection paper on use of pleuromutilins in food-producing animals in the European Union: development of resistance and impact on human and animal health*. Retrieved from European Medicines Agency: <https://www.ema.europa.eu/en/documents/scientific-guideline/reflection-paper-use-pleuromutilins-food-producing-animals->

european-union-development-resistance_en-0.pdf (3 July 2022)

European Medicines Agency. (1999). *Tiamulin Summary Report*. Retrieved from European Medicines Agency: https://www.ema.europa.eu/en/documents/mrl-report/tiamulin-summary-report-1-committee-veterinary-medicinal-products_en.pdf (3 July 2022)

Fijan, S. (2014). Microorganisms with Claimed Probiotic Properties: An Overview of Recent Literature. *International Journal of Environmental Research and Public Health*, 11(5), 4745 - 4767.

Filannino, P., Cagno, R. D., Crecchio, C., Virgilio, C. D., Angelis, M. D. & Gobbetti, M. (2016). Transcriptional reprogramming and phenotypic switching associated with the adaptation of *Lactobacillus plantarum* C2 to plant niches. *Scientific Reports*, 6, 27392

Fletcher, S. (2015). Understanding the contribution of environmental factors in the spread of antimicrobial resistance. *Environmental Health and Preventive Medicine*, 20, 243 - 252. doi: 10.1007/s12199-015-0468-0

Floch, N. (2017). Chapter 31 - The Influence of Microbiota on Mechanisms of Bariatric Surgery. *The Microbiota in Gastrointestinal Pathophysiology*, 267 - 281. doi: 10.1016/B978-0-12-804024-9.00031-8

Fournier, B., Klier, A. & Rapoport, G. (2001). The two-component system ArlS-ArlR is a regulator of virulence gene expression in *Staphylococcus aureus*. *Molecular biology*, 41(1), 247 - 61. doi: 10.1046/j.1365-2958.2001.02514.x.

Garch, F. E., Lismond, A., Piddock, L. J. V., Courvalin, P., Tulkens, P. M. & Bambeke, F. V. (2010). Fluoroquinolones induce the expression of *patA* and *patB*, which encode ABC efflux pumps in *Streptococcus pneumoniae*. *Journal of Antimicrobial Chemotherapy*, 65, 2076 - 2082. doi: 10.1093/jac/dkq287

Garcia-Gonzalez, N., Battista, N., Prete, R. & Corsetti, A. (2021). Health-Promoting Role of *Lactiplantibacillus plantarum* isolated from Fermented Foods. *Microorganisms*, 9(2): 349. doi: 10.3390/microorganisms9020349

Gueimonde, M., Sanchez, B., Reyes-Gavilan, & Margolles, A. (2013). Antibiotic resistance in probiotic bacteria. *Frontiers in Microbiology*, 4, 202. doi: 10.3389/fmicb.2013.00202

Hayhurst, E. J., Kailas, L., Hobbs, J. K. & Foster, S. J. (2008). Cell wall peptidoglycan architecture *Bacillus subtilis*. *Proceedings of the National Academy of Sciences of the United States of America*, 105(38), 14603 -

14608. doi: 10.1073/pnas.0804138105

He, Y., Lei, J., Pan, X., Huang, X. & Zhao, Y. (2020). The hydrolytic water molecule of Class A B-lactamase relies on the acyl-enzyme intermediate ES* for proper coordination and catalysis. *Scientific Reports*, 10(10205)

Hill, C., Guarner, F., Reid, G., Gibson, G. R., Merenstein, D. J., Pot, B., Morelli, L., Canani, R. B., Flint, H. J., Salminen, S., Calder, P. C. & Sanders, M. E. (2014). The International Scientific Association for Probiotics and Prebiotics consensus statement on the scope of appropriate use of the term probiotic. *Nature Reviews Gastroenterology & Hepatology*, 11, 506-514. doi: 10.1038/nrgastro.2014.66

Hooper, D. C. (1999). Mechanisms of Fluoroquinolone resistance. *Dug Resistance Update*. 2(1), 38 - 55. doi: 10.1054/drup.1998.0068

Hou, Y. (2010). CCA addition to tRNA: implications for tRNA quality control. *International Union of Biochemistry and Molecular Biology Life*. 62(4), 251-60. doi: 10.1002/iub.301

Hudzicki, J. (2009). *Kirby-Bauer Disk Diffusion Susceptibility Test Protocol*. Retrieved from American Society for Microbiology: <https://asm.org/getattachment/2594ce26-bd44-47f6-8287-0657aa9185ad/Kirby-Bauer-Disk-Diffusion-Susceptibility-Test-Protocol-pdf.pdf> (9 July 2022)

Hughes, D. (2003). Exploiting genomics, genetics and chemistry to combat antibiotic resistance. *Nature Reviews Genetics*, 4(6), 432 - 441. doi: 10.1038/nrg1084

Hummel, A. S., Hertel, C., Holzapfel, W. H. & Franz, C. M. A. P. (2006). Antibiotic Resistances of Starter and Probiotic Strains of Lactic Acid Bacteria. *Applied and Environmental Microbiology*, 73(3), 730 - 739. doi: 10.1128/AEM.02105-06

Hurdle, J. G., O'Neill, A. J., Ingham, E., Fishwick, C. & Chopra, I. (2004). Analysis of Mupirocin Resistance and Fitness in *Staphylococcus aureus* by Molecular Genetic and Structural Modeling Techniques. *Antimicrobial Agents and Chemotherapy*, 48(11). doi: 10.1128/AAC.48.11.4366-4376.2004.

Jacoby, G. A. (2005). Mechanisms of resistance to quinolones. *Clinical Infectious Diseases*, 41(2), S1260-6. doi: 10.1086/428052

Jeong, C., Sohn, H., Hwang, H., Lee, H., Kim, T., Kim, D., Kim, C., Han, S. & Hong, S. (2021). Comparison of the Probiotic Potential between

Lactiplantibacillus planarum Isolated from Kimchi and Standard Probiotic Strains Isolated from Different Sources. *Foods*, 10(9), 2125. doi: 10.3390/foods10092125

Jiang, M., Zhang, F., Wan, C., Xiong, Y., Shah, N. P., Wei, H. & Tao, X. (2016) Evaluation of probiotic properties of *Lactobacillus plantarum* WLPL04 isolated from human breast milk. *Journal of Dairy Science*, 99(3), 1-11. doi: 10.3168/jds.2015-10434

Kaiser, G. (2021). *Horizontal Gene Transfer in Bacteria*. Retrieved from Biology LibreTexts:
[https://bio.libretexts.org/Bookshelves/Microbiology/Book%3A_Microbiology_\(Kaiser\)/Unit_2%3A_Bacterial_Genetics_and_the_Chemical_Control_of_Bacteria/3%3A_Bacterial_Genetics/3.1%3A_Horizontal_Gene_Transfer_in_Bacteria](https://bio.libretexts.org/Bookshelves/Microbiology/Book%3A_Microbiology_(Kaiser)/Unit_2%3A_Bacterial_Genetics_and_the_Chemical_Control_of_Bacteria/3%3A_Bacterial_Genetics/3.1%3A_Horizontal_Gene_Transfer_in_Bacteria) (26 Desember 2021)

Kaiser, G. (2022). *2.4D: Ribosomes*. Retrieved from Biology LibreTexts:
[https://bio.libretexts.org/Bookshelves/Microbiology/Book%3A_Microbiology_\(Kaiser\)/Unit_1%3A_Introduction_to_Microbiology_and_Prokaryotic_Cell_Anatomy/2%3A_The_Prokaryotic_Cell_-_Bacteria/2.4%3A_Cellular_Components_within_the_Cytoplasm/2.4D%3A_Ribosomes](https://bio.libretexts.org/Bookshelves/Microbiology/Book%3A_Microbiology_(Kaiser)/Unit_1%3A_Introduction_to_Microbiology_and_Prokaryotic_Cell_Anatomy/2%3A_The_Prokaryotic_Cell_-_Bacteria/2.4%3A_Cellular_Components_within_the_Cytoplasm/2.4D%3A_Ribosomes) (3 June 2022)

Kampranis, S. C. & Maxwell, A. (1998). Conformational changes in DNA gyrase revealed by limited proteolysis. *Journal of Biology Chemistry*, 273, 22606 - 14. doi: 10.1074/jbc.273.35.22606

Kapoor, G., Saigal, S. & Elongavan, A. (2017). Action and resistance mechanisms of antibiotics: A guide for clinicians. *Journal of Anaesthesiology Clinical Pharmacology*, 33(3), 300 - 305. doi: 10.4103/joacp.JOACP_349_15

Kemnic, T. R. & Coleman, M. (2021). *Trimethoprim Sulfamethoxazole*. Treasure Island: StatPearls Publishing

Khan, Z. A., Siddiqui, M. F. & Park, S. (2019). Current and Emerging Methods of Antibiotic Susceptibility Testing. *Diagnostics (Basel)*, 9(2), 49. doi: 10.3390/diagnostics9020049

Komolafe, O. O. (2003). Antibiotic resistance in bacteria - an emerging public health problem. *Malawi Medical Journal*, 15(2), 63 - 67. doi: 10.4314/mmj.v15i2.10780

Krause, K. M., Serio, A. W., Kane, T. R. & Connolly, L. E. (2016). Aminoglycosides: An Overview. *Cold Spring Harbor Perspectives in Medicine*, 6(6), a027029. doi: 10.1101/cshperspect.a027029

- Kumar, M., Dhaka, P., Vijay, D., Vergis, J., Mohan, V., Kumar, A., Kurkure, N. V., Barbuddhe, S. B., Malik, S.V.S. & Rawool, D. B. (2016). Antimicrobial effects of *Lactobacillus plantarum* and *Lactobacillus acidophilus* against multi-drug resistant enteroaggregative *Escherichia coli*, 48(3), 265 - 70. doi: 10.1016/j.ijantimicag.2016.05.014
- LabMal. (2022). *Mueller Hinton Agar 500g, Oxoid*. Retrieved from LabMal: <https://labmal.com/product/mueller-hinton-agar-500g/> (3 July 2022)
- Larsson, D. G. J. & Flach, C. (2021). Antibiotic resistance in the environment. *Nature Reviews Microbiology*. doi: 10.1038/s41579-021-00649-x
- Liofilchem. (2022). *MRS Agar*. Retrieved from Liofilchem: http://www.liofilchem.net/login/pd/ts/610024_TS-3.pdf (3 July 2022)
- Liu, Y., Liong, M. & Tsai, Y. (2018). New perspectives of *Lactobacillus plantarum* as a probiotic: The gut-heart-brain axis. *Journal of Microbiology*, 56(9), 601-613. doi: 10.1007/s12275-018-8079-2
- Lin, J., Nishino, K., Roberts, M. C., Tolmasky, M., Aminov, R. I. & Zhang, L. (2015). Mechanisms of antibiotic resistance. *Frontiers in Microbiology*, 6. doi: 10.3389/fmicb.2015.00034
- Louisiana Department of Health. (2022). *Macrolides*. Retrieved from Louisiana Department of Health: <https://ldh.la.gov/assets/oph/Center-PHCH/Center-CH/infectious-epi/VetInfo/VetAntibioResSen/LADDL/AntimicrobialClasses/macrolides/Macrolides.pdf> (23 July 2022)
- Lucas, A. P., Silva, E. C., Farias, A. R. B., Albuquerque, M. P. B., Lopes, L. F. V., Barbosa, S. B. P., Batista, A. M. V., Mendonca, M., Pinheiro, R. R., Boeschat, J. U. D. & Silva, E. R. (2021). B-lactam resistance in coagulase-negative *Staphylococcus* isolated from subclinical goat mastitis. *Pesquisa Agropecuaria Brasileira*, 56, e02173. doi: 10.1590/S1678-3921.pab2021.v56.02173
- Marians, K. J. & Hiasa, H. (1997). Mechanism of quinolone action. A drug-induced structural perturbation of the DNA precedes strand cleavage by topoisomerase IV. *Journal of Biology Chemistry*, 272(14), 9401-9. doi: 10.1074/jbc.272.14.9401
- Matsumura, N. & Mitsuhashi, S. (1995). A B-Lactamase from *Serratia marcescens* Hydrolyzing the 2-Carboxyphenam T-5575. *Antimicrobial Agents and Chemotherapy*, 39(9), 2132 - 2134
- Meroni, G., Panelli, S., Zuccotti, G., Bandi, C., Drago, L. & Pistone, D. (2021). Probiotics as Therapeutic Tools against Pathogenic Biofilms: Have We

Found the Perfect Weapon. *Microbiology Research*, 12, 916 - 937. doi: 10.3390/microbiolres12040068

Milken Institute School of Public Health. (2017). *How Bacteria Build Resistance at the Cellular Level*. Retrieved from Online Public Health: <https://onlinepublichealth.gwu.edu/resources/antibiotic-resistance-at-cellular-level/> (25 Desember 2021)

Mohamudha, P. R., Harish, B. N. & Parija, S. C. (2010). AmpC beta lactamases among Gram negative clinical isolates from a tertiary hospital, South India. *Brazilian Journal of Microbiology*, 41(3). doi: 10.1590/S1517-83822010000300009

Muller, A., Hachler, H., Stephan, R. & Lehner, A. (2014). Presence of AmpC Beta-Lactamases, CSA-1, CSA-2, CMA-1 and CMA-2 Conferring an Unusual Resistance Phenotype in *Cronobacter sakazakii* and *Cronobacter malonicus*. *Microbial Drug Resistance*, 20(4). doi: 10.1089/mdr.2013.0188

Muthusamy, K., Soundharajan, I., Srigopalram, S. & Kim, D. (2020). Probiotic Characteristics and Antifungal Activity of Lactobacillus plantarum and its Impact on Fermentation of Italian Ryegrass at Low Moisture. *Applied Sciences*, 10(1), 417. doi: 10.3390/app10010417

National Health Service. (2019). *Antibiotics*. Retrieved from National Health Service: <https://www.nhs.uk/conditions/antibiotics/> (26 Desember 2021)

Nishino, K. & Yamagushi, A. (2002). EvgA of the Two Component Signal Transduction System Modulates Production of the YhiUV Multidrug Transporter in *Escherichia Coli*. *Journal of Bacteriology*, 184(8), 2319 - 2323. doi: 10.1128/JB.184.8.2319-2323.2002

O'Donnell, J. A., Gelone, S. P. & Safdar, A. (2015). 37 - Topical Antibacterials. *Mandell, Douglas, and Bennett's Principles and Practice of Infectious Diseases (Eight Edition)*, 1, 452-462.e2. doi: 10.1016/B978-14557-4801-3.00037-0

OMICS Online. (2015). *Classification of Antibiotics*. Retrieved from OMICS Online: <https://www.omicsonline.org/blog/2015/02/06/1114-Classification-of-Antibiotics.html> (3 June 2022)

Oliveira, K. S., Lima, L. A., Cobacho, N. B., Dias, S. C. & Franco, O. L. (2016). Chapter 2 - Mechanisms of Antibacterial Resistance: Shedding Some Light on These Obscure Processes. *Antibiotic Resistance*, 19 - 35. doi: 10.1016/B978-0-12-803642-6.00002-2

- Patel, J. B., Gorwitz, R. J. & Jernigan, J. A. (2009). Mupirocin Resistance. *Clinical Infectious Diseases*, 49, 935 - 41. doi: 10.1086/605495
- Patel, R., Piper, K., Cockerill, F. R., Steckelberg, J. M. & Yousten, A. A. (2000). The Biopesticide *Paenibacillus popilliae* Has a Vancomycin Resistance Gene Cluster Homologous to the Enterococcal VanA Vancomycin Resistance Gene Cluster. *Antimicrobial Agents and Chemotherapy*, 44(3), 705 - 709. doi: 10.1128/aac.44.3.705-709.2000
- Paukner, S. & Riedl, R. (2017). Pleuromutilins: Potent Drugs for Resistant Bugs - Mode of Action and Resistance. *Cold Spring Harbor Perspectives in Medicine*, 7(1), a027110. doi: 10.1101/cshperspect.a027110
- Pawlowski, A. C., Wang, W., Koteva, K., Barton, H. A., McArthur, A. G. & Wright, G. D. (2016). A diverse intrinsic antibiotic resistome from a cave bacterium. *Nature Communications*, 7, 13803. doi: 10.1038/ncomms13803
- Peterson, E. & Kaur, P. (2018). Antibiotic Resistance Mechanisms in Bacteria: Relationships Between Resistance Determinants of Antibiotic Producers, Environmental Bacteria, and Clinical Pathogens. *Antimicrobials, Resistance and Chemotherapy*. doi: 10.3389/fmicb.2018.02928
- Phothirath, P., Solano-Aguilar, G. & Vaughan, E. (2010). Safety assessment of probiotics for human use. *Gut Microbes*, 1(3), 164 - 185. doi: 10.4161/gmic.1.3.12127
- Rahman, M. & Sarker, S. D. (2020). Chapter Three - Antimicrobial natural products. *Annual Reports in Medicinal Chemistry*, 55, 77 - 113. doi: 10.1016/bs..armc.2020.06.001
- Redgrave, L. S., Sutton, S. B., Webber, M. A. & Piddock, L. J. V. (2014). Fluoroquinolone resistance: mechanisms, impact on bacteria and role in evolutionary success. *Trends in Microbiology*, 22(8). doi: 10.1016/j.tim.2014.04.007
- Rees, D. C., Johnson, E. & Lewinson, O. (2009). ABC transporters: the power to change. *Nature Reviews Molecular Cell Biology*, 10, 218 - 227. doi.org/10.1038/nrm2646
- Reygaert, W. C. (2018). An overview of the antimicrobial resistance mechanisms of bacteria. *AIMS Microbiology*, 43(3), 482-501. doi: 10.3934/microbiol.2018/3/482
- Sanders, M. E. & Lebeer, S. (2015). *New names for important probiotic Lactobacillus species*. Retrieved from International Scientific Association of Probiotics and Prebiotics: <https://isappscience.org/new-names-for->

important-probiotic-lactobacillus-species/ (22 May 2022)

- Sanders, M. E., Louis, M. A. A., Haller, D., Hammerman, C., Heimbach, J., Hörmannsperger, G., Huys, G., Levy, D. D., Lutgendorff, F., Mack, D.,
- Schindler B. D. & Kaatz, G. W. (2016). Multidrug efflux pumps of Gram-positive bacteria. *Drug Resistance Update*, 27, 1-3.
- Schiraldi, C. & De Rosa, M. (2014). Mesophilic Organisms. *Encyclopedia of Membranes*, 1-2. doi: 10.1007/978-3-642-40872-4_1610-2
- Seoane, A. & Bou, G. (2021). Bioinformatics approaches to the study of antimicrobial resistance. *Revista Espanola de Uimioterapia*, 34(1), 15 - 17. doi: 10.37201/req/s01.04.2021
- Serio, A. W., Keepers, T., Andrews, L. & Krause, K. M. (2018). Aminoglycoside Revival: Review of a Historically Important Class of Antimicrobials Undergoing Rejuvenation. *EcoSal Plus*, 8, 1. doi: 10.1128/ecosalplus.ESP-0002-2018
- Shao, Y., Zhang, W., Guo, H. & Pan, L. (2015). Comparative studies on antibiotic resistance in *Lactobacillus casei* and *Lactobacillus plantarum*. *Food Control*, 50, 250 - 258. doi: 10.1016/j.foodcont.2014.09.003
- Sharma, A., Gupta, V. K. & Pathania, R. (2019). Efflux pump inhibitors for bacterial pathogens: From bench to bedside. *Indian Journal of Medical Research*, 149(2), 129 - 145. doi: 10.4103/ijmr.IJMR_2079_17
- Sharma, C., Gulati, S., Thakur, N., Singh, B. P., Gupta, S., Kaur, S., Mishra, S. K., Puniya, A. K., Gill, J. P. S. & Panwar, H. (2017). Antibiotic sensitivity pattern of indigenous lactobacilli isolated from curd and human milk samples. *3 Biotech*, 7, 53. doi: 10.1007/s13205-017-0628-0
- Shutter, M. C. & Akhondi, H. (2022). *Tetracycline*. Treasure Island: StatPearls Publishing
- Slonczewski, J. (2014). *Lactobacillus plantarum and its biological implication*. Retrieved from Microbewiki: https://microbewiki.kenyon.edu/index.php/Lactobacillus_plantarum_and_its_biological_implications (27 Desember 2021)
- Suresh, A. B., Rosani, A. & Wadhwa, R. (2022). *Rifampin*. Treasure Island: StatPearls Publishing
- Svetlov, M. S., Koller, T. O., Meydan, S., Shankar, V., Klepacki, D., Polacek, N., Guydosh, N. R., Vazquez-Laslop, N., Wilson, D. N. & Mankin, A. S.

- (2021). Context-specific action of macrolide antibiotics on the eukaryotic ribosome. *Nature Communications*, 12, 2803
- Sykes, J. E. & Papich, M. G. (2014). Chapter 8 - Antibacterial Drugs. *Canine and Feline Infectious Diseases*, 66 - 86. doi: 10.1016/B978-1-4377-0795-3.00008-9
- Tenson, T., Lovmar, M. & Ehrenberg, M. (2003). The mechanisms of action of macrolides, lincosamides and streptogramin B reveals the nascent peptide exit path in the ribosome. *Journal of Molecular Biology*, 330(5), 1005-14. doi: 10.1016/s0022-2836(03)00662-4
- Todorov, S. D., Perin, L. M., Carneiro, B. M., Rahal, P., Holzapfel, W. & Nero, L. A. (2017). Safety of *Lactobacillus plantarum* ST8Sh and its bacteriocin. *Probiotics Antimicrobial Proteins*, 9, 334 - 344. doi: 10.1007/s12602-017-9260-3
- Tran, T. T., Munita, J. M. & Arias, C. A. (2015). Mechanisms of Drug Resistance: Daptomycin Resistance. *Annals of the New York Academy of Sciences*, 1354, 32 - 53. doi: 10.1111/nyas.12948
- Truong-Bolduc, Q. C., Dunman, P. M., Strahilevitz, J., Projan, S. J. & Hooper, D. C. (2005). MgrA is a Multiple Regulator of Two New Efflux Pumps in *Staphylococcus aureus*. *Journal of Bacteriology*, 187(7), 2395 - 2405. doi: 10.1128/JB.187.7.2395-2405.2005
- Van Reenen, C. A., Dicks, L. M. & Chikindas, M. L. (1998). Isolation, purification and partial characterization of pantaricin 423, a bacteriocin produced by *Lactobacillus plantarum*. 84(6), 1131 - 7. doi: 10.1046/j.1365-2672.1998.00451.x.
- Ventola, C. L. (2015). The Antibiotic Resistance Crisis. *Pharmacy and Therapeutics*, 40(4), 277 - 283.
- Webber, M. A., Ricci, V., Whitehead, R., Patel, M., Fookes, M., Ivens, A. & Piddock, L. J. V. (2013). Clinically relevant mutant DNA gyrase alters supercoiling, changes the transcriptome, and confers multidrug resistance. *mBio*, 4(4), e00273-13. doi: 10.1128/mBio.00273-13
- Werth, B. J. (2022). *Beta Lactams*. Retrieved from MSD Manual Professional Version: <https://www.msdsmanuals.com/professional/infectious-diseases/bacteria-and-antibacterial-drugs/carbapenems> (4 July 2022)
- Wong, E. V. (2021). 10.2: *Prokaryotic Ribosomes*, Retrieved from Biology LibreTexts: https://bio.libretexts.org/Bookshelves/Cell_and_Molecular_Biology/Book

%3A_Cells_-
_Molecules_and_Mechanisms_(Wong)/10%3A_Translation/10.02%3A_P
rokaryotic_Ribosomes (6 June 2022)

World Health Organization. (2021). *Antimicrobial resistance*. Retrieved from World Health Organization: <https://www.who.int/news-room/fact-sheets/detail/antimicrobial-resistance> (30 May 2022)

Xiao, X., Sun, J., Yang, T., Fang, X., Cheng, J., Xiong, Y. & Liu, Y. (2016). Pharmacokinetic/Pharmacodynamic Profiles of Tiamulin in an Experimental Intratracheal Infection Model of *Mycoplasma gallisepticum*. *Veterinary Pharmacology and Toxicology*. doi: 10.3389/fvets.2016.00075

Yang, H., Cheng, J., Hu, L., Zhu, Y. & Li, J. (2012). Mechanisms of antimicrobial resistance in *Serratia marcescens*. *African Journal of Microbiology Research*, 6(21), 4427 - 4437. doi: 10.5897/AJMR11.1545

Yoshida, K., Ohki, Y., Murata, M., Kinehara, M., Matsuoka, H., Satomura, T., Ohki, R., Kumano, M., Yamane, K. & Fujita, Y. (2004). *Bacillus subtilis* LmrA Is a Repressor of the *lmrAB* and *yxaGH* Operons: Identification of Its Binding Site and Functional Analysis of *lmrB* and *yxaGH*. *Journal of Bacteriology*, 186(17), 5640 - 5648. doi: 10.1128/JB.186.17.5640-5648.2004

Zhang, S., Oh, J., Alexander, L. M. & Ozcam, M. (2018). D-Ala-D-Ala ligase as a broad host-range counterselection marker in vancomycin-resistant lactic acid bacteria. *Journal of Bacteriology*, 200(13), JB.00607-17. doi: 10.1128/JB.00607-17

Zheng, L., Hu, Y., He, X., Zhao, Y. & Xu, H. (2020). Isolation of swine-derived *Lactobacillus plantarum* and its synergistic antimicrobial and health-promoting properties with ZnO nanoparticles. *Journal of Applied Microbiology*, 128, 1764 - 1775. doi: 10.1111/jam.146