

## DAFTAR PUSTAKA

- Abdelsattar, A. S., Safwat, A., Nofal, R., Elsayed, A., Makky, S., & El-Shibiny, A. (2021). Isolation and Characterization of Bacteriophage ZCSE6 Against *Salmonella* spp.: Phage Application in Milk. *Biologics*, *1*(2), 164–176. <https://doi.org/10.3390/biologics1020010>
- Akhwale, J. K., Rohde, M., Rohde, C., Bunk, B., Spröer, C., Boga, H. I., Klenk, H. P., & Wittmann, J. (2019). Isolation, Characterization and Analysis of Bacteriophages from the Haloalkaline Lake Elmenteita, Kenya. *PLoS ONE*, *14*(4), 1–19. <https://doi.org/10.1371/journal.pone.0215734>
- Anggara, A., Manalu, K., & Rasyidah. (2020). Uji Bakteri *Escherichia coli* pada Air Sungai Piam. *KLOROFIL*, *4*(1), 6–10.
- Bonilla, N., Rojas, M. I., Cruz, G. N. F., Hung, S. H., Rohwer, F., & Barr, J. J. (2016). Phage on Tap-a Quick and Efficient Protocol for the Preparation of Bacteriophage Laboratory Stocks. *PeerJ*, *2016*(7), 1–18. <https://doi.org/10.7717/peerj.2261>
- Cho, S., Hiott, L. M., Barrett, J. B., McMillan, E. A., House, S. L., Humayoun, S. B., Adams, E. S., Jackson, C. R., & Frye, J. G. (2018). Prevalence and Characterization of *Escherichia coli* Isolated from The Upper Oconee Watershed in Northeast Georgia. *PLOS ONE*, *13*(5), 1–15. <https://doi.org/10.1371/journal.pone.0197005>
- Doss, J., Culbertson, K., Hahn, D., Camacho, J., & Berekzi, N. (2017). A Review of Phage Therapy Against Bacterial Pathogens of Aquatic and Terrestrial Organisms. *Viruses*, *9*(3). <https://doi.org/10.3390/v9030050>
- Duc, H. M., Son, H. M., Yi, H. P. S., Sato, J., Ngan, P. H., Masuda, Y., Honjoh, K. ichi, & Miyamoto, T. (2020). Isolation, characterization and application of a polyvalent phage capable of controlling *Salmonella* and *Escherichia coli* O157:H7 in different food matrices. *Food Research International*, *131*(January), 108977. <https://doi.org/10.1016/j.foodres.2020.108977>
- Erliandinata, F., Sari, P. K., & Ramadhani, D. (2017). *Gambaran Escherichia coli pada Air Sungai Desa Sungai Danau Kecamatan Satui Maret 2017*. July, 1–23.
- Fister, S., Robben, C., Witte, A. K., Schoder, D., Wagner, M., & Rossmannith, P. (2016). Influence of Environmental Factors on Phage-Bacteria Interaction and on the Efficacy and Infectivity of Phage P100. *Frontiers in Microbiology*, *7*(JUL), 1–13. <https://doi.org/10.3389/fmicb.2016.01152>
- Guo, M., Gao, Y., Xue, Y., Liu, Y., Zeng, X., Cheng, Y., Ma, J., Wang, H., Sun, J., Wang, Z., & Yan, Y. (2021). Bacteriophage Cocktails Protect Dairy Cows Against Mastitis Caused By Drug Resistant *Escherichia coli* Infection.

*Frontiers in Cellular and Infection Microbiology*, 11 (June), 1–11.  
<https://doi.org/10.3389/fcimb.2021.690377>

Hamdallah, I., Torok, N., Bischof, K. M., Majdalani, N., Chadalavada, S., Mdluli, N., Creamer, K. E., Clark, M., Holdener, C., Basting, P. J., Gottesman, S., & Slonczewski, J. L. (2018). Experimental evolution of *Escherichia coli* K-12 at high pH and with RpoS induction. *Applied and Environmental Microbiology*, 84(15), 1–17. <https://doi.org/10.1128/AEM.00520-18>

Harada, L. K., Silva, E. C., Campos, W. F., Del Fiol, F. S., Vila, M., Dąbrowska, K., Krylov, V. N., & Balcão, V. M. (2018). Biotechnological Applications of Bacteriophages: State of the Art. *Microbiological Research*, 212–213(February), 38–58. <https://doi.org/10.1016/j.micres.2018.04.007>

Hassan, M., Ahaduzzaman, M., Alam, M., Bari, M., Amin, K., & Faruq, A. (2016). Antimicrobial Resistance Pattern against *E. coli* and *Salmonella* spp. in Environmental Effluents. *International Journal of Natural Sciences*, 5(2), 52–58. <https://doi.org/10.3329/ijns.v5i2.28612>

Hills, A. E. (2017). Spectroscopy in Biotechnology Research and Development. In *Encyclopedia of Spectroscopy and Spectrometry* (3rd ed.). Elsevier Ltd. <https://doi.org/10.1016/B978-0-12-803224-4.00035-2>

Hu, Y., Tong, S., Li, P., An, X., Song, L., Fan, H., & Tong, Y. (2021). Characterization and genome sequence of the genetically unique *Escherichia* bacteriophage vB\_EcoM\_IME392. *Archives of Virology*, 166(9), 2505–2520. <https://doi.org/10.1007/s00705-021-05160-5>

Hyman, P. (2019). Phages for Phage Therapy: Isolation, Characterization, and Host Range Breadth. *Pharmaceuticals*, 12(1). <https://doi.org/10.3390/ph12010035>

Ismawati, R., Rahayu, R., & Dewantari, N. (2020). Kualitas Mata Air Sembir untuk Pemenuhan Kebutuhan Air Bersih. *Indonesian Journal of Natural Science Education (IJNSE)*, 03(1), 252–256.

Iswadi. (2016). Fage Litik Spesifik *Escherichia coli* pada Limbah Cair Pasar Tradisional di Kota Banda Aceh. *Jurnal Biotik*, 4(2), 95–99.

Jang, J., Hur, H. G., Sadowsky, M. J., Byappanahalli, M. N., Yan, T., & Ishii, S. (2017). Environmental *Escherichia coli*: ecology and public health implications—a review. *Journal of Applied Microbiology*, 123(3), 570–581. <https://doi.org/10.1111/jam.13468>

Kakasis, A., & Panitsa, G. (2019). Bacteriophage Therapy as an Alternative Treatment for Human Infections. A Comprehensive Review. *International Journal of Antimicrobial Agents*, 53(1), 16–21. <https://doi.org/10.1016/j.ijantimicag.2018.09.004>

Kawa, Z. D., Majkowska-Skrobek, G. yna, Maciejewska, B., Delattre, A.-S., &

- Lavigne, R. (2013). Learning from Bacteriophages - Advantages and Limitations of Phage and Phage-Encoded Protein Applications. *Current Protein and Peptide Science*, 13(8), 699–722. <https://doi.org/10.2174/138920312804871193>
- Keen, E. C. (2014). Tradeoffs in Bacteriophage Life Histories. *Bacteriophage*, 4(2), 1–8. <https://doi.org/10.4161/bact.28365>
- Lingga, R. (2018). *Pengendalian Escherichia coli Patogen dari Limbah Cair Rumah Sakit Menggunakan Bakteriofag*.
- Lingga, R., Budiarti, S., Rusmana, I., & Wahyudi, A. T. (2020). Isolation, Characterization and Efficacy of Lytic Bacteriophages Against Pathogenic *Escherichia coli* from Hospital Liquid Waste. *Biodiversitas*, 21(7), 3234–3241. <https://doi.org/10.13057/biodiv/d210745>
- Litt, P. K., & Jaroni, D. (2017). Isolation and Physiomorphological Characterization of *Escherichia coli* O157:H7-Infecting Bacteriophages Recovered from Beef Cattle Operations. *International Journal of Microbiology*, 2017. <https://doi.org/10.1155/2017/7013236>
- Liu, A., Liu, Y., Peng, L., Cai, X., Shen, L., Duan, M., Ning, Y., Liu, S., Li, C., Liu, Y., Chen, H., Wu, W., Wang, X., Hu, B., & Li, C. (2020). Characterization of the Narrow-Spectrum Bacteriophage LSE7621 Towards *Salmonella enteritidis* and its Biocontrol Potential on Lettuce and Tofu. *Lwt*, 118(October 2019), 108791. <https://doi.org/10.1016/j.lwt.2019.108791>
- Malik, D. J. (2021). Bacteriophage encapsulation using spray drying for phage therapy. *Current Issues in Molecular Biology*, 40, 303–316. <https://doi.org/10.21775/cimb.040.303>
- Necel, A., Bloch, S., Nejman-Faleńczyk, B., Grabski, M., Topka, G., Dydecka, A., Kosznik-Kwaśnicka, K., Grabowski, Ł., Jurczak-Kurek, A., Wołkowicz, T., Węgrzyn, G., & Węgrzyn, A. (2020). Characterization of a Bacteriophage, vB\_Eco4M-7, that Effectively Infects Many *Escherichia coli* O157 Strains. *Scientific Reports*, 10(1), 1–14. <https://doi.org/10.1038/s41598-020-60568-4>
- Niu, Y. D., Stanford, K., Kropinski, A. M., Ackermann, H. W., Johnson, R. P., She, Y. M., Ahmed, R., Villegas, A., & McAllister, T. A. (2012). Genomic, Proteomic and Physiological Characterization of a T5-Like Bacteriophage for Control of Shiga Toxin-Producing *Escherichia coli* O157:H7. *PLoS ONE*, 7(4). <https://doi.org/10.1371/journal.pone.0034585>
- Nobrega, F. L., Costa, A. R., Santos, J. F., Siliakus, M. F., Lent, J. W. M. Van, Kengen, S. W. M., Azeredo, J., & Kluskens, L. D. (2016). Genetically Manipulated Phages with Improved pH Resistance for Oral Administration in Veterinary Medicine. *Nature Publishing Group*, 6:39235(November), 1–12. <https://doi.org/10.1038/srep39235>

- Ofir, G., & Sorek, R. (2018). Contemporary Phage Biology: From Classic Models to New Insights. *Cell*, 172(6), 1260–1270. <https://doi.org/10.1016/j.cell.2017.10.045>
- Pratiwi, R. H. (2017). Mekanisme Pertahanan Bakteri Patogen Terhadap Antibiotik. *Jurnal Pro-Life*, 4(3), 418–429.
- Pratiwi, R. H. (2021). Virus Bakteri Sebagai Terapi Untuk Penyakit Infeksi. *BIOEDUSAINS: Jurnal Pendidikan Biologi Dan Sains*, 4(2), 193–204.
- Rahayu, W. P., Nurjanah, S., & Komalasari, E. (2018). *Escherichia coli*: Patogenitas, Analisis, dan Kajian Risiko. In *IPB Press* (Vol. 53, Issue 9).
- Ramirez, K., Cazarez-Montoya, C., Lopez-Moreno, H. S., & Castro-del Campo, N. (2018). Bacteriophage Cocktail for Biocontrol of *Escherichia coli* O157:H7: Stability and Potential Allergenicity Study. *PLoS ONE*, 13(5), 1–19. <https://doi.org/10.1371/journal.pone.0195023>
- Sankaran, N. (2020). Introduction: Diversifying the Historiography of Bacteriophages. *Notes and Records: The Royal Society Journal of the History of Science*, 74(4), 533–538. <https://doi.org/10.1098/rsnr.2020.0037>
- Stromberg, Z. R., Van Goor, A., Redweik, G. A. J., Wymore Brand, M. J., Wannemuehler, M. J., & Mellata, M. (2018). Pathogenic and Non-Pathogenic *Escherichia coli* Colonization and Host Inflammatory Response in A Defined Microbiota Mouse Model. *DMM Disease Models and Mechanisms*, 11(9), 1–38. <https://doi.org/10.1242/dmm.035063>
- Suprobowati, O. D., & Kurniati, I. (2018). *Virologi* (Vol. 1). Pusat Pendidikan Sumber Daya Manusia Kesehatan.
- Wulandari, W. S. S. (2020). Identifikasi Cemaran Bakteri ( TPC , Colliform , *Escherichia coli* dan *Salmonella* ) pada Daging Ayam Ras yang Dijual di Pasar Tradisional Kota Pekanbaru. *Skripsi Peternakan*, 1–75.
- Yazdi, M., Bouzari, M., Ghaemi, E. A., & Shahin, K. (2020). Isolation, Characterization and Genomic Analysis of a Novel Bacteriophage VB\_EcoS-Golestan Infecting Multidrug-Resistant *Escherichia coli* Isolated from Urinary Tract Infection. *Scientific Reports*, 10(1), 1–13. <https://doi.org/10.1038/s41598-020-63048-x>
- Yeh, Y., de Moura, F. H., Van Den Broek, K., & de Mello, A. S. (2018). Effect of Ultraviolet Light, Organic Acids, and Bacteriophage on *Salmonella* Populations in Ground Beef. *Meat Science*, 139, 44–48. <https://doi.org/10.1016/j.meatsci.2018.01.007>
- Zhang, Z., Yu, F., Zou, Y., Qiu, Y., Wu, A., Jiang, T., & Peng, Y. (2020). Phage

Protein Receptors have Multiple Interaction Partners and High Expressions.  
*Bioinformatics*, 36 (10), 2975–2979.  
<https://doi.org/10.1093/bioinformatics/btaa123>