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Daftar Pustaka

Abdelsattar, A. S., A. Dawoud, S. Makky, R. Nofal, R. K. Aziz, & A. El-Shibiny. 2021. Bacteriophages: from Isolation to Application. *CURRENT PHARMACEUTICAL BIOTECHNOLOGY*. Vol. 22(3): 1-24

Arna, Y.D., Wasdili, F.A.Q., Rahayu, S.M., Agustina, F., Sya'diah, Y., Hijriana, I., Wilankrisna, L.A., Firdaus, I., Hutagalung, R., Efendi, S., Yudiatma, M.F., Rahmi, S., Malia, A., Gultom, E.D., Rokot, A., Astuti, R.A., Tangka, J., Novilla, A. & Imelda, 2024. *Bunga Rampai Anatomi Fisiologi Tubuh Manusia*. Cetakan Pertama. Cilacap: PT Media Pustaka Indo. pp.17-197

Basavaraju, M. & B. S. Gunashree. 2022. Escherichia coli: An Overview of Main Characteristics. Dalam: M. S. Erjavec, ed. *Escherichia coli - Old and New Insights*. IntechOpen. pp. 1-50

Dunne, M., N. S. Prokhorov, M. J. Loessner, & P. G. Leiman. 2021. Reprogramming bacteriophage host range: design principles and strategies for engineering receptor binding proteins. *Current Opinion in Biotechnology*. Vol. 68: 272–281.

Febriza, M. A., Adrian, Q. J. & Sucipto, A. 2021. Penerapan air dalam media pembelajaran klasifikasi bakteri. *Jurnal Program Studi Pendidikan Biologi*. Vol. 11(1): 10-18

Fister, S., Robben, C., Witte, A. K., Schoder, D., Wagner, M. & Rossmanith, P. 2016. Influence of Environmental Factors on Phage–Bacteria Interaction and on the Efficacy and Infectivity of Phage P100. *Frontiers in Microbiology*. Vol. 7: 1152

Fowoyo, P.T., 2024. Phage Therapy: Clinical Applications, Efficacy, and Implementation Hurdles. *The Open Microbiology Journal*. Vol. 18: 1-11

Geurtsen, J., M. de Been, E. Weerdenburg, A. Zomer, A. McNally, & J. Poolman. 2022. Genomics and pathotypes of the many faces of

UNIVERSITAS
GADJAH MADA
Karakterisasi Biologis Bakteriofaga Escherichia coli Strain SCV Berdasarkan Stabilitas Terhadap pH, Suhu, dan Jangkauan Inang
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Escherichia coli. *FEMS MICROBIOLOGY REVIEWS*. Vol. 46(6): 1-30.

Golec, P., K. Dąbrowski, M. S. Hejnowicz, A. Gozdek, J. M. Łoś, G. Węgrzyn, M. B. Łobocka, & M. Łoś. 2011. A reliable method for storage of tailed phages. JOURNAL OF MICROBIOLOGICAL METHODS. Vol. 84(3): 486-489

Hyman, P., 2019. Phages for Phage Therapy: Isolation, Characterization, and Host Range Breadth. *Pharmaceuticals*. Vol. 12(1): 35.

Janda, J. M, & Abbott S.L. 2021. The Changing Face of the Family Enterobacteriaceae (Order: Enterobacterales): New Members, Taxonomic Issues, Geographic Expansion, and New Diseases and Disease Syndromes. *Clinical Microbiology Reviews*, 34(2):e00174-20.

Kim, G. H., J. W. Kim, J. Kim, J. P. Chae, J. S. Lee, & S. S. Yoon. 2020. genetic analysis and characterization of a bacteriophage øcj19 active against enterotoxigenic escherichia coli. *FOOD SCIENCE OF ANIMAL RESOURCES*. Vol. 40(5): 746–757

Kropinski, A. M., A. Mazzocco, T. E. Waddell, E. Lingohr, & R. P. Johnson. 2009. Enumeration of Bacteriophages by Double Agar Overlay Plaque Assay. *METHODS IN MOLECULAR BIOLOGY*. Vol. 501: 69-76

Kukus, Y., W. Supit, & F. Lintong. 2009. Suhu Tubuh: Homeostasis dan Efek Terhadap Kinerja Tubuh Manusia. JURNAL BIOMEDIK. Vol. 1(2): 107-118

Li, Y., Kumar, S. & Zhang, L. 2024. mechanisms of antibiotic resistance and developments in therapeutic strategies to combat klebsiella pneumoniae infection. *Infection and Drug Resistance*. Vol.1(17): 1107-1119

Lin, D.M., Koskella, B. & Lin, H.C., 2017. Phage therapy: An alternative to antibiotics in the age of multi-drug resistance. *World Journal of Gastrointestinal Pharmacology and Therapeutics*, 8(3): 162–173.

Mentari, D., Widada, J., Wibawa, T. & Wijayanti, N., 2020. Penghambatan Cythophatic Effect (CPE) pada Sel BHK-21 yang Terinfeksi Virus Dengue Serotipe 4 (DENV-4) dengan Pemberian Ekstrak N-Heksan Streptomyces sp. GMR22. *BIOMA: Jurnal Biologi Makassar*, 5(2):

UNIVERSITAS
GADJAH MADA
Karakterisasi Biologis Bakteriofaga Escherichia coli Strain SCV Berdasarkan Stabilitas Terhadap pH, Suhu, dan Jangkauan Inang
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151–160.

Perrin, E., V. Ghini, M. Giovannini, F. Di Patti, B. Cardazzo, L. Carraro, C. Fagorzi, P. Turano, R. Fani, & M. Fondi. 2020. Diauxie and co-utilization of carbon sources can coexist during bacterial growth in nutritionally complex environments. *NATURE COMMUNICATIONS*. Vol. 11(3135): 1-15

Poirel, L., J.-Y. Madec, A. Lupo, A.-K. Schink, N. Kieffer, P. Nordmann, & S. Schwarz. 2018. Antimicrobial Resistance in *Escherichia coli*. *Microbiology Spectrum*. Vol. 6 (4): 1-27.

Pratiwi, R. H. 2021. virus bakteri sebagai terapi untuk penyakit infeksi. *BIOEDUSAINS: Jurnal Pendidikan Biologi dan Sains*. Vol. 4(2): 193-204

Pradeep, A. N., S. Ramasamy, J. K. Veniemilda, & C. S. Vinod Kumar. 2022. effect of ph & temperature variations on phage stability a crucial prerequisite for successful phage therapy. *INTERNATIONAL JOURNAL OF PHARMACEUTICAL SCIENCES AND RESEARCH*. Vol. 13(12): 5178-5182

Rahman, M.A., Abraham, R., Hampson, D.J., Abraham, S. & Uddin, J.M., 2026. Current Challenges and Potential Strategies to Enhance Efficacy of Oral Phage Therapy in Food Animals: A Systematic Review with Quantitative Analysis. *Viruses*, 18(5), p.544.

Ranveer, S, A., Darsiya, V., Ahmad, M, F., Dhillon, H. S., Samtiya, M., Shama, E., Anandm T., Dhewa, T., Chaudhary, V., Chaudhary, P., Behare, P., Ram, C., Puniya, D. V., Khedkar, G. D., Raposo, A., Han, H. & Puniya, A. K. 2024. positive and negative aspects of bacteriophages and their immense role in the food chain. *Science of Food*. Vol.8(1): 1-13

Ranalli, G., Zanardini, E. & Sorlini, C., 2019. Biodeterioration – Including Cultural Heritage. In: T.M. Schmidt, ed., *Encyclopedia of Microbiology*. Edisi ke-4. Amsterdam: Elsevier, pp. 293–307.

Roshal, D., O. Konevtsova, A. Lošdorfer Božič, R. Podgornik, & S. Rochal.

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GADJAH MADA
Karakterisasi Biologis Bakteriofaga Escherichia coli Strain SCV Berdasarkan Stabilitas Terhadap pH, Suhu, dan Jangkauan Inang
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2019. pH-induced morphological changes of proteinaceous viral shells. *SCIENTIFIC REPORTS*. Vol. 9(5341): 1-11

Salvy, P., & V. Hatzimanikatis. 2021. Emergence of diauxie as an optimal growth strategy under resource allocation constraints in cellular metabolism. *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*. Vol. 118(8): e2013836118

Sezonov, G., Joseleau-Petit, D. & D'Ari, R., 2007. Escherichia coli Physiology in Luria-Bertani Broth. *Journal of Bacteriology*, 189(23), pp. 8746–8749.

Shamsuzzaman, M., Kim, S. & Kim, J., 2024. Bacteriophage as a novel therapeutic approach for killing multidrug-resistant *Escherichia coli* ST131 clone. *Frontiers in Microbiology*, 15: 1455710.

Shavira, A., Cahyadi, A. I. & Windira, S. 2022. aktivitas antibakteri dari bakteriosin lactobacillus spp. terhadap bakteri resistan. *Jurnal Sains Veteriner*. Vol. 40(1): 60-72

Suryani, Y. & Taupiqurrahman, O. 2021. *MIKROBIOLOGI DASAR*. Edisi Pertama LP2M UIN SGD. Bandung. 27-29

Sukertiasih, N, K., Megawati, F., Meriyani, H. & Sanjaya, D. A. 2021. studi retrospektif gambaran resistensi bakteri terhadap antibiotik. *JURNAL ILMIAH MEDICAMENTO*. Vol. 7(2): 108-111

Tuah, S. Z., A. E. Mongan, & M. F. Wowor. 2016. Gambaran pH urin pada pasien tuberkulosis paru dewasa di RSUP Prof. Dr. R. D. Kandou manado. *JURNAL E-BIOMEDIK*. Vol. 4(2): 1-7

Ughy, B., S. Nagyapati, D. B. Lajko, T. Letoha, A. Prohaszka, D. Deeb, A. Der, A. Pettko-Szandtner, & L. Szilak. 2023. Reconsidering Dogmas about the Growth of Bacterial Populations. *CELLS*. Vol. 12(10): 1430

Uthami, F. N., & Irdawati. 2024. Karakteristik Pola Pertumbuhan Bakteri Termofilik Isolat MS-12 dari Sumber Air Padas Mudiak Sapan. *MASALIQ: Jurnal Pendidikan dan Sains*. Vol. 4(1): 344-351

Viljoen, A., S. J. Foster, G. E. Fantner, J. K. Hobbs, & Y. F. Dufrêne. 2020.

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Karakterisasi Biologis Bakteriofaga Escherichia coli Strain SCV Berdasarkan Stabilitas Terhadap pH, Suhu, dan Jangkauan Inang
Wenzeslaus Handanisworo, Dr.rer.nat. Abdul Rahman Siregar, S.Si, M. Biotech.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Scratching the Surface: Bacterial Cell Envelopes at the Nanoscale. *mBio*. Vol. 11(1): 1-12.

Vörös, Z., G. Csík, L. Herényi, & M. Kellermayer. 2018. Temperature-Dependent Nanomechanics and Topography of Bacteriophage T7. *JOURNAL OF VIROLOGY*. Vol. 92(20).

Wally, A. D., Pribadi, E. S. & Setyaningsih, S. 2024. bakteriofag spesifik escherichia coli yang diisolasi dari berbagai sumber air di bogor tengah, kota bogor sebagai antibiotika alternatif. JURNAL BIOLOGI UDAYANA. Vol. 25(2): 183-188

Wdowiak, M., J. Paczesny, & S. Raza. 2022. Enhancing the Stability of Bacteriophages Using Physical, Chemical, and Nano-Based Approaches: A Review. *PHARMACEUTICS*. Vol. 14(9): 1936.

Zhang, S., Ye, Q., Wang, M., Zhu, D., Jia, R., Chen, S., Liu, M., Yang, Q., Zhao, X., Wu, Y., Huang, J., Ou, X., Sun, D., Tian, B., He, Y., Wu, Z. & Cheng, A. 2025. Isolation and characterization of a broad-spectrum bacteriophage against multi-drug resistant Escherichia coli from waterfowl field. *Poultry Science*. Vol. 104 (2): 104787