

DAFTAR PUSTAKA

- Alizade, H., Fallah, F., Ghanbarpour, R., Aflatoonian, M. R., Goudarzi, H., and Sharifi, H. 2015. February. *Phylogenetic groups, extended spectrum B-lactamase and metallo-B-lactamase in Escherichia coli isolated from fecal samples of patients with diarrhea in Iran*. Research Institute for Gastroenterology and Liver Disease. Vol. 8: pp. 207-214.
- Al-Mayahie, S., Al-Khafajy, A., Dosh, N., Al-Rekabi and Al-Atabie, A. 2015. December. *Phylogenetic Grouping of Dominant Fecal Escherichia coli Isolates from Healthy Males and Females in Al-Kut/Wasit Province/Iraq*. Journal of Bacteriology and Parasitology. Vol. 6.
- Banerjee, R., Strahilevitz, J., Johnson, J. R., Nagwekar, P. P., Schora, D. M., Shevrin, I., Du, H., Peterson, L. R and Robicsek, A. 2013. September. *Predictor Molecular Epidemiology of Community Onset Extended Spectrum B-Lactamase Producing Escherichia coli Infection in a Midwestern Community*. Infection Control and Hospital Epidemiology. Vol. 34: pp. 947-953.
- Bano, J. R., Alcalá, J. C., Cisneros, J. M., Grill, F., Oliver, A., Horcajada, J.P., Tortola, T., Mirelis, B., Navarro, G., Cuenca, M., Esteve, M., Pena, C., Llanos, A. C., Canton, R and Pascual, A. 2008. *Community Infection Caused by Extended Spectrum B- Lactamase Producing Escherichia coli*. American Medical Association. Vol. 168: pp. 1897-1902.
- Bano, J. R., Picon, E., Gijon, P., Hernandez, J. R., Ruiz, M., Pena, C., Almela, M., Almirante, B., Grill, F., Colomina, J., Gimenez, M., Oliver, A., Horcajada, J. P., Navarro, G., Coloma, A and Pascual, A. 2010. *Community Onset Bacteremia Due to Extended Spectrum B-Lactamase Producing Escherichia coli : Risk Factors and Prognosis*. Clinical Infectious Disease. Vol. 50: pp. 40-48.
- Bailey, J. K., Pinyon, J. L., Anantham, S and Hall, R. M. 2010. July. *Commensal Escherichia coli of Healthy Humans: a Reservoir for Antibiotic – Resistance Determinants*. Journal of Medical Microbiology. Vol. 59: pp. 1331-1339.
- Baylis, C. L., Penn, C. W., Thielman, N. M., Guerrant, R. L., Jenkins, C and Gillespie, S. H. 2006. *Escherichia coli and Shigella spp. In: Gillespie SH and Hawkey PM. Principles and Practice of Clinical Bacteriology*. 2nd ed. John Wiley & Sons. London. pp. 347-365.

- Biosoft, P. *Multiplex PCR: an Overview of Multiplex PCR Assay, Primer Design for Multiplexing, Primer Design Software for Multiplex PCR*. Accelerating Research in Life Sciences.
- Bok, E., Mazurek, J., Myc, A., Stosik, M., Wojciech, M., and Baldy-Chudzik, K. 2018. March. *Comparison of Commensal Escherichia coli Isolates from Adult and Young Children in Lubuskie Province, Poland: Virulence Potential, Phylogeny and Antimicrobial Resistance*. International Journal of Environmental Research and Public Health.
- Bozcal, E., Eldem, V., Aydemir, S and Skurnik, M. 2018. August. *The Relationship Between Phylogenetic Classification, Virulence and Antibiotic Resistance of Extraintestinal Pathogenic Escherichia coli in Izmir Province, Turkey*. Vol. 6: pp. 5470.
- Bush, K and Jacoby, G. A. 2010. March. *Mini Review : Updated Functional Classification of B-Lactamases*. Antimicrobial Agents and Chemoterapy. Vol. 54: pp. 969-976.
- Chakraborty, A., Saralaya, V., Adhikari, P., Shenoy, S., Baliga, S and Hegde, A. 2015. August. *Characterization of Escherichia coli Phylogenetic Groups Assosiated with Extraintestinal Infections in South Indian Population*. Annals of Medical and Health Science Research. Vol. 5: pp. 241-246.
- Chaudhuri, R. R and Henderson, I. R. 2012. January. *The Evolution of the Escherichia coli Phylogeny*. Elsevier. Vol. 12: pp. 214-226.
- Clermont, O., Bonacorsi, S and Bingen, E. 2000. October. *Rapid and Simple Determination of the Escherichia coli Phylogenetic Group*. American Society for Microbiology. Vol. 66: pp. 4555-4558.
- Clermont, O., Christenson, J. K., Denamur, E and Gordon, D. M. 2013. October. *The Clermont Escherichia coli Phylo-typing Method Revisited : Improvement of Specificity and Detection of New Phylo-groups*. Environmental Microbiology Report. Vol. 5: pp. 58-65.
- Clermont, O., Lavollay, M., Vimont, S., Deschamps, C., Forestier, C., Branger, C., Denamur, E and Arlet, G. 2008. March. *The CTX-M-15-Producing Escherichia coli Diffusing Clone Belongs to a Highly Virulent B2 Phylogenetic Subgroup*. Journal of Antimicrobial Chemotherapy. Vol. 61: pp. 1024-1028.
- Clinical and Laboratory Standards Institute. 2019. *M100 Performance Standards for Antimicrobial Susceptibility Testing*. 29th ed.
- Cyoia, P. S., Rodrigues, G. R., Nishio, E. K., Medeiros, L. P., Koga, V. L., Pereira, A. P., Vespero, E. C., Houle, S., Dozois, C. M., Nakazato, G and Kobayashi, R. K. 2015. March. *Presence of Virulence Genes and*

- Pathogenicity Islands in Extraintestinal Pathogenic Escherichia coli Isolates from Brazil*. The Journal of Infection in Developing Countries. Vol. 9(10): pp. 1068-1075.
- Dale, A. P and Woodford, N. 2015. *Extra-intestinal pathogenic Escherichia coli (ExPEC): Disease, Carriage and Clones*. Journal of Infection Elsevier, Vol. XX: pp. 1-12.
- Daniel Kohler, C and Dobrindt, U. 2011. *What Defines Extraintestinal Pathogenic Escherichia coli?*. International Journal of Medical Microbiology. Vol. 301: pp. 642-647
- Doddaiah, V and Anjaneya, D. 2014. April. *Prevalence of ESBL, AmpC and Carbapenemase Among Gram Negative Bacilli Isolated from Clinical Specimens*. American Journal of Life Sciences. Vol. 2: pp. 76-81.
- Durmaz, S., Buyukunal, E. B., Gunaydin, M., Yula, E and Percin, D. 2015. September. *Detection of B-Lactamase Genes, ERIC-PCR Typing and Phylogenetic Groups of ESBL Producing Quinolone Resistant Clinical Escherichia coli Isolates*. Biomedical Research. Vol. 26: pp. 43-50.
- Fan, N. C., Chen, H. H., Chen, C. L., Ou, L. S., Lin, T. Y., Tsai, M. H and Chiu, C. H. 2013. May. *Rise of Community Onset Urinary Tract Infection Caused by Extended Spectrum B-Lactamase Producing Escherichia coli in Children*. Elsevier. Vol. 47: pp. 399-405.
- Gariyban, L., and Avashia, N. 2013. *Polymerase Chain Reaction*. Journal of Investigative Dermatology. Vol. 133.
- Gordon, D. M., Stern, S. E and Collignon, P. J. 2005. September. *Influence of The Age and Sex of Human hosts on the distribution of Escherichia coli ECO Groups and virulence Traits*. Vol. 151: pp. 15-23
- Hasanpour, M and Najafi, A. 2017. March. *Development of a Multiplex Real-Time PCR Assay for Phylogenetic Analysis of Uropathogenic Escherichia coli*. Journal of Microbiological Methods.
- Herzer, P. J., Inouye, S., Inouye, M and Whittam, T. S. 1990. November. *Phylogenetic Distribution of Branched RNA-Linked Multicopy Single-Stranded DNA among Natural Isolates of Escherichia coli*. Journal of Bacteriology. Vol. 172: pp. 6175-6181.
- Johnson, J. R., Delavari, P., Kuskowski, M and Stell, A. L. 2001. *Phylogenetic Distribution of Extraintestinal Virulence-Associated Traits in Escherichia coli*. The Journal of Infectious Disease. Vol. 183: pp. 78-88.
- Johnson, J. R., Kuskowski, M. A., Owens, K., Gajewski, A and Winokur, P. L. 2003. September. *Phylogenetic Origin and Virulence Genotype in*

- Relation to Resistance to Fluoroquinolones and/or Extended-Spectrum Cephalosporins and Cephamicins among Escherichia coli Isolates from Animals and Humans.* The Journal of Infectious Diseases. Vol. 188: pp. 759-768.
- Johnson , J. R., Scheutz, P., Ulleryd. P., Kuskowski, M. A., O'Bryan, T. T and Sandberg, T. 2005. August. *Phylogenetic and Pathotypic Comparison of Concurrent Urine and Rectal Escherichia coli Isolated from Men with Febrile Urinary Tract Infection.* Journal of Clinical Microbiology. Vol. 43: pp. 3895-3900.
- Kaper, J. B., Nataro, J. P and Mobley, H. L. 2004. *Pathogenic Escherichia coli.* Nature Review. Vol. 2.
- Kazemnia, A., Malahat, M and Dilmaghani, M. 2014. October. *Antibiotic Resistance Pattern of Different Escherichia coli Phylogenetic Groups Isolated from Human Urinary Tract Infection and Avian Colibacillosis.* Iranian Biomedical Journal. Vol. 18: pp. 219-224.
- Koga, V. L., Tomazetto, G., Cyويا, P. S., Neves, M. S., Vidotto, M. C., Nakazato, G and Kobayashi, R. K. 2014. March. *Molecular Screening of Virulence Genes in Extraintestinal Pathogenic Escherichia coli Isolated from Human Blood Culture in Brazil.* BioMed Research International. Vol. 9.
- Koren, O., Goodrich, J. K., Cullender T. C., Spor, A., Laitinen, K., Backhed, H. K., Gonzalez, A., Warner, J. J., Angenent, L. T., Knight, R., Backhed, F., Isolauri, E., Salminen, S and Ley, R.E. 2012. August. *Host Remodelling of the Gut Microbiome and Metabolic Changes During Pregnancy.* NIH Public Access. Vol. 3: pp. 470-480.
- Kuntaman, K., Lestari, E. S., Severin, J. A., Kershof, I. M., Mertaniasih, N. M., Purwanta, M., Hadi, U., Johnson, J. R., Belkum, A and Verbrugh, H. A. 2005. November. *Fluoroquinolone-Resistant Escherichia coli, Indonesia.* Emerging Infectious Disease. Vol. 11: pp. 1363-1369.
- Kuntaman, K., Santoso, S., Wahjono, H., Mertaniasih, N. M., Lestari, E. S., Farida, H., Hapsari, R., Firmanti, S. C., Noorhamdani, A. S., Santosaningsih, D., Purwono, P. B and Kusumaningrum, D. 2011. December. *The Sensitivity Pattern of Extended Beta Lactamase-Producing Bacteria Against Six Antibiotics that Routinely Used in Clinical Setting.* Journal Indonesia Medical Association. Vol. 61: pp. 482-486.
- Lara, B. M Flaviane., Nery, D. R., Oliveira, P. M., Araujo, L. M., Carvalho, F. R., Messias-Silva, L. C., Ferreira, L. B., Junior, C. F and Pereira, A. L. 2017. February. *Virulence Marker and Phylogenetic Analysis of Escherichia coli Strains with Hybrid EAEC/UPEC Genotypes Recovered*

- from Sporadic Cases of Extraintestinal Infections*. *Frontiers in Microbiology*. Vol. 8.
- Leber, L. Amy., 2016. *Handbook, Clinical Microbiology Procedures* 4th ed., Vol. 1-3. Washington, DC: American Society for Microbiology.
- Leboffe, M. J and Pierce, B. E. 2011. *A Photographic Atlas for the Microbiology Laboratory* 4th ed. United States of America: Morton Publishing Company.
- Lee, S., Yu, J. K., Park, K., Oh, E. J., Kim, S. Y and Park, Y. J. 2010. *Phylogenetic Groups and Virulence Factors in Pathogenic and Comensal Strains of Escherichia coli and Their Association with blaCTX-M*. *Annals of Clinical & Laboratory Science*. Vol. 40: pp. 361-367.
- Leimbach, A., Hocker, J and Dobrindt, U. 2013. January. *E. coli as an All-Rounder: The Thin Line Between Commensalism and Pathogenicity*. *Current Topics in Microbiology and Immunology*. Vol. 358: pp. 3-32.
- Mahon, C. R., Lehman, D. C and Manuselis, G. 2015. *Textbook of Diagnostic Microbiology*. 5th ed. Missouri. pp. 424.
- Miajlovic, H., Aogain, M. M., Collins, C. J., Rogers, T. R and Smith, S. G. 2016. *Characterization of Escherichia coli Bloodstream Isolates Associated with Mortality*. *Journal of Medical Microbiology*. Vol. 65: pp. 71-79.
- Navidinia, M., Peerayeh, S. N., Fallah, F., Bakhshi, B and Sajadina, R. S. 2014. *Phylogenetic Grouping and Pathotypic Comparison of Urine and Fecal Escherichia coli Isolated from Children with Urinary Tract Infection*. *Brazilian Journal of Microbiology*. Vol. 45: pp. 509-514.
- Nowrouzian, F., Hesselmar, B., Saalman, R., Strannegard, I., Aberg, N., Wold, A. E and Adlerberth, I. 2003. *Escherichia coli in Infants' Intestinal Microflora: ColonizationRate, Strain Turnover and Virulence Gene Carriage*. *Pediatric Research*. Vol. 54: 8-14.
- Picard, B., Garcia, J. S., Gouriou, S., Duriez, P., Brahimi, N., Bingen, E., Elion, J and Denamur, E. 1999. Februari. *The Link between Phylogeny and Virulence in Escherichia coli Extraintestinal Infection*. American Society for Microbiology. pp. 546-553.
- Pootong, A., Mungkorkeaw, N., Norrapong, B and Cowawintaweewat, S. 2018. January. *Phylogenetic background, drug susceptibility and virulence factors of uropathogenic E. coli isolate in a tertiary university hospital in central Thailand*. *Tropical Biomedicine*. Vol. 35: pp. 195-204.

- Procop, Q. W., Church, D. L., Hall, G. S., Janda, W. M., Koneman, E. W., Schreckenberger, P. C and Woods. 2017. *Koneman's Color Atlas and Textbook of Diagnostic Microbiology* 7th ed. pp. 235-258.
- Rani, S., Jahnavi, I and Nagamani, K. 2016. August. *Phenotypic and Molecular Characterization of ESBLs Producing Enterobacteriaceae in a Tertiary Care Hospital*. IOSR Journal of Dental and Medical Sciences. Vol. 15: pp. 27-34.
- Rashki, A and Abdi, H. 2014. November. Comparison of Factor Distribution in Uropathogenic E.coli Isolates From Phylogenetic Groups B2 and D. *International Journal Pathology*. Vol. 2: pp. 217-225.
- Rijavec, M., Premru, M. M., Zakotnik, B., Bertok, D. Z. 2008. July. *Virulence Factors and Biofilm Production Among Escherichia coli Strains Causing Bacteraemia of Urinary Tract Origin*. *Journal of Medical Microbiology*. Vol. 57: pp. 1329-1334.
- Russo, T. A., Johnson, J. R. 2000. May. *Proposal for a New Inclusive Designation for Extraintestinal Pathogenic Isolates of Escherichia coli : ExPEC*. *The Journal of Infectious Diseases*. Vol. 181: pp. 1753-1754.
- Severin, J. A., Lestari, E. S., Kloezen, W., Toom, N. L., Mertaniasih, N. M., Kuntaman, K., Purwanta, M., Duerink, D. O., Hadi, U., Belkum, A., Verbrugh, H. A and Goessens, W. H. 2012. April. *Faecal Carriage of Extended-Spectrum B-Lactamase-Producing Enterobacteriaceae among Humans in Java, Indonesia in 2001-2002*. *Tropical Medicine and International Health*. Vol. 17: pp. 455-461.
- Souza, V., Rocha, M., Valera, A and Eguiarte, L. E. 1999. August. *Genetic Structure of Natural Populations of Escherichia coli in Wild Host on Different Continents*. *Americans Society for Microbiology*. Vol. 65: pp. 3373-3385.
- Subashchandrabose, S and Mobley, H. L. 2015. July. *Virulence and Fitness Determinants of Uropathogenic Escherichia coli*. *Microbiology Spectrum*. Vol. 3.
- Tenaillon, O., Skurnik, D., Picard, B and Denamur E. 2010. March. *The Population Genetics of Commensal Escherichia coli*. *Nature Review*. Vol. 8.
- Wasito, E. B., Shigemura, K., Osawa, K., Fardah, A., Kanaida, A., Raharjo, D., Kuntaman, K., Hadi, U., Harijono, S., Sudarmo, S. M., Nakamura, T., Shibayama, K., Fujisawa, M and Shirakawa, T. 2016. December. *Antibiotic Susceptibility and Genetic Characterization of Extended Spectrum Beta-Lactamase Producing Escherichia coli Isolated from*

Stools of Pediatric Patients in Surabaya, Indonesia. Japanese Journal of Infectious Diseases.

Woerther, P. L., Burdet, C., Chachaty, E and Andremont, A. 2013. October. *Trends in Human Fecal Carriage of Extended Spectrum B-Lactamase in the Community: Toward the Globalization of CTX-M.* Clinical Microbiology Review AMR Journal ASM org. Vol. 26: pp. 744-758.

Yamagishi, J., Sato, Y., Shinozaki, N., Ye, B., Tsuboi, A., Nagasaki, M and Yamashita, R. 2016. April. *Comparison of Boiling and Robotic Automation Method in DNA Extraction for Metagenomic Sequencing of Human Oral Microbes.* PLoS ONE.