Identifikasi Populasi Bakteri Anaerob Fakultatif pada Permukaan Ventilator di Ruang ICU Rumah Sakit
PKU Muhammadiyah Yogyakarta dengan Pendekatan Metagenomika
ABDURRAHMAN NUR P, dr. Raden Ludhang Pradipta Rizki, M.Biotech, Sp.MK; dr. Marselinus Edwin Widyanto Dan
Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

DAFTAR PUSTAKA

Abdelrazik Othman, A., & Salah Abdelazim, M. 2017. 'Ventilator-associated pneumonia in adult intensive care unit prevalence and complications'. *The Egyptian Journal of Critical Care Medicine*, *5*(2), pp. 61–63. DOI:10.1016/j.ejccm.2017.06.001

Abdulmutalib IAM. 2019. 'Ventilator-Associated Pneumonia: Nursing Implications'. *International Journal of Novel Research in Healthcare and Nursing*, 6(1), pp.139-147.

Ahmed, E. H., Hassan, H.-A. M., El-Sherbiny, N. M., & Soliman, A. M. 2019. 'Bacteriological monitoring of inanimate surfaces and equipment in some referral hospitals in Assiut City, Egypt'. *International Journal of Microbiology*, *2019*, pp. 1–9. DOI:10.1155/2019/5907507

Alemu, A. Y., Endalamaw, A., Belay, D. M., Mekonen, D. K., Birhan, B. M., & Bayih, W. A. 2020. 'Healthcare-associated infection and its determinants in Ethiopia: A systematic review and meta-analysis'. *PLOS ONE*, *15*(10). DOI:10.1371/journal.pone.0241073

Ali, H. S., Khan, F. Y., George, S., Shaikh, N., & Al-Ajmi, J. 2016. 'Epidemiology and outcome of ventilator-associated pneumonia in a heterogeneous ICU population in Qatar'. *BioMed Research International*, *2016*, pp. 1–8. DOI:10.1155/2016/8231787

Allegranzi, B., Nejad, S. B., Combescure, C., Graafmans, W., Attar, H., Donaldson, L., & Pittet, D. 2011. 'Burden of endemic health-care-associated infection in

UNIVERSITAS GADJAH MADA
Identifikasi Populasi Bakteri Anaerob Fakultatif pada Permukaan Ventilator di Ruang ICU Rumah Sakit PKU Muhammadiyah Yogyakarta dengan Pendekatan Metagenomika
ABDURRAHMAN NUR P, dr. Raden Ludhang Pradipta Rizki, M.Biotech, Sp.MK; dr. Marselinus Edwin Widyanto Dan
Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

developing countries: Systematic review and meta-analysis'. *The Lancet*, *377*(9761), pp. 228–241. DOI:10.1016/s0140-6736(10)61458-4

Alshahrani, S. T., & Arevalo, J. F. 2020. 'Chronic Endophthalmitis Caused by Pseudomonas stutzeri'. *Case Reports in Ophthalmology*, 11(3), pp. 595–599. DOI:10.1159/000510129

Alwazzeh, M. J., Alkuwaiti, F. A., Alqasim, M., Alwarthan, S., & El-ghoneimy, Y. 2020. 'Infective Endocarditis Caused by Pseudomonas stutzeri: A Case Report and Literature Review'. *Infectious Disease Reports*, 12(3), pp. 105–109. DOI:10.3390/idr12030020

André, A. C., Debande, L., & Marteyn, B. S. 2021. 'The selective advantage of facultative anaerobes relies on their unique ability to cope with changing oxygen levels during infection'. *Cellular Microbiology*, *23*(8). DOI:10.1111/cmi.13338

Bashir, M., Umar, A. B., & Bilyaminu, M. 2020. 'Determination of Bacteria associated with Urinary Catheters from Patients Suffering from Urinary Tract Infections'. *Dr. Sulaiman Al Habib Medical Journal*, 2(1), pp. 20–23. DOI: https://doi.org/https://doi.org/10.2991/dsahmj.k.200220.001

Behjati, S., & Tarpey, P. S. 2013. 'What is next generation sequencing?' *Archives of Disease in Childhood - Education & Practice Edition*, *98*(6), pp. 236–238. DOI:10.1136/archdischild-2013-304340

Blot, S., Koulenti, D., Dimopoulos, G., Martin, C., Komnos, A., Krueger, W. A., Spina, G., Armaganidis, A., & Rello, J. 2014. 'Prevalence, risk factors, and

UNIVERSITAS GADJAH MADA
Identifikasi Populasi Bakteri Anaerob Fakultatif pada Permukaan Ventilator di Ruang ICU Rumah Sakit PKU Muhammadiyah Yogyakarta dengan Pendekatan Metagenomika
ABDURRAHMAN NUR P, dr. Raden Ludhang Pradipta Rizki, M.Biotech, Sp.MK; dr. Marselinus Edwin Widyanto Dan
Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

mortality for ventilator-associated pneumonia in middle-aged, old, and very old critically ill patients*'. *Critical Care Medicine, 42*(3), pp. 601–609. DOI:10.1097/01.ccm.0000435665.07446.50

Center for Disease Control and Prevention 2014. 'Types of Healthcare-associated Infections', Center for Disease Control and Prevention, viewed 7 Oktober 2021.

Center for Disease Control and Prevention 2010. 'Ventilator-associated Pneumonia (VAP)', Center for Disease Control and Prevention, viewed 10 Oktober 2021.

Chakravorty, S., Helb, D., Burday, M., Connell, N., & Alland, D. 2007. 'A detailed analysis of 16S ribosomal RNA gene segments for the diagnosis of pathogenic bacteria'. *Journal of microbiological methods*, 69(2), pp. 330–339. DOI:https://doi.org/10.1016/j.mimet.2007.02.005

Choi Min. 2017. 'An Outbreak of Pseudomonas stutzeri Bacterial Isolation Caused by Sterile Dressing Products'. *J Wound Manag Res*, 13(1), pp. 24–27. DOI: https://doi.org/10.22467/jwmr.2017.00122

ChunLab Inc. 2017. '16S RRNA And 16S RRNA Gene'. URL: https://help.ezbiocloud.net/16s-rrna-and-16s-rrna-gene/. Viewed 27 Desember 2021

Ehlers S, Merrill SA. 'Staphylococcus Saprophyticus'. 2021. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2021 Jan-. Available from: https://www.ncbi.nlm.nih.gov/books/NBK482367/

UNIVERSITAS GADJAH MADA
Identifikasi Populasi Bakteri Anaerob Fakultatif pada Permukaan Ventilator di Ruang ICU Rumah Sakit PKU Muhammadiyah Yogyakarta dengan Pendekatan Metagenomika
ABDURRAHMAN NUR P, dr. Raden Ludhang Pradipta Rizki, M.Biotech, Sp.MK; dr. Marselinus Edwin Widyanto Dan
Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

EzBioCloud 2019. 'MTP-Primary analysis', The EzBioCloud team, viewed 19 Oktober 2021.

Fabbro-Peray, P., Sotto, A., Defez, C., Cazaban, M., Molinari, L., Pinède, M., Mahamat, A., & Daurès, J. P. 2007. 'Mortality attributable to nosocomial infection: A cohort of patients with and without nosocomial infection in a French university hospital'. *Infection Control & Hospital Epidemiology*, *28*(3), pp. 265–272. DOI:doi.org/10.1086/512626

Field, S. J., Thorndycroft, F. H., Matorin, A. D., Richardson, D. J., & Watmough, N. J. 2008. 'The Respiratory Nitric Oxide Reductase (NorBC) from Paracoccus denitrificans'. *Methods in Enzymology*, pp. 79–101. DOI:10.1016/S0076-6879(07)37005-5

Foster, T. J., & Geoghegan, J. A. (2015). *Staphylococcus aureus*. *Molecular Medical Microbiology*, 655–674. DOI:10.1016/B978-0-12-397169-2.00037-8

Ghosh, S., Dhamija, A., Dhar, D., Basu, A., & Goel, N. 2018. 'Epidemiology and outcome of ventilator associated pneumonia in an tertiary care ICU of India'. *Respiratory Infections*. DOI:10.1183/13993003.congress-2018.pa4717

Goodwin, S., McPherson, J. D., & McCombie, W. R. 2016. 'Coming of age: Ten Years of next-generation Sequencing Technologies'. *Nature Reviews Genetics*, *17*(6), pp. 333–351. DOI:10.1038/nrg.2016.49

Gupta, S., Mortensen, M. S., Schjørring, S., Trivedi, U., Vestergaard, G., Stokholm, J., Bisgaard, H., Krogfelt, K. A., & Sørensen, S. J. 2019. 'Amplicon

UNIVERSITAS GADJAH MADA
Identifikasi Populasi Bakteri Anaerob Fakultatif pada Permukaan Ventilator di Ruang ICU Rumah Sakit PKU Muhammadiyah Yogyakarta dengan Pendekatan Metagenomika
ABDURRAHMAN NUR P, dr. Raden Ludhang Pradipta Rizki, M.Biotech, Sp.MK; dr. Marselinus Edwin Widyanto Dan
Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

sequencing provides more accurate microbiome information in healthy children compared to culturing'. *Communications Biology*, *2*(1). DOI:10.1038/s42003-019-0540-1

Han, X. Y., & Tarrand, J. J. 2004. 'Moraxella osloensisBlood and Catheter Infections During Anticancer Chemotherapy'. *American Journal of Clinical Pathology*, 121(4), pp. 581–587. DOI:10.1309/QBB3AVCMGWA3K1XK

Haque, M., Sartelli, M., McKimm, J., & Abu Bakar, M. B. 2018. 'Health care-associated infections – an overview'. *Infection and Drug Resistance*, *Volume 11*, pp. 2321–2333. DOI:10.2147/idr.s177247

Hentges, D. J. 1996. Anaerobes: General Characteristics. In S. Baron (Ed.), Medical Microbiology. (4th ed.). University of Texas Medical Branch at Galveston. Viewed 14 Oktober 2021.

Janda, J. M., & Abbott, S. L. 2007. '16S rrna gene sequencing for bacterial identification in the diagnostic laboratory: Pluses, perils, and Pitfalls'. *Journal of Clinical Microbiology*, *45*(9), pp. 2761–2764. DOI:10.1128/jcm.01228-07

Joanne Elliot, Z., & Charlton Elliot, S. 2018. 'An overview of mechanical ventilation in the Intensive Care Unit'. *Nursing Standard*, *32*(28), pp. 41–49. DOI:10.7748/ns.2018.e10710

Johnson, J. S., Spakowicz, D. J., Hong, B.-Y., Petersen, L. M., Demkowicz, P., Chen, L., Leopold, S. R., Hanson, B. M., Agresta, H. O., Gerstein, M., Sodergren, E., & Weinstock, G. M. 2019. 'Evaluation of 16S rrna gene

UNIVERSITAS GADJAH MADA
Identifikasi Populasi Bakteri Anaerob Fakultatif pada Permukaan Ventilator di Ruang ICU Rumah Sakit PKU Muhammadiyah Yogyakarta dengan Pendekatan Metagenomika
ABDURRAHMAN NUR P, dr. Raden Ludhang Pradipta Rizki, M.Biotech, Sp.MK; dr. Marselinus Edwin Widyanto Dan
Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

sequencing for species and strain-level microbiome analysis'. *Nature Communications*, *10*(1). DOI:10.1038/s41467-019-13036-1

Kalanuria, A., Zai, W., & Mirski, M. 2014. 'Ventilator-associated pneumonia in the ICU'. *Critical Care*, *18*(2), pp. 208. DOI:10.1186/cc13775

Kawamura, Y., Fujiwara, N., Naka, T., Mitani, A., Kubota, H., Tomida, J., … Hitomi, J. 2012. 'Genus *Enhydrobacter Staley* et al. 1987 should be recognized as a member of the family Rhodospirillaceae within the class Alphaproteobacteria'. *Microbiology and Immunology*, 56(1), pp. 21–26. DOI:10.1111/j.1348-0421.2011.00401.x

Kelly, D. P. 2006. Redefining *Paracoccus denitrificans* and *Paracoccus pantotrophus* and the case for a reassessment of the strains held by international culture collections. *INTERNATIONAL JOURNAL OF SYSTEMATIC AND EVOLUTIONARY MICROBIOLOGY*, 56(10), pp. 2495–2500. DOI:10.1099/ijs.0.64401-0

Keputusan Menteri Kesehatan Republik Indonesia Nomor 1778/MENKES/SK/XII/2010 Tentang Pedman Penyelenggaraan Pelayanan *Intensive Care Unit* (ICU) di Rumah Sakit.

Khan, H. A., Baig, F. K., & Mehboob, R. 2017. 'Nosocomial infections: Epidemiology, prevention, Control and surveillance'. *Asian Pacific Journal of Tropical Biomedicine*, *7*(5), pp. 478–482. DOI:10.1016/j.apjtb.2017.01.019

UNIVERSITAS GADJAH MADA
Identifikasi Populasi Bakteri Anaerob Fakultatif pada Permukaan Ventilator di Ruang ICU Rumah Sakit PKU Muhammadiyah Yogyakarta dengan Pendekatan Metagenomika
ABDURRAHMAN NUR P, dr. Raden Ludhang Pradipta Rizki, M.Biotech, Sp.MK; dr. Marselinus Edwin Widyanto Dan
Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Kharel, S., Bist, A., & Mishra, S. K. 2021. 'Ventilator-associated pneumonia among ICU patients in WHO Southeast Asian region: A systematic review'. *PLOS ONE*, *16*(3). DOI:10.1371/journal.pone.0247832

Kim, C.-J., Kim, H.-B., Oh, M., Kim, Y., Kim, A., … Yun, N. R. 2014. 'The burden of nosocomial staphylococcus aureus bloodstream infection in South Korea: a prospective hospital-based nationwide study'. *BMC Infectious Diseases*, 14(1). DOI:10.1186/s12879-014-0590-4

Klein, E., Smith, D. L., & Laxminarayan, R. 2007. 'Hospitalizations and Deaths Caused by Methicillin-Resistant Staphylococcus aureus, United States, 1999–2005'. *Emerging Infectious Diseases*, 13(12), pp. 1840-1846. DOI: https://doi.org/10.3201/eid1312.070629.

Koch, A. M., Nilsen, R. M., Eriksen, H. M., Cox, R. J., & Harthug, S. 2015. 'Mortality related to hospital-associated infections in a tertiary hospital; repeated cross-sectional studies between 2004-2011'. *Antimicrobial Resistance and Infection Control*, *4*(1). DOI:10.1186/s13756-015-0097-9

Kristanto, Y., Dahesihdewi, A. 2018. 'Hospital Acquired Infections Profile of Intensive Care Patients in RSUP Sardjito Yogyakarta'. Skripsi. Yogyakarta: Universitas Gadjah Mada

Kritsotakis, E., Kontopidou, F., Astrinaki, E., Roumbelaki, M., Ioannidou, E., & Gikas, A. 2017. 'Prevalence, incidence burden, and clinical impact of healthcare-associated infections and antimicrobial resistance: A national

UNIVERSITAS GADJAH MADA
Identifikasi Populasi Bakteri Anaerob Fakultatif pada Permukaan Ventilator di Ruang ICU Rumah Sakit PKU Muhammadiyah Yogyakarta dengan Pendekatan Metagenomika
ABDURRAHMAN NUR P, dr. Raden Ludhang Pradipta Rizki, M.Biotech, Sp.MK; dr. Marselinus Edwin Widyanto Dan
Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

prevalent cohort study in acute care hospitals in Greece'. *Infection and Drug Resistance, Volume 10*, pp. 317–328. DOI:10.2147/idr.s147459

Lalucat, J., Bennasar, A., Bosch, R., García-Valdés, E., & Palleroni, N. J. 2006. 'Biology of *Pseudomonas stutzeri*'. *Microbiology and molecular biology reviews* : MMBR, 70(2), pp. 510–547. DOI: https://doi.org/10.1128/MMBR.00047-05

Lauria, F. N., & Angeletti, C. 2003. 'The impact of nosocomial infections on hospital care costs'. Infection, 31 Suppl 2, pp. 35–43.

Lawal, O. U., Fraqueza, M. J., Bouchami, O., Worning, P., Bartels, M. D., Gonçalves, M. L....Miragaia, M. 2021. 'Foodborne Origin and Local and Global Spread of *Staphylococcus saprophyticus* Causing Human Urinary Tract Infections'. *Emerging Infectious Diseases*, 27(3), pp: 880-893. DOI: https://doi.org/10.3201/eid2703.200852.

Li, Y.-C., Lin, H.-L., Liao, F.-C., Wang, S.-S., Chang, H.-C., Hsu, H.-F., Chen, S.-H., & Wan, G.-H. 2018. 'Potential risk for bacterial contamination in conventional reused ventilator systems and disposable closed ventilator-suction systems'. *PLOS ONE, 13*(3). DOI:10.1371/journal.pone.0194246

Lo, Denise Swei MD; Shieh, Huei Hsin MD; Barreira, Eliane Roseli MD; Ragazzi, Selma Lopes Betta MD; Gilio, Alfredo Elias PhD. 2015. 'High Frequency of Staphylococcus Saprophyticus Urinary Tract Infections Among Female Adolescents', *The Pediatric Infectious Disease Journal*, pp. 1023-1025 DOI: 10.1097/INF.0000000000000780

UNIVERSITAS GADJAH MADA
Identifikasi Populasi Bakteri Anaerob Fakultatif pada Permukaan Ventilator di Ruang ICU Rumah Sakit PKU Muhammadiyah Yogyakarta dengan Pendekatan Metagenomika
ABDURRAHMAN NUR P, dr. Raden Ludhang Pradipta Rizki, M.Biotech, Sp.MK; dr. Marselinus Edwin Widyanto Dan
Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Mahlen, S. D., & Clarridge, J. E. 2011. 'Evaluation of a Selection Strategy Before Use of 16S rRNA Gene Sequencing for the Identification of Clinically Significant Gram-Negative Rods and Coccobacilli'. *American Journal of Clinical Pathology*, 136(3), pp. 381–388. DOI:10.1309/AJCP61CGNXCXVSPR

'Mechanical ventilation'. 2017. *American Journal of Respiratory and Critical Care Medicine*, *196*(2). DOI:10.1164/rccm.1962p3

Ondov, B. D., Bergman, N. H., & Phillippy, A. M. 2011. 'Interactive metagenomic visualization in a web browse'r. *BMC Bioinformatics*, *12*(1). DOI:10.1186/1471-2105-12-385

Osman, S., Al Talhi, Y. M., AlDabbagh, M., Baksh, M., Osman, M., & Azzam, M. 2020. 'The incidence of ventilator-associated pneumonia (VAP) in a tertiary-care center: Comparison between pre- and post-vap prevention bundle'. *Journal of Infection and Public Health*, *13*(4), pp. 552–557. DOI:10.1016/j.jiph.2019.09.015

Park, S. W., Back, J. H., Lee, S. W., Song, J. H., Shin, C. H., Kim, G. E., & Kim, M.-J. 2013. 'Successful antibiotic treatment of Pseudomonas stutzeri-induced peritonitis without peritoneal dialysis catheter removal in continuous ambulatory peritoneal dialysis'. *Kidney Research and Clinical Practice*, 32(2), pp. 81–83. DOI: https://doi.org/https://doi.org/10.1016/j.krcp.2013.04.004

UNIVERSITAS GADJAH MADA
Identifikasi Populasi Bakteri Anaerob Fakultatif pada Permukaan Ventilator di Ruang ICU Rumah Sakit PKU Muhammadiyah Yogyakarta dengan Pendekatan Metagenomika
ABDURRAHMAN NUR P, dr. Raden Ludhang Pradipta Rizki, M.Biotech, Sp.MK; dr. Marselinus Edwin Widyanto Dan
Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Pen, D.-L., Yan, G.-F., He, L.-Y., Yan, W.-L., Chen, W.-M., Liu, J., Ying, J.-Y., Wang, C.-Q., & Lu, G.-P. 2021. 'The role of bacterial colonization of ventilator circuit in development of ventilator-associated pneumonia: A prospective observational cohort study'. *Clinical Microbiology and Infection*, *27*(3). DOI:10.1016/j.cmi.2020.04.008

Peraturan Menteri Kesehatan Republik Indonesia Nomor 27 Tahun 2017 Tentang Pedoman Pencegahan dan Pengendalian Infeksi di Fasilitas Pelayanan Kesehatan.

Peraturan Menteri Kesehatan Republik Indonesia Nomor 18 Tahun 2018 Tentang Perubahan Atas Peraturan Menteri Kesehatan Nomor 66 Tahun 2017 Tentang Petunjuk Operasional Penggunaan Dana Alokasi Khusus Fisik Bidang Kesehatan Tahun Anggaran 2018.

Revelas, A. 2012. 'Healthcare - associated infections: A public health problem'. *Nigerian Medical Journal*, *53*(2), pp. 59. DOI:10.4103/0300-1652.103543

Si, Y., Xu, K., Yu, X., Wang, M., & Chen, X. 2019. 'Complete genome sequence of *Paracoccus denitrificans* ATCC 19367 and its denitrification characteristics'. *Canadian Journal of Microbiology*, 65(7), pp. 486–495. DOI:10.1139/cjm-2019-0037

Sikora A, Zahra F. 2021. *Nosocomial Infections*. StatPearls Publishing, viewed 8 Oktober 2021, URL: https://www.ncbi.nlm.nih.gov/books/NBK559312/

UNIVERSITAS GADJAH MADA
Identifikasi Populasi Bakteri Anaerob Fakultatif pada Permukaan Ventilator di Ruang ICU Rumah Sakit PKU Muhammadiyah Yogyakarta dengan Pendekatan Metagenomika
ABDURRAHMAN NUR P, dr. Raden Ludhang Pradipta Rizki, M.Biotech, Sp.MK; dr. Marselinus Edwin Widyanto Dan
Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Silva, P. L., & Rocco, P. R. 2018. 'The basics of respiratory mechanics: Ventilator-derived parameters'. *Annals of Translational Medicine*, *6*(19), pp. 376–376. DOI:10.21037/atm.2018.06.06

Staley, James & Irgens, Roar & Brenner, Don. 1987. 'Enhydrobacter aerosaccus gen. nov., sp. nov., a Gas-Vacuolated, Facultatively Anaerobic, Heterotrophic Rod'. *International Journal of Systematic Bacteriology*. 37, pp. 289-291. DOI: 10.1099/00207713-37-3-289.

Stone, P. W. 2009. 'Economic burden of healthcare-associated infections: An American perspective'. *Expert Review of Pharmacoeconomics & Outcomes Research*, *9*(5), pp. 417–422. DOI:10.1586/erp.09.53

Sugarman, B., & Clarridge, J. 1982. 'Osteomyelitis caused by *Moraxella osloensis*'. *Journal of clinical microbiology*, 15(6), pp. 1148–1149. DOI: https://doi.org/10.1128/jcm.15.6.1148-1149.1982

Taylor TA, Unakal CG. 'Staphylococcus Aureus'. 2021. In: StatPearls [Internet]. *Treasure Island (FL): StatPearls Publishing*; 2021 Jan-. Available from: https://www.ncbi.nlm.nih.gov/books/NBK441868/

Tolera, M., Abate, D., Dheresa, M., & Marami, D. 2018. 'Bacterial nosocomial infections and antimicrobial susceptibility pattern among patients admitted at Hiwot Fana Specialized University Hospital, Eastern Ethiopia'. *Advances in Medicine*, *2018*, pp. 1–7. DOI:10.1155/2018/2127814

Tong, S. Y., Davis, J. S., Eichenberger, E., Holland, T. L., & Fowler, V. G., Jr. 2015. 'Staphylococcus aureus infections: epidemiology, pathophysiology,

UNIVERSITAS GADJAH MADA
Identifikasi Populasi Bakteri Anaerob Fakultatif pada Permukaan Ventilator di Ruang ICU Rumah Sakit PKU Muhammadiyah Yogyakarta dengan Pendekatan Metagenomika
ABDURRAHMAN NUR P, dr. Raden Ludhang Pradipta Rizki, M.Biotech, Sp.MK; dr. Marselinus Edwin Widyanto Dan
Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

clinical manifestations, and management'. *Clinical microbiology reviews*, 28(3), pp. 603–661. DOI: https://doi.org/10.1128/CMR.00134-14

UniProt. 2021. 'Proteomes - Paracoccus denitrificans (strain Pd 1222)'. URL: https://www.uniprot.org/proteomes/UP000000361. Viewed 28 Desember 2021

Wunsch, H., Wagner, J., Herlim, M., Chong, D. H., Kramer, A. A., & Halpern, S. D. 2013. 'ICU occupancy and mechanical ventilator use in the United States*'. *Critical Care Medicine*, *41*(12), pp. 2712–2719. DOI:10.1097/ccm.0b013e318298a139

World Health Organization. Healthcare-associated Infection Fact Sheet, World Health Organization, viewed 15 September 2021,.

Xia, J., Gao, J., & Tang, W. 2016. 'Nosocomial infection and its molecular mechanisms of antibiotic resistance'. *BioScience Trends*, *10*(1), pp. 14–21. DOI:10.5582/bst.2016.01020

Yee-Guardino, S., Danziger-Isakov, L., Knouse, M., Bingaman, W., Sabella, C., & Goldfarb, J. 2006. 'Nosocomially Acquired Pseudomonas stutzeri Brain Abscess in a Child: Case Report and Review'. *Infection Control & Hospital Epidemiology*, 27(06), pp.630–632. DOI:10.1086/504935

Yoon, S. H., Ha, S. M., Kwon, S., Lim, J., Kim, Y., Seo, H. and Chun, J. 2017. 'Introducing EzBioCloud: A taxonomically united database of 16S rRNA and whole genome assemblies'. *Int J Syst Evol Microbiol*. 67, pp. 1613-1617. DOI:10.1099/ijsem.0.001755

UNIVERSITAS
GADJAH MADA
**Identifikasi Populasi Bakteri Anaerob Fakultatif pada Permukaan Ventilator di Ruang ICU Rumah Sakit
PKU Muhammadiyah Yogyakarta dengan Pendekatan Metagenomika**
ABDURRAHMAN NUR P, dr. Raden Ludhang Pradipta Rizki, M.Biotech, Sp.MK; dr. Marselinus Edwin Widyanto Dan
Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Zhang, Y., Zhong, Z.-F., Chen, S.-X., Zhou, D.-R., Li, Z.-K., Meng, Y., Zhou, J.-F., & Hou, T.-Y. 2019. 'Prevalence of healthcare-associated infections and antimicrobial use in China: Results from the 2018 point prevalence survey in 189 hospitals in Guangdong Province'. *International Journal of Infectious Diseases*, *89*, pp. 179–184. DOI:10.1016/j.ijid.2019.0